



Japanese Technology since 1912

## EVMS - Vertical Multistage Pumps


Data Book 60Hz



**EVMS**




1-3-5-10-15-20-32-45-64-90



|  | Page |
|--|------|
| <b>1. SPECIFICATIONS</b>  ① |      |
| 1.1 TYPICAL APPLICATIONS   | 1    |
| 1.2 PERFORMANCE RANGE  | 2    |
| <b>2. EVMS(.) 1-3-5-10-15-20-32-45-64-90</b>   |      |
| 2.1 PRODUCT FEATURES   | 3    |
| 2.2 PRODUCT SPECIFICATIONS   | 4    |
| 2.3 SHAFT SEAL   | 6    |
| 2.4 TYPE KEY and NAMEPLATE   | 8    |
| 2.5 PERFORMANCE RANGE  | 10   |
| 2.6 CURVE SPECIFICATIONS   | 11   |
| 2.7 SELECTION CHART  | 12   |
| 2.8 EVMS(L)1   | 16   |
| EVMSG1   | 22   |
| 2.9 EVMS(L)3   | 28   |
| EVMSG3   | 34   |
| 2.10 EVMS(L)5  | 40   |
| EVMSG5   | 46   |
| 2.11 EVMS(L)10   | 52   |
| EVMSG10  | 58   |
| 2.12 EVMS(L)15   | 64   |
| EVMSG15  | 70   |
| 2.13 EVMS(L)20   | 76   |
| EVMSG20  | 82   |
| 2.14 EVMS(L)32   | 88   |
| EVMSG32  | 96   |
| 2.15 EVMS(L)45   | 104  |
| EVMSG45  | 112  |
| 2.16 EVMS(L)64   | 120  |
| EVMSG64  | 128  |
| 2.17 EVMS(L)90   | 136  |
| EVMSG90  | 144  |
| <b>3. PACKING</b>  |      |
| 3.1 PACKING DRAWING  | 152  |
| 3.2 PACKING DATA   | 154  |
| <b>4. MOTOR DATA</b>   |      |
| 4.1 GENERAL and NOISE DATA   | 158  |
| 4.2 TECHNICAL MOTOR DATA   | 159  |

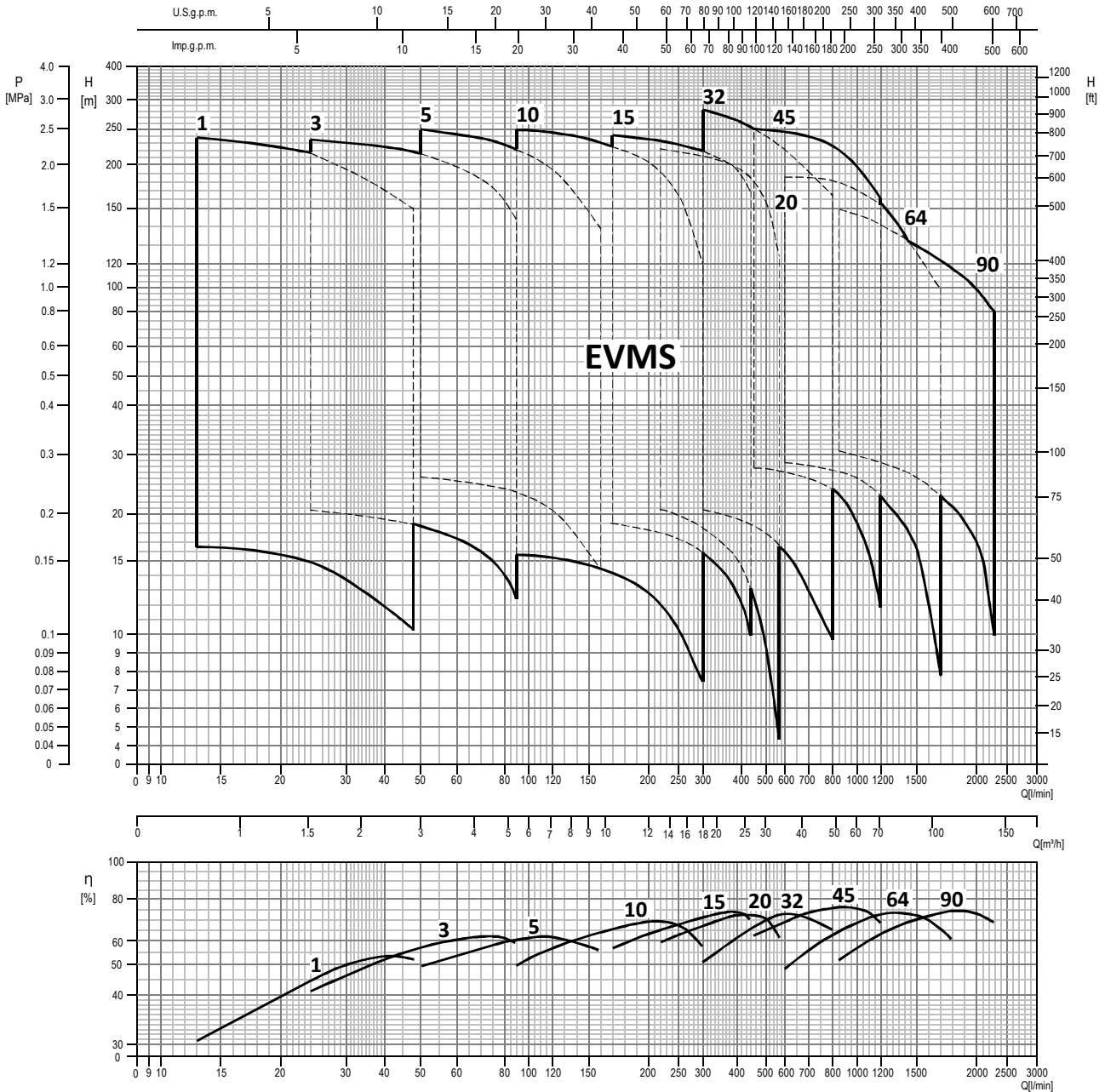
## VERTICAL MULTISTAGE PUMPS

## TYPICAL APPLICATIONS

| INDUSTRY   | BUILDING SERVICE  | WATER SUPPLY  |
|--|---|---|
|   |    |    |
| <ul style="list-style-type: none"> <li>• <b>Water treatment</b><br/>reverse osmosis<br/>ultra-filtration<br/>water purification<br/>micro-filtration<br/>softening, ionizing and demineralising systems<br/>swimming pools<br/>separators</li> <li>• <b>Boiler feeding</b><br/>steam systems<br/>condensate systems</li> <li>• <b>Wash and clean</b><br/>vehicle washing systems<br/>industrial part washing<br/>laundry systems<br/>supply of liquids with acids and bases<br/>supply of chemical liquids</li> <li>• <b>Chilling</b><br/>handling of refrigerants for cooling<br/>thermal control systems<br/>industrial cooling<br/>laser cooling</li> <li>• <b>Machine tooling</b><br/>cooling lubricant supply for tooling machines</li> <li>• <b>Pressure boosting</b><br/>pressure boosting for industrial use</li> <li>• <b>Food &amp; Beverage</b><br/>food washing systems<br/>bottle wash systems</li> <li>• <b>Pharmaceutical industries</b></li> <li>• <b>Marine applications</b><br/>freshwater, deckwash, high fog and fire fighting on ships</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Pressure boosting</b><br/>pressure boosting for buildings<br/>pressure boosting for high rise buildings/hotels</li> <li>• <b>Sprinkler systems</b></li> <li>• <b>Fire fighting systems</b><br/>jockey pump</li> <li>• <b>District heating</b></li> <li>• <b>Heat exchangers / fan heaters</b></li> <li>• <b>Air conditioning systems</b></li> <li>• <b>Heating systems</b></li> </ul> | <ul style="list-style-type: none"> <li>• <b>Water treatment</b><br/>water treatment plants filtration<br/>water treatment plants transfer</li> <li>• <b>Pressure boosting</b><br/>transfer from water treatment plants (mains)</li> <li>• <b>Irrigation</b><br/>golf course / sport fields irrigation</li> <li>• <b>Agriculture</b><br/>sprinkler irrigation<br/>drip irrigation</li> </ul> |

PERFORMANCE RANGE  
EVMS(.)1-3-5-10-15-20-32-45-64-90







PERFORMANCE RANGE



### PRODUCT FEATURES

[General]

1. **Pump Type**  
The EVMS is non-self-priming, vertical multistage in line, centrifugal pumps.
2. **Model range**  
The EVMS comes in **1,3,5,10,15,20,32,45,64 and 90 m<sup>3</sup>/h** flow sizes for the majority market needs.
3. **Maximum operating pressure**  
The EVMS can be operated at **16, 25, 30 bar or 35 bar as maximum**.
4. **Operating temperature range**  
The EVMS can be operated **from - 30°C to + 140°C** as the maximum.  
(please contact EBARA in case of -30°C to -15°C, or 120-140°C)
5. **Material options**  
**AISI 304, AISI 316L and Cast iron versions** are available.
6. **Motor**  
The EVMS can be coupled with **the commercial motors** that are acquired in the markets.  
The EVMS is provide as the electric pump with IE3 motor from 0.75 kW to 11 kW.  
**PTC sensor** pre-installed for motors of 1.5 kW and above.  
Unlosable screw and sealing from 0.75 kW to 45 kW are standard for terminal box fixing.
7. **Certifications**

|                        | Drinking water approval  |  |  |   |  | Atmosferes explosibles approval   |
|------------------------|--|--|--|---|--|---|
|                        | ICIM   | ACS  | DVGW *   | WRAS  |  | ATEX 2014/34/UE (bare pumps)  |
| <b>Mechanical seal</b> |  |  |  |  | no BKW/0871/01/2019  |  |
|                        | SiC/Carbon_ EPDM   | SiC/Carbon_ EPDM   | All variations with EPDM on page 6-7   | SiC/Carbon_ EPDM  | All variations with EPDM on page 6-7   | All variations on page 6-7  |
| EVMSG                  | ●  | -  | -  | -   | ●  | ●   |
| EVMS                   | ●**  | ●  | ●  | ●   | ●  | ●   |
| EVMSL                  | ●**  | ●  | ●  | ●   | ●  | ●   |

Note: \* DVGW W270 is certified for elastomers. Reg. Nr. DW-5253CR0217  
KTW is certified for organic components  
\*\* only for models 1, 3, 5, 10, 15, 20

● Available

8. Conform to the provisions of the European directives



[Main Product Features]

1. **Innovative hydraulic solutions**
  - The **Commercial motors** can be fitted to all of the pump models without any modifications thanks to low pump axial thrust load.
  - Low axial thrust load impeller can ensure **long life of the motor bearing**.
2. **Energy saving**
  - **High efficiency IE3 with ETM motor.**
  - The **VFD (Variable frequency drive)** and the **commercial sensor** can be directly mounted on EVMS to **maintain physical constant operations** such as pumping pressure depending on the conditions of use.
3. **Piping connection options**
  - The various pipe connections are available depending on the application requirements **Oval flange / Round flange / Loose flange / Victaulic® connection / Clamp connection.**
  - The external dimensions can be adjusted to the replacement of the existing pump in the wide majority.
4. **Shaft seal solutions**
  - Silicon carbide inclusions with graphite can be used as **dry lubricant to reduce friction.**
  - It's conforming to EN12756 (ex DIN 24960).
5. **Easy maintenance**
  - **The cartridge mechanical seal** enables the **plug in replacement** of the shaft seal without disassembling the motor bracket.
  - **The spacer coupling** allows easy maintenance without having to remove heavy motors over 5.5 kW.
6. **Smart plug solutions**  
Air ventilation plug / Water filling & sensor plug / Commercial sensor fitting / Measurements for suction and discharge pressure / drain.

**PRODUCT SPECIFICATIONS**  
**EVMS(.)1-3-5-10-15-20**

| PUMP                    |                          |  |   |   |    |                    |                      |   |   |   |    |                             |    |   |   |   |    |    |    |   |
|-------------------------|--------------------------|--|---|---|----|--------------------|----------------------|---|---|---|----|-----------------------------|----|---|---|---|----|----|----|---|
| Version                 |                          | EVMSG  |   |   |    |                    | EVMS                 |   |   |   |    | EVMSL                       |    |   |   |   |    |    |    |   |
| Operating range         | Nominal flow rate (m³/h) | 1  | 3   | 5 | 10 | 15                 | 20                   | 1 | 3 | 5 | 10 | 15                          | 20 | 1 | 3 | 5 | 10 | 15 | 20 |   |
|                         | Maximum working pressure | 1.6 / 2.5 MPa (16 / 25 bar)  |   |   |    |                    |                      |   |   |   |    |                             |    |   |   |   |    |    |    |   |
|                         | Liquid temperature range | -30°C to 140°C<br>(please contact EBARA in case of -30°C to -15°C, or 120-140°C) |   |   |    |                    |                      |   |   |   |    |                             |    |   |   |   |    |    |    |   |
| Key Components Material | Impeller                 | EN 1.4301 (AISI 304)   |   |   |    |                    |                      |   |   |   |    | EN 1.4404 (AISI 316L)       |    |   |   |   |    |    |    |   |
|                         | Intermediate casing      | EN 1.4301 (AISI 304)   |   |   |    |                    |                      |   |   |   |    | EN 1.4404 (AISI 316L)       |    |   |   |   |    |    |    |   |
|                         | Liner ring               | EN 1.4301 (AISI 304) + PPS   |   |   |    |                    |                      |   |   |   |    | EN 1.4404 (AISI 316L) + PPS |    |   |   |   |    |    |    |   |
|                         | Bottom casing            | Cast Iron  |   |   |    |                    | EN 1.4301 (AISI 304) |   |   |   |    | EN 1.4404 (AISI 316L)       |    |   |   |   |    |    |    |   |
|                         | Casing cover             | EN 1.4301 (AISI 304)   |   |   |    |                    |                      |   |   |   |    | EN 1.4404 (AISI 316L)       |    |   |   |   |    |    |    |   |
|                         | Shaft                    | EN 1.4301 (AISI 304)   | EVMSG / EVMS 1-3-10 , EVMSG / EVMS 5-15-20 (depend on models) |   |    |                    |                      |   |   |   |    |                             |    |   |   |   |    |    |    |   |
|                         |                          | EN 1.4404 (AISI 316L)  | EVMSL 1-3-10 , EVMSL 5-15-20 (depend on models)               |   |    |                    |                      |   |   |   |    |                             |    |   |   |   |    |    |    |   |
|                         |                          | EN 1.4462 (AISI 329A)  | EVMSG / EVMS / EVMSL 5-15-20 (depend on models)               |   |    |                    |                      |   |   |   |    |                             |    |   |   |   |    |    |    |   |
|                         | Shaft sleeve bearing     | Tungsten carbide   |   |   |    |                    |                      |   |   |   |    |                             |    |   |   |   |    |    |    |   |
|                         | Shaft Seal               | see the shaft seal options   |   |   |    |                    |                      |   |   |   |    |                             |    |   |   |   |    |    |    |   |
|                         | O-ring                   | EPDM   | ●   | ● | ●  | ●                  | ●                    | ● | ● | ● | ●  | ●                           | ●  | ● | ● | ● | ●  | ●  | ●  | ● |
|                         |                          | FPM  | ●   | ● | ●  | ●                  | ●                    | ● | ● | ● | ●  | ●                           | ●  | ● | ● | ● | ●  | ●  | ●  | ● |
|                         | Outer casing             | EN 1.4301 (AISI 304)   |   |   |    |                    |                      |   |   |   |    | EN 1.4404 (AISI 316L)       |    |   |   |   |    |    |    |   |
|                         | Motor Bracket            | Cast Iron  |   |   |    |                    |                      |   |   |   |    |                             |    |   |   |   |    |    |    |   |
| Tie rod                 | EN 1.4057 (AISI 431)     |  |   |   |    |                    |                      |   |   |   |    |                             |    |   |   |   |    |    |    |   |
| Coupling                | up to 4.0 kW             | Die cast aluminium   |   |   |    |                    |                      |   |   |   |    |                             |    |   |   |   |    |    |    |   |
|                         | from 5.5 kW              | Cast Iron  |   |   |    |                    |                      |   |   |   |    |                             |    |   |   |   |    |    |    |   |
| Base                    | Cast Iron                |  |   |   |    | Die cast aluminium |                      |   |   |   |    |                             |    |   |   |   |    |    |    |   |
| Pipe connection         | Oval flange              | up to 16 bar   | ●   | ● | ●  | ●                  | ●                    | ● | ● | ● | ●  | ●                           | ●  | ● | ● | ● | ●  | ●  | ●  |   |
|                         | Round flange (DIN)       | up to 16 bar   | ●   | ● | ●  | ●                  | ●                    | ● | ● | ● | ●  | ●                           | ●  | ● | ● | ● | ●  | ●  | ●  |   |
|                         |                          | from 16 bar to 25 bar  | ●   | ● | ●  | ●                  | ●                    | ● | ● | ● | ●  | ●                           | ●  | ● | ● | ● | ●  | ●  | ●  |   |
|                         | Loose round flange (DIN) | up to 16 bar   |   |   |    |                    |                      |   | ● | ● | ●  | ●                           | ●  | ● | ● | ● | ●  | ●  | ●  |   |
|                         |                          | from 16 bar to 25 bar  |   |   |    |                    |                      |   | ● | ● | ●  | ●                           | ●  | ● | ● | ● | ●  | ●  | ●  |   |
|                         | Victaulic®               | up to 16/25 bar  |   |   |    |                    |                      |   | ● | ● | ●  | ●                           | ●  | ● | ● | ● | ●  | ●  | ●  |   |
| Clamp                   | up to 16/25 bar          |  |   |   |    |                    |                      | ● | ● | ● | ●  | ●                           | ●  | ● | ● | ● | ●  | ●  |    |   |

Legend: ● Available

| MOTOR               |   |   |
|---------------------|---|---|
| Power Source        | Frequency   | 60 Hz   |
|                     | Phase   | Three Phase   |
|                     | Power rating  | 0.37 ÷ 18.5 kW  |
|                     |   | 0.5 ÷ 25 HP   |
| Voltage             | 220/380V +10% / -5% : up to 4.0 kW                  |   |
|                     | 380/660 +10% / -5% : above 5.5 kW                   |   |
|                     | 460V ± 10% : from 0.37 kW up to 18.5 kW             |   |
| Type                | Type  | IC411 - TEFC  |
|                     | Efficiency Level                                    | - : from 0.37 kW up to 0.55 kW                          |
|                     |   | IE3 : for 0.75 kW and from 4.0 kW up to 11 kW           |
|                     |   | IE3* : from 1.1 kW up to 3.0 kW and above 15 kW         |
|                     | No° of poles  | 2   |
|                     | Protection degree                                   | IP55 : up to 11 kW                                      |
| IP56 : above 15 kW  |   |   |
| Insulation Class    | F (temperature rise class B)                        |   |
| Others              | Thermal Protection                                  | PTC sensor pre-installed for motors of 1.5 kW and above |
|                     | Casing Material                                     | Aluminium   |
|                     | Flange mount (IEC motor)                            | IM B14 : up to 4.0 kW                                   |
|                     |   | IM B5 : above 5.5 kW                                    |
| Terminal Box fixing | Unlosable screw and sealing from 0.75 kW to 18.5 kW |   |

\* : only for 460V

### PRODUCT SPECIFICATIONS EVMS(.).32-45-64-90

| PUMP                      |                             |   |   |    |    |                      |    |    |    |                             |    |    |    |   |
|---------------------------|-----------------------------|---|---|----|----|----------------------|----|----|----|-----------------------------|----|----|----|---|
| Version                   |                             | EVMSG   |   |    |    | EVMS                 |    |    |    | EVMSL                       |    |    |    |   |
| Nominal flow rate (m³/h ) |                             | 32  | 45  | 64 | 90 | 32                   | 45 | 64 | 90 | 32                          | 45 | 64 | 90 |   |
| Operating range           | Maximum working pressure    | 1.6 / 2.5/ 3.0 / 3.5 MPa (16 / 25 / 30 / 35 bar)  |   |    |    |                      |    |    |    |                             |    |    |    |   |
|                           | Liquid temperature range    | -30°C to 140°C<br>(please contact EBARA in case of -30°C to -15°C, or 120-140°C)  |   |    |    |                      |    |    |    |                             |    |    |    |   |
|                           | Impeller                    | EN 1.4301 (AISI 304)  |   |    |    |                      |    |    |    | EN 1.4404 (AISI 316L)       |    |    |    |   |
| Key Components Material   | Intermediate casing         | EN 1.4301 (AISI 304)  |   |    |    |                      |    |    |    | EN 1.4404 (AISI 316L)       |    |    |    |   |
|                           | Liner ring                  | EN 1.4301 (AISI 304) + PPS  |   |    |    |                      |    |    |    | EN 1.4404 (AISI 316L) + PPS |    |    |    |   |
|                           | Bottom casing               | Cast Iron EN GJL-250 EN 1561<br>(for EVMSG32 and EVMSG45-90 up to 16 bar)<br>Cast Iron EN GJS 400-15 EN 1563<br>(for EVMSG45-90 above 16 bar) |   |    |    | EN 1.4308 (ASTM CF8) |    |    |    | EN 1.4408 (ASTM CF8M)       |    |    |    |   |
|                           | Casing cover                | EN 1.4301 (AISI 304)  |   |    |    |                      |    |    |    | EN 1.4404 (AISI 316L)       |    |    |    |   |
|                           | Shaft                       | EN 1.4301 (AISI 304)  | EVMSG / EVMS 32-45-64-90 (depend on models) |    |    |                      |    |    |    |                             |    |    |    |   |
|                           |                             | EN 1.4404 (AISI 316L)   | EVMSL 32-45-64 (depend on models)           |    |    |                      |    |    |    |                             |    |    |    |   |
|                           |                             | EN 1.4462 (AISI 329A)   | EVMSL 45-64-90 (depend on models)           |    |    |                      |    |    |    |                             |    |    |    |   |
|                           | Shaft sleeve bearing        | Tungsten carbide  |   |    |    |                      |    |    |    |                             |    |    |    |   |
|                           | Shaft Seal                  | see the shaft seal options  |   |    |    |                      |    |    |    |                             |    |    |    |   |
|                           | O-ring                      | EPDM  | ●   | ●  | ●  | ●                    | ●  | ●  | ●  | ●                           | ●  | ●  | ●  | ● |
|                           |                             | FPM   | ●   | ●  | ●  | ●                    | ●  | ●  | ●  | ●                           | ●  | ●  | ●  | ● |
|                           | Outer casing                | EN 1.4301 (AISI 304)  |   |    |    |                      |    |    |    | EN 1.4404 (AISI 316L)       |    |    |    |   |
|                           | Motor Bracket               | Cast Iron EN GJS 400-15 EN 1563   |   |    |    |                      |    |    |    |                             |    |    |    |   |
|                           | Tie rod                     | EN 1.4057 (AISI 431)  |   |    |    |                      |    |    |    |                             |    |    |    |   |
|                           | Coupling                    | up to 4.0 kW  | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)    |    |    |                      |    |    |    |                             |    |    |    |   |
|                           |                             | from 5.5 kW to 30 kW  | Cast Iron EN GJL250 EN 1561                 |    |    |                      |    |    |    |                             |    |    |    |   |
| above 37 kW               |                             | Carbon Steel  |   |    |    |                      |    |    |    |                             |    |    |    |   |
| Base                      | Cast Iron EN GJL200 EN 1561 |   |   |    |    |                      |    |    |    |                             |    |    |    |   |
| Pipe connection           | Round flange (DIN)          | ●   | ●   | ●  | ●  |                      |    |    |    |                             |    |    |    |   |
|                           | Louse round flange (DIN)    |   |   |    |    | ●                    | ●  | ●  | ●  | ●                           | ●  | ●  | ●  |   |

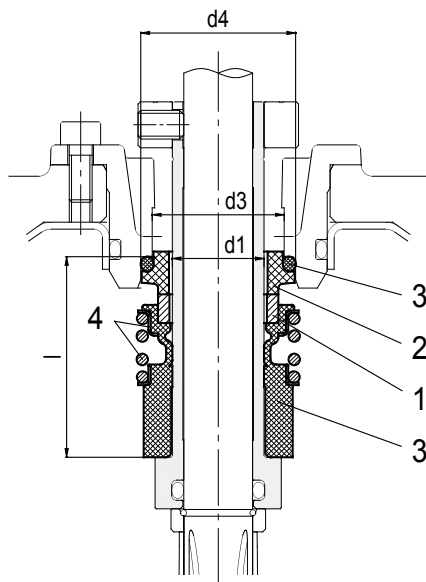
Legend: ● Available

| MOTOR        |                          |   |
|--------------|--------------------------|---|
| Power Source | Frequency                | 60 Hz   |
|              | Phase                    | Three Phase   |
|              | Power rating             | 3.0 ÷ 45 kW<br>4.0 ÷ 60 HP  |
|              | Voltage                  | 220/380V +10% / -5% : up to 4.0 kW<br>380/660 +10% / -5% : above 5.5 kW<br>460V ± 10% : from 3.0 kW up to 45 kW |
| Type         | Type                     | IC411 - TEFC  |
|              | Efficiency Level         | IE3 : from 4.0 kW up to 11 kW<br>IE3* : for 3.0 kW and above 15 kW  |
|              | No° of poles             | 2   |
|              | Protection degree        | IP55 : up to 11 kW<br>IP56 : above 15 kW  |
|              | Insulation Class         | F (temperature rise class B)  |
| Others       | Thermal Protection       | PTC   |
|              | Casing Material          | Aluminium : up to 30 kW<br>Cast Iron : above 37 kW  |
|              | Flange mount (IEC motor) | IM B14 : up to 4.0 kW<br>IM B5 : above 5.5 kW   |
|              | Terminal Box fixing      | Unlosable screw and sealing from 3.0 kW to 45 kW  |

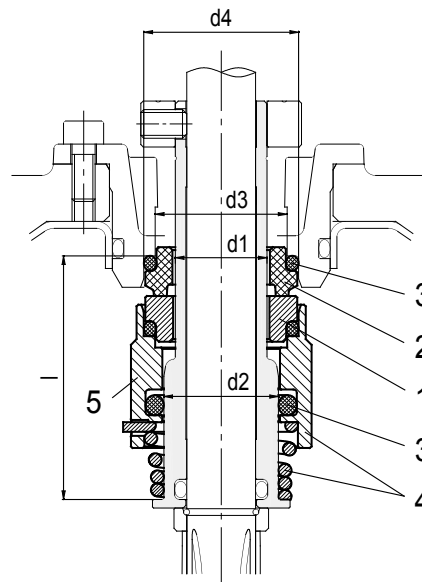
\* only for 460V

SHAFT SEAL  
EVMS(.)1-3-5-10-15-20

1. Shaft Seal



up to 16 bar  
Cartridge Unbalanced type



up to 25 bar  
Cartridge Balanced type

2. Type of Shaft Seal and Dimensions [mm]

| Type key | Availability | Max operating pressure | Max operating temperature | Shaft seal type |      | Shaft seal material |      |                 |      |            |      |                    |        |      |
|----------|--------------|------------------------|---------------------------|-----------------|------|---------------------|------|-----------------|------|------------|------|--------------------|--------|------|
|          |              |                        |                           | Cartridge       |      | 1                   |      | 2               |      | 3          |      | 4                  |        | 5    |
|          |              |                        |                           | Type            | Code | Rotating part       | Code | Stationary part | Code | Elastomers | Code | Compression spring | Collar | Code |
| Q1BEG    | ●            | 16 bar                 | - 30°C to + 120°C         | Unbalanced      | (-)  | SiC                 | (Q1) | Carbon          | (B)  | EPDM       | (E)  | AISI 316           |        | (G)  |
| BQ1VG    | ●            | 16 bar                 | - 30°C to + 80°C          | Unbalanced      | (-)  | Carbon              | (B)  | SiC             | (Q1) | FPM        | (V)  | AISI 316           |        | (G)  |
| HQ1BEG   | ●            | 25 bar                 | - 30°C to + 140°C         | Balanced        | (H)  | SiC                 | (Q1) | Carbon          | (B)  | EPDM       | (E)  | AISI 316           |        | (G)  |
| HQ1BVG   | ●            | 25 bar                 | - 30°C to + 80°C          | Balanced        | (H)  | SiC                 | (Q1) | Carbon          | (B)  | FPM        | (V)  | AISI 316           |        | (G)  |
| HQgQ1EG  | ●            | 25 bar                 | - 30°C to + 140°C         | Balanced        | (H)  | SiC with graphite   | (Qg) | SiC             | (Q1) | EPDM       | (E)  | AISI 316           |        | (G)  |
| HQgQ1VG  | ●            | 25 bar                 | - 30°C to + 80°C          | Balanced        | (H)  | SiC with graphite   | (Qg) | SiC             | (Q1) | FPM        | (V)  | AISI 316           |        | (G)  |

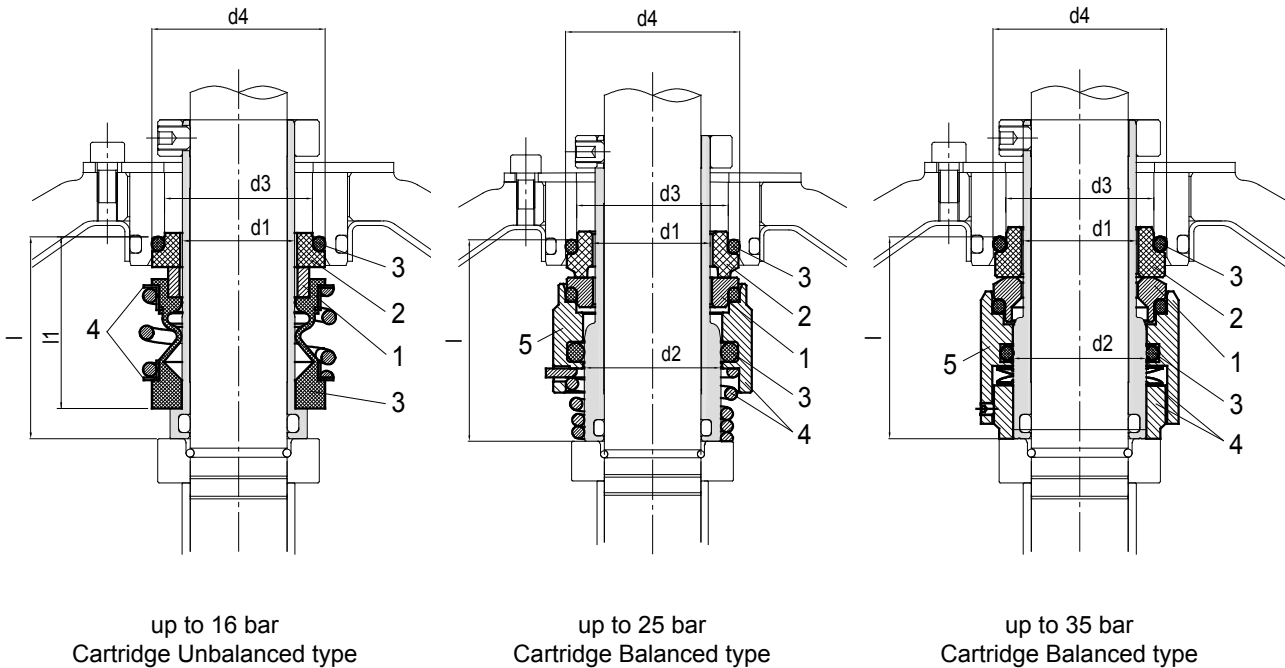
● Available

| Pump model    | Shaft seal type |            | Max operating pressure | d1 [mm] | d2 [mm] | d3 [mm] | d4 [mm] | l [mm] |
|---------------|-----------------|------------|------------------------|---------|---------|---------|---------|--------|
| EVMS 1/3/5    | Cartridge       | Unbalanced | 16 bar                 | 16      | -       | 23      | 27      | 35     |
|               |                 | Balanced   | 25 bar                 |         | 20      |         |         | 42.5   |
| EVMS 10/15/20 | Cartridge       | Unbalanced | 16 bar                 | 20      | -       | 29      | 35      | 37.5   |
|               |                 | Balanced   | 25 bar                 |         | 24      |         |         | 45     |



### SHAFT SEAL EVMS(.).32-45-64-90

#### 1. Shaft Seal



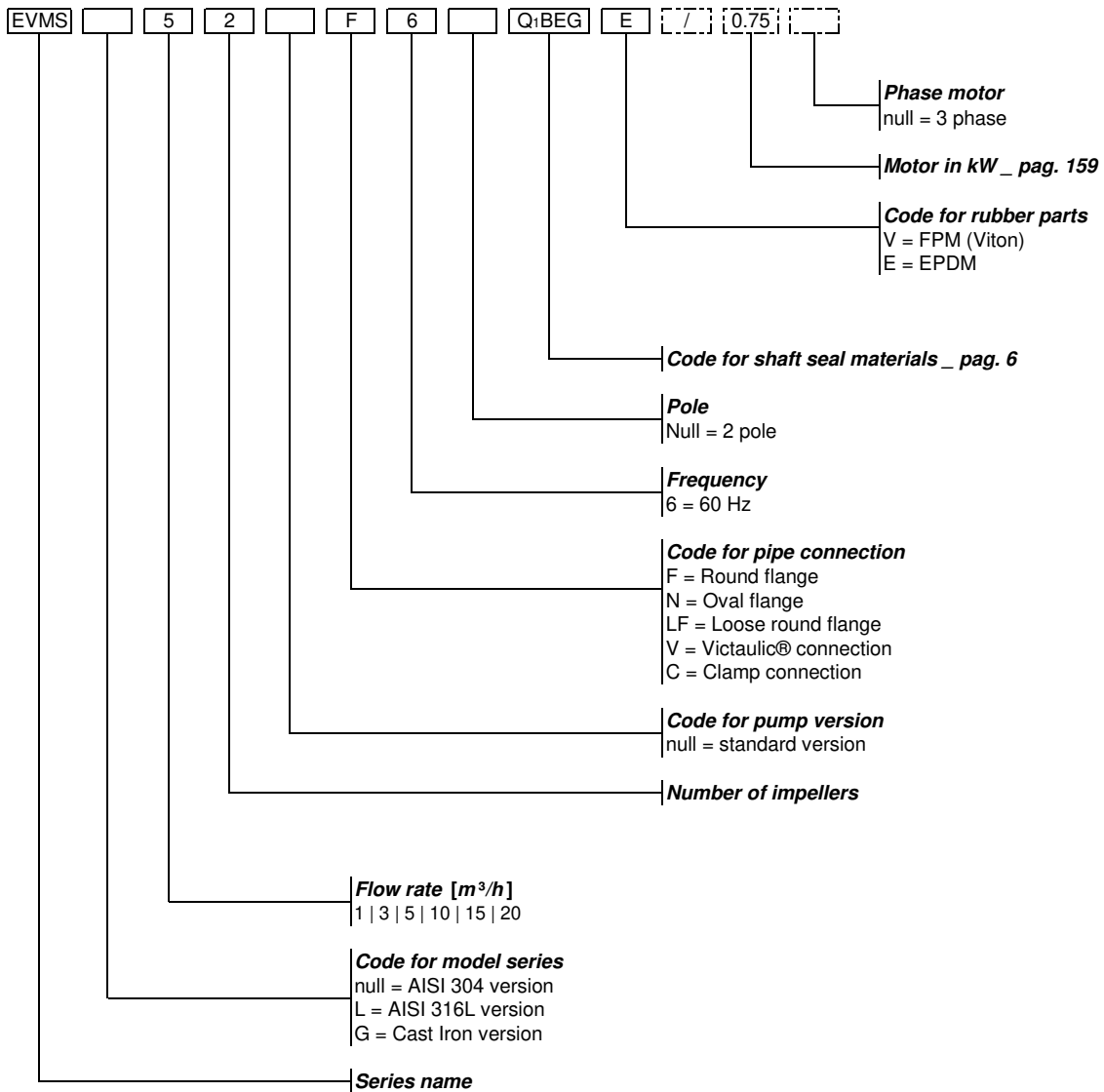
#### 2. Type of Shaft Seal and Dimensions [mm]

| Type key | Availability | Max operating pressure | Max operating temperature | Shaft seal type |      | Shaft seal material |      |                 |      |            |      |                    |        |      |
|----------|--------------|------------------------|---------------------------|-----------------|------|---------------------|------|-----------------|------|------------|------|--------------------|--------|------|
|          |              |                        |                           | Cartridge       |      | 1                   |      | 2               |      | 3          |      | 4                  |        | 5    |
|          |              |                        |                           | Type            | Code | Rotating part       | Code | Stationary part | Code | Elastomers | Code | Compression spring | Collar | Code |
| BQ1EG    | ●            | 16 bar                 | - 30°C to + 120°C         | Unbalanced      | (-)  | Carbon              | (B)  | SiC             | Q1   | EPDM       | (E)  | AISI 316           | (G)    |      |
| BQ1VG    | ●            | 16 bar                 | - 30°C to + 80°C          | Unbalanced      | (-)  | Carbon              | (B)  | SiC             | Q1   | FPM        | (V)  | AISI 316           | (G)    |      |
| HQ1BEG   | ●            | 25/35 bar              | - 30°C to + 140°C         | Balanced        | (H)  | SiC                 | (Q1) | Carbon          | (B)  | EPDM       | (E)  | AISI 316           | (G)    |      |
| HQ1BVG   | ●            | 25/35 bar              | - 30°C to + 80°C          | Balanced        | (H)  | SiC                 | (Q1) | Carbon          | (B)  | FPM        | (V)  | AISI 316           | (G)    |      |
| HQgQ1EG  | ●            | 25/35 bar              | - 30°C to + 140°C         | Balanced        | (H)  | SiC with graphite   | (Qg) | SiC             | (Q1) | EPDM       | (E)  | AISI 316           | (G)    |      |
| HQgQ1VG  | ●            | 25/35 bar              | - 30°C to + 80°C          | Balanced        | (H)  | SiC with graphite   | (Qg) | SiC             | (Q1) | FPM        | (V)  | AISI 316           | (G)    |      |

● Available

| Pump model       | Shaft seal type |            | Max operating pressure | d1 [mm] | d2 [mm] | d3 [mm] | d4 [mm] | l [mm] | l1 [mm] |
|------------------|-----------------|------------|------------------------|---------|---------|---------|---------|--------|---------|
| EVMS 32/45/64/90 | Cartridge       | Unbalanced | 16 bar                 | 28      | -       | 37      | 43      | 50     | 42.5    |
|                  |                 | Balanced   | 25 bar                 |         | 33      |         |         |        | -       |
|                  |                 | Balanced   | 35 bar                 |         | -       |         |         |        | -       |



TYPE KEY  
EVMS(.)1-3-5-10-15-20



Example for **pump without motor**:  
EVMS5 2F6Q1BEGE

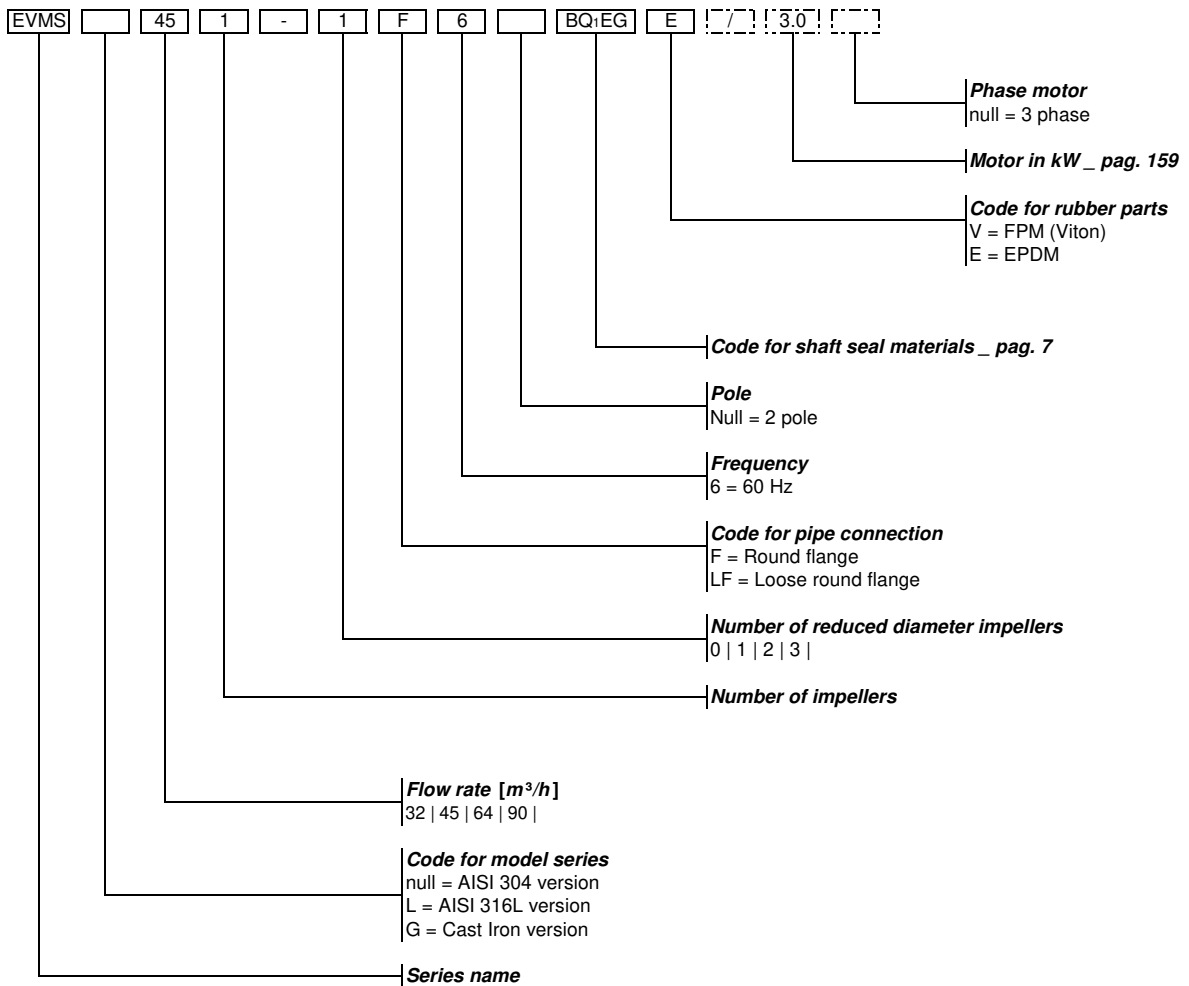
Example for **pump with motor**:  
EVMS5 2F6Q1BEGE/0.75

NAMEPLATE

|   |       |  |   |
|---|-------|--|---|
|  EBARA Pompe Europe S.p.A.<br>Via Campo Sportivo, 30<br>36020 Cles (TN) Italy<br>Phone +39 0444 708111<br>V.A.T. 01258680201 |       | <br>MADE IN ITALY |   |
| TYPE  |       |  |   |
| ⊕ P/N   |       | ⊕  |   |
| Hmax  | m     | Hmin   | m |
| Q   | l/min | H  | m |
| P2  | kW    | HP   |   |
| Hz  |       | min <sup>-1</sup>  |   |
| MEI >   |       | Hyd. eff.  | % |

- "TYPE" Pump model
- "P/N" Pump item number
- "Hmax" Maximum head
- "Hmin" Minimum head
- "Q" Indicates upper and lower flow rate limits
- "H" Indicates head limits corresponding to minimum and maximum flow rate
- "P2" Rated power of the motor (output at shaft)
- "HP" Rated power of the motor expressed in HP (Horse Power)
- "Hz" Frequency
- "min-1" Speed of rotation
- "MEI" Index of the pump's quality in relation to its efficiency
- "Hyd. Eff." Hydraulic efficiency of the pump

### TYPE KEY EVMS(.).32-45-64-90



Example for **pump without motor**:  
EVMS45 1-1F6BQ1EGE

Example for **pump with motor**:  
EVMS45 1-1F6BQ1EGE/3.0

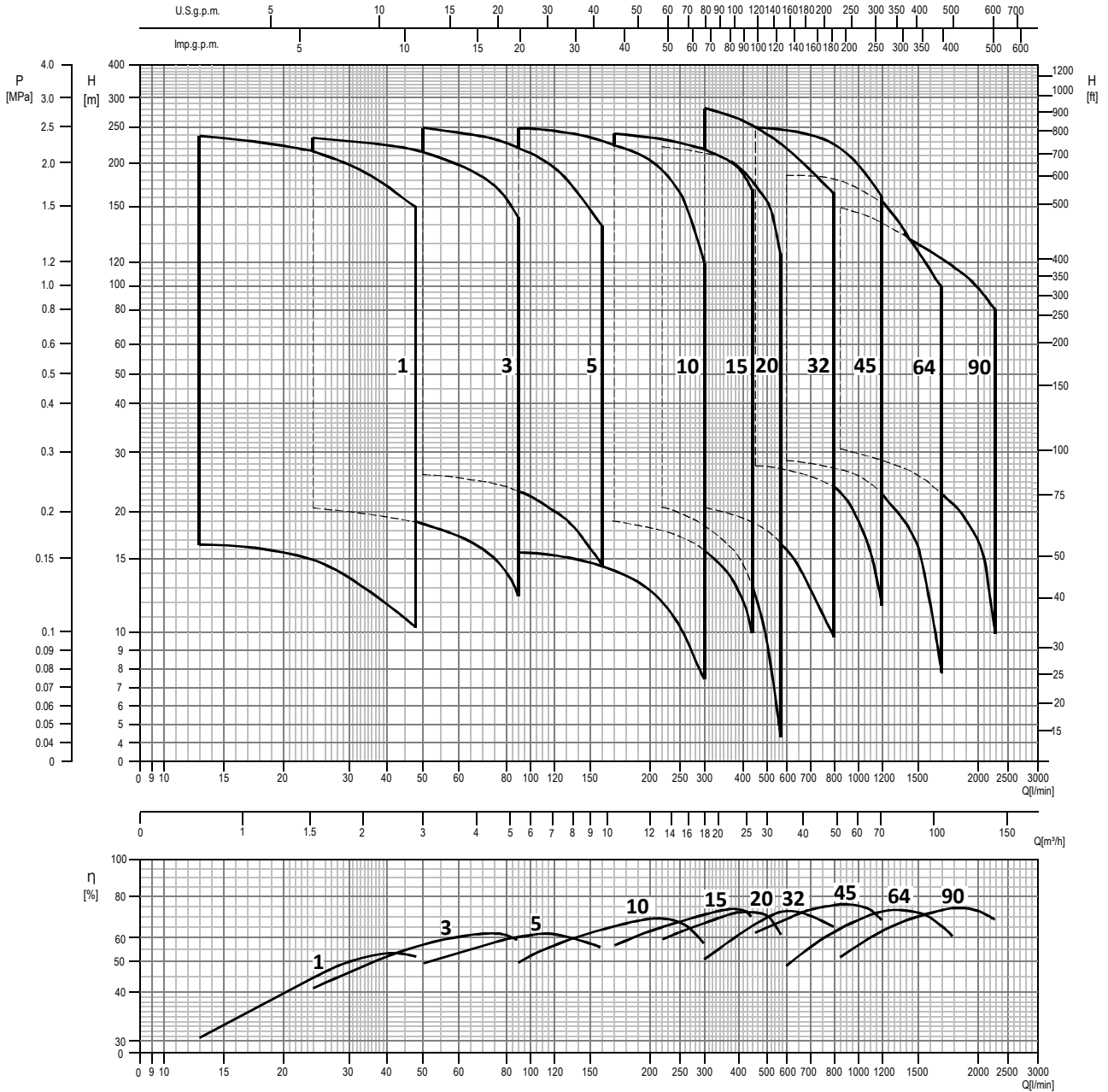
### NAMEPLATE

|  |                   |      |    |  |  |
|--|-------------------|------|----|--|--|
|  <b>EBARA</b> Pompe Europe S.p.A.<br>Via Campo Sportivo, 30<br>38020 Cles (TN) ITALY<br>Phone +39-0444 700811<br>V.A.T.: 0258660201 |                   |      |    | <br>MADE IN ITALY |  |
| TYPE   |                   |      |    |  |  |
| ⊕ P/N ⊕  |                   |      |    |  |  |
| Hmax   | m                 | Hmin | m  |  |  |
| Q  | l/min             | H    | m  |  |  |
| P2   | kW                |      | HP |  |  |
| Hz   | min <sup>-1</sup> |      |    |  |  |
| MEI >  | Hyd. eff.         |      | %  |  |  |

- "TYPE" Pump model
- "P/N" Pump item number
- "Hmax" Maximum head
- "Hmin" Minimum head
- "Q" Indicates upper and lower flow rate limits
- "H" Indicates head limits corresponding to minimum and maximum flow rate
- "P2" Rated power of the motor (output at shaft)
- "HP" Rated power of the motor expressed in HP (Horse Power)
- "Hz" Frequency
- "min<sup>-1</sup>" Speed of rotation
- "MEI" Index of the pump's quality in relation to its efficiency
- "Hyd. Eff." Hydraulic efficiency of the pump

PERFORMANCE RANGE  
EVMS(.)1-3-5-10-15-20-32-45-64-90

PERFORMANCE RANGE



### CURVE SPECIFICATIONS

2.6

CURVE SPECIFICATIONS

The specifications below qualify the curves shown on the following pages.

Tolerances according to ISO 9906:2012 - Grade 3B.

Performance curves are defined with the following rotation speed (nominal rotation speed of the motor):

- up to 18.5 kW: 3500 rpm

- from 22 kW up to 45 kW: 3550 rpm

Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of  $\nu = 1 \text{ mm}^2/\text{s}$  (1 cSt).

The NPSH curve is an average curve obtained in the same conditions of performance curves.

During the pump selection, consider to get a safety margin of at least 0.5 m.

The continuous curves indicate the recommended working range. The dotted curve is only a guide.

In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.

Symbols explanation:

- Q - volume flow rate
- H - total head
- $P_2$  - pump power input (shaft power)
- $\eta$  - pump efficiency
- NPSH - net positive suction head required by the pump
- MEI - minimum efficiency index
- $\varnothing D_2$  -  $P_2$  with full diameter
- $\varnothing D_2^*$  -  $P_2$  with reduced diameter

SELECTION CHART  
EVMS(.)1-3-5

SELECTION CHART

| Pump Type | Motor            |      |      | Maximum working pressure (MPa) | Q=Capacity        |                                   |      |      |      |      |      |      |      |      |     |  |
|-----------|------------------|------|------|--------------------------------|-------------------|-----------------------------------|------|------|------|------|------|------|------|------|-----|--|
|           | Three phase      | kW   | HP   |                                | Size              | H=Total manometric head in metres |      |      |      |      |      |      |      |      |     |  |
|           |                  |      |      |                                |                   | l/min                             | 0    | 13   | 25   | 48   | 50   | 75   | 90   | 120  | 160 |  |
|           |                  |      |      |                                | m <sup>3</sup> /h | 0                                 | 0.8  | 1.5  | 2.9  | 3.0  | 4.5  | 5.4  | 7.2  | 9.6  |     |  |
| 1         | EVMS(.)1 2/0.37  | 0.37 | 0.5  | 71                             | 1.6               | 17.2                              | 16.4 | 15   | 10.3 | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 3/0.37  | 0.37 | 0.5  | 71                             | 1.6               | 25.8                              | 24.6 | 22.5 | 15.5 | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 4/0.37  | 0.37 | 0.5  | 71                             | 1.6               | 34.5                              | 32.7 | 30.0 | 20.6 | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 5/0.37  | 0.37 | 0.5  | 71                             | 1.6               | 43.1                              | 40.9 | 37.5 | 25.4 | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 6/0.55  | 0.55 | 0.75 | 71                             | 1.6               | 51.5                              | 49.1 | 45   | 31   | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 7/0.55  | 0.55 | 0.75 | 71                             | 1.6               | 60.5                              | 57.5 | 52.5 | 36.1 | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 8/0.75  | 0.75 | 1    | 80                             | 1.6               | 69                                | 65.5 | 60   | 41.5 | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 9/0.75  | 0.75 | 1    | 80                             | 1.6               | 77.5                              | 73.5 | 67.5 | 46.5 | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 10/0.75 | 0.75 | 1    | 80                             | 1.6               | 86                                | 82   | 75   | 51.5 | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 11/1.1  | 1.1  | 1.5  | 80                             | 1.6               | 94.5                              | 90   | 82.5 | 57   | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 12/1.1  | 1.1  | 1.5  | 80                             | 1.6               | 103                               | 98   | 90   | 62   | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 13/1.1  | 1.1  | 1.5  | 80                             | 1.6               | 112                               | 106  | 97.5 | 67   | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 14/1.1  | 1.1  | 1.5  | 80                             | 1.6               | 121                               | 115  | 105  | 72.5 | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 16/1.5  | 1.5  | 2    | 90                             | 1.6               | 138                               | 131  | 120  | 82.5 | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 18/1.5  | 1.5  | 2    | 90                             | 1.6               | 155                               | 147  | 135  | 93   | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 20/1.5  | 1.5  | 2    | 90                             | 2.5               | 172                               | 164  | 150  | 103  | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 22/2.2  | 2.2  | 3    | 90                             | 2.5               | 190                               | 180  | 165  | 114  | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 24/2.2  | 2.2  | 3    | 90                             | 2.5               | 207                               | 196  | 180  | 124  | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 26/2.2  | 2.2  | 3    | 90                             | 2.5               | 224                               | 213  | 195  | 134  | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 27/2.2  | 2.2  | 3    | 90                             | 2.5               | 233                               | 221  | 202  | 139  | -    | -    | -    | -    | -    |     |  |
|           | EVMS(.)1 29/2.2  | 2.2  | 3    | 90                             | 2.5               | 250                               | 237  | 217  | 150  | -    | -    | -    | -    | -    |     |  |
| 3         | EVMS(.)3 2/0.37  | 0.37 | 0.5  | 71                             | 1.6               | 21.4                              | -    | 20.5 | 18.9 | 18.7 | 15.5 | 12.4 | -    | -    |     |  |
|           | EVMS(.)3 3/0.55  | 0.55 | 0.75 | 71                             | 1.6               | 32.1                              | -    | 30.7 | 28.3 | 28   | 23.3 | 18.6 | -    | -    |     |  |
|           | EVMS(.)3 4/0.75  | 0.75 | 1    | 80                             | 1.6               | 43                                | -    | 41   | 37.7 | 37.4 | 31   | 24.8 | -    | -    |     |  |
|           | EVMS(.)3 5/0.75  | 0.75 | 1    | 80                             | 1.6               | 53.5                              | -    | 51   | 47   | 46.5 | 38.8 | 31   | -    | -    |     |  |
|           | EVMS(.)3 6/1.1   | 1.1  | 1.5  | 80                             | 1.6               | 64.5                              | -    | 61.5 | 56.5 | 56   | 46.5 | 37.2 | -    | -    |     |  |
|           | EVMS(.)3 7/1.1   | 1.1  | 1.5  | 80                             | 1.6               | 75                                | -    | 71.5 | 66   | 65.5 | 54.5 | 43.5 | -    | -    |     |  |
|           | EVMS(.)3 8/1.5   | 1.5  | 2    | 90                             | 1.6               | 85.5                              | -    | 82   | 75.5 | 74.5 | 62   | 49.5 | -    | -    |     |  |
|           | EVMS(.)3 9/1.5   | 1.5  | 2    | 90                             | 1.6               | 96.5                              | -    | 92   | 85   | 84   | 69   | 56   | -    | -    |     |  |
|           | EVMS(.)3 10/1.5  | 1.5  | 2    | 90                             | 1.6               | 107                               | -    | 102  | 94.5 | 93.5 | 77.5 | 62   | -    | -    |     |  |
|           | EVMS(.)3 11/2.2  | 2.2  | 3    | 90                             | 1.6               | 118                               | -    | 113  | 104  | 103  | 85.5 | 68   | -    | -    |     |  |
|           | EVMS(.)3 12/2.2  | 2.2  | 3    | 90                             | 1.6               | 129                               | -    | 123  | 113  | 112  | 93.0 | 74.5 | -    | -    |     |  |
|           | EVMS(.)3 13/2.2  | 2.2  | 3    | 90                             | 1.6               | 139                               | -    | 133  | 123  | 122  | 101  | 80.5 | -    | -    |     |  |
|           | EVMS(.)3 14/2.2  | 2.2  | 3    | 90                             | 1.6               | 150                               | -    | 143  | 132  | 131  | 109  | 86.5 | -    | -    |     |  |
|           | EVMS(.)3 15/3.0  | 3.0  | 4    | 100                            | 1.6               | 161                               | -    | 154  | 142  | 140  | 116  | 93   | -    | -    |     |  |
|           | EVMS(.)3 16/3.0  | 3.0  | 4    | 100                            | 2.5               | 172                               | -    | 164  | 151  | 150  | 124  | 99   | -    | -    |     |  |
|           | EVMS(.)3 17/3.0  | 3.0  | 4    | 100                            | 2.5               | 182                               | -    | 174  | 160  | 159  | 132  | 105  | -    | -    |     |  |
|           | EVMS(.)3 19/3.0  | 3.0  | 4    | 100                            | 2.5               | 204                               | -    | 195  | 179  | 178  | 147  | 118  | -    | -    |     |  |
|           | EVMS(.)3 20/3.0  | 3.0  | 4    | 100                            | 2.5               | 214                               | -    | 205  | 189  | 187  | 155  | 124  | -    | -    |     |  |
|           | EVMS(.)3 21/4.0  | 4.0  | 5.5  | 112                            | 2.5               | 225                               | -    | 215  | 198  | 196  | 163  | 130  | -    | -    |     |  |
|           | EVMS(.)3 22/4.0  | 4.0  | 5.5  | 112                            | 2.5               | 236                               | -    | 225  | 208  | 206  | 171  | 136  | -    | -    |     |  |
|           | EVMS(.)3 23/4.0  | 4.0  | 5.5  | 112                            | 2.5               | 247                               | -    | 235  | 217  | 215  | 178  | 143  | -    | -    |     |  |
| 5         | EVMS(.)5 2/0.75  | 0.75 | 1    | 80                             | 1.6               | 27.6                              | -    | -    | -    | 26.1 | 24.6 | 23.4 | 20.4 | 14.6 |     |  |
|           | EVMS(.)5 3/1.1   | 1.1  | 1.5  | 80                             | 1.6               | 41.4                              | -    | -    | -    | 39.2 | 36.9 | 35.1 | 30.6 | 21.9 |     |  |
|           | EVMS(.)5 4/1.5   | 1.5  | 2    | 90                             | 1.6               | 55                                | -    | -    | -    | 52.5 | 49   | 47   | 40.5 | 29.3 |     |  |
|           | EVMS(.)5 5/2.2   | 2.2  | 3    | 90                             | 1.6               | 69                                | -    | -    | -    | 65.5 | 61.5 | 58   | 51   | 36.6 |     |  |
|           | EVMS(.)5 6/2.2   | 2.2  | 3    | 90                             | 1.6               | 83                                | -    | -    | -    | 78.5 | 74   | 70   | 61   | 44   |     |  |
|           | EVMS(.)5 7/3.0   | 3.0  | 4    | 100                            | 1.6               | 96.5                              | -    | -    | -    | 91.5 | 86   | 82   | 71.5 | 51   |     |  |
|           | EVMS(.)5 8/3.0   | 3.0  | 4    | 100                            | 1.6               | 110                               | -    | -    | -    | 105  | 98.5 | 93.5 | 81.5 | 58.5 |     |  |
|           | EVMS(.)5 9/3.0   | 3.0  | 4    | 100                            | 1.6               | 124                               | -    | -    | -    | 118  | 111  | 105  | 91.5 | 66   |     |  |
|           | EVMS(.)5 10/4.0  | 4.0  | 5.5  | 112                            | 1.6               | 138                               | -    | -    | -    | 131  | 123  | 117  | 102  | 73   |     |  |
|           | EVMS(.)5 11/4.0  | 4.0  | 5.5  | 112                            | 1.6               | 152                               | -    | -    | -    | 144  | 135  | 129  | 112  | 80.5 |     |  |
|           | EVMS(.)5 12/4.0  | 4.0  | 5.5  | 112                            | 1.6               | 166                               | -    | -    | -    | 157  | 148  | 140  | 122  | 88   |     |  |
|           | EVMS(.)5 13/5.5  | 5.5  | 7.5  | 132                            | 2.5               | 179                               | -    | -    | -    | 170  | 160  | 152  | 132  | 95   |     |  |
|           | EVMS(.)5 14/5.5  | 5.5  | 7.5  | 132                            | 2.5               | 193                               | -    | -    | -    | 183  | 172  | 164  | 143  | 102  |     |  |
|           | EVMS(.)5 15/5.5  | 5.5  | 7.5  | 132                            | 2.5               | 207                               | -    | -    | -    | 196  | 185  | 175  | 153  | 110  |     |  |
|           | EVMS(.)5 16/5.5  | 5.5  | 7.5  | 132                            | 2.5               | 221                               | -    | -    | -    | 209  | 197  | 187  | 163  | 117  |     |  |
|           | EVMS(.)5 17/7.5  | 7.5  | 10   | 132                            | 2.5               | 235                               | -    | -    | -    | 222  | 209  | 199  | 173  | 124  |     |  |
|           | EVMS(.)5 19/7.5  | 7.5  | 10   | 132                            | 2.5               | 262                               | -    | -    | -    | 248  | 234  | 222  | 194  | 139  |     |  |

1.6 MPa=16 bar; 2.5 MPa=25 bar

### SELECTION CHART EVMS(.)10-15-20

| Pump Type                         | Motor            |      |     | Maximum working pressure (MPa) | Q=Capacity |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------------------|------------------|------|-----|--------------------------------|------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                   |                  |      |     |                                | l/min      |                   | 90   | 120  | 160  | 170  | 200  | 220  | 250  | 300  | 350  | 400  | 440  | 500  | 570  |      |
|                                   | Three phase      | kW   | HP  |                                | Size       | m <sup>3</sup> /h | 0    | 5.4  | 7.2  | 9.6  | 10.2 | 12.0 | 13.2 | 15.0 | 18.0 | 21.0 | 24.0 | 26.4 | 30.0 | 34.2 |
| H=Total manometric head in metres |                  |      |     |                                |            |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 10                                | EVMS(.)10 1/0.75 | 0.75 | 1   | 80                             | 1.6        | 16                | 15.6 | 15.3 | 14.4 | 14.1 | 13   | 12.1 | 10.6 | 7.4  | -    | -    | -    | -    | -    |      |
|                                   | EVMS(.)10 2/1.5  | 1.5  | 2   | 90                             | 1.6        | 32                | 31.1 | 30.7 | 28.9 | 28.2 | 26.1 | 24.3 | 21.1 | 14.8 | -    | -    | -    | -    | -    |      |
|                                   | EVMS(.)10 3/2.2  | 2.2  | 3   | 90                             | 1.6        | 48                | 46.5 | 46   | 43.3 | 42.4 | 39.1 | 36.4 | 31.7 | 22.2 | -    | -    | -    | -    | -    |      |
|                                   | EVMS(.)10 4/3.0  | 3.0  | 4   | 100                            | 1.6        | 64                | 62   | 61.5 | 58   | 56.5 | 52   | 48.5 | 42   | 29.6 | -    | -    | -    | -    | -    |      |
|                                   | EVMS(.)10 5/4.0  | 4.0  | 5.5 | 112                            | 1.6        | 80                | 77.5 | 76.5 | 72   | 70.5 | 65   | 60.5 | 52.5 | 37   | -    | -    | -    | -    | -    |      |
|                                   | EVMS(.)10 6/4.0  | 4.0  | 5.5 | 112                            | 1.6        | 96                | 93.5 | 92   | 86.5 | 84.5 | 78   | 73   | 63.5 | 44.5 | -    | -    | -    | -    | -    |      |
|                                   | EVMS(.)10 7/5.5  | 5.5  | 7.5 | 132                            | 1.6        | 112               | 109  | 107  | 101  | 99   | 91   | 85   | 74   | 52   | -    | -    | -    | -    | -    |      |
|                                   | EVMS(.)10 8/5.5  | 5.5  | 7.5 | 132                            | 1.6        | 128               | 125  | 123  | 115  | 113  | 104  | 97.1 | 84.5 | 59   | -    | -    | -    | -    | -    |      |
|                                   | EVMS(.)10 9/5.5  | 5.5  | 7.5 | 132                            | 1.6        | 144               | 140  | 138  | 130  | 127  | 117  | 109  | 95   | 66.5 | -    | -    | -    | -    | -    |      |
|                                   | EVMS(.)10 10/7.5 | 7.5  | 10  | 132                            | 1.6        | 160               | 156  | 153  | 144  | 141  | 130  | 121  | 106  | 74   | -    | -    | -    | -    | -    |      |
|                                   | EVMS(.)10 11/7.5 | 7.5  | 10  | 132                            | 2.5        | 176               | 171  | 169  | 159  | 155  | 143  | 134  | 116  | 81.5 | -    | -    | -    | -    | -    |      |
|                                   | EVMS(.)10 12/7.5 | 7.5  | 10  | 132                            | 2.5        | 192               | 187  | 184  | 173  | 170  | 156  | 146  | 127  | 89   | -    | -    | -    | -    | -    |      |
|                                   | EVMS(.)10 14/11  | 11   | 15  | 160                            | 2.5        | 224               | 218  | 215  | 202  | 198  | 182  | 170  | 148  | 104  | -    | -    | -    | -    | -    |      |
| EVMS(.)10 15/11                   | 11               | 15   | 160 | 2.5                            | 240        | 233               | 230  | 216  | 219  | 195  | 182  | 158  | 111  | -    | -    | -    | -    | -    |      |      |
| EVMS(.)10 16/11                   | 11               | 15   | 160 | 2.5                            | 256        | 249               | 245  | 231  | 226  | 208  | 194  | 169  | 118  | -    | -    | -    | -    | -    |      |      |
| 15                                | EVMS(.)15 1/1.5  | 1.5  | 2   | 90                             | 1.6        | 21.7              | -    | -    | -    | 19.1 | 18.4 | 18.0 | 17.4 | 15.8 | 14.2 | 12.1 | 9.9  | -    | -    |      |
|                                   | EVMS(.)15 2/3.0  | 3.0  | 4   | 100                            | 1.6        | 43.6              | -    | -    | -    | 40   | 39.1 | 38.6 | 37.9 | 36.5 | 34.7 | 31.7 | 28.2 | -    | -    |      |
|                                   | EVMS(.)15 3/5.5  | 5.5  | 7.5 | 132                            | 1.6        | 65.4              | -    | -    | -    | 60   | 58.5 | 58   | 57   | 54.5 | 52   | 47.5 | 42.5 | -    | -    |      |
|                                   | EVMS(.)15 4/7.5  | 7.5  | 10  | 132                            | 1.6        | 87                | -    | -    | -    | 80.5 | 78.5 | 78   | 76   | 73   | 69   | 63.5 | 56.5 | -    | -    |      |
|                                   | EVMS(.)15 5/7.5  | 7.5  | 10  | 132                            | 1.6        | 109               | -    | -    | -    | 100  | 98   | 96.5 | 95   | 91   | 86.5 | 79.5 | 70.5 | -    | -    |      |
|                                   | EVMS(.)15 6/11   | 11   | 15  | 160                            | 1.6        | 131               | -    | -    | -    | 120  | 117  | 116  | 114  | 109  | 104  | 95.5 | 84.5 | -    | -    |      |
|                                   | EVMS(.)15 7/11   | 11   | 15  | 160                            | 1.6        | 153               | -    | -    | -    | 141  | 137  | 135  | 133  | 128  | 121  | 111  | 99   | -    | -    |      |
|                                   | EVMS(.)15 8/15   | 15   | 20  | 160                            | 2.5        | 174               | -    | -    | -    | 161  | 157  | 154  | 152  | 146  | 138  | 127  | 113  | -    | -    |      |
|                                   | EVMS(.)15 9/15   | 15   | 20  | 160                            | 2.5        | 196               | -    | -    | -    | 181  | 176  | 174  | 171  | 164  | 156  | 143  | 127  | -    | -    |      |
|                                   | EVMS(.)15 10/15  | 15   | 20  | 160                            | 2.5        | 218               | -    | -    | -    | 201  | 196  | 193  | 190  | 182  | 173  | 159  | 141  | -    | -    |      |
| EVMS(.)15 11/18.5                 | 18.5             | 25   | 160 | 2.5                            | 240        | -                 | -    | -    | 221  | 215  | 212  | 208  | 201  | 190  | 175  | 155  | -    | -    |      |      |
| EVMS(.)15 12/18.5                 | 18.5             | 25   | 160 | 2.5                            | 262        | -                 | -    | -    | 241  | 235  | 232  | 227  | 219  | 208  | 190  | 169  | -    | -    |      |      |
| 20                                | EVMS(.)20 1/2.2  | 2.2  | 3   | 90                             | 1.6        | 25                | -    | -    | -    | -    | -    | 20.7 | 20.0 | 18.7 | 16.9 | 14.9 | 13.1 | 9.5  | 4.3  |      |
|                                   | EVMS(.)20 2/4.0  | 4.0  | 5.5 | 112                            | 1.6        | 49.5              | -    | -    | -    | -    | -    | 44.5 | 44   | 42.5 | 41   | 39.4 | 37.5 | 32.8 | 24.9 |      |
|                                   | EVMS(.)20 3/7.5  | 7.5  | 10  | 132                            | 1.6        | 74                | -    | -    | -    | -    | -    | 67   | 65.5 | 64   | 61.5 | 59   | 56   | 49   | 37.3 |      |
|                                   | EVMS(.)20 4/7.5  | 7.5  | 10  | 132                            | 1.6        | 99                | -    | -    | -    | -    | -    | 89.5 | 87.5 | 85   | 82   | 79   | 75   | 65.5 | 49.8 |      |
|                                   | EVMS(.)20 5/11   | 11   | 15  | 160                            | 1.6        | 124               | -    | -    | -    | -    | -    | 112  | 110  | 106  | 103  | 98.5 | 93.5 | 82   | 62   |      |
|                                   | EVMS(.)20 6/11   | 11   | 15  | 160                            | 1.6        | 148               | -    | -    | -    | -    | -    | 134  | 131  | 128  | 123  | 118  | 112  | 98.5 | 75   |      |
|                                   | EVMS(.)20 7/15   | 15   | 20  | 160                            | 2.5        | 173               | -    | -    | -    | -    | -    | 156  | 153  | 149  | 144  | 138  | 131  | 115  | 87   |      |
|                                   | EVMS(.)20 8/15   | 15   | 20  | 160                            | 2.5        | 198               | -    | -    | -    | -    | -    | 179  | 175  | 170  | 164  | 158  | 150  | 131  | 99.5 |      |
|                                   | EVMS(.)20 9/18.5 | 18.5 | 25  | 160                            | 2.5        | 223               | -    | -    | -    | -    | -    | 201  | 197  | 191  | 185  | 177  | 169  | 148  | 112  |      |
| EVMS(.)20 10/18.5                 | 18.5             | 25   | 160 | 2.5                            | 247        | -                 | -    | -    | -    | -    | 223  | 219  | 213  | 206  | 197  | 187  | 164  | 124  |      |      |

1.6 MPa=16 bar; 2.5 MPa=25 bar

SELECTION CHART  
EVMS(.)32-45

SELECTION CHART

| Pump Type<br>Three phase | Motor              |      |      | Maximum working pressure (MPa) | Q=Capacity                        |      |      |      |      |      |      |      |      |      |  |  |
|--------------------------|--------------------|------|------|--------------------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|--|--|
|                          | kW                 | HP   | Size |                                | H=Total manometric head in meters |      |      |      |      |      |      |      |      |      |  |  |
|                          |                    |      |      |                                | l/min                             | 0    | 300  | 450  | 600  | 700  | 800  | 950  | 1100 | 1200 |  |  |
|                          |                    |      |      | m³/h                           | 0                                 | 18   | 27   | 36   | 42   | 48   | 57   | 66   | 72   |      |  |  |
| 32                       | EVMS(.)32 1-1/3.0  | 3.0  | 4    | 100                            | 1.6                               | 25   | 20.7 | 18.9 | 16   | 13   | 9.7  | -    | -    | -    |  |  |
|                          | EVMS(.)32 1-0/3.0  | 3.0  | 4    | 100                            | 1.6                               | 29.5 | 26.6 | 23.4 | 19.7 | 17   | 13.6 | -    | -    | -    |  |  |
|                          | EVMS(.)32 2-2/5.5  | 5.5  | 7.5  | 132                            | 1.6                               | 50.5 | 43.5 | 39.9 | 34.3 | 29   | 22.5 | -    | -    | -    |  |  |
|                          | EVMS(.)32 2-1/5.5  | 5.5  | 7.5  | 132                            | 1.6                               | 58   | 50.5 | 44.5 | 37.5 | 32.1 | 25.6 | -    | -    | -    |  |  |
|                          | EVMS(.)32 2-0/7.5  | 7.5  | 10   | 132                            | 1.6                               | 63   | 56.5 | 49.5 | 42   | 36.3 | 29.6 | -    | -    | -    |  |  |
|                          | EVMS(.)32 3-2/11   | 11   | 15   | 160                            | 1.6                               | 83   | 73   | 65   | 56   | 48   | 38.5 | -    | -    | -    |  |  |
|                          | EVMS(.)32 3-0/11   | 11   | 15   | 160                            | 1.6                               | 92   | 84   | 74.5 | 63   | 55.5 | 45.5 | -    | -    | -    |  |  |
|                          | EVMS(.)32 4-2/11   | 11   | 15   | 160                            | 1.6                               | 115  | 101  | 90   | 77.5 | 67   | 55   | -    | -    | -    |  |  |
|                          | EVMS(.)32 4-0/15   | 15   | 20   | 160                            | 1.6                               | 122  | 112  | 100  | 85.5 | 74.5 | 61.5 | -    | -    | -    |  |  |
|                          | EVMS(.)32 5-2/15   | 15   | 20   | 160                            | 1.6                               | 146  | 129  | 114  | 98   | 85   | 69   | -    | -    | -    |  |  |
|                          | EVMS(.)32 5-0/15   | 15   | 20   | 160                            | 1.6                               | 153  | 139  | 124  | 107  | 94.5 | 79   | -    | -    | -    |  |  |
|                          | EVMS(.)32 6-2/18.5 | 18.5 | 25   | 160                            | 2.5                               | 174  | 156  | 140  | 122  | 105  | 88   | -    | -    | -    |  |  |
|                          | EVMS(.)32 6-0/18.5 | 18.5 | 25   | 160                            | 2.5                               | 185  | 169  | 148  | 127  | 111  | 93   | -    | -    | -    |  |  |
|                          | EVMS(.)32 7-2/22   | 22   | 30   | 180                            | 2.5                               | 212  | 191  | 170  | 146  | 128  | 106  | -    | -    | -    |  |  |
|                          | EVMS(.)32 7-0/22   | 22   | 30   | 180                            | 2.5                               | 222  | 204  | 179  | 154  | 136  | 114  | -    | -    | -    |  |  |
|                          | EVMS(.)32 8-2/22   | 22   | 30   | 180                            | 2.5                               | 240  | 220  | 197  | 171  | 151  | 127  | -    | -    | -    |  |  |
|                          | EVMS(.)32 8-0/30   | 30   | 40   | 200                            | 3.0                               | 249  | 224  | 200  | 174  | 153  | 132  | -    | -    | -    |  |  |
|                          | EVMS(.)32 9-2/30   | 30   | 40   | 200                            | 3.0                               | 276  | 252  | 221  | 191  | 167  | 140  | -    | -    | -    |  |  |
| EVMS(.)32 9-0/30         | 30                 | 40   | 200  | 3.0                            | 281                               | 252  | 225  | 196  | 172  | 148  | -    | -    | -    |      |  |  |
| EVMS(.)32 10-0/30        | 30                 | 40   | 200  | 3.0                            | 312                               | 280  | 251  | 218  | 192  | 165  | -    | -    | -    |      |  |  |
| 45                       | EVMS(.)45 1-1/5.5  | 5.5  | 7.5  | 132                            | 1.6                               | 36.2 | -    | 27.6 | 26.9 | 26   | 24.1 | 20.5 | 15.8 | 11.8 |  |  |
|                          | EVMS(.)45 1-0/7.5  | 7.5  | 10   | 132                            | 1.6                               | 41   | -    | 36.1 | 33.5 | 32.4 | 30.8 | 27.7 | 23.9 | 20.7 |  |  |
|                          | EVMS(.)45 2-2/11   | 11   | 15   | 160                            | 1.6                               | 70.5 | -    | 55.5 | 53.5 | 52   | 48   | 40.5 | 31.8 | 24.5 |  |  |
|                          | EVMS(.)45 2-1/11   | 11   | 15   | 160                            | 1.6                               | 75   | -    | 63   | 60.5 | 59   | 55   | 48.5 | 39.9 | 34   |  |  |
|                          | EVMS(.)45 2-0/15   | 15   | 20   | 160                            | 1.6                               | 79.5 | -    | 71   | 67.5 | 65.5 | 62   | 56   | 48.5 | 43   |  |  |
|                          | EVMS(.)45 3-2/15   | 15   | 20   | 160                            | 1.6                               | 108  | -    | 91   | 87.5 | 84.5 | 80   | 70   | 57   | 46   |  |  |
|                          | EVMS(.)45 3-1/18.5 | 18.5 | 25   | 160                            | 1.6                               | 111  | -    | 98   | 94.5 | 92   | 86.5 | 77   | 65   | 55.5 |  |  |
|                          | EVMS(.)45 3-0/18.5 | 18.5 | 25   | 160                            | 1.6                               | 112  | -    | 105  | 101  | 99   | 95.5 | 87   | 75.5 | 65   |  |  |
|                          | EVMS(.)45 4-2/22   | 22   | 30   | 180                            | 1.6                               | 148  | -    | 130  | 124  | 122  | 115  | 102  | 86.5 | 72   |  |  |
|                          | EVMS(.)45 4-1/30   | 30   | 40   | 200                            | 1.6                               | 153  | -    | 137  | 132  | 128  | 122  | 110  | 95   | 81.5 |  |  |
|                          | EVMS(.)45 4-0/30   | 30   | 40   | 200                            | 1.6                               | 153  | -    | 142  | 138  | 135  | 130  | 119  | 103  | 91   |  |  |
|                          | EVMS(.)45 5-2/30   | 30   | 40   | 200                            | 2.5                               | 188  | -    | 165  | 159  | 155  | 148  | 132  | 112  | 95   |  |  |
|                          | EVMS(.)45 5-1/30   | 30   | 40   | 200                            | 2.5                               | 193  | -    | 173  | 167  | 162  | 155  | 140  | 120  | 104  |  |  |
|                          | EVMS(.)45 5-0/37   | 37   | 50   | 200                            | 2.5                               | 191  | -    | 177  | 173  | 169  | 163  | 149  | 129  | 113  |  |  |
|                          | EVMS(.)45 6-2/37   | 37   | 50   | 200                            | 2.5                               | 227  | -    | 202  | 194  | 189  | 181  | 163  | 138  | 117  |  |  |
|                          | EVMS(.)45 6-1/37   | 37   | 50   | 200                            | 2.5                               | 230  | -    | 209  | 201  | 197  | 189  | 171  | 148  | 129  |  |  |
|                          | EVMS(.)45 6-0/37   | 37   | 50   | 200                            | 2.5                               | 232  | -    | 215  | 207  | 203  | 196  | 178  | 155  | 137  |  |  |
|                          | EVMS(.)45 7-2/45   | 45   | 60   | 225                            | 3.5                               | 264  | -    | 234  | 228  | 222  | 213  | 191  | 162  | 139  |  |  |
| EVMS(.)45 7-1/45         | 45                 | 60   | 225  | 3.5                            | 268                               | -    | 242  | 235  | 229  | 220  | 199  | 170  | 148  |      |  |  |
| EVMS(.)45 7-0/45         | 45                 | 60   | 225  | 3.5                            | 268                               | -    | 249  | 241  | 236  | 228  | 208  | 182  | 160  |      |  |  |

1.6 MPa=16 bar;      2.5 MPa=25 bar;      3.0 MPa=30 bar;      3.5 MPa=35 bar

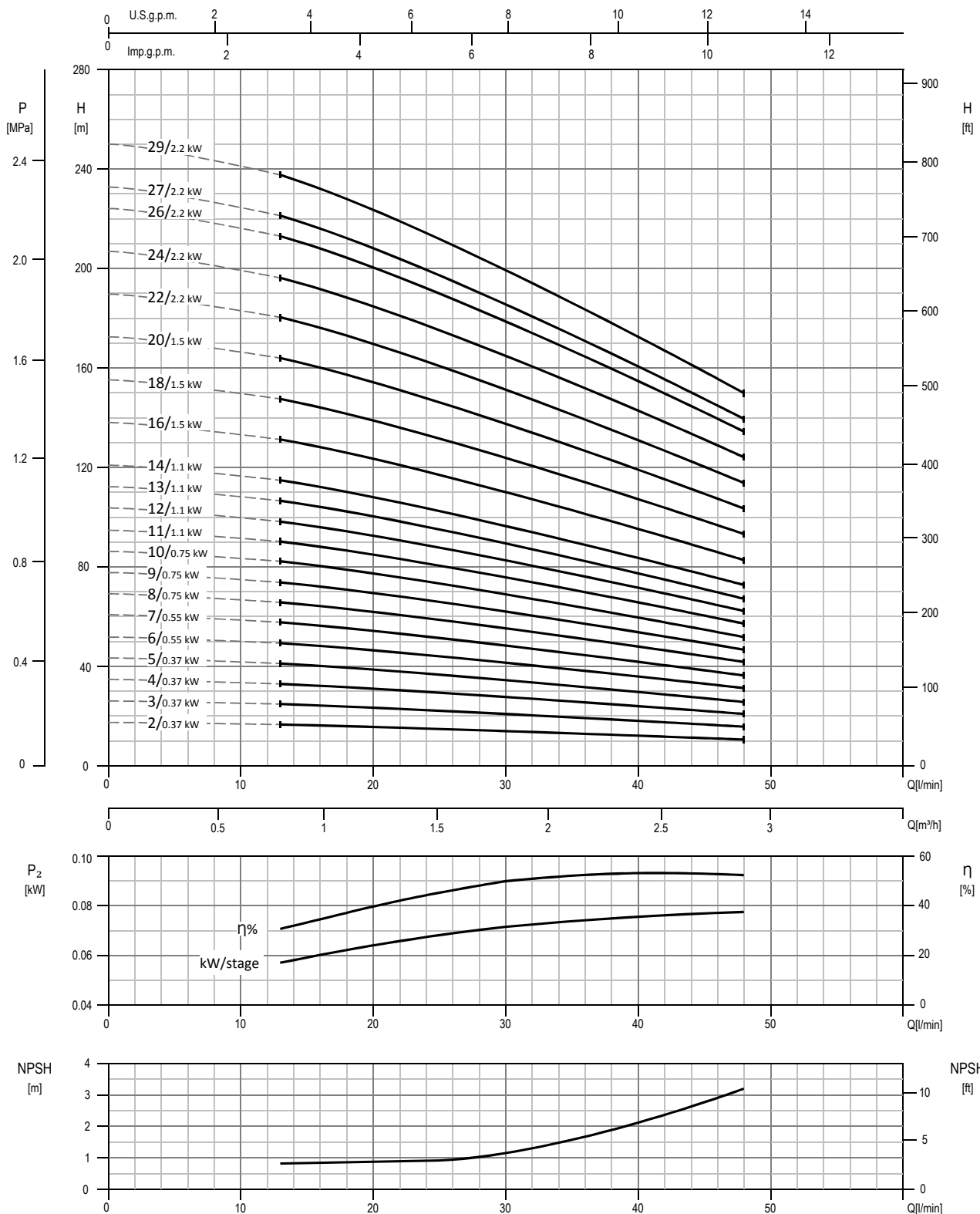


### SELECTION CHART EVMS(.)64-90

| Pump Type        | Motor              |      |      | Maximum working pressure (MPa) | Q=Capacity                        |      |      |      |      |      |      |      |      |      |      |      |
|------------------|--------------------|------|------|--------------------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                  | kW                 | HP   | Size |                                | l/min                             | 600  | 850  | 1100 | 1200 | 1500 | 1700 | 1800 | 2000 | 2100 | 2300 |      |
|                  |                    |      |      |                                | 0                                 | 0    | 36   | 51   | 66   | 72   | 90   | 102  | 108  | 120  | 126  | 138  |
| Three phase      |                    |      |      |                                | H=Total manometric head in meters |      |      |      |      |      |      |      |      |      |      |      |
| 64               | EVMS(.)64 1-1/7.5  | 7.5  | 10   | 132                            | 1.6                               | 30,8 | 26,9 | 26,4 | 23   | 20,8 | 14,2 | 7,5  | -    | -    | -    | -    |
|                  | EVMS(.)64 1-0/11   | 11   | 15   | 160                            | 1.6                               | 48,5 | 41,5 | 37,7 | 33,4 | 32,9 | 26,1 | 20,4 | -    | -    | -    | -    |
|                  | EVMS(.)64 2-2/15   | 15   | 20   | 160                            | 1.6                               | 61   | 55,5 | 54,5 | 47,5 | 44   | 32   | 22,1 | -    | -    | -    | -    |
|                  | EVMS(.)64 2-1/18.5 | 18.5 | 25   | 160                            | 1.6                               | 76,5 | 67,5 | 64   | 57   | 54   | 41,5 | 33,8 | -    | -    | -    | -    |
|                  | EVMS(.)64 2-0/18.5 | 18.5 | 25   | 160                            | 1.6                               | 93,5 | 80   | 75   | 67   | 64   | 52   | 43   | -    | -    | -    | -    |
|                  | EVMS(.)64 3-2/22   | 22   | 30   | 180                            | 1.6                               | 107  | 96   | 90   | 81,5 | 77,5 | 59,5 | 45,5 | -    | -    | -    | -    |
|                  | EVMS(.)64 3-1/30   | 30   | 40   | 200                            | 1.6                               | 123  | 111  | 102  | 94,5 | 89,5 | 71,5 | 57,5 | -    | -    | -    | -    |
|                  | EVMS(.)64 3-0/30   | 30   | 40   | 200                            | 1.6                               | 141  | 123  | 116  | 105  | 100  | 82   | 67,5 | -    | -    | -    | -    |
|                  | EVMS(.)64 4-2/37   | 37   | 50   | 200                            | 2.5                               | 153  | 136  | 130  | 119  | 114  | 90   | 71,5 | -    | -    | -    | -    |
|                  | EVMS(.)64 4-1/37   | 37   | 50   | 200                            | 2.5                               | 169  | 148  | 137  | 129  | 123  | 100  | 80,5 | -    | -    | -    | -    |
|                  | EVMS(.)64 4-0/37   | 37   | 50   | 200                            | 2.5                               | 187  | 164  | 154  | 144  | 137  | 112  | 89,5 | -    | -    | -    | -    |
|                  | EVMS(.)64 5-2/45   | 45   | 60   | 225                            | 2.5                               | 203  | 180  | 172  | 157  | 148  | 119  | 96,5 | -    | -    | -    | -    |
|                  | EVMS(.)64 5-1/45   | 45   | 60   | 225                            | 2.5                               | 220  | 193  | 182  | 167  | 157  | 129  | 104  | -    | -    | -    | -    |
|                  | EVMS(.)64 5-0/45   | 45   | 60   | 225                            | 2.5                               | 236  | 204  | 193  | 177  | 168  | 140  | 115  | -    | -    | -    | -    |
| 90               | EVMS(.)90 1-1/11   | 11   | 15   | 160                            | 1.6                               | 38.4 | -    | 30.7 | 29.2 | 28.5 | 25.7 | 22.7 | 21   | 17.2 | 15.2 | 9.9  |
|                  | EVMS(.)90 1-0/15   | 15   | 20   | 160                            | 1.6                               | 50.5 | -    | 41   | 37.5 | 35.9 | 32.2 | 30   | 28.5 | 25.3 | 23.7 | 14.5 |
|                  | EVMS(.)90 2-2/18.5 | 18.5 | 25   | 160                            | 1.6                               | 77   | -    | 61.5 | 58.5 | 57   | 51.5 | 45.5 | 42   | 34.3 | 30.4 | 19.9 |
|                  | EVMS(.)90 2-1/22   | 22   | 30   | 180                            | 1.6                               | 91.5 | -    | 73.5 | 69   | 66.5 | 60   | 55   | 51.5 | 44.5 | 41   | 29.3 |
|                  | EVMS(.)90 2-0/30   | 30   | 40   | 200                            | 1.6                               | 99.5 | -    | 85.5 | 80.5 | 78.5 | 72   | 67   | 64.5 | 59   | 55.5 | 48.5 |
|                  | EVMS(.)90 3-2/37   | 37   | 50   | 200                            | 1.6                               | 123  | -    | 106  | 101  | 100  | 92   | 84   | 80   | 72   | 66.5 | 55.5 |
|                  | EVMS(.)90 3-1/37   | 37   | 50   | 200                            | 1.6                               | 139  | -    | 117  | 110  | 108  | 98.5 | 91   | 86.5 | 77   | 71.5 | 62.5 |
|                  | EVMS(.)90 3-0/37   | 37   | 50   | 200                            | 1.6                               | 149  | -    | 128  | 121  | 118  | 108  | 100  | 97   | 88.5 | 83.5 | 73   |
| EVMS(.)90 4-2/45 | 45                 | 60   | 225  | 2.5                            | 173                               | -    | 149  | 142  | 139  | 127  | 117  | 112  | 101  | 94.5 | 80   |      |

1.6 MPa=16 bar;      2.5 MPa=25 bar

PERFORMANCE CURVE  
EVMS(L)1

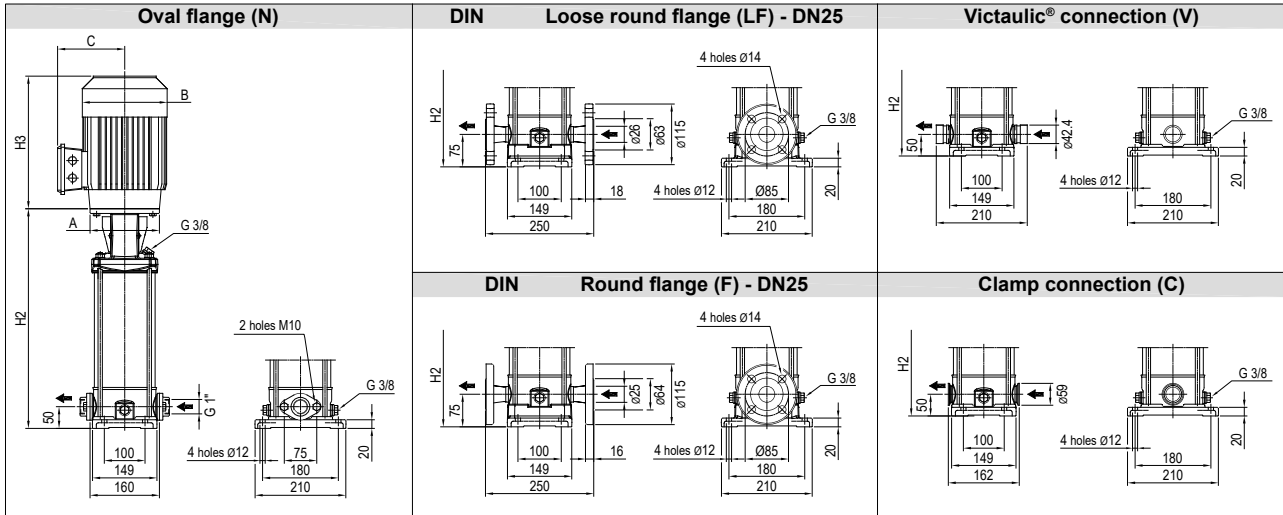


Test standard: ISO 9906:2012 - Grade 3B

EVMS(L)1

### TECHNICAL DATA EVMS(L)1

#### Dimensional sketch

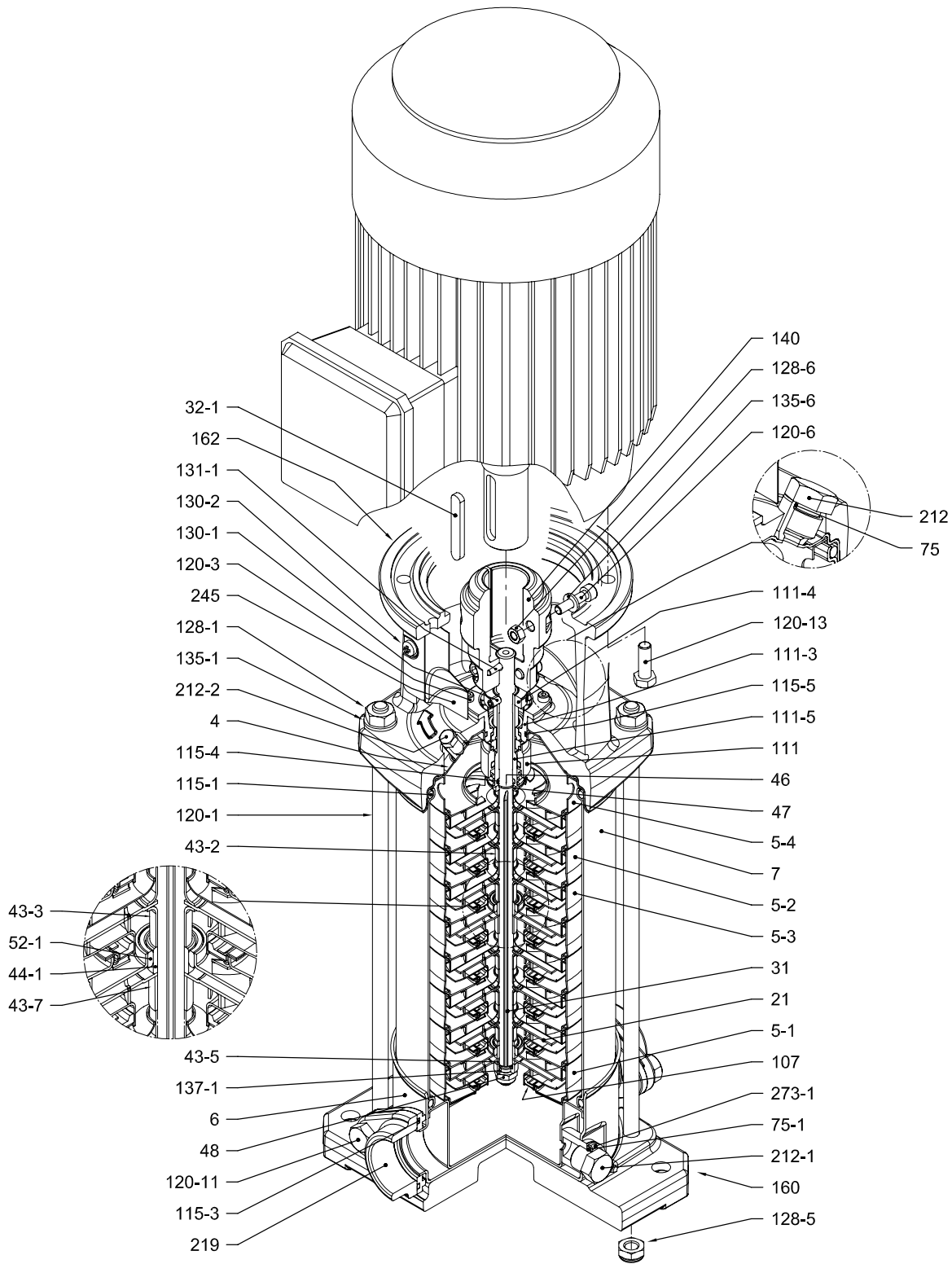


#### Dimensions [mm] and Weights [Kg]

| Pump Type        | Pmax [MPa] | Motor |      |        |            |     | Oval flange (N) |       |                |                           | Loose round flange (LF)<br>Round flange (F) |       |                |                           | Victaulic® connection (V)<br>Clamp connection (C) |       |                |                           |
|------------------|------------|-------|------|--------|------------|-----|-----------------|-------|----------------|---------------------------|---|-------|----------------|---------------------------|---|-------|----------------|---------------------------|
|                  |            | kW    | Size | A<br>Ø | 3 ~<br>B C |     | H2              | H2+H3 | Weight<br>Pump | Weight<br>Pump +<br>Motor | H2  | H2+H3 | Weight<br>Pump | Weight<br>Pump +<br>Motor | H2  | H2+H3 | Weight<br>Pump | Weight<br>Pump +<br>Motor |
| EVMS(L)1 2/0.37  | 1.6        | 0.37  | 71   | 105    | 141        | 119 | 250             | 452   | 10             | 16.5                      | 275   | 477   | 10.7           | 17.2                      | 250   | 452   | 10             | 16.5                      |
| EVMS(L)1 3/0.37  | 1.6        | 0.37  | 71   | 105    | 141        | 119 | 271             | 473   | 10.5           | 17.0                      | 296   | 498   | 11.2           | 17.7                      | 271   | 473   | 10.4           | 16.9                      |
| EVMS(L)1 4/0.37  | 1.6        | 0.37  | 71   | 105    | 141        | 119 | 292             | 494   | 10.9           | 17.4                      | 317   | 519   | 11.6           | 18.1                      | 292   | 494   | 10.8           | 17.3                      |
| EVMS(L)1 5/0.37  | 1.6        | 0.37  | 71   | 105    | 141        | 119 | 313             | 515   | 11.4           | 17.9                      | 338   | 540   | 12             | 18.5                      | 313   | 515   | 11.3           | 17.8                      |
| EVMS(L)1 6/0.55  | 1.6        | 0.55  | 71   | 105    | 141        | 119 | 334             | 536   | 11.8           | 18.8                      | 359   | 561   | 12.4           | 19.4                      | 334   | 536   | 11.7           | 18.7                      |
| EVMS(L)1 7/0.55  | 1.6        | 0.55  | 71   | 105    | 141        | 119 | 355             | 557   | 12.5           | 19.5                      | 380   | 582   | 13.1           | 20.1                      | 355   | 557   | 12.4           | 19.4                      |
| EVMS(L)1 8/0.75  | 1.6        | 0.75  | 80   | 120    | 141        | 102 | 386             | 619   | 12.9           | 21.4                      | 411   | 644   | 13.6           | 22.1                      | 386   | 619   | 12.8           | 21.3                      |
| EVMS(L)1 9/0.75  | 1.6        | 0.75  | 80   | 120    | 141        | 102 | 407             | 640   | 13.3           | 21.8                      | 432   | 665   | 14             | 22.5                      | 407   | 640   | 13.3           | 21.8                      |
| EVMS(L)1 10/0.75 | 1.6        | 0.75  | 80   | 120    | 141        | 102 | 428             | 661   | 13.8           | 22.3                      | 453   | 686   | 14.4           | 22.9                      | 428   | 661   | 13.7           | 22.2                      |
| EVMS(L)1 11/1.1  | 1.6        | 1.1   | 80   | 120    | 141        | 102 | 449             | 693   | 14.2           | 24.2                      | 474   | 718   | 14.9           | 24.9                      | 449   | 693   | 14.1           | 24.1                      |
| EVMS(L)1 12/1.1  | 1.6        | 1.1   | 80   | 120    | 141        | 102 | 470             | 714   | 14.6           | 24.6                      | 495   | 739   | 15.3           | 25.3                      | 470   | 714   | 14.6           | 24.6                      |
| EVMS(L)1 13/1.1  | 1.6        | 1.1   | 80   | 120    | 141        | 102 | 491             | 735   | 15.3           | 25.3                      | 516   | 760   | 16             | 26.0                      | 491   | 735   | 15.3           | 25.3                      |
| EVMS(L)1 14/1.1  | 1.6        | 1.1   | 80   | 120    | 141        | 102 | 512             | 756   | 15.7           | 25.7                      | 537   | 781   | 16.4           | 26.4                      | 512   | 756   | 15.7           | 25.7                      |
| EVMS(L)1 16/1.5  | 1.6        | 1.5   | 90   | 140    | 160        | 119 | 564             | 855   | 16.7           | 30.2                      | 589   | 880   | 17.4           | 30.9                      | 564   | 855   | 16.7           | 30.2                      |
| EVMS(L)1 18/1.5  | 1.6        | 1.5   | 90   | 140    | 160        | 119 | 606             | 897   | 17.6           | 31.1                      | 631   | 922   | 18.3           | 31.8                      | 606   | 897   | 17.6           | 31.1                      |
| EVMS(L)1 20/1.5  | 2.5        | 1.5   | 90   | 140    | 160        | 119 | -               | -     | -              | -                         | 673   | 964   | 19.2           | 32.7                      | 648   | 939   | 18.5           | 32.0                      |
| EVMS(L)1 22/2.2  | 2.5        | 2.2   | 90   | 140    | 160        | 119 | -               | -     | -              | -                         | 715   | 1006  | 20.6           | 35.6                      | 690   | 981   | 19.9           | 34.9                      |
| EVMS(L)1 24/2.2  | 2.5        | 2.2   | 90   | 140    | 160        | 119 | -               | -     | -              | -                         | 757   | 1048  | 21.6           | 36.6                      | 732   | 1023  | 20.9           | 35.9                      |
| EVMS(L)1 26/2.2  | 2.5        | 2.2   | 90   | 140    | 160        | 119 | -               | -     | -              | -                         | 799   | 1090  | 22.5           | 37.5                      | 774   | 1065  | 21.8           | 36.8                      |
| EVMS(L)1 27/2.2  | 2.5        | 2.2   | 90   | 140    | 160        | 119 | -               | -     | -              | -                         | 820   | 1111  | 23             | 38.0                      | 795   | 1086  | 22.3           | 37.3                      |
| EVMS(L)1 29/2.2  | 2.5        | 2.2   | 90   | 140    | 160        | 119 | -               | -     | -              | -                         | 862   | 1153  | 23.9           | 38.9                      | 837   | 1128  | 23.2           | 38.2                      |

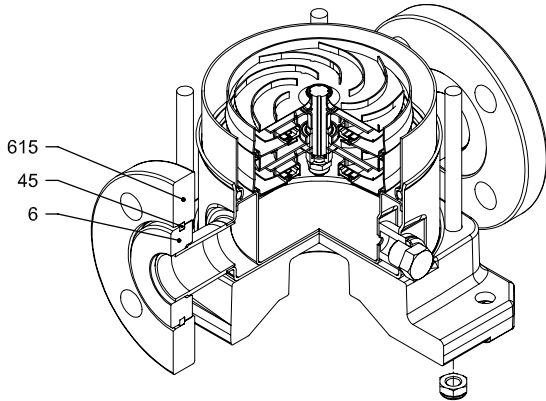
1.6 MPa=16 bar;      2.5 MPa=25 bar  
- not available model

SECTIONAL VIEW  
EVMS(L)1

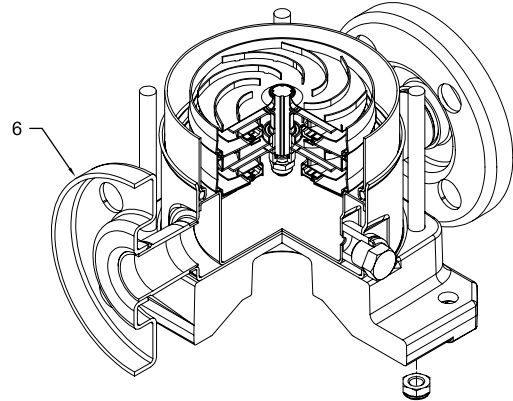


with Oval flange (N)

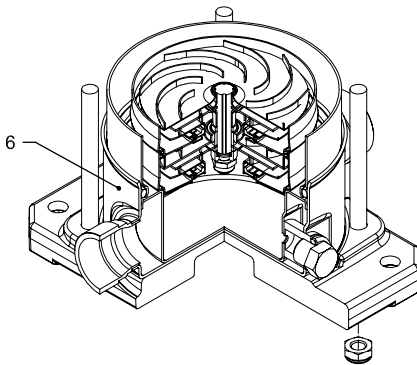
### PIPE CONNECTION EVMS(L)1



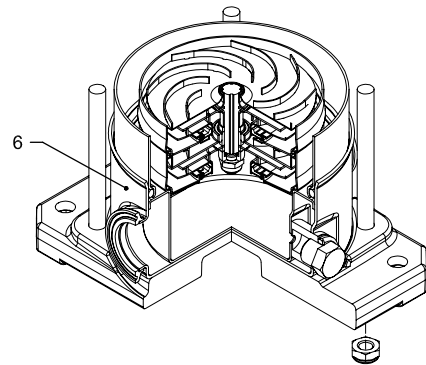
with Loose round flange (LF)



with Round flange (F)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE  
EVMS(L)1

| N°     | PART NAME                        | MATERIAL                                 |   | DIMENSIONS                                     | STANDARD             |
|--------|----------------------------------|--|---|--|----------------------|
|        |                                  | EVMS                                     | EVMSL   |  |                      |
| 4      | Casing cover                     | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 5-1    | Suction casing                   | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 5-2    | Intermediate casing              | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 5-3    | Intermediate casing with bearing | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 5-4    | Discharge casing                 | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 6      | Bottom casing                    | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 7      | Outer casing                     | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 21     | Impeller                         | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 31     | Shaft                            | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 32-1   | Adjuster key                     | EN 1.4301 (AISI 304)                     |   |  |                      |
| 43-2   | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 43-3   | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 43-5   | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 43-7   | Spacer                           | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 44-1   | Shaft sleeve bearing             | Tungsten carbide                         |   |  |                      |
| 45     | Flange holder                    | EN 1.4301 (AISI 304)                     |   |  |                      |
| 46     | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                    |   |  |                      |
| 47     | Ring holder                      | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 48     | Impeller nut                     | EN 1.4301 (AISI 304)<br>with inox insert | EN 1.4401 (AISI 316)<br>with inox insert      | M8   |                      |
| 52-1   | Sleeve bearing                   | Tungsten carbide                         |   |  |                      |
| 75     | O-Ring (priming plug)            | EPDM / FPM                               |   | Ø12.37x2.62                                    | OR 3050              |
| 75-1   | O-Ring (drainage plug)           | EPDM / FPM                               |   |  |                      |
| 107    | Liner ring                       | EN 1.4301 (AISI 304) + PPS               | EN 1.4404 (AISI 316L) + PPS                   |  |                      |
| 111    | Mechanical seal                  | see pages 6-7                            |   |  |                      |
| 111-3  | Mechanical seal seat             | EN 1.4308 (ASTM CF8)                     | EN 1.4408 (ASTM CF8M)                         |  |                      |
| 111-4  | Seal holder                      | EN 1.4301 (AISI 304)                     |   |  |                      |
| 111-5  | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 115-1  | O-Ring (outer casing)            | EPDM / FPM                               |   | Ø129.54x5.34                                   | OR 6945              |
| 115-3  | O-Ring                           | EPDM / FPM                               |   |  |                      |
| 115-4  | O-Ring (cartridge sleeve)        | EPDM / FPM                               |   | Ø11.91x2.62                                    | OR 4093              |
| 115-5  | O-Ring (seal flange)             | EPDM / FPM                               |   | Ø32.99x2.62                                    | OR 4175              |
| 120-1  | Tie-rod                          | EN 1.4057 (AISI 431)                     |   | M10  |                      |
| 120-3  | Screw (seal flange)              | A2-70                                    |   | M4x10  | ISO 4762             |
| 120-6  | Screw (pump coupling)            | Galvanized steel                         |   | M6x25  | ISO 4762             |
| 120-11 | Screw (counterflange)            | A2-70                                    |   |  |                      |
| 120-13 | Screw for motor                  | MEC 71-80<br>MEC 90                      | Galvanized steel 8.8 strength class ISO 898/1 | M6x20<br>M8x20                                 | ISO 4017<br>ISO 4017 |
| 128-1  | Nut (tie rod)                    | A2-70                                    |   | M10  | ISO 4032             |
| 128-5  | Nut (tie rod)                    | A2-70                                    |   | M10  | UNI 7474             |
| 128-6  | Nut (aluminium coupling)         | MEC 71-80-90                             | Galvanized steel                              | M6   | ISO 4032             |
| 130-1  | Set screw                        | EN 1.4301 (AISI 304)                     |   | M5x8   | ISO 4026             |
| 130-2  | Screw for coupling guard         | A2-70                                    |   | M5x6   | UNI 7687             |
| 131-1  | Pin for shaft                    | Carbon Steel                             |   | Ø4x32  | ISO 2338             |
| 135-1  | Washer (tie rod)                 | EN 1.4301 (AISI 304)                     |   | Ø10.5x21x2                                     | ISO 7089             |
| 135-6  | Washer (aluminium coupling)      | up to 4.0 kW                             | Carbon Steel                                  | Ø6   |                      |
| 137-1  | Impeller spacer                  | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 140    | Coupling                         | up to 4.0 kW                             | Die cast Aluminium EN AB-AISI11Cu2 (Fe)       |  |                      |
| 160    | Base                             |  | Die cast Aluminium EN AB-AISI11Cu2 (Fe)       |  |                      |
| 162    | Motor bracket                    |  | Cast iron EN-GJL-250                          |  |                      |
| 212    | Priming plug                     | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         | G 3/8  |                      |
| 212-1  | Drainage plug                    | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         | G 3/8  |                      |
| 212-2  | Venting plug                     | EN 1.4404 (AISI 316L)                    |   |  |                      |
| 219    | Counter flange                   | flange type: N<br>flange type: LF-F-V-C  | EN 1.4308 (ASTM CF8)<br>EN 1.4301 (AISI 304)  | EN 1.4408 (ASTM CF8M)<br>EN 1.4404 (AISI 316L) |                      |
| 245    | Coupling guard                   | EN 1.4301 (AISI 304)                     |   |  |                      |
| 273-1  | Washer (drainage plug)           | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 615    | Flange                           | Nodular Cast Iron                        |   |  |                      |

### QUANTITY FOR MODEL EVMS(L)1

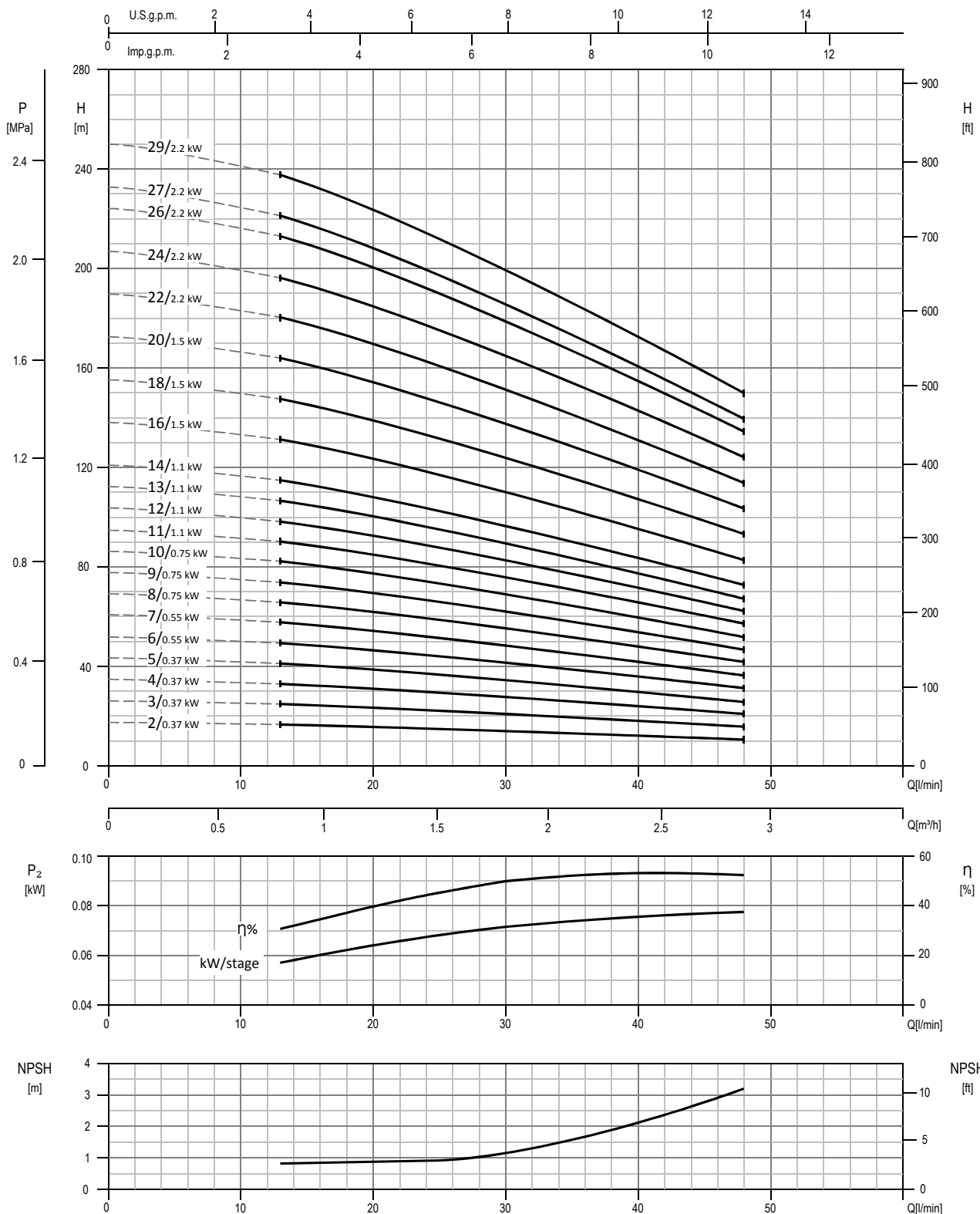
| Pump Type        | N° |     |    |    |    |   |   |    |    |      |      |      |      |      |      |     |    |    |    |      |    |      |     |     |       |       |       |       |        |       |       |
|------------------|----|-----|----|----|----|---|---|----|----|------|------|------|------|------|------|-----|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|--------|-------|-------|
|                  | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31 | 32-1 | 43-2 | 43-3 | 43-5 | 43-7 | 44-1 | 45* | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-3* | 115-4 | 115-5 |
| EVMS(L)1 2/0.37  | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1  | 1    | 1    | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 2   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)1 3/0.37  | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1  | 1    | 3    | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 3   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)1 4/0.37  | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1  | 1    | 5    | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 4   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)1 5/0.37  | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1  | 1    | 7    | 1    | 1    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 5   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)1 6/0.55  | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1  | 1    | 9    | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 6   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)1 7/0.55  | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1  | 1    | 11   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 7   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)1 8/0.75  | 1  | 1   | 6  | 1  | 1  | 1 | 1 | 8  | 1  | 1    | 13   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 8   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)1 9/0.75  | 1  | 1   | 7  | 1  | 1  | 1 | 1 | 9  | 1  | 1    | 15   | 1    | 1    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 9   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)1 10/0.75 | 1  | 1   | 8  | 1  | 1  | 1 | 1 | 10 | 1  | 1    | 17   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 10  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)1 11/1.1  | 1  | 1   | 9  | 1  | 1  | 1 | 1 | 11 | 1  | 1    | 19   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 11  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)1 12/1.1  | 1  | 1   | 10 | 1  | 1  | 1 | 1 | 12 | 1  | 1    | 21   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 12  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)1 13/1.1  | 1  | 1   | 10 | 2  | 1  | 1 | 1 | 13 | 1  | 1    | 20   | 2    | 1    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 13  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)1 14/1.1  | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1  | 1    | 22   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 14  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)1 16/1.5  | 1  | 1   | 13 | 2  | 1  | 1 | 1 | 16 | 1  | 1    | 26   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 16  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)1 18/1.5  | 1  | 1   | 15 | 2  | 1  | 1 | 1 | 18 | 1  | 1    | 30   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 18  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)1 20/1.5  | 1  | 1   | 17 | 2  | 1  | 1 | 1 | 20 | 1  | 1    | 34   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 20  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)1 22/2.2  | 1  | 1   | 19 | 2  | 1  | 1 | 1 | 22 | 1  | 1    | 38   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 22  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)1 24/2.2  | 1  | 1   | 21 | 2  | 1  | 1 | 1 | 24 | 1  | 1    | 42   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 24  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)1 26/2.2  | 1  | 1   | 23 | 2  | 1  | 1 | 1 | 26 | 1  | 1    | 46   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 26  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)1 27/2.2  | 1  | 1   | 24 | 2  | 1  | 1 | 1 | 27 | 1  | 1    | 48   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 27  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)1 29/2.2  | 1  | 1   | 26 | 2  | 1  | 1 | 1 | 29 | 1  | 1    | 52   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 29  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |

| Pump Type        | N°    |       |       |         |        |       |       |       |       |       |       |       |       |       |     |     |     |     |       |       |      |     |       |       |
|------------------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|------|-----|-------|-------|
|                  | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-5 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 160 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 | 615** |
| EVMS(L)1 2/0.37  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 3/0.37  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 4/0.37  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 5/0.37  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 6/0.55  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 7/0.55  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 8/0.75  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 9/0.75  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 10/0.75 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 11/1.1  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 12/1.1  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 13/1.1  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 14/1.1  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 16/1.5  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 18/1.5  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 20/1.5  | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)1 22/2.2  | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)1 24/2.2  | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)1 26/2.2  | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)1 27/2.2  | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)1 29/2.2  | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |

\* only for Oval flange (N)

\*\* only for Loose round flange (LF)

PERFORMANCE CURVE  
EVMSG1

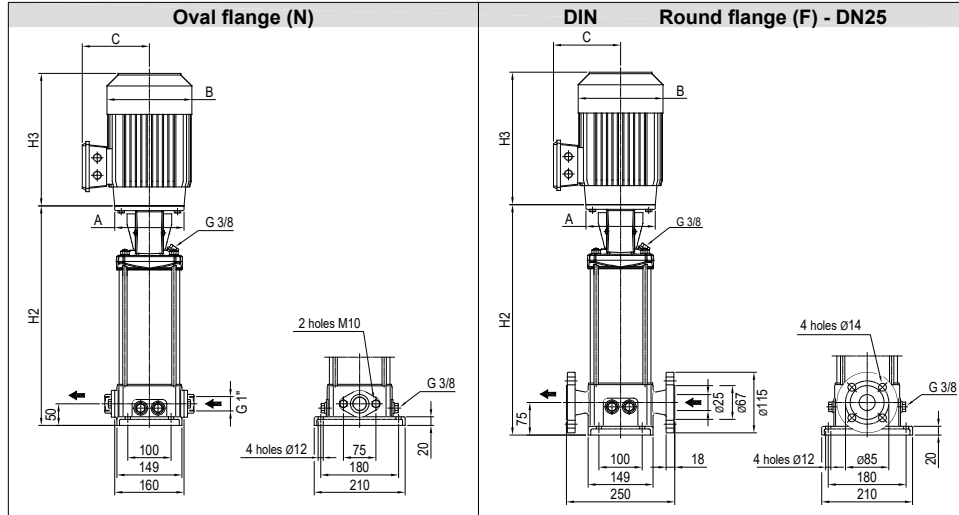


Test standard: ISO 9906:2012 - Grade 3B



### TECHNICAL DATA EVMSG1

#### Dimensional sketch



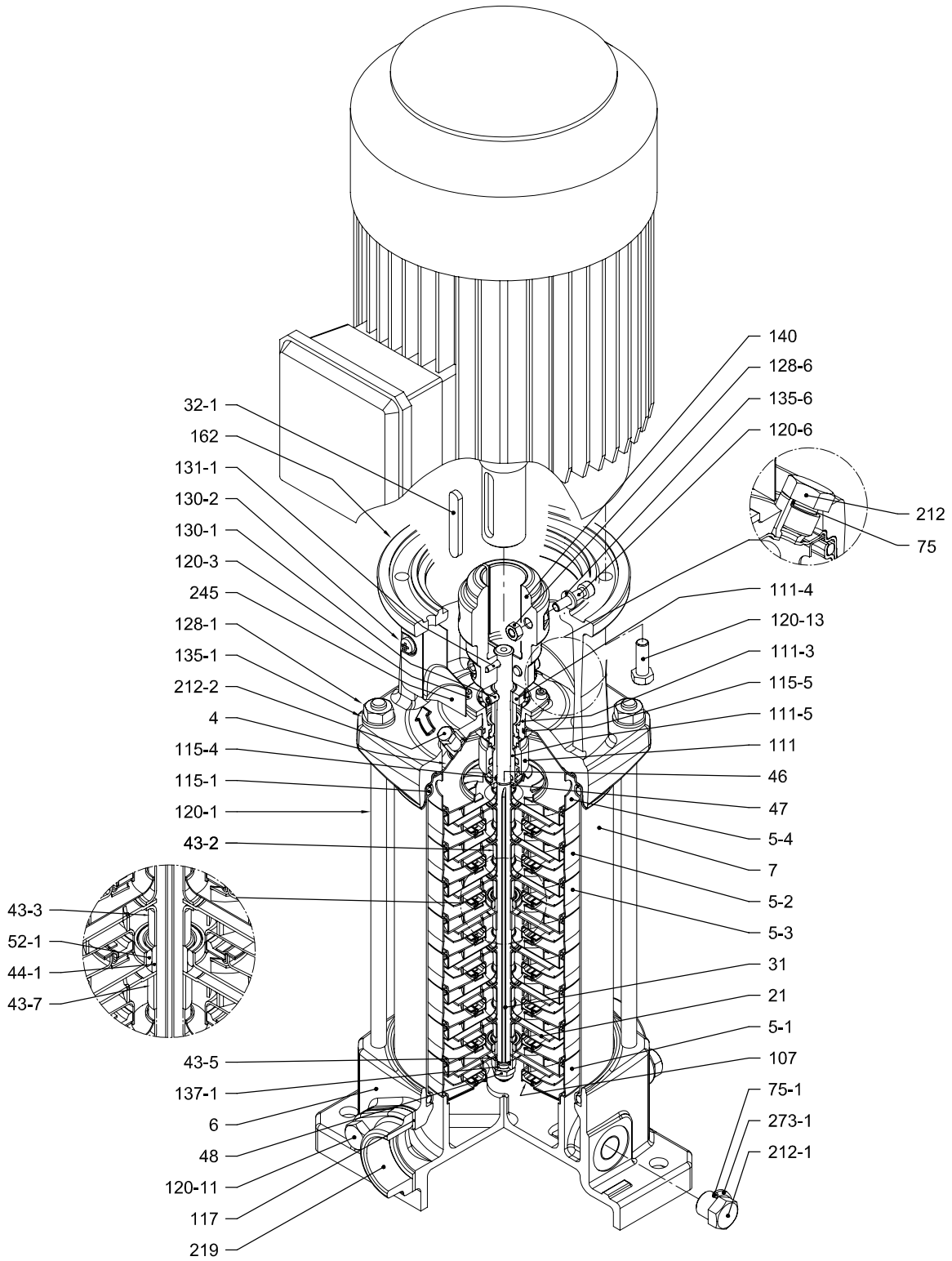
#### Dimensions [mm] and Weights [Kg]

| Pump Type      | Pmax [MPa] | kW   | Motor |        |            | Oval flange (N) |       |             |                     | Round flange (F) |       |             |                     |
|----------------|------------|------|-------|--------|------------|-----------------|-------|-------------|---------------------|------------------|-------|-------------|---------------------|
|                |            |      | Size  | A<br>Ø | 3 ~<br>B C | H2              | H2+H3 | Weight Pump | Weight Pump + Motor | H2               | H2+H3 | Weight Pump | Weight Pump + Motor |
| EVMSG1 2/0.37  | 1.6        | 0.37 | 71    | 105    | 141 119    | 250             | 452   | 14.3        | 20.8                | 275              | 477   | 17.7        | 24.2                |
| EVMSG1 3/0.37  | 1.6        | 0.37 | 71    | 105    | 141 119    | 271             | 473   | 14.7        | 21.2                | 296              | 498   | 18.1        | 24.6                |
| EVMSG1 4/0.37  | 1.6        | 0.37 | 71    | 105    | 141 119    | 292             | 494   | 15.1        | 21.6                | 317              | 519   | 18.5        | 25.0                |
| EVMSG1 5/0.37  | 1.6        | 0.37 | 71    | 105    | 141 119    | 313             | 515   | 15.6        | 22.1                | 338              | 540   | 19          | 25.5                |
| EVMSG1 6/0.55  | 1.6        | 0.55 | 71    | 105    | 141 119    | 334             | 536   | 16          | 23.0                | 359              | 561   | 19.4        | 26.4                |
| EVMSG1 7/0.55  | 1.6        | 0.55 | 71    | 105    | 141 119    | 355             | 557   | 16.7        | 23.7                | 380              | 582   | 20.1        | 27.1                |
| EVMSG1 8/0.75  | 1.6        | 0.75 | 80    | 120    | 141 102    | 386             | 619   | 17.1        | 25.6                | 411              | 644   | 20.5        | 29.0                |
| EVMSG1 9/0.75  | 1.6        | 0.75 | 80    | 120    | 141 102    | 407             | 640   | 17.6        | 26.1                | 432              | 665   | 21          | 29.5                |
| EVMSG1 10/0.75 | 1.6        | 0.75 | 80    | 120    | 141 102    | 428             | 661   | 18          | 26.5                | 453              | 686   | 21.4        | 29.9                |
| EVMSG1 11/1.1  | 1.6        | 1.1  | 80    | 120    | 141 102    | 449             | 693   | 18.4        | 28.4                | 474              | 718   | 21.8        | 31.8                |
| EVMSG1 12/1.1  | 1.6        | 1.1  | 80    | 120    | 141 102    | 470             | 714   | 18.9        | 28.9                | 495              | 739   | 22.3        | 32.3                |
| EVMSG1 13/1.1  | 1.6        | 1.1  | 80    | 120    | 141 102    | 491             | 735   | 19.6        | 29.6                | 516              | 760   | 23          | 33.0                |
| EVMSG1 14/1.1  | 1.6        | 1.1  | 80    | 120    | 141 102    | 512             | 756   | 20          | 30.0                | 537              | 781   | 23.4        | 33.4                |
| EVMSG1 16/1.5  | 1.6        | 1.5  | 90    | 140    | 160 119    | 564             | 855   | 21          | 34.5                | 589              | 880   | 24.4        | 37.9                |
| EVMSG1 18/1.5  | 1.6        | 1.5  | 90    | 140    | 160 119    | 606             | 897   | 21.9        | 35.4                | 631              | 922   | 25.3        | 38.8                |
| EVMSG1 20/1.5  | 2.5        | 1.5  | 90    | 140    | 160 119    | -               | -     | -           | -                   | 673              | 964   | 26.2        | 39.7                |
| EVMSG1 22/2.2  | 2.5        | 2.2  | 90    | 140    | 160 119    | -               | -     | -           | -                   | 715              | 1006  | 27.6        | 42.6                |
| EVMSG1 24/2.2  | 2.5        | 2.2  | 90    | 140    | 160 119    | -               | -     | -           | -                   | 757              | 1048  | 28.6        | 43.6                |
| EVMSG1 26/2.2  | 2.5        | 2.2  | 90    | 140    | 160 119    | -               | -     | -           | -                   | 799              | 1090  | 29.5        | 44.5                |
| EVMSG1 27/2.2  | 2.5        | 2.2  | 90    | 140    | 160 119    | -               | -     | -           | -                   | 820              | 1111  | 30          | 45.0                |
| EVMSG1 29/2.2  | 2.5        | 2.2  | 90    | 140    | 160 119    | -               | -     | -           | -                   | 862              | 1153  | 30.9        | 45.9                |

1.6 MPa=16 bar;      2.5 MPa=25 bar  
- not available model

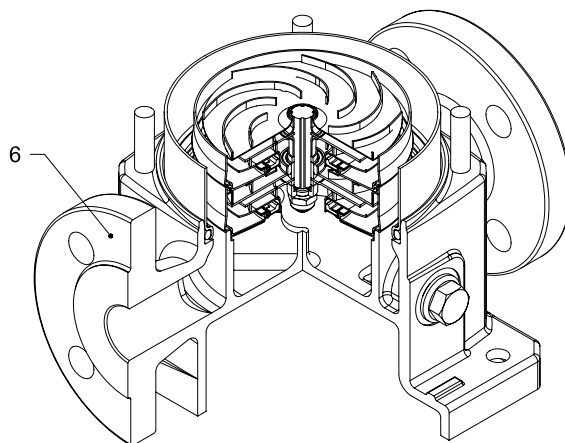
SECTIONAL VIEW  
EVMSG1

EVMSG1



with Oval flange (N)

### PIPE CONNECTION EVMSG1



with Round flange (F)

SECTIONAL TABLE  
EVMSG1

| N°     | PART NAME                        | MATERIAL<br>EVMSG                     | DIMENSIONS                                    | STANDARD                               |
|--------|----------------------------------|---------------------------------------|---|--|
| 4      | Casing cover                     | EN 1.4301 (AISI 304)                  |   |  |
| 5-1    | Suction casing                   | EN 1.4301 (AISI 304)                  |   |  |
| 5-2    | Intermediate casing              | EN 1.4301 (AISI 304)                  |   |  |
| 5-3    | Intermediate casing with bearing | EN 1.4301 (AISI 304)                  |   |  |
| 5-4    | Discharge casing                 | EN 1.4301 (AISI 304)                  |   |  |
| 6      | Bottom casing                    | Cast Iron EN G.JL-250                 |   |  |
| 7      | Outer casing                     | EN 1.4301 (AISI 304)                  |   |  |
| 21     | Impeller                         | EN 1.4301 (AISI 304)                  |   |  |
| 31     | Shaft                            | EN 1.4301 (AISI 304)                  |   |  |
| 32-1   | Adjuster key                     | EN 1.4301 (AISI 304)                  |   |  |
| 43-2   | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                  |   |  |
| 43-3   | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                  |   |  |
| 43-5   | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                  |   |  |
| 43-7   | Spacer                           | EN 1.4301 (AISI 304)                  |   |  |
| 44-1   | Shaft sleeve bearing             | Tungsten carbide                      |   |  |
| 46     | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                 |   |  |
| 47     | Ring holder                      | EN 1.4404 (AISI 316L)                 |   |  |
| 48     | Impeller nut                     | EN 1.4301 (AISI 304) with inox insert | M8  |  |
| 52-1   | Sleeve bearing                   | Tungsten carbide                      |   |  |
| 75     | O-Ring (priming plug)            | EPDM / FPM                            | Ø12.37x2.62                                   | OR 3050                                |
| 75-1   | O-Ring (drainage plug)           | EPDM / FPM                            |   |  |
| 107    | Liner ring                       | EN 1.4301 (AISI 304) + PPS            |   |  |
| 111    | Mechanical seal                  | see pages 6-7                         |   |  |
| 111-3  | Mechanical seal seat             | EN 1.4308 (ASTM CF8)                  |   |  |
| 111-4  | Seal holder                      | EN 1.4301 (AISI 304)                  |   |  |
| 111-5  | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                  |   |  |
| 115-1  | O-Ring (outer casing)            | EPDM / FPM                            | Ø129.54x5.34                                  | OR 6945                                |
| 115-4  | O-Ring (cartridge sleeve)        | EPDM / FPM                            | Ø11.91x2.62                                   | OR 4093                                |
| 115-5  | O-Ring (seal flange)             | EPDM / FPM                            | Ø32.99x2.62                                   | OR 4175                                |
| 117    | Flange gasket                    | EPDM / FPM                            |   |  |
| 120-1  | Tie-rod                          | EN 1.4057 (AISI 431)                  | M10   |  |
| 120-3  | Screw (seal flange)              | A2-70                                 | M4x10   | ISO 4762                               |
| 120-6  | Screw (pump coupling)            | Galvanized steel                      | M6x25   | ISO 4762                               |
| 120-11 | Screw (counterflange)            | A2-70                                 |   |  |
| 120-13 | Screw for motor                  | MEC 71-80<br>MEC 90                   | Galvanized steel 8.8 strength class ISO 898/1 | M6x20<br>M8x20<br>ISO 4017<br>ISO 4017 |
| 128-1  | Nut (tie rod)                    | A2-70                                 | M10   | ISO 4032                               |
| 128-6  | Nut (aluminium coupling)         | MEC 71-80-90                          | Galvanized steel                              | M6<br>ISO 4032                         |
| 130-1  | Set screw                        | EN 1.4301 (AISI 304)                  | M5x8  | ISO 4026                               |
| 130-2  | Screw for coupling guard         | A2-70                                 | M5x6  | UNI 7687                               |
| 131-1  | Pin for shaft                    | Carbon Steel                          | Ø4x32   | ISO 2338                               |
| 135-1  | Washer (tie rod)                 | EN 1.4301 (AISI 304)                  | Ø10.5x21x2                                    | ISO 7089                               |
| 135-6  | Washer (aluminium coupling)      | up to 4.0 kW                          | Carbon Steel                                  | Ø6                                     |
| 137-1  | Impeller spacer                  | EN 1.4301 (AISI 304)                  |   |  |
| 140    | Coupling                         | up to 4.0 kW                          | Die cast Aluminium EN AB-AISI11Cu2 (Fe)       |  |
| 162    | Motor bracket                    | Cast iron EN-G.JL-250                 |   |  |
| 212    | Priming plug                     | EN 1.4301 (AISI 304)                  | G 3/8   |  |
| 212-1  | Drainage plug                    | EN 1.4301 (AISI 304)                  | G 3/8   |  |
| 212-2  | Venting plug                     | EN 1.4404 (AISI 316L)                 |   |  |
| 219    | Counter flange                   | flange type: N<br>flange type: F      | Galvanized steel<br>Cast Iron EN-G.JL-250     |  |
| 245    | Coupling guard                   | EN 1.4301 (AISI 304)                  |   |  |
| 273-1  | Washer (drainage plug)           | EN 1.4301 (AISI 304)                  |   |  |

### QUANTITY FOR MODEL EVMSG1

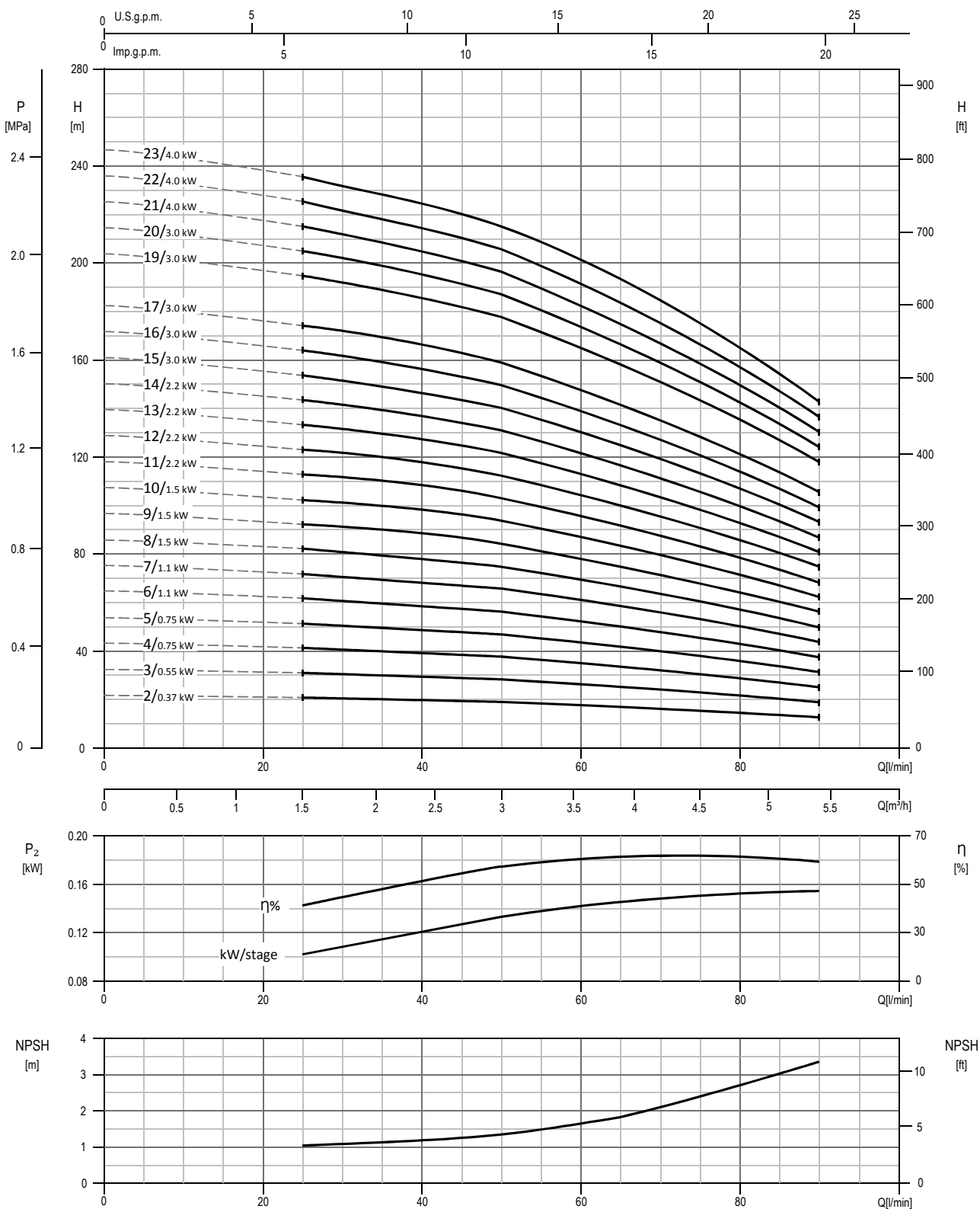
| Pump Type      | N° |     |    |    |    |   |   |    |    |      |      |      |      |      |      |    |    |    |      |    |      |     |     |       |       |       |       |       |       |
|----------------|----|-----|----|----|----|---|---|----|----|------|------|------|------|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|-------|-------|
|                | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31 | 32-1 | 43-2 | 43-3 | 43-5 | 43-7 | 44-1 | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 |
| EVMSG1 2/0.37  | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1  | 1    | 1    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 2   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 3/0.37  | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1  | 1    | 3    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 3   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 4/0.37  | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1  | 1    | 5    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 4   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 5/0.37  | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1  | 1    | 7    | 1    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 5   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 6/0.55  | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1  | 1    | 9    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 6   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 7/0.55  | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1  | 1    | 11   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 7   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 8/0.75  | 1  | 1   | 6  | 1  | 1  | 1 | 1 | 8  | 1  | 1    | 13   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 8   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 9/0.75  | 1  | 1   | 7  | 1  | 1  | 1 | 1 | 9  | 1  | 1    | 15   | 1    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 9   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 10/0.75 | 1  | 1   | 8  | 1  | 1  | 1 | 1 | 10 | 1  | 1    | 17   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 10  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 11/1.1  | 1  | 1   | 9  | 1  | 1  | 1 | 1 | 11 | 1  | 1    | 19   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 11  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 12/1.1  | 1  | 1   | 10 | 1  | 1  | 1 | 1 | 12 | 1  | 1    | 21   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 12  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 13/1.1  | 1  | 1   | 10 | 2  | 1  | 1 | 1 | 13 | 1  | 1    | 20   | 2    | 1    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 13  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 14/1.1  | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1  | 1    | 22   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 14  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 16/1.5  | 1  | 1   | 13 | 2  | 1  | 1 | 1 | 16 | 1  | 1    | 26   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 16  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 18/1.5  | 1  | 1   | 15 | 2  | 1  | 1 | 1 | 18 | 1  | 1    | 30   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 18  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 20/1.5  | 1  | 1   | 17 | 2  | 1  | 1 | 1 | 20 | 1  | 1    | 34   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 20  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 22/2.2  | 1  | 1   | 19 | 2  | 1  | 1 | 1 | 22 | 1  | 1    | 38   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 22  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 24/2.2  | 1  | 1   | 21 | 2  | 1  | 1 | 1 | 24 | 1  | 1    | 42   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 24  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 26/2.2  | 1  | 1   | 23 | 2  | 1  | 1 | 1 | 26 | 1  | 1    | 46   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 26  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 27/2.2  | 1  | 1   | 24 | 2  | 1  | 1 | 1 | 27 | 1  | 1    | 48   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 27  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG1 29/2.2  | 1  | 1   | 26 | 2  | 1  | 1 | 1 | 29 | 1  | 1    | 52   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 29  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |

| Pump Type      | N°   |       |       |       |         |        |       |       |       |       |       |       |       |       |     |     |     |       |       |      |     |       |
|----------------|------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-------|-------|------|-----|-------|
|                | 117* | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 |
| EVMSG1 2/0.37  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG1 3/0.37  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG1 4/0.37  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG1 5/0.37  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG1 6/0.55  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG1 7/0.55  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG1 8/0.75  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG1 9/0.75  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG1 10/0.75 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG1 11/1.1  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG1 12/1.1  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG1 13/1.1  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG1 14/1.1  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG1 16/1.5  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG1 18/1.5  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG1 20/1.5  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG1 22/2.2  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG1 24/2.2  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG1 26/2.2  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG1 27/2.2  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG1 29/2.2  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |

\* only for Oval flange (N)

PERFORMANCE CURVE  
EVMS(L)3

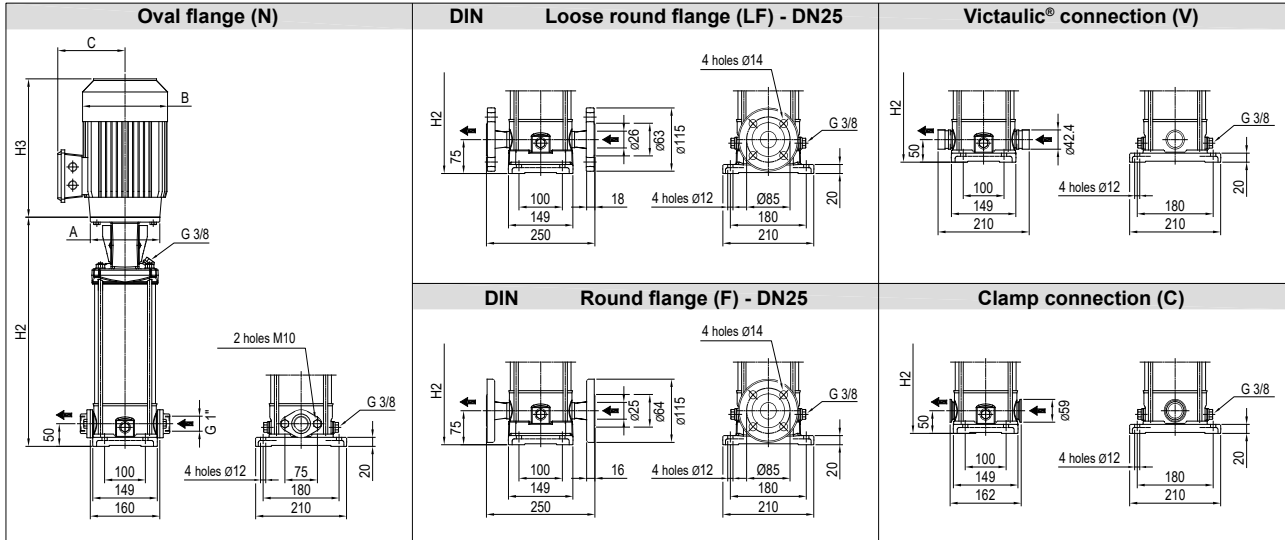
EVMS(L)3



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)3

#### Dimensional sketch

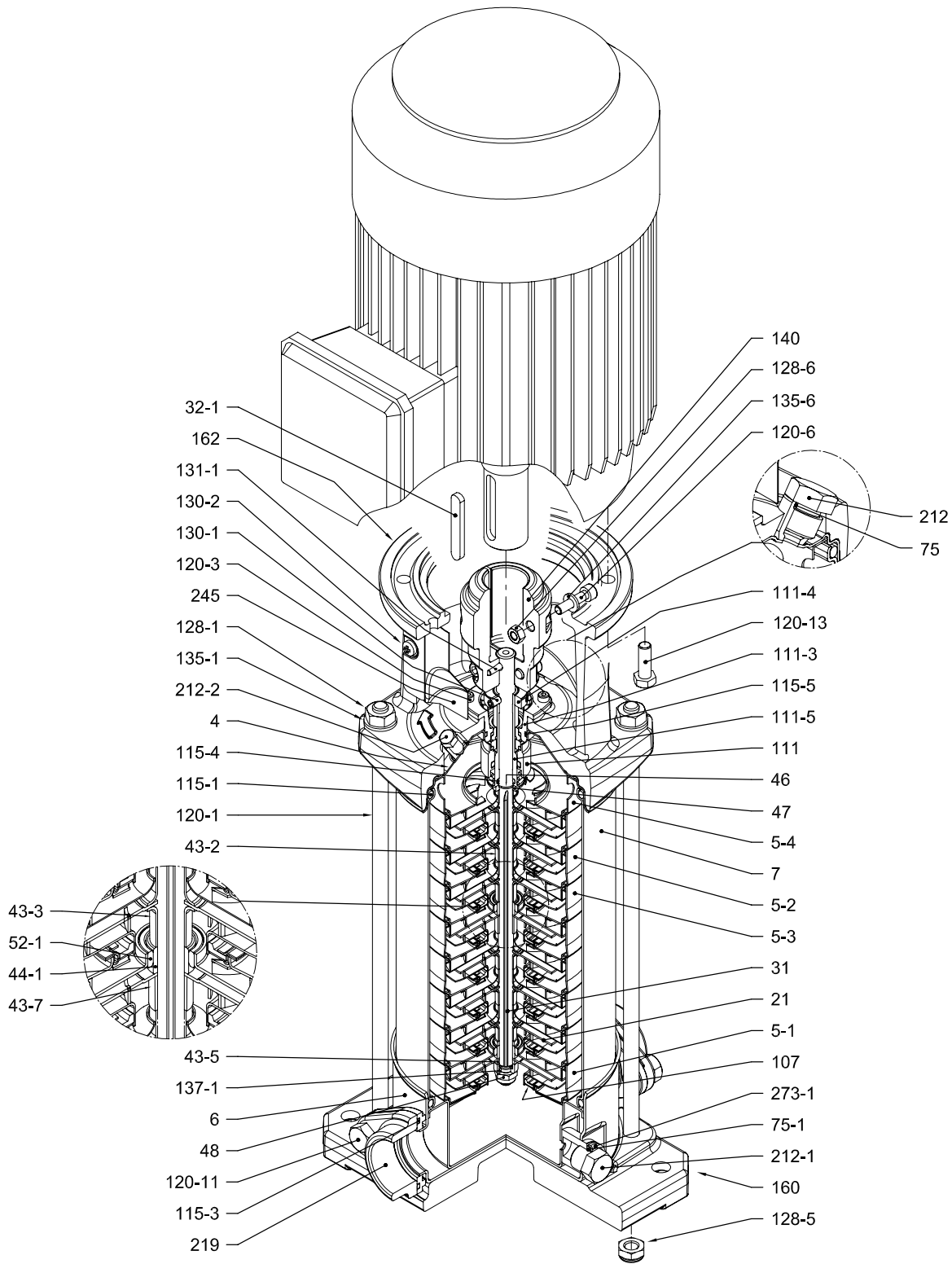


#### Dimensions [mm] and Weights [Kg]

| Pump Type       | Pmax [MPa] | Motor |      |     | Oval flange (N) |     |       |             | Loose round flange (LF)<br>Round flange (F) |      |       |             | Victaulic® connection (V)<br>Clamp connection (C) |      |       |             |                     |      |
|-----------------|------------|-------|------|-----|-----------------|-----|-------|-------------|---|------|-------|-------------|---|------|-------|-------------|---------------------|------|
|                 |            | kW    | Size | A   | 3 ~             | H2  | H2+H3 | Weight Pump | Weight Pump + Motor                         | H2   | H2+H3 | Weight Pump | Weight Pump + Motor                               | H2   | H2+H3 | Weight Pump | Weight Pump + Motor |      |
|                 |            |       | Ø    | B   | C               |     |       |             |   |      |       |             |   |      |       |             |                     |      |
| EVMS(L)3 2/0.37 | 1.6        | 0.37  | 71   | 105 | 141             | 119 | 250   | 452         | 9.9   | 16.4 | 275   | 477         | 10.6  | 17.1 | 250   | 452         | 9.8                 | 16.3 |
| EVMS(L)3 3/0.55 | 1.6        | 0.55  | 71   | 105 | 141             | 119 | 271   | 473         | 10.3  | 17.3 | 296   | 498         | 11  | 18.0 | 271   | 473         | 10.3                | 17.3 |
| EVMS(L)3 4/0.75 | 1.6        | 0.75  | 80   | 120 | 141             | 102 | 302   | 535         | 11  | 19.5 | 327   | 560         | 11.6  | 20.1 | 302   | 535         | 10.9                | 19.4 |
| EVMS(L)3 5/0.75 | 1.6        | 0.75  | 80   | 120 | 141             | 102 | 323   | 556         | 11.4  | 19.9 | 348   | 581         | 12.1  | 20.6 | 323   | 556         | 11.3                | 19.8 |
| EVMS(L)3 6/1.1  | 1.6        | 1.1   | 80   | 120 | 141             | 102 | 344   | 588         | 11.8  | 21.8 | 369   | 613         | 12.5  | 22.5 | 344   | 588         | 11.7                | 21.7 |
| EVMS(L)3 7/1.1  | 1.6        | 1.1   | 80   | 120 | 141             | 102 | 365   | 609         | 12.2  | 22.2 | 390   | 634         | 12.9  | 22.9 | 365   | 609         | 12.2                | 22.2 |
| EVMS(L)3 8/1.5  | 1.6        | 1.5   | 90   | 140 | 160             | 119 | 396   | 687         | 12.7  | 26.2 | 421   | 712         | 13.3  | 26.8 | 396   | 687         | 12.6                | 26.1 |
| EVMS(L)3 9/1.5  | 1.6        | 1.5   | 90   | 140 | 160             | 119 | 417   | 708         | 13.1  | 26.6 | 442   | 733         | 13.7  | 27.2 | 417   | 708         | 13                  | 26.5 |
| EVMS(L)3 10/1.5 | 1.6        | 1.5   | 90   | 140 | 160             | 119 | 438   | 729         | 13.5  | 27.0 | 463   | 754         | 14.2  | 27.7 | 438   | 729         | 13.4                | 26.9 |
| EVMS(L)3 11/2.2 | 1.6        | 2.2   | 90   | 140 | 160             | 119 | 459   | 750         | 13.9  | 28.9 | 484   | 775         | 14.6  | 29.6 | 459   | 750         | 13.8                | 28.8 |
| EVMS(L)3 12/2.2 | 1.6        | 2.2   | 90   | 140 | 160             | 119 | 480   | 771         | 14.3  | 29.3 | 505   | 796         | 14.9  | 29.9 | 480   | 771         | 14.2                | 29.2 |
| EVMS(L)3 13/2.2 | 1.6        | 2.2   | 90   | 140 | 160             | 119 | 501   | 792         | 15  | 30.0 | 526   | 817         | 15.7  | 30.7 | 501   | 792         | 15                  | 30.0 |
| EVMS(L)3 14/2.2 | 1.6        | 2.2   | 90   | 140 | 160             | 119 | 522   | 813         | 15.4  | 30.4 | 547   | 838         | 16.1  | 31.1 | 522   | 813         | 15.4                | 30.4 |
| EVMS(L)3 15/3.0 | 1.6        | 3.0   | 100  | 160 | 176             | 123 | 553   | 895         | 16.0  | 38.0 | 578   | 920         | 16.6  | 38.6 | 553   | 895         | 15.9                | 37.9 |
| EVMS(L)3 16/3.0 | 2.5        | 3.0   | 100  | 160 | 176             | 123 | -     | -           | -   | -    | 599   | 941         | 17.6  | 39.6 | 574   | 916         | 16.9                | 38.9 |
| EVMS(L)3 17/3.0 | 2.5        | 3.0   | 100  | 160 | 176             | 123 | -     | -           | -   | -    | 620   | 962         | 18.1  | 40.1 | 595   | 937         | 17.3                | 39.3 |
| EVMS(L)3 19/3.0 | 2.5        | 3.0   | 100  | 160 | 176             | 123 | -     | -           | -   | -    | 662   | 1004        | 19  | 41.0 | 637   | 979         | 18.2                | 40.2 |
| EVMS(L)3 20/3.0 | 2.5        | 3.0   | 100  | 160 | 176             | 123 | -     | -           | -   | -    | 683   | 1025        | 19.4  | 41.4 | 658   | 1000        | 18.7                | 40.7 |
| EVMS(L)3 21/4.0 | 2.5        | 4.0   | 112  | 160 | 193             | 138 | -     | -           | -   | -    | 704   | 1068        | 19.9  | 48.4 | 679   | 1043        | 19.1                | 47.6 |
| EVMS(L)3 22/4.0 | 2.5        | 4.0   | 112  | 160 | 193             | 138 | -     | -           | -   | -    | 725   | 1089        | 20.3  | 48.8 | 700   | 1064        | 19.6                | 48.1 |
| EVMS(L)3 23/4.0 | 2.5        | 4.0   | 112  | 160 | 193             | 138 | -     | -           | -   | -    | 746   | 1110        | 20.8  | 49.3 | 721   | 1085        | 20                  | 48.5 |

1.6 MPa=16 bar;      2.5 MPa=25 bar  
- not available model

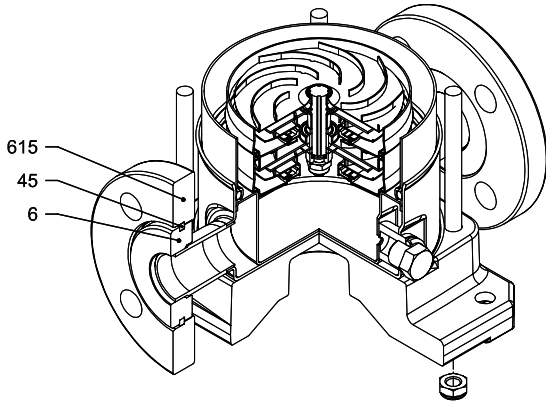
SECTIONAL VIEW  
EVMS(L)3



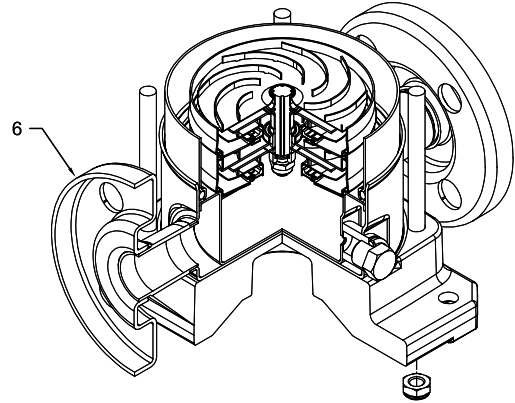
with Oval flange (N)



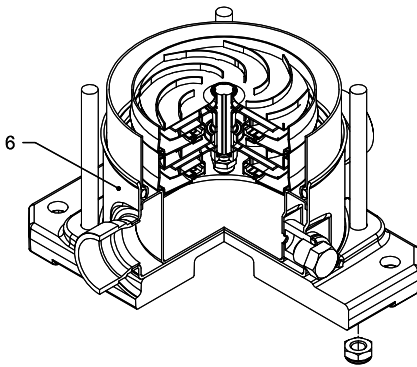
### PIPE CONNECTION EVMS(L)3



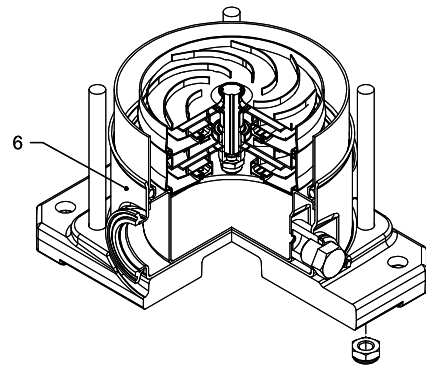
with Loose round flange (LF)



with Round flange (F)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE  
EVMS(L)3

| N°     | PART NAME                        | MATERIAL                                 |   | DIMENSIONS                                     | STANDARD             |
|--------|----------------------------------|--|---|--|----------------------|
|        |                                  | EVMS                                     | EVMSL   |  |                      |
| 4      | Casing cover                     | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 5-1    | Suction casing                   | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 5-2    | Intermediate casing              | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 5-3    | Intermediate casing with bearing | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 5-4    | Discharge casing                 | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 6      | Bottom casing                    | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 7      | Outer casing                     | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 21     | Impeller                         | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 31     | Shaft                            | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 32-1   | Adjuster key                     | EN 1.4301 (AISI 304)                     |   |  |                      |
| 43-2   | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 43-3   | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 43-5   | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 43-7   | Spacer                           | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 44-1   | Shaft sleeve bearing             | Tungsten carbide                         |   |  |                      |
| 45     | Flange holder                    | EN 1.4301 (AISI 304)                     |   |  |                      |
| 46     | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                    |   |  |                      |
| 47     | Ring holder                      | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 48     | Impeller nut                     | EN 1.4301 (AISI 304)<br>with inox insert | EN 1.4401 (AISI 316)<br>with inox insert      | M8   |                      |
| 52-1   | Sleeve bearing                   | Tungsten carbide                         |   |  |                      |
| 75     | O-Ring (priming plug)            | EPDM / FPM                               |   | Ø12.37x2.62                                    | OR 3050              |
| 75-1   | O-Ring (drainage plug)           | EPDM / FPM                               |   |  |                      |
| 107    | Liner ring                       | EN 1.4301 (AISI 304) + PPS               | EN 1.4404 (AISI 316L) + PPS                   |  |                      |
| 111    | Mechanical seal                  | see pages 6-7                            |   |  |                      |
| 111-3  | Mechanical seal seat             | EN 1.4308 (ASTM CF8)                     | EN 1.4408 (ASTM CF8M)                         |  |                      |
| 111-4  | Seal holder                      | EN 1.4301 (AISI 304)                     |   |  |                      |
| 111-5  | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 115-1  | O-Ring (outer casing)            | EPDM / FPM                               |   | Ø129.54x5.34                                   | OR 6945              |
| 115-3  | O-Ring                           | EPDM / FPM                               |   |  |                      |
| 115-4  | O-Ring (cartridge sleeve)        | EPDM / FPM                               |   | Ø11.91x2.62                                    | OR 4093              |
| 115-5  | O-Ring (seal flange)             | EPDM / FPM                               |   | Ø32.99x2.62                                    | OR 4175              |
| 120-1  | Tie-rod                          | EN 1.4057 (AISI 431)                     |   | M10  |                      |
| 120-3  | Screw (seal flange)              | A2-70                                    |   | M4x10  | ISO 4762             |
| 120-6  | Screw (pump coupling)            | Galvanized steel                         |   | M6x25  | ISO 4762             |
| 120-11 | Screw (counterflange)            | A2-70                                    |   |  |                      |
| 120-13 | Screw for motor                  | MEC 71-80<br>MEC 90-100                  | Galvanized steel 8.8 strength class ISO 898/1 | M6x20<br>M8x20                                 | ISO 4017<br>ISO 4017 |
| 128-1  | Nut (tie rod)                    | A2-70                                    |   | M10  | ISO 4032             |
| 128-5  | Nut (tie rod)                    | A2-70                                    |   | M10  | UNI 7474             |
| 128-6  | Nut (aluminium coupling)         | MEC 71-80-90-100-112                     | Galvanized steel                              | M6   | ISO 4032             |
| 130-1  | Set screw                        | EN 1.4301 (AISI 304)                     |   | M5x8   | ISO 4026             |
| 130-2  | Screw for coupling guard         | A2-70                                    |   | M5x6   | UNI 7687             |
| 131-1  | Pin for shaft                    | Carbon Steel                             |   | Ø4x32  | ISO 2338             |
| 135-1  | Washer (tie rod)                 | EN 1.4301 (AISI 304)                     |   | Ø10.5x21x2                                     | ISO 7089             |
| 135-6  | Washer (aluminium coupling)      | up to 4.0 kW                             | Carbon Steel                                  | Ø6   |                      |
| 137-1  | Impeller spacer                  | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |  |                      |
| 140    | Coupling                         | up to 4.0 kW                             | Die cast Aluminium EN AB-AISI11Cu2 (Fe)       |  |                      |
| 160    | Base                             |  | Die cast Aluminium EN AB-AISI11Cu2 (Fe)       |  |                      |
| 162    | Motor bracket                    |  | Cast iron EN-GJL-250                          |  |                      |
| 212    | Priming plug                     | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         | G 3/8  |                      |
| 212-1  | Drainage plug                    | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         | G 3/8  |                      |
| 212-2  | Venting plug                     | EN 1.4404 (AISI 316L)                    |   |  |                      |
| 219    | Counter flange                   | flange type: N<br>flange type: LF-F-V-C  | EN 1.4308 (ASTM CF8)<br>EN 1.4301 (AISI 304)  | EN 1.4408 (ASTM CF8M)<br>EN 1.4404 (AISI 316L) |                      |
| 245    | Coupling guard                   | EN 1.4301 (AISI 304)                     |   |  |                      |
| 273-1  | Washer (drainage plug)           | EN 1.4301 (AISI 304)                     |   | EN 1.4404 (AISI 316L)                          |                      |
| 615    | Flange                           | Nodular Cast Iron                        |   |  |                      |

### QUANTITY FOR MODEL EVMS(L)3

| Pump Type       | N° |     |    |    |    |   |   |    |    |      |      |      |      |      |      |     |    |    |    |      |    |      |     |     |       |       |       |       |        |       |       |   |   |
|-----------------|----|-----|----|----|----|---|---|----|----|------|------|------|------|------|------|-----|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|--------|-------|-------|---|---|
|                 | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31 | 32-1 | 43-2 | 43-3 | 43-5 | 43-7 | 44-1 | 45* | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-3* | 115-4 | 115-5 |   |   |
| EVMS(L)3 2/0.37 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1  | 1    | 1    | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 4    | 2   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |   |
| EVMS(L)3 3/0.55 | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1  | 1    | 3    | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 4    | 3   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |   |
| EVMS(L)3 4/0.75 | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1  | 1    | 5    | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 4    | 4   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |   |
| EVMS(L)3 5/0.75 | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1  | 1    | 7    | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 4    | 5   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |   |
| EVMS(L)3 6/1.1  | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1  | 1    | 9    | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 4    | 6   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |   |
| EVMS(L)3 7/1.1  | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1  | 1    | 11   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 4    | 7   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |   |
| EVMS(L)3 8/1.5  | 1  | 1   | 6  | 1  | 1  | 1 | 1 | 8  | 1  | 1    | 13   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 4    | 8   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |   |
| EVMS(L)3 9/1.5  | 1  | 1   | 7  | 1  | 1  | 1 | 1 | 9  | 1  | 1    | 15   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 4    | 9   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |   |
| EVMS(L)3 10/1.5 | 1  | 1   | 8  | 1  | 1  | 1 | 1 | 10 | 1  | 1    | 17   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 4    | 10  | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |   |
| EVMS(L)3 11/2.2 | 1  | 1   | 9  | 1  | 1  | 1 | 1 | 11 | 1  | 1    | 19   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 4    | 11  | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |   |
| EVMS(L)3 12/2.2 | 1  | 1   | 10 | 1  | 1  | 1 | 1 | 12 | 1  | 1    | 21   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 4    | 12  | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |   |
| EVMS(L)3 13/2.2 | 1  | 1   | 10 | 2  | 1  | 1 | 1 | 13 | 1  | 1    | 20   | 1    | 1    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 4    | 13  | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |   |
| EVMS(L)3 14/2.2 | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1  | 1    | 22   | 1    | /    | /    | 1    | 2   | 4  | 2  | 1  | 1    | 2  | 1    | 4   | 14  | 1     | 1     | 1     | 1     | 1      | 2     | 2     | 1 | 1 |
| EVMS(L)3 15/3.0 | 1  | 1   | 12 | 2  | 1  | 1 | 1 | 15 | 1  | 1    | 24   | 1    | /    | /    | 1    | 2   | 4  | 2  | 1  | 1    | 2  | 1    | 4   | 15  | 1     | 1     | 1     | 1     | 1      | 2     | 2     | 1 | 1 |
| EVMS(L)3 16/3.0 | 1  | 1   | 13 | 2  | 1  | 1 | 1 | 16 | 1  | 1    | 26   | 1    | /    | /    | 1    | 2   | 4  | 2  | 1  | 1    | 2  | 1    | 4   | 16  | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |   |
| EVMS(L)3 17/3.0 | 1  | 1   | 14 | 2  | 1  | 1 | 1 | 17 | 1  | 1    | 28   | 1    | 1    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 4    | 17  | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |   |
| EVMS(L)3 19/3.0 | 1  | 1   | 16 | 2  | 1  | 1 | 1 | 19 | 1  | 1    | 32   | 1    | /    | /    | 1    | 2   | 4  | 2  | 1  | 1    | 2  | 1    | 4   | 19  | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |   |
| EVMS(L)3 20/3.0 | 1  | 1   | 17 | 2  | 1  | 1 | 1 | 20 | 1  | 1    | 34   | 1    | /    | /    | 1    | 2   | 4  | 2  | 1  | 1    | 2  | 1    | 4   | 20  | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |   |
| EVMS(L)3 21/4.0 | 1  | 1   | 18 | 2  | 1  | 1 | 1 | 21 | 1  | 1    | 36   | 1    | 1    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 4    | 21  | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |   |
| EVMS(L)3 22/4.0 | 1  | 1   | 19 | 2  | 1  | 1 | 1 | 22 | 1  | 1    | 38   | 1    | /    | /    | 1    | 2   | 4  | 2  | 1  | 1    | 2  | 1    | 4   | 22  | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |   |
| EVMS(L)3 23/4.0 | 1  | 1   | 20 | 2  | 1  | 1 | 1 | 23 | 1  | 1    | 40   | 1    | /    | /    | 1    | 2   | 4  | 2  | 1  | 1    | 2  | 1    | 4   | 23  | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |   |

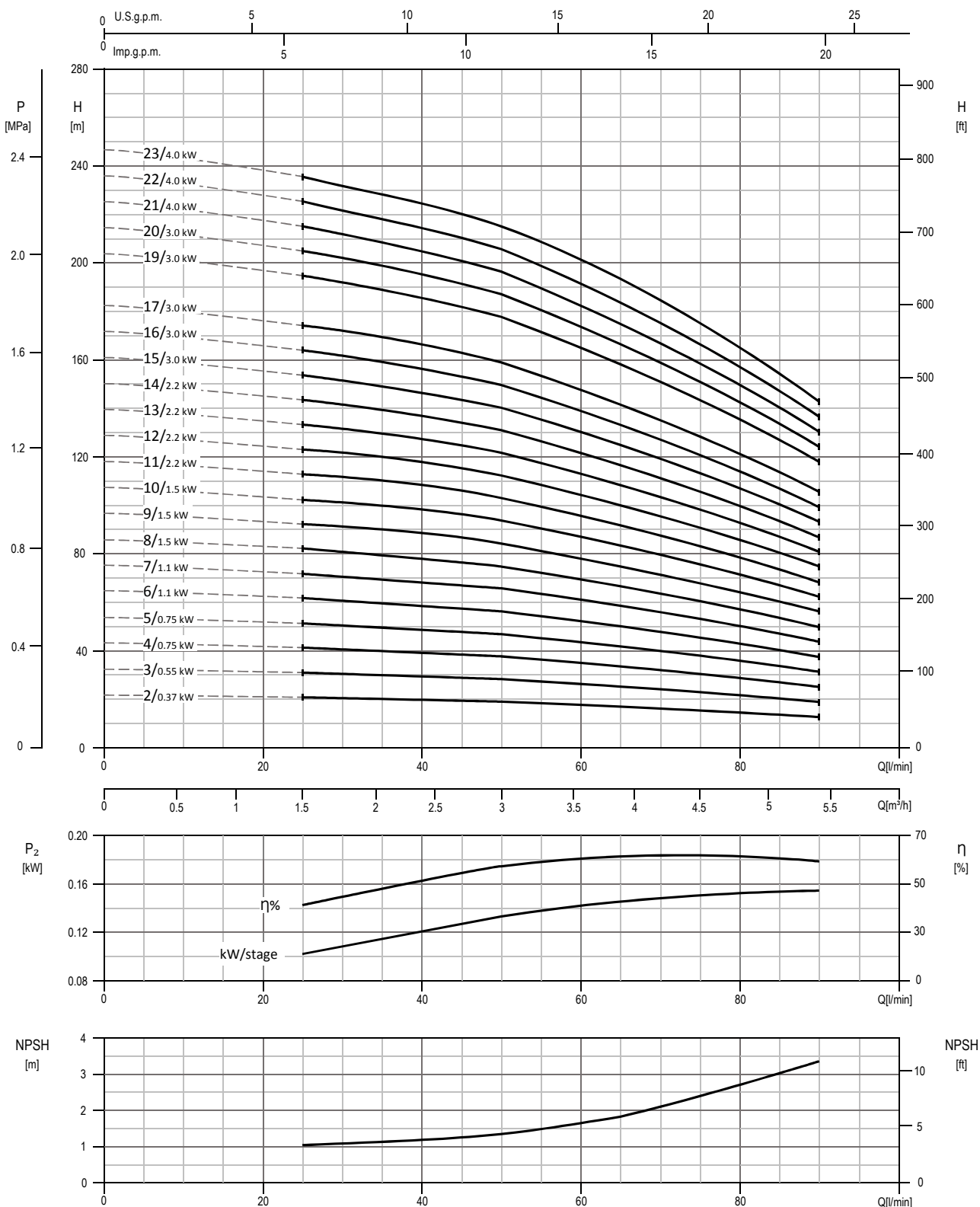
| Pump Type       | N°    |       |       |         |        |       |       |       |       |       |       |       |       |       |     |     |     |     |       |       |      |     |       |       |
|-----------------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|------|-----|-------|-------|
|                 | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-5 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 160 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 | 615** |
| EVMS(L)3 2/0.37 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)3 3/0.55 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)3 4/0.75 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)3 5/0.75 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)3 6/1.1  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)3 7/1.1  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)3 8/1.5  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)3 9/1.5  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)3 10/1.5 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)3 11/2.2 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)3 12/2.2 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)3 13/2.2 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)3 14/2.2 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)3 15/3.0 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)3 16/3.0 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)3 17/3.0 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)3 19/3.0 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)3 20/3.0 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)3 21/4.0 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)3 22/4.0 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)3 23/4.0 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |

\* only for Oval flange (N)

\*\* only for Loose round flange (LF)

PERFORMANCE CURVE  
EVMSG3

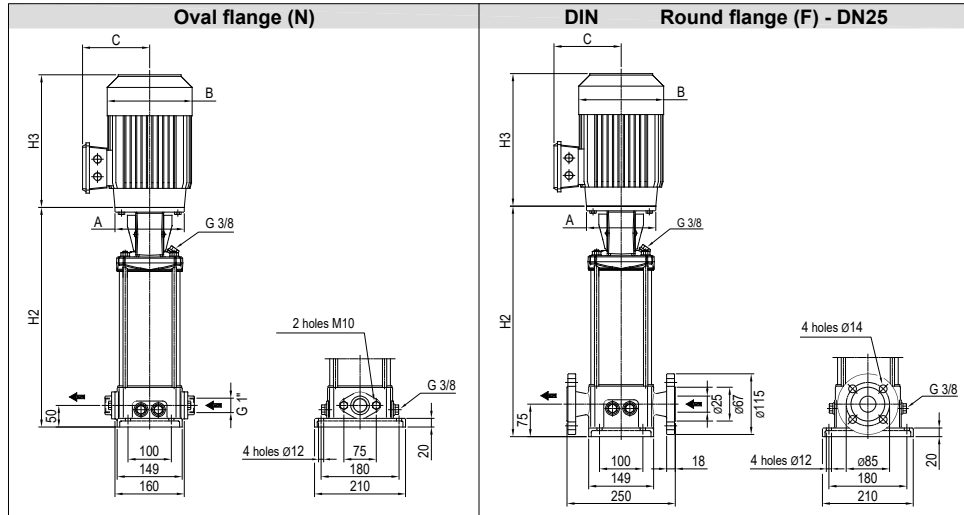
EVMSG3



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMSG3

#### Dimensional sketch

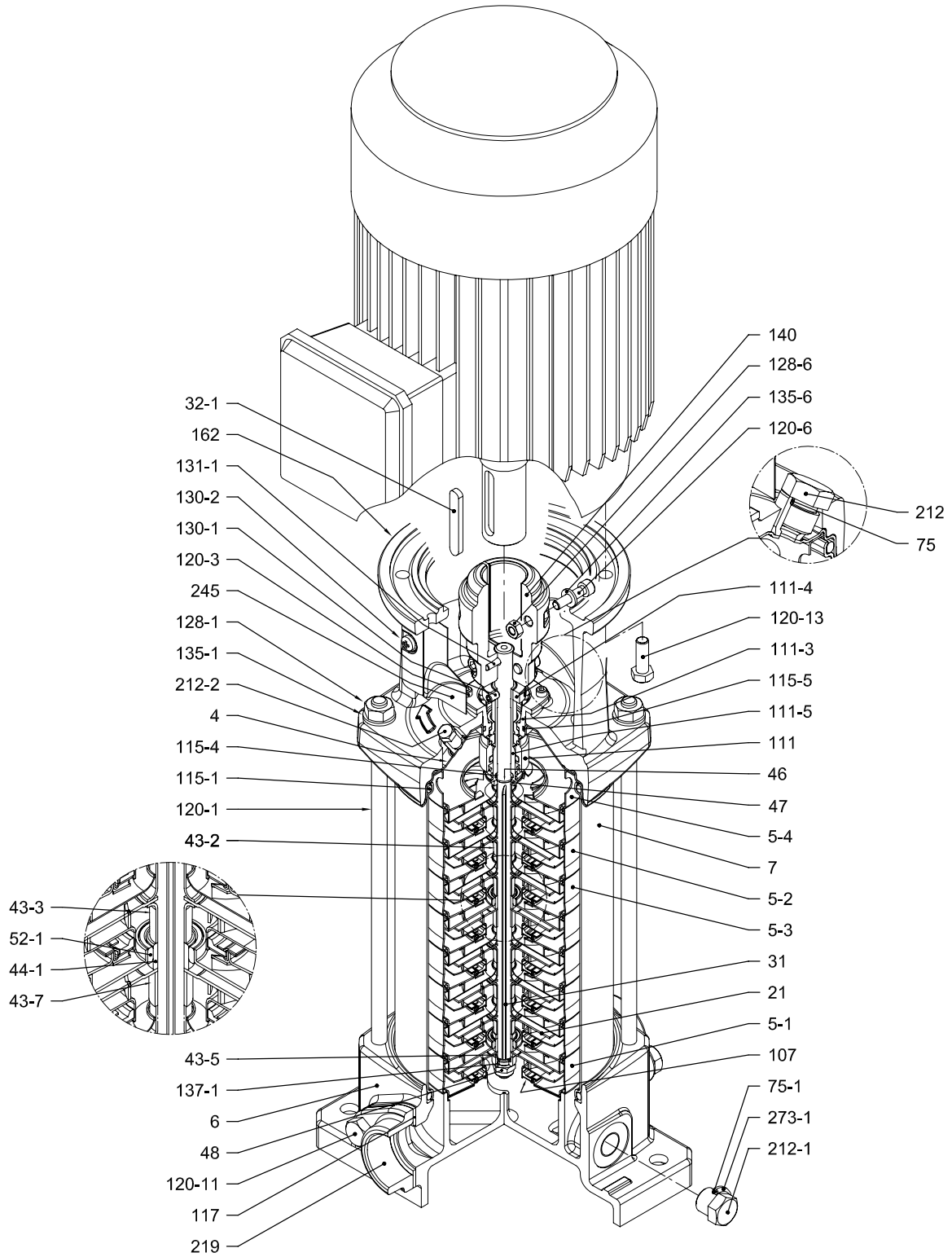


#### Dimensions [mm] and Weights [Kg]

| Pump Type     | P <sub>max</sub> [MPa] | Motor |      |        |            | Oval flange (N) |       |                |                           | Round flange (F) |       |                |                           |      |
|---------------|------------------------|-------|------|--------|------------|-----------------|-------|----------------|---------------------------|------------------|-------|----------------|---------------------------|------|
|               |                        | kW    | Size | A<br>Ø | 3 ~<br>B C | H2              | H2+H3 | Weight<br>Pump | Weight<br>Pump +<br>Motor | H2               | H2+H3 | Weight<br>Pump | Weight<br>Pump +<br>Motor |      |
| EVMSG3 2/0.37 | 1.6                    | 0.37  | 71   | 105    | 141        | 119             | 250   | 452            | 12.3                      | 18.8             | 275   | 477            | 15.7                      | 22.2 |
| EVMSG3 3/0.55 | 1.6                    | 0.55  | 71   | 105    | 141        | 119             | 271   | 473            | 12.7                      | 19.7             | 296   | 498            | 16.1                      | 23.1 |
| EVMSG3 4/0.75 | 1.6                    | 0.75  | 80   | 120    | 141        | 102             | 302   | 535            | 13.4                      | 21.9             | 327   | 560            | 16.8                      | 25.3 |
| EVMSG3 5/0.75 | 1.6                    | 0.75  | 80   | 120    | 141        | 102             | 323   | 556            | 13.8                      | 22.3             | 348   | 581            | 17.2                      | 25.7 |
| EVMSG3 6/1.1  | 1.6                    | 1.1   | 80   | 120    | 141        | 102             | 344   | 588            | 14.2                      | 24.2             | 369   | 613            | 17.6                      | 27.6 |
| EVMSG3 7/1.1  | 1.6                    | 1.1   | 80   | 120    | 141        | 102             | 365   | 609            | 14.6                      | 24.6             | 390   | 634            | 18                        | 28.0 |
| EVMSG3 8/1.5  | 1.6                    | 1.5   | 90   | 140    | 160        | 119             | 396   | 687            | 15                        | 28.5             | 421   | 712            | 18.4                      | 31.9 |
| EVMSG3 9/1.5  | 1.6                    | 1.5   | 90   | 140    | 160        | 119             | 417   | 708            | 15.5                      | 29.0             | 442   | 733            | 18.9                      | 32.4 |
| EVMSG3 10/1.5 | 1.6                    | 1.5   | 90   | 140    | 160        | 119             | 438   | 729            | 15.9                      | 29.4             | 463   | 754            | 19.3                      | 32.8 |
| EVMSG3 11/2.2 | 1.6                    | 2.2   | 90   | 140    | 160        | 119             | 459   | 750            | 16.3                      | 31.3             | 484   | 775            | 19.7                      | 34.7 |
| EVMSG3 12/2.2 | 1.6                    | 2.2   | 90   | 140    | 160        | 119             | 480   | 771            | 16.6                      | 31.6             | 505   | 796            | 20                        | 35.0 |
| EVMSG3 13/2.2 | 1.6                    | 2.2   | 90   | 140    | 160        | 119             | 501   | 792            | 17.4                      | 32.4             | 526   | 817            | 20.8                      | 35.8 |
| EVMSG3 14/2.2 | 1.6                    | 2.2   | 90   | 140    | 160        | 119             | 522   | 813            | 17.8                      | 32.8             | 547   | 838            | 21.2                      | 36.2 |
| EVMSG3 15/3.0 | 1.6                    | 3.0   | 100  | 160    | 176        | 123             | 553   | 895            | 18.3                      | 40.3             | 578   | 920            | 21.7                      | 43.7 |
| EVMSG3 16/3.0 | 2.5                    | 3.0   | 100  | 160    | 176        | 123             | -     | -              | -                         | -                | 599   | 941            | 22.7                      | 44.7 |
| EVMSG3 17/3.0 | 2.5                    | 3.0   | 100  | 160    | 176        | 123             | -     | -              | -                         | -                | 620   | 962            | 23.2                      | 45.2 |
| EVMSG3 19/3.0 | 2.5                    | 3.0   | 100  | 160    | 176        | 123             | -     | -              | -                         | -                | 662   | 1004           | 24.1                      | 46.1 |
| EVMSG3 20/3.0 | 2.5                    | 3.0   | 100  | 160    | 176        | 123             | -     | -              | -                         | -                | 683   | 1025           | 24.5                      | 46.5 |
| EVMSG3 21/4.0 | 2.5                    | 4.0   | 112  | 160    | 193        | 138             | -     | -              | -                         | -                | 704   | 1068           | 25                        | 53.5 |
| EVMSG3 22/4.0 | 2.5                    | 4.0   | 112  | 160    | 193        | 138             | -     | -              | -                         | -                | 725   | 1089           | 25.4                      | 53.9 |
| EVMSG3 23/4.0 | 2.5                    | 4.0   | 112  | 160    | 193        | 138             | -     | -              | -                         | -                | 746   | 1110           | 25.9                      | 54.4 |

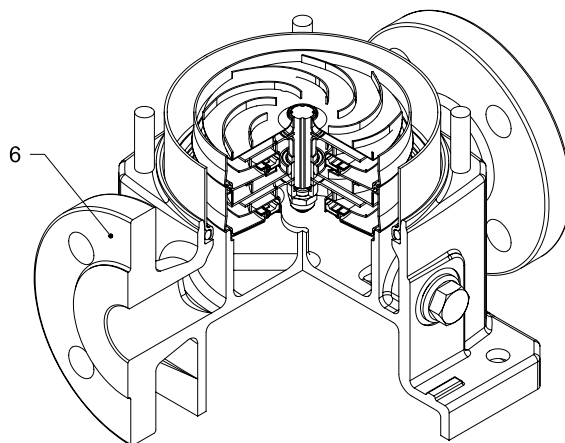
1.6 MPa=16 bar;      2.5 MPa=25 bar  
- not available model

SECTIONAL VIEW  
EVMSG3



with Oval flange (N)

### PIPE CONNECTION EVMSG3



with Round flange (F)

SECTIONAL TABLE  
EVMSG3

| N°     | PART NAME                        | MATERIAL<br>EVMSG                     | DIMENSIONS                                    | STANDARD                               |
|--------|----------------------------------|---------------------------------------|---|--|
| 4      | Casing cover                     | EN 1.4301 (AISI 304)                  |   |  |
| 5-1    | Suction casing                   | EN 1.4301 (AISI 304)                  |   |  |
| 5-2    | Intermediate casing              | EN 1.4301 (AISI 304)                  |   |  |
| 5-3    | Intermediate casing with bearing | EN 1.4301 (AISI 304)                  |   |  |
| 5-4    | Discharge casing                 | EN 1.4301 (AISI 304)                  |   |  |
| 6      | Bottom casing                    | Cast Iron EN GJL-250                  |   |  |
| 7      | Outer casing                     | EN 1.4301 (AISI 304)                  |   |  |
| 21     | Impeller                         | EN 1.4301 (AISI 304)                  |   |  |
| 31     | Shaft                            | EN 1.4301 (AISI 304)                  |   |  |
| 32-1   | Adjuster key                     | EN 1.4301 (AISI 304)                  |   |  |
| 43-2   | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                  |   |  |
| 43-3   | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                  |   |  |
| 43-5   | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                  |   |  |
| 43-7   | Spacer                           | EN 1.4301 (AISI 304)                  |   |  |
| 44-1   | Shaft sleeve bearing             | Tungsten carbide                      |   |  |
| 46     | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                 |   |  |
| 47     | Ring holder                      | EN 1.4404 (AISI 316L)                 |   |  |
| 48     | Impeller nut                     | EN 1.4301 (AISI 304) with inox insert | M8  |  |
| 52-1   | Sleeve bearing                   | Tungsten carbide                      |   |  |
| 75     | O-Ring (priming plug)            | EPDM / FPM                            | Ø12.37x2.62                                   | OR 3050                                |
| 75-1   | O-Ring (drainage plug)           | EPDM / FPM                            |   |  |
| 107    | Liner ring                       | EN 1.4301 (AISI 304) + PPS            |   |  |
| 111    | Mechanical seal                  | see pages 6-7                         |   |  |
| 111-3  | Mechanical seal seat             | EN 1.4308 (ASTM CF8)                  |   |  |
| 111-4  | Seal holder                      | EN 1.4301 (AISI 304)                  |   |  |
| 111-5  | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                  |   |  |
| 115-1  | O-Ring (outer casing)            | EPDM / FPM                            | Ø129.54x5.34                                  | OR 6945                                |
| 115-4  | O-Ring (cartridge sleeve)        | EPDM / FPM                            | Ø11.91x2.62                                   | OR 4093                                |
| 115-5  | O-Ring (seal flange)             | EPDM / FPM                            | Ø32.99x2.62                                   | OR 4175                                |
| 117    | Flange gasket                    | EPDM / FPM                            |   |  |
| 120-1  | Tie-rod                          | EN 1.4057 (AISI 431)                  | M10   |  |
| 120-3  | Screw (seal flange)              | A2-70                                 | M4x10   | ISO 4762                               |
| 120-6  | Screw (pump coupling)            | Galvanized steel                      | M6x25   | ISO 4762                               |
| 120-11 | Screw (counterflange)            | A2-70                                 |   |  |
| 120-13 | Screw for motor                  | MEC 71-80<br>MEC 90-100               | Galvanized steel 8.8 strength class ISO 898/1 | M6x20<br>M8x20<br>ISO 4017<br>ISO 4017 |
| 128-1  | Nut (tie rod)                    | A2-70                                 | M10   | ISO 4032                               |
| 128-6  | Nut (aluminium coupling)         | MEC 71-80-90-100-112                  | Galvanized steel                              | M6<br>ISO 4032                         |
| 130-1  | Set screw                        | EN 1.4301 (AISI 304)                  | M5x8  | ISO 4026                               |
| 130-2  | Screw for coupling guard         | A2-70                                 | M5x6  | UNI 7687                               |
| 131-1  | Pin for shaft                    | Carbon Steel                          | Ø4x32   | ISO 2338                               |
| 135-1  | Washer (tie rod)                 | EN 1.4301 (AISI 304)                  | Ø10.5x21x2                                    | ISO 7089                               |
| 135-6  | Washer (aluminium coupling)      | up to 4.0 kW                          | Carbon Steel                                  | Ø6                                     |
| 137-1  | Impeller spacer                  | EN 1.4301 (AISI 304)                  |   |  |
| 140    | Coupling                         | up to 4.0 kW                          | Die cast Aluminium EN AB-AISI11Cu2 (Fe)       |  |
| 162    | Motor bracket                    | Cast iron EN-GJL-250                  |   |  |
| 212    | Priming plug                     | EN 1.4301 (AISI 304)                  | G 3/8   |  |
| 212-1  | Drainage plug                    | EN 1.4301 (AISI 304)                  | G 3/8   |  |
| 212-2  | Venting plug                     | EN 1.4404 (AISI 316L)                 |   |  |
| 219    | Counter flange                   | flange type: N<br>flange type: F      | Galvanized steel<br>Cast Iron EN-GJL-250      |  |
| 245    | Coupling guard                   | EN 1.4301 (AISI 304)                  |   |  |
| 273-1  | Washer (drainage plug)           | EN 1.4301 (AISI 304)                  |   |  |



### QUANTITY FOR MODEL EVMSG3

2.9

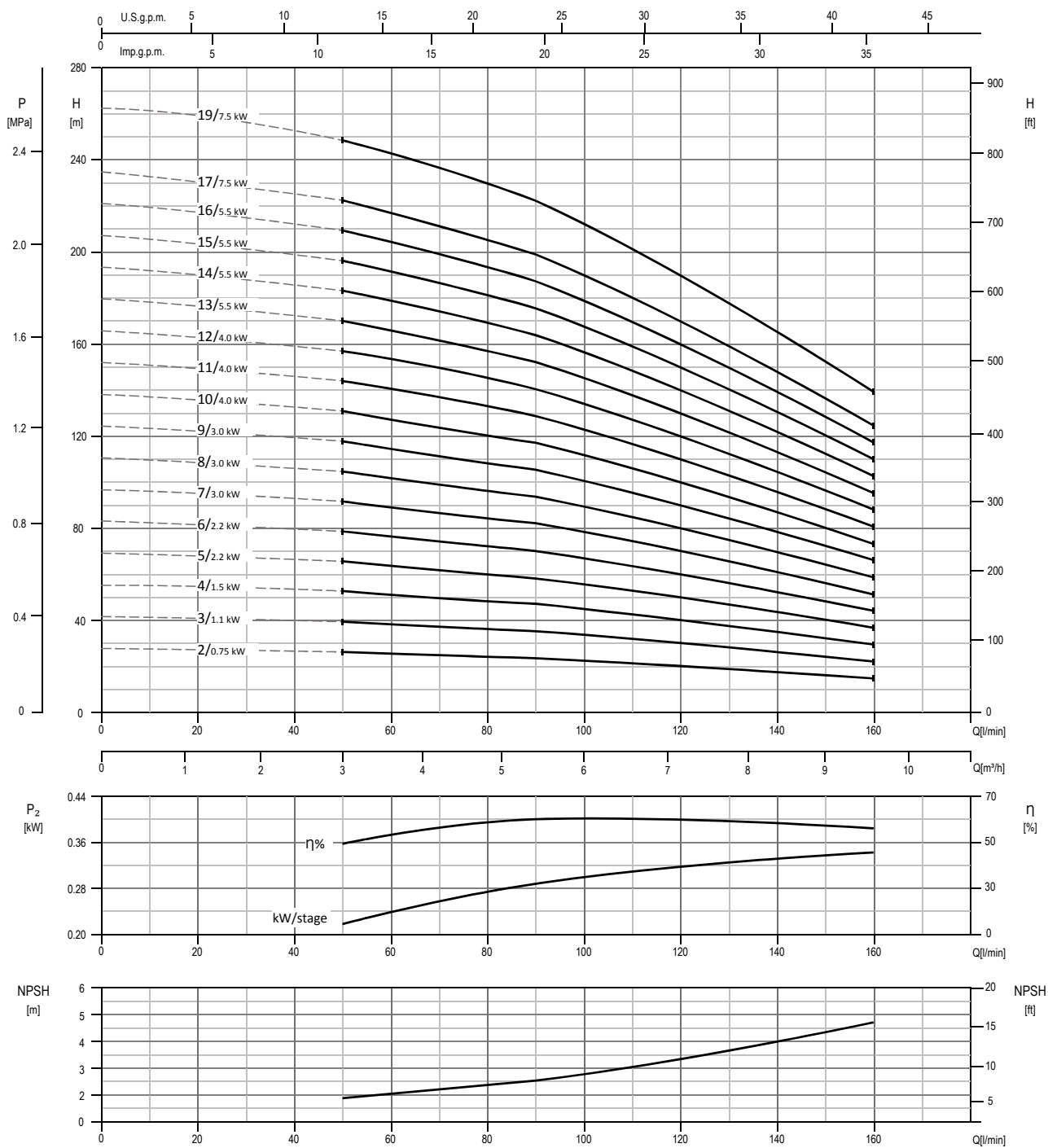
EVMSG3

| Pump Type     | N° |     |    |    |    |   |   |    |    |      |      |      |      |      |      |    |    |    |      |    |      |     |     |       |       |       |       |       |       |
|---------------|----|-----|----|----|----|---|---|----|----|------|------|------|------|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|-------|-------|
|               | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31 | 32-1 | 43-2 | 43-3 | 43-5 | 43-7 | 44-1 | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 |
| EVMSG3 2/0.37 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1  | 1    | 1    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 2   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 3/0.55 | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1  | 1    | 3    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 3   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 4/0.75 | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1  | 1    | 5    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 4   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 5/0.75 | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1  | 1    | 7    | 1    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 5   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 6/1.1  | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1  | 1    | 9    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 6   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 7/1.1  | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1  | 1    | 11   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 7   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 8/1.5  | 1  | 1   | 6  | 1  | 1  | 1 | 1 | 8  | 1  | 1    | 13   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 8   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 9/1.5  | 1  | 1   | 7  | 1  | 1  | 1 | 1 | 9  | 1  | 1    | 15   | 1    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 9   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 10/1.5 | 1  | 1   | 8  | 1  | 1  | 1 | 1 | 10 | 1  | 1    | 17   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 10  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 11/2.2 | 1  | 1   | 9  | 1  | 1  | 1 | 1 | 11 | 1  | 1    | 19   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 11  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 12/2.2 | 1  | 1   | 10 | 1  | 1  | 1 | 1 | 12 | 1  | 1    | 21   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 12  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 13/2.2 | 1  | 1   | 10 | 2  | 1  | 1 | 1 | 13 | 1  | 1    | 20   | 1    | 1    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 13  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 14/2.2 | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1  | 1    | 22   | 1    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 14  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 15/3.0 | 1  | 1   | 12 | 2  | 1  | 1 | 1 | 15 | 1  | 1    | 24   | 1    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 15  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 16/3.0 | 1  | 1   | 13 | 2  | 1  | 1 | 1 | 16 | 1  | 1    | 26   | 1    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 16  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 17/3.0 | 1  | 1   | 14 | 2  | 1  | 1 | 1 | 17 | 1  | 1    | 28   | 1    | 1    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 17  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 19/3.0 | 1  | 1   | 16 | 2  | 1  | 1 | 1 | 19 | 1  | 1    | 32   | 1    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 19  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 20/3.0 | 1  | 1   | 17 | 2  | 1  | 1 | 1 | 20 | 1  | 1    | 34   | 1    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 20  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 21/4.0 | 1  | 1   | 18 | 2  | 1  | 1 | 1 | 21 | 1  | 1    | 36   | 1    | 1    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 21  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 22/4.0 | 1  | 1   | 19 | 2  | 1  | 1 | 1 | 22 | 1  | 1    | 38   | 1    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 22  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG3 23/4.0 | 1  | 1   | 20 | 2  | 1  | 1 | 1 | 23 | 1  | 1    | 40   | 1    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 23  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |

| Pump Type     | N°   |       |       |       |         |        |       |       |       |       |       |       |       |       |     |     |     |       |       |      |     |       |
|---------------|------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-------|-------|------|-----|-------|
|               | 117* | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 |
| EVMSG3 2/0.37 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG3 3/0.55 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG3 4/0.75 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG3 5/0.75 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG3 6/1.1  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG3 7/1.1  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG3 8/1.5  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG3 9/1.5  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG3 10/1.5 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG3 11/2.2 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG3 12/2.2 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG3 13/2.2 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG3 14/2.2 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG3 15/3.0 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG3 16/3.0 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG3 17/3.0 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG3 19/3.0 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG3 20/3.0 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG3 21/4.0 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG3 22/4.0 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG3 23/4.0 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |

\* only for Oval flange (N)

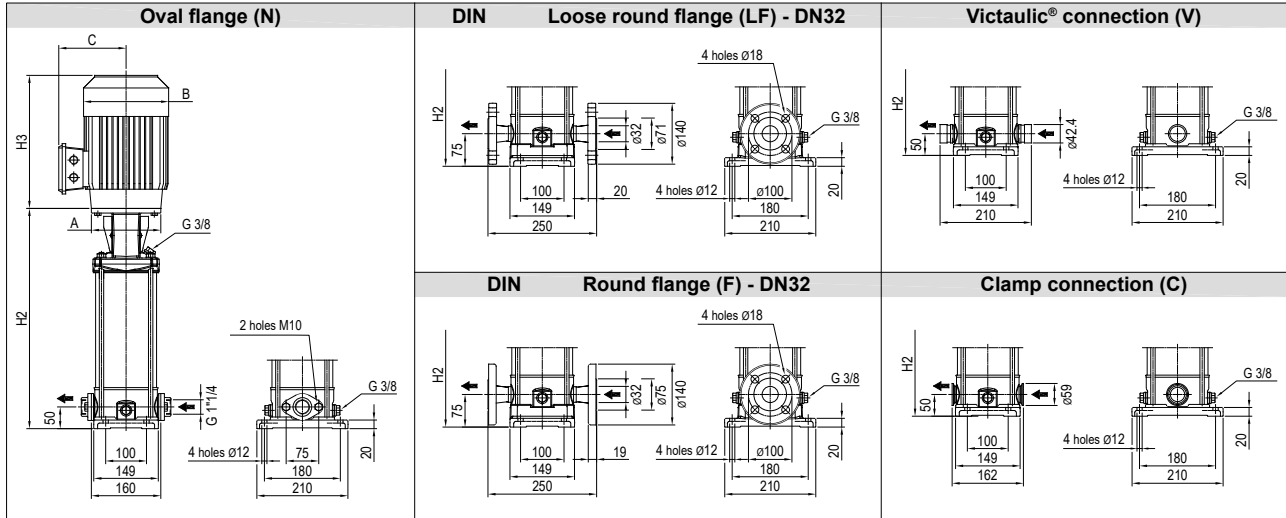
PERFORMANCE CURVE  
EVMS(L)5



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)5

#### Dimensional sketch

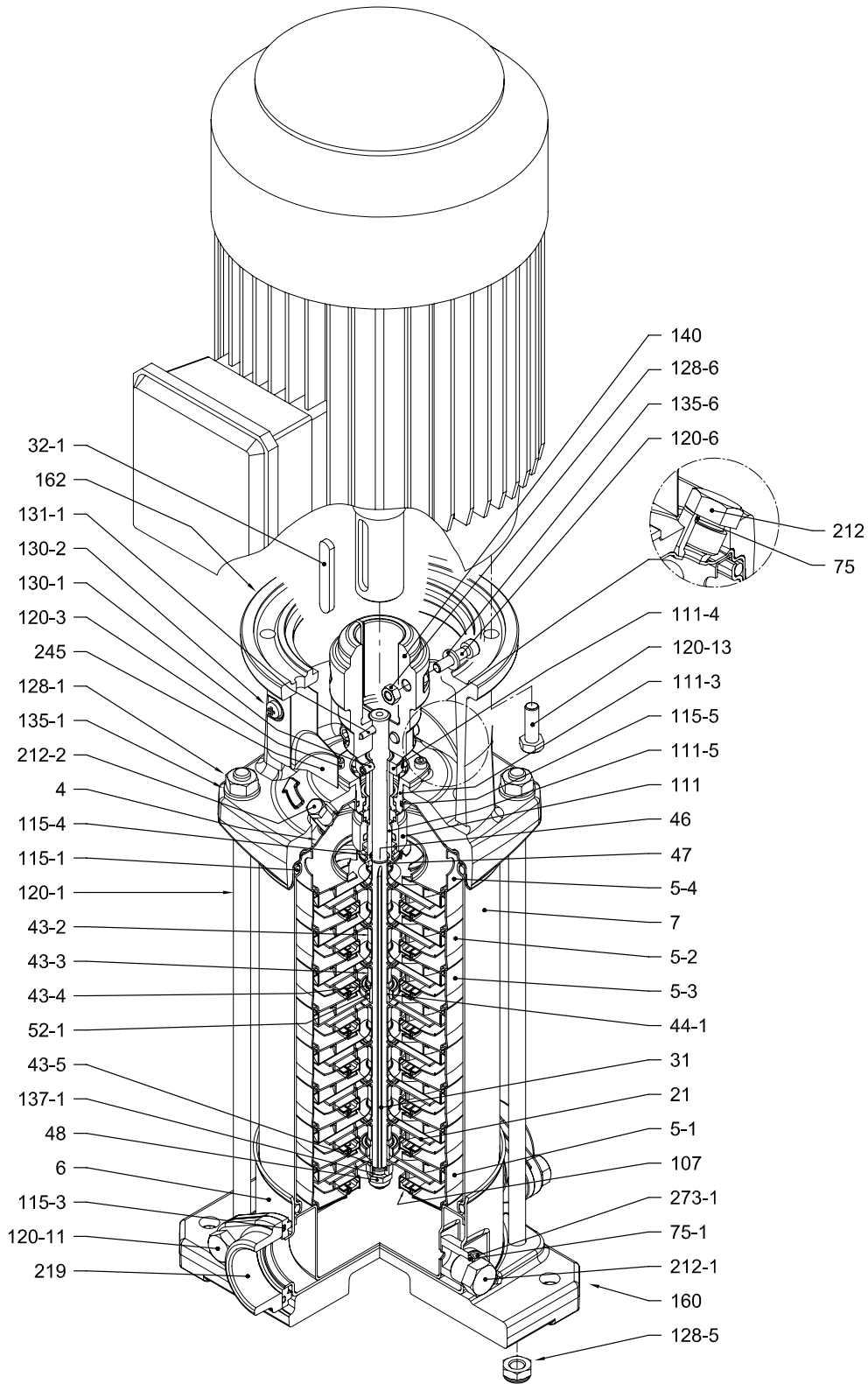


#### Dimensions [mm] and Weights [Kg]

| Pump Type       | Pmax [MPa] | Motor |      |     | Oval flange (N) |     |       |             | Loose round flange (LF)<br>Round flange (F) |      |       |             | Victaulic® connection (V)<br>Clamp connection (C) |      |       |             |                     |      |
|-----------------|------------|-------|------|-----|-----------------|-----|-------|-------------|---|------|-------|-------------|---|------|-------|-------------|---------------------|------|
|                 |            | kW    | Size | A   | 3 ~             | H2  | H2+H3 | Weight Pump | Weight Pump + Motor                         | H2   | H2+H3 | Weight Pump | Weight Pump + Motor                               | H2   | H2+H3 | Weight Pump | Weight Pump + Motor |      |
|                 |            |       | Ø    | B   | C               |     |       |             |   |      |       |             |   |      |       |             |                     |      |
| EVMS(L)5 2/0.75 | 1.6        | 0.75  | 80   | 120 | 141             | 102 | 274   | 507         | 9.8   | 18.3 | 299   | 532         | 10.8  | 19.3 | 274   | 507         | 9.7                 | 18.2 |
| EVMS(L)5 3/1.1  | 1.6        | 1.1   | 80   | 120 | 141             | 102 | 302   | 546         | 10.2  | 20.2 | 327   | 571         | 11.3  | 21.3 | 302   | 546         | 10.2                | 20.2 |
| EVMS(L)5 4/1.5  | 1.6        | 1.5   | 90   | 140 | 160             | 119 | 340   | 631         | 11  | 24.5 | 365   | 656         | 12  | 26   | 340   | 631         | 10.9                | 24.4 |
| EVMS(L)5 5/2.2  | 1.6        | 2.2   | 90   | 140 | 160             | 119 | 368   | 659         | 11.4  | 26.4 | 393   | 684         | 12.5  | 27.5 | 368   | 659         | 11.4                | 26.4 |
| EVMS(L)5 6/2.2  | 1.6        | 2.2   | 90   | 140 | 160             | 119 | 396   | 687         | 11.9  | 26.9 | 421   | 712         | 12.9  | 27.9 | 396   | 687         | 11.8                | 26.8 |
| EVMS(L)5 7/3.0  | 1.6        | 3.0   | 100  | 160 | 176             | 123 | 434   | 776         | 12.7  | 34.7 | 459   | 801         | 13.7  | 35.7 | 434   | 776         | 12.6                | 34.6 |
| EVMS(L)5 8/3.0  | 1.6        | 3.0   | 100  | 160 | 176             | 123 | 462   | 804         | 13  | 35.0 | 487   | 829         | 14  | 36.0 | 462   | 804         | 12.9                | 34.9 |
| EVMS(L)5 9/3.0  | 1.6        | 3.0   | 100  | 160 | 176             | 123 | 490   | 832         | 13.4  | 35.4 | 515   | 857         | 14.5  | 36.5 | 490   | 832         | 13.4                | 35.4 |
| EVMS(L)5 10/4.0 | 1.6        | 4.0   | 112  | 160 | 193             | 138 | 518   | 882         | 13.9  | 42.4 | 543   | 907         | 15  | 43.5 | 518   | 882         | 13.9                | 42.4 |
| EVMS(L)5 11/4.0 | 1.6        | 4.0   | 112  | 160 | 193             | 138 | 546   | 910         | 14.7  | 43.2 | 571   | 935         | 15.7  | 44.2 | 546   | 910         | 14.6                | 43.1 |
| EVMS(L)5 12/4.0 | 1.6        | 4.0   | 112  | 160 | 193             | 138 | 574   | 938         | 15.8  | 44.3 | 599   | 963         | 16.8  | 45.3 | 574   | 938         | 15.7                | 44.2 |
| EVMS(L)5 13/5.5 | 2.5        | 5.5   | 132  | 300 | 220             | 152 | -     | -           | -   | -    | 721   | 1120        | 23.9  | 62.9 | 696   | 1095        | 22.8                | 61.8 |
| EVMS(L)5 14/5.5 | 2.5        | 5.5   | 132  | 300 | 220             | 152 | -     | -           | -   | -    | 749   | 1148        | 24.4  | 63   | 724   | 1123        | 23.3                | 62.3 |
| EVMS(L)5 15/5.5 | 2.5        | 5.5   | 132  | 300 | 220             | 152 | -     | -           | -   | -    | 777   | 1176        | 24.9  | 63.9 | 752   | 1151        | 23.8                | 62.8 |
| EVMS(L)5 16/5.5 | 2.5        | 5.5   | 132  | 300 | 220             | 152 | -     | -           | -   | -    | 805   | 1204        | 25.5  | 64.5 | 780   | 1179        | 24.4                | 63.4 |
| EVMS(L)5 17/7.5 | 2.5        | 7.5   | 132  | 300 | 220             | 152 | -     | -           | -   | -    | 833   | 1252        | 26.1  | 72.1 | 808   | 1227        | 25.0                | 71.0 |
| EVMS(L)5 19/7.5 | 2.5        | 7.5   | 132  | 300 | 220             | 152 | -     | -           | -   | -    | 889   | 1308        | 27  | 73.0 | 864   | 1283        | 25.9                | 71.9 |

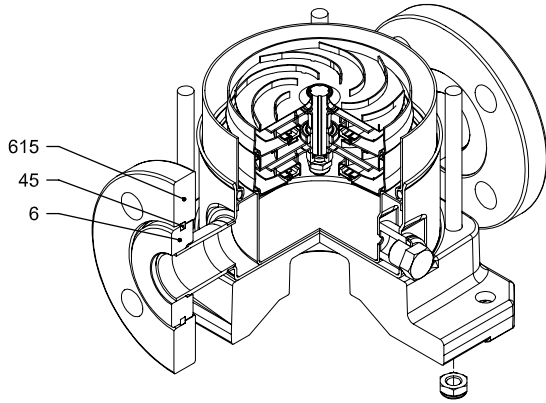
1.6 MPa=16 bar;      2.5 MPa=25 bar  
- not available model

SECTIONAL VIEW  
EVMS(L)5

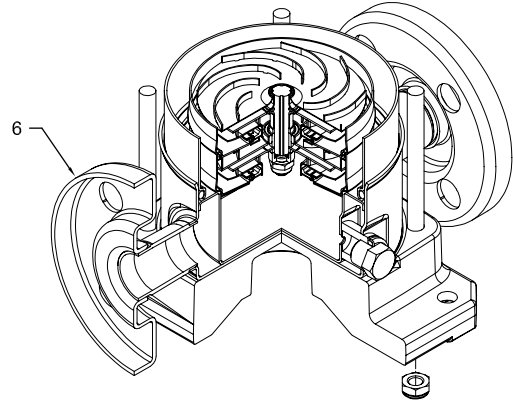


with Oval flange (N)

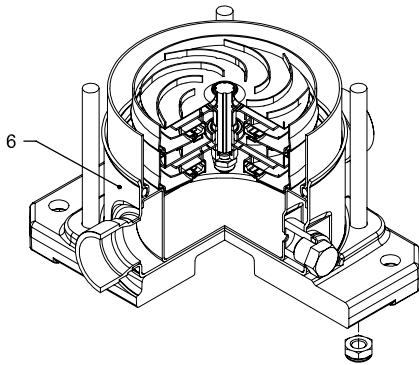
### PIPE CONNECTION EVMS(L)5



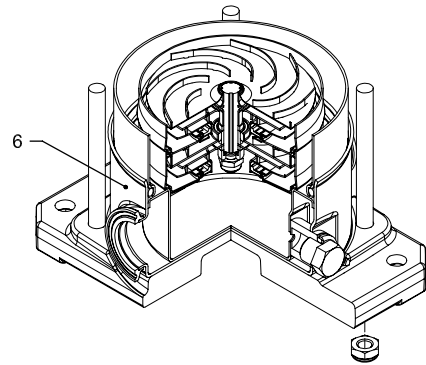
with Loose round flange (LF)



with Round flange (F)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE  
EVMS(L)5

| N°     | PART NAME                        | MATERIAL  |  | DIMENSIONS                                     | STANDARD                         |
|--------|----------------------------------|---|--|--|----------------------------------|
|        |                                  | EVMS  | EVMSL  |  |                                  |
| 4      | Casing cover                     | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |  |                                  |
| 5-1    | Suction casing                   | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |  |                                  |
| 5-2    | Intermediate casing              | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |  |                                  |
| 5-3    | Intermediate casing with bearing | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |  |                                  |
| 5-4    | Discharge casing                 | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |  |                                  |
| 6      | Bottom casing                    | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |  |                                  |
| 7      | Outer casing                     | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |  |                                  |
| 21     | Impeller                         | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |  |                                  |
| 31     | Shaft                            | EN 1.4301 (AISI 304) -<br>EN 1.4462 (AISI 329A) | EN 1.4404 (AISI 316L) -<br>EN 1.4462 (AISI 329A)     |  |                                  |
| 32-1   | Adjuster Key                     | EN 1.4301 (AISI 304)                            |  |  |                                  |
| 43-2   | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |  |                                  |
| 43-3   | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |  |                                  |
| 43-4   | Shaft sleeve (adjustment)        | EN 1.4404 (AISI 316L)                           |  |  |                                  |
| 43-5   | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |  |                                  |
| 44-1   | Shaft sleeve bearing             | Tungsten carbide                                |  |  |                                  |
| 45     | Flange holder                    | EN 1.4301 (AISI 304)                            |  |  |                                  |
| 46     | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                           |  |  |                                  |
| 47     | Ring holder                      | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |  |                                  |
| 48     | Impeller nut                     | EN 1.4301 (AISI 304)<br>with inox insert        | EN 1.4401 (AISI 316)<br>with inox insert             | M8   |                                  |
| 52-1   | Sleeve bearing                   | Tungsten carbide                                |  |  |                                  |
| 75     | O-Ring (priming plug)            | EPDM / FPM                                      |  | Ø12.37x2.62                                    | OR 3050                          |
| 75-1   | O-Ring (drainage plug)           | EPDM / FPM                                      |  |  |                                  |
| 107    | Liner ring                       | EN 1.4301 (AISI 304) + PPS                      | EN 1.4404 (AISI 316L) + PPS                          |  |                                  |
| 111    | Mechanical seal                  | see pages 6-7                                   |  |  |                                  |
| 111-3  | Mechanical seal seat             | EN 1.4308 (ASTM CF8)                            | EN 1.4408 (ASTM CF8M)                                |  |                                  |
| 111-4  | Seal holder                      | EN 1.4301 (AISI 304)                            |  |  |                                  |
| 111-5  | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |  |                                  |
| 115-1  | O-Ring (outer casing)            | EPDM / FPM                                      |  | Ø129.54x5.34                                   | OR 6945                          |
| 115-3  | O-Ring                           | EPDM / FPM                                      |  |  |                                  |
| 115-4  | O-Ring (cartridge sleeve)        | EPDM / FPM                                      |  | Ø11.91x2.62                                    | OR 4093                          |
| 115-5  | O-Ring (seal flange)             | EPDM / FPM                                      |  | Ø32.99x2.62                                    | OR 4175                          |
| 120-1  | Tie-rod                          | EN 1.4057 (AISI 431)                            |  | M10  |                                  |
| 120-3  | Screw (seal flange)              | A2-70   |  | M4x10  | ISO 4762                         |
| 120-6  | Screw (pump coupling)            | up to 4.0 kW<br>above 5.5 kW                    | Galvanized steel                                     | M6x25<br>M8x20                                 | ISO 4762<br>ISO 4762             |
| 120-11 | Screw (counterflange)            | A2-70   |  |  |                                  |
| 120-13 | Screw for motor                  | MEC 71-80<br>MEC 90-100-112<br>MEC 132          | Galvanized steel 8.8 strength class ISO 898/1        | M6x20<br>M8x20<br>M12x40                       | ISO 4017<br>ISO 4017<br>ISO 4017 |
| 128-1  | Nut (tie rod)                    | A2-70   |  | M10  | ISO 4032                         |
| 128-3  | Nut (motor)                      | MEC 132   | Galvanized steel                                     | M12  | ISO 4032                         |
| 128-5  | Nut (tie rod)                    | A2-70   |  | M10  | UNI 7474                         |
| 128-6  | Nut (aluminium coupling)         | MEC 71-80-90-100-112                            | Galvanized steel                                     | M6   | ISO 4032                         |
| 130-1  | Set screw                        | EN 1.4301 (AISI 304)                            |  | M5x8   | ISO 4026                         |
| 130-2  | Screw for coupling guard         | A2-70   |  | M5x6   | UNI 7687                         |
| 131-1  | Pin for shaft                    | Carbon Steel                                    |  | Ø4x32  | ISO 2338                         |
| 135-1  | Washer (tie rod)                 | EN 1.4301 (AISI 304)                            |  | Ø10.5x21x2                                     | ISO 7089                         |
| 135-6  | Washer (aluminium coupling)      | up to 4.0 kW                                    | Carbon Steel   | Ø6   |                                  |
| 137-1  | Impeller spacer                  | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |  |                                  |
| 140    | Coupling                         | up to 4.0 kW<br>above 5.5 kW                    | Die cast Aluminium EN AB-AISI11Cu2 (Fe)<br>Cast Iron |  |                                  |
| 160    | Base                             | Die cast Aluminium EN AB-AISI11Cu2 (Fe)         |  |  |                                  |
| 162    | Motor bracket                    | Cast iron EN-GJL-250                            |  |  |                                  |
| 212    | Priming plug                     | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                | G 3/8  |                                  |
| 212-1  | Drainage plug                    | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                | G 3/8  |                                  |
| 212-2  | Venting plug                     | EN 1.4404 (AISI 316L)                           |  |  |                                  |
| 219    | Counter flange                   | flange type: N<br>flange type: LF-F-V-C         | EN 1.4308 (ASTM CF8)<br>EN 1.4301 (AISI 304)         | EN 1.4408 (ASTM CF8M)<br>EN 1.4404 (AISI 316L) |                                  |
| 245    | Coupling guard                   | EN 1.4301 (AISI 304)                            |  |  |                                  |
| 273-1  | Washer (drainage plug)           | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |  |                                  |
| 615    | Flange                           | Nodular Cast Iron                               |  |  |                                  |

### QUANTITY FOR MODEL EVMS(L)5

| Pump Type       | N° |     |    |    |    |   |   |    |       |      |      |      |      |      |      |      |    |    |    |      |    |      |     |     |       |       |       |       |        |       |       |   |
|-----------------|----|-----|----|----|----|---|---|----|-------|------|------|------|------|------|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|--------|-------|-------|---|
|                 | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31*** | 32-1 | 43-2 | 43-3 | 43-4 | 43-5 | 44-1 | 45** | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-3* | 115-4 | 115-5 |   |
| EVMS(L)5 2/0.55 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1     | 1    | 1    | 1    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 2   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)5 3/1.1  | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1     | 1    | 3    | 1    | 2    | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 3   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)5 4/1.5  | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1     | 1    | 5    | 1    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 4   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)5 5/2.2  | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1     | 1    | 7    | 1    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 5   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)5 6/2.2  | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1     | 1    | 9    | 1    | 2    | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 6   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)5 7/3.0  | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1     | 1    | 11   | 1    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 7   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)5 8/3.0  | 1  | 1   | 6  | 1  | 1  | 1 | 1 | 8  | 1     | 1    | 13   | 1    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 8   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)5 9/3.0  | 1  | 1   | 7  | 1  | 1  | 1 | 1 | 9  | 1     | 1    | 15   | 1    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 9   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)5 10/4.0 | 1  | 1   | 8  | 1  | 1  | 1 | 1 | 10 | 1     | 1    | 17   | 1    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 10  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)5 11/4.0 | 1  | 1   | 8  | 2  | 1  | 1 | 1 | 11 | 1     | 1    | 17   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 11  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)5 12/4.0 | 1  | 1   | 9  | 2  | 1  | 1 | 1 | 12 | 1     | 1    | 19   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 12  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)5 13/5.5 | 1  | 1   | 10 | 2  | 1  | 1 | 1 | 13 | 1     | 1    | 21   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 13  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     | 1 |
| EVMS(L)5 14/5.5 | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1     | 1    | 23   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 14  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     | 1 |
| EVMS(L)5 15/5.5 | 1  | 1   | 12 | 2  | 1  | 1 | 1 | 15 | 1     | 1    | 25   | 2    | 3    | 1    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 15  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     | 1 |
| EVMS(L)5 16/5.5 | 1  | 1   | 13 | 2  | 1  | 1 | 1 | 16 | 1     | 1    | 27   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 16  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     | 1 |
| EVMS(L)5 17/7.5 | 1  | 1   | 14 | 2  | 1  | 1 | 1 | 17 | 1     | 1    | 29   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 17  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     | 1 |
| EVMS(L)5 19/7.5 | 1  | 1   | 16 | 2  | 1  | 1 | 1 | 19 | 1     | 1    | 33   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 19  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     | 1 |

| Pump Type       | N°    |       |       |         |        |       |       |       |       |       |       |       |       |       |       |     |     |     |     |       |       |      |     |       |       |
|-----------------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|------|-----|-------|-------|
|                 | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-3 | 128-5 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 160 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 | 615** |
| EVMS(L)5 2/0.55 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)5 3/1.1  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)5 4/1.5  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)5 5/2.2  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)5 6/2.2  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)5 7/3.0  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)5 8/3.0  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)5 9/3.0  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)5 10/4.0 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)5 11/4.0 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)5 12/4.0 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)5 13/5.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)5 14/5.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)5 15/5.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)5 16/5.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)5 17/7.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)5 19/7.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |

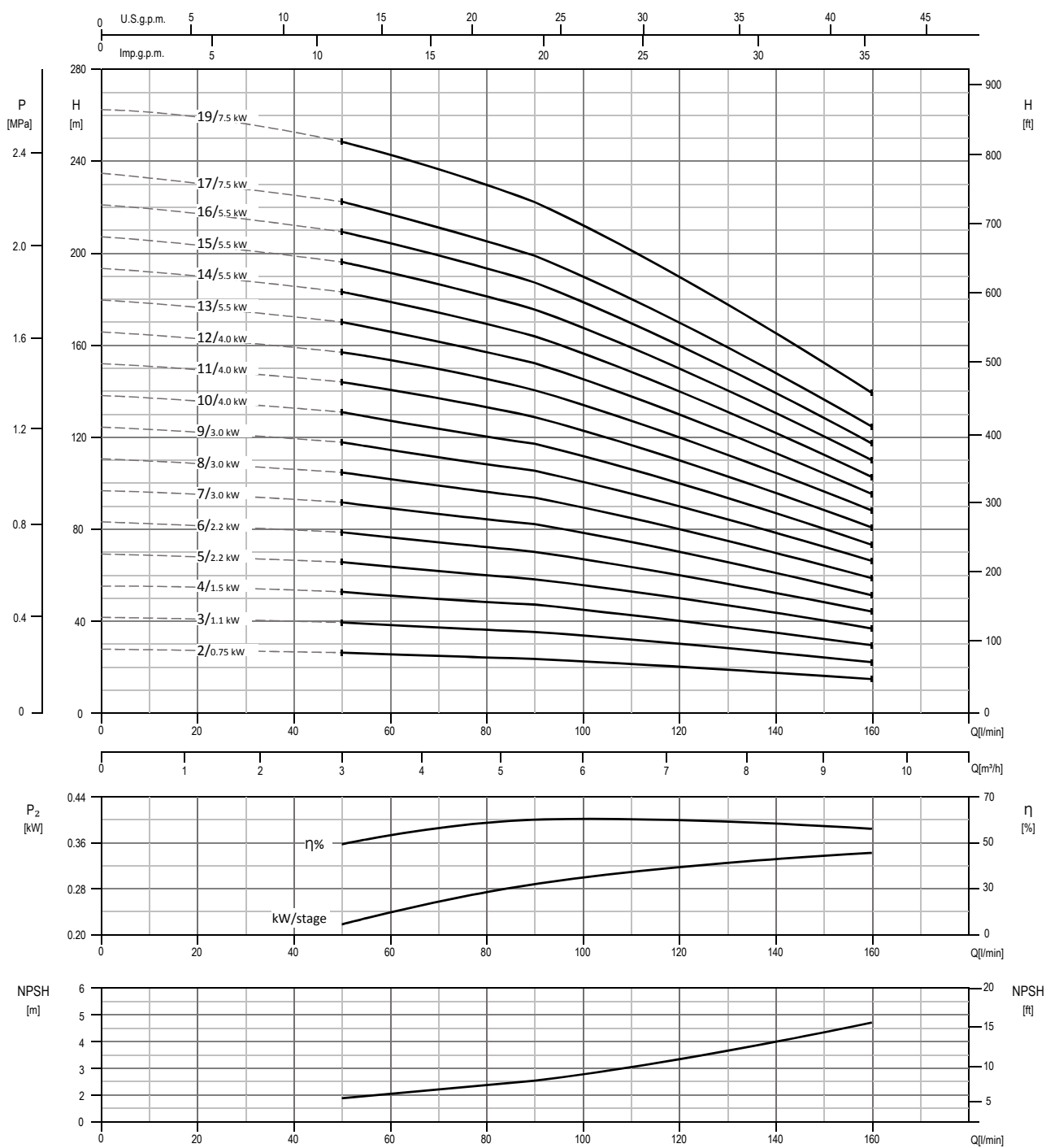
\* only for Oval flange (N)

\*\* only for Loose round flange (LF)

\*\*   shaft in EN 1.4462 (AISI 329A)

128-3: only for motor above 5.5 kW (see drawing pag.54)

PERFORMANCE CURVE  
EVMSG5

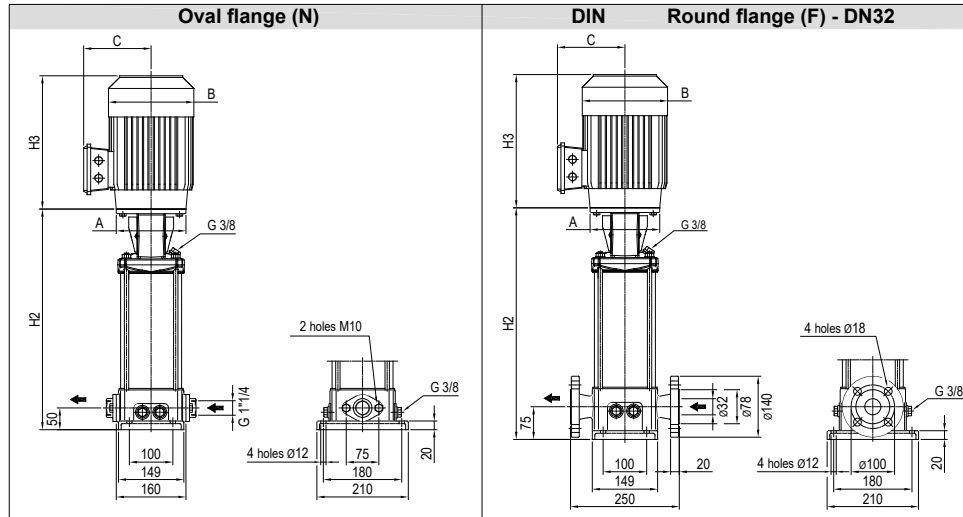


Test standard: ISO 9906:2012 - Grade 3B



### TECHNICAL DATA EVMSG5

#### Dimensional sketch

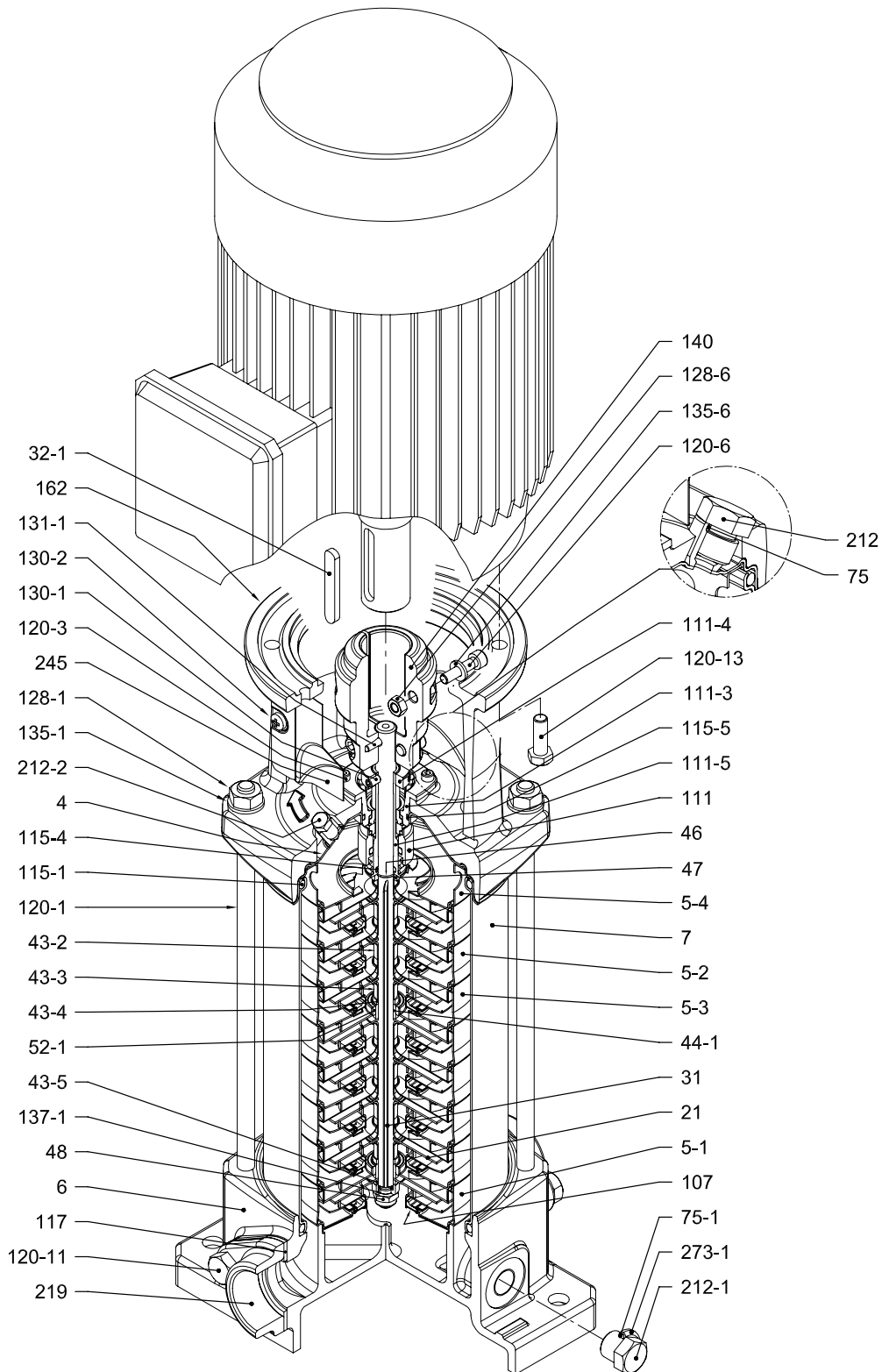


#### Dimensions [mm] and Weights [Kg]

| Pump Type     | Pmax [MPa] | kW   | Motor |     |              | Oval flange (N) |       |             |                     | Round flange (F) |       |             |                     |
|---------------|------------|------|-------|-----|--------------|-----------------|-------|-------------|---------------------|------------------|-------|-------------|---------------------|
|               |            |      | Size  | A   | 3 ~<br>Ø B C | H2              | H2+H3 | Weight Pump | Weight Pump + Motor | H2               | H2+H3 | Weight Pump | Weight Pump + Motor |
| EVMSG5 2/0.75 | 1.6        | 0.75 | 80    | 120 | 141 102      | 274             | 507   | 10.9        | 19.4                | 299              | 532   | 15.9        | 24.4                |
| EVMSG5 3/1.1  | 1.6        | 1.1  | 80    | 120 | 141 102      | 302             | 546   | 11.4        | 21.4                | 327              | 571   | 16.4        | 26.4                |
| EVMSG5 4/1.5  | 1.6        | 1.5  | 90    | 140 | 160 119      | 340             | 631   | 12.1        | 25.6                | 365              | 656   | 17.1        | 30.6                |
| EVMSG5 5/2.2  | 1.6        | 2.2  | 90    | 140 | 160 119      | 368             | 659   | 12.6        | 27.6                | 393              | 684   | 17.6        | 32.6                |
| EVMSG5 6/2.2  | 1.6        | 2.2  | 90    | 140 | 160 119      | 396             | 687   | 13.1        | 28.1                | 421              | 712   | 18.1        | 33.1                |
| EVMSG5 7/3.0  | 1.6        | 3.0  | 100   | 160 | 176 123      | 434             | 776   | 13.8        | 35.8                | 459              | 801   | 18.8        | 40.8                |
| EVMSG5 8/3.0  | 1.6        | 3.0  | 100   | 160 | 176 123      | 462             | 804   | 14.1        | 36.1                | 487              | 829   | 19.1        | 41.1                |
| EVMSG5 9/3.0  | 1.6        | 3.0  | 100   | 160 | 176 123      | 490             | 832   | 14.6        | 36.6                | 515              | 857   | 19.6        | 41.6                |
| EVMSG5 10/4.0 | 1.6        | 4.0  | 112   | 160 | 193 138      | 518             | 882   | 15.1        | 43.6                | 543              | 907   | 20.1        | 48.6                |
| EVMSG5 11/4.0 | 1.6        | 4.0  | 112   | 160 | 193 138      | 546             | 910   | 15.8        | 44.3                | 571              | 935   | 20.8        | 49.3                |
| EVMSG5 12/4.0 | 1.6        | 4.0  | 112   | 160 | 193 138      | 574             | 938   | 16.9        | 45.4                | 599              | 963   | 21.9        | 50.4                |
| EVMSG5 13/5.5 | 2.5        | 5.5  | 132   | 300 | 220 152      | -               | -     | -           | -                   | 721              | 1120  | 29          | 68.0                |
| EVMSG5 14/5.5 | 2.5        | 5.5  | 132   | 300 | 220 152      | -               | -     | -           | -                   | 749              | 1148  | 29.5        | 68.5                |
| EVMSG5 15/5.5 | 2.5        | 5.5  | 132   | 300 | 220 152      | -               | -     | -           | -                   | 777              | 1176  | 30          | 69.0                |
| EVMSG5 16/5.5 | 2.5        | 5.5  | 132   | 300 | 220 152      | -               | -     | -           | -                   | 805              | 1204  | 30.6        | 69.6                |
| EVMSG5 17/7.5 | 2.5        | 7.5  | 132   | 300 | 220 152      | -               | -     | -           | -                   | 833              | 1252  | 31.2        | 77.2                |
| EVMSG5 19/7.5 | 2.5        | 7.5  | 132   | 300 | 220 152      | -               | -     | -           | -                   | 889              | 1308  | 32.1        | 78.1                |

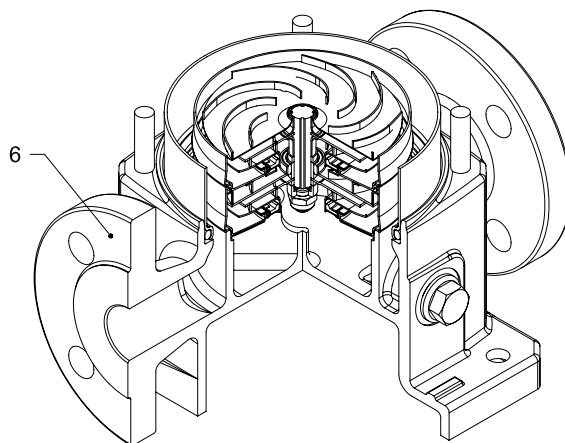
1.6 MPa=16 bar;      2.5 MPa=25 bar  
- not available model

SECTIONAL VIEW  
EVMSG5



with Oval flange (N)

### PIPE CONNECTION EVMSG5



with Round flange (F)

SECTIONAL TABLE  
EVMSG5

| N°     | PART NAME                        | MATERIAL<br>EVMSG                                    | DIMENSIONS                             | STANDARD   |
|--------|----------------------------------|--|--|--|
| 4      | Casing cover                     | EN 1.4301 (AISI 304)                                 |  |  |
| 5-1    | Suction casing                   | EN 1.4301 (AISI 304)                                 |  |  |
| 5-2    | Intermediate casing              | EN 1.4301 (AISI 304)                                 |  |  |
| 5-3    | Intermediate casing with bearing | EN 1.4301 (AISI 304)                                 |  |  |
| 5-4    | Discharge casing                 | EN 1.4301 (AISI 304)                                 |  |  |
| 6      | Bottom casing                    | Cast Iron EN GJL-250                                 |  |  |
| 7      | Outer casing                     | EN 1.4301 (AISI 304)                                 |  |  |
| 21     | Impeller                         | EN 1.4301 (AISI 304)                                 |  |  |
| 31     | Shaft                            | EN 1.4301 (AISI 304) - EN 1.4462 (AISI 329A)         |  |  |
| 32-1   | Adjuster key                     | EN 1.4301 (AISI 304)                                 |  |  |
| 43-2   | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                                 |  |  |
| 43-3   | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                                 |  |  |
| 43-4   | Shaft sleeve (adjustment)        | EN 1.4404 (AISI 316L)                                |  |  |
| 43-5   | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                                 |  |  |
| 44-1   | Shaft sleeve bearing             | Tungsten carbide                                     |  |  |
| 46     | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                                |  |  |
| 47     | Ring holder                      | EN 1.4404 (AISI 316L)                                |  |  |
| 48     | Impeller nut                     | EN 1.4301 (AISI 304) with inox insert                | M8                                     |  |
| 52-1   | Sleeve bearing                   | Tungsten carbide                                     |  |  |
| 75     | O-Ring (priming plug)            | EPDM / FPM   | Ø12.37x2.62                            | OR 3050  |
| 75-1   | O-Ring (drainage plug)           | EPDM / FPM   |  |  |
| 107    | Liner ring                       | EN 1.4301 (AISI 304) + PPS                           |  |  |
| 111    | Mechanical seal                  | see pages 6-7  |  |  |
| 111-3  | Mechanical seal seat             | EN 1.4308 (ASTM CF8)                                 |  |  |
| 111-4  | Seal holder                      | EN 1.4301 (AISI 304)                                 |  |  |
| 111-5  | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                                 |  |  |
| 115-1  | O-Ring (outer casing)            | EPDM / FPM   | Ø129.54x5.34                           | OR 6945  |
| 115-4  | O-Ring (cartridge sleeve)        | EPDM / FPM   | Ø11.91x2.62                            | OR 4093  |
| 115-5  | O-Ring (seal flange)             | EPDM / FPM   | Ø32.99x2.62                            | OR 4175  |
| 117    | Flange gasket                    | EPDM / FPM   |  |  |
| 120-1  | Tie-rod                          | EN 1.4057 (AISI 431)                                 | M10                                    |  |
| 120-3  | Screw (seal flange)              | A2-70  | M4x10                                  | ISO 4762   |
| 120-6  | Screw (pump coupling)            | Galvanized steel                                     | up to 4.0 kW<br>above 5.5 kW           | M6x25<br>ISO 4762<br>M8x20<br>ISO 4762                       |
| 120-11 | Screw (counterflange)            |  | A2-70                                  |  |
| 120-13 | Screw for motor                  | Galvanized steel 8.8 strength class ISO 898/1        | MEC 71-80<br>MEC 90-100-112<br>MEC 132 | M6x20<br>ISO 4017<br>M8x20<br>ISO 4017<br>M12x40<br>ISO 4017 |
| 128-1  | Nut (tie rod)                    |  | A2-70                                  | M10<br>ISO 4032  |
| 128-3  | Nut (motor)                      |  | Galvanized steel                       | M12<br>ISO 4032  |
| 128-6  | Nut (aluminium coupling)         | Galvanized steel                                     | MEC 71-80-90-100-112<br>M6<br>ISO 4032 |  |
| 130-1  | Set screw                        | EN 1.4301 (AISI 304)                                 | M5x8<br>ISO 4026                       |  |
| 130-2  | Screw for coupling guard         | A2-70  | M5x6<br>UNI 7687                       |  |
| 131-1  | Pin for shaft                    | Carbon Steel   | Ø4x32<br>ISO 2338                      |  |
| 135-1  | Washer (tie rod)                 | EN 1.4301 (AISI 304)                                 | Ø10.5x21x2<br>ISO 7089                 |  |
| 135-6  | Washer (aluminium coupling)      | Carbon Steel   | up to 4.0 kW<br>Ø6                     |  |
| 137-1  | Impeller spacer                  | EN 1.4301 (AISI 304)                                 |  |  |
| 140    | Coupling                         | Die cast Aluminium EN AB-AISI11Cu2 (Fe)<br>Cast Iron | up to 4.0 kW<br>above 5.5 kW           |  |
| 162    | Motor bracket                    | Cast iron EN-GJL-250                                 |  |  |
| 212    | Priming plug                     | EN 1.4301 (AISI 304)                                 | G 3/8                                  |  |
| 212-1  | Drainage plug                    | EN 1.4301 (AISI 304)                                 | G 3/8                                  |  |
| 212-2  | Venting plug                     | EN 1.4404 (AISI 316L)                                |  |  |
| 219    | Counter flange                   | Galvanized steel                                     | flange type: N<br>flange type: F       |  |
| 245    | Coupling guard                   | Cast Iron EN-GJL-250                                 |  |  |
| 273-1  | Washer (drainage plug)           | EN 1.4301 (AISI 304)                                 |  |  |

### QUANTITY FOR MODEL EVMSG5

| Pump Type     | N° |     |    |    |    |   |   |    |       |      |      |      |      |      |      |    |    |    |      |    |      |     |     |       |       |       |       |       |       |
|---------------|----|-----|----|----|----|---|---|----|-------|------|------|------|------|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|-------|-------|
|               | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31*** | 32-1 | 43-2 | 43-3 | 43-4 | 43-5 | 44-1 | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 |
| EVMSG5 2/0.55 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1     | 1    | 1    | 1    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 2   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 3/1.1  | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1     | 1    | 3    | 1    | 2    | 1    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 3   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 4/1.5  | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1     | 1    | 5    | 1    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 4   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 5/2.2  | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1     | 1    | 7    | 1    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 5   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 6/2.2  | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1     | 1    | 9    | 1    | 2    | 1    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 6   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 7/3.0  | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1     | 1    | 11   | 1    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 7   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 8/3.0  | 1  | 1   | 6  | 1  | 1  | 1 | 1 | 8  | 1     | 1    | 13   | 1    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 8   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 9/3.0  | 1  | 1   | 7  | 1  | 1  | 1 | 1 | 9  | 1     | 1    | 15   | 1    | 1    | 1    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 9   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 10/4.0 | 1  | 1   | 8  | 1  | 1  | 1 | 1 | 10 | 1     | 1    | 17   | 1    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 10  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 11/4.0 | 1  | 1   | 8  | 2  | 1  | 1 | 1 | 11 | 1     | 1    | 17   | 2    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 11  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 12/4.0 | 1  | 1   | 9  | 2  | 1  | 1 | 1 | 12 | 1     | 1    | 19   | 2    | 2    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 12  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 13/5.5 | 1  | 1   | 10 | 2  | 1  | 1 | 1 | 13 | 1     | 1    | 21   | 2    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 13  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 14/5.5 | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1     | 1    | 23   | 2    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 14  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 15/5.5 | 1  | 1   | 12 | 2  | 1  | 1 | 1 | 15 | 1     | 1    | 25   | 2    | 3    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 15  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 16/5.5 | 1  | 1   | 13 | 2  | 1  | 1 | 1 | 16 | 1     | 1    | 27   | 2    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 16  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 17/7.5 | 1  | 1   | 14 | 2  | 1  | 1 | 1 | 17 | 1     | 1    | 29   | 2    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 17  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 19/7.5 | 1  | 1   | 16 | 2  | 1  | 1 | 1 | 19 | 1     | 1    | 33   | 2    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 19  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |

| Pump Type     | N°   |       |       |       |         |        |       |       |       |       |       |       |       |       |       |     |     |     |       |       |      |     |       |
|---------------|------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-------|-------|------|-----|-------|
|               | 117* | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-3 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 |
| EVMSG5 2/0.55 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG5 3/1.1  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG5 4/1.5  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG5 5/2.2  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG5 6/2.2  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG5 7/3.0  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG5 8/3.0  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG5 9/3.0  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG5 10/4.0 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG5 11/4.0 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG5 12/4.0 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG5 13/5.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG5 14/5.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG5 15/5.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG5 16/5.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG5 17/7.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG5 19/7.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |

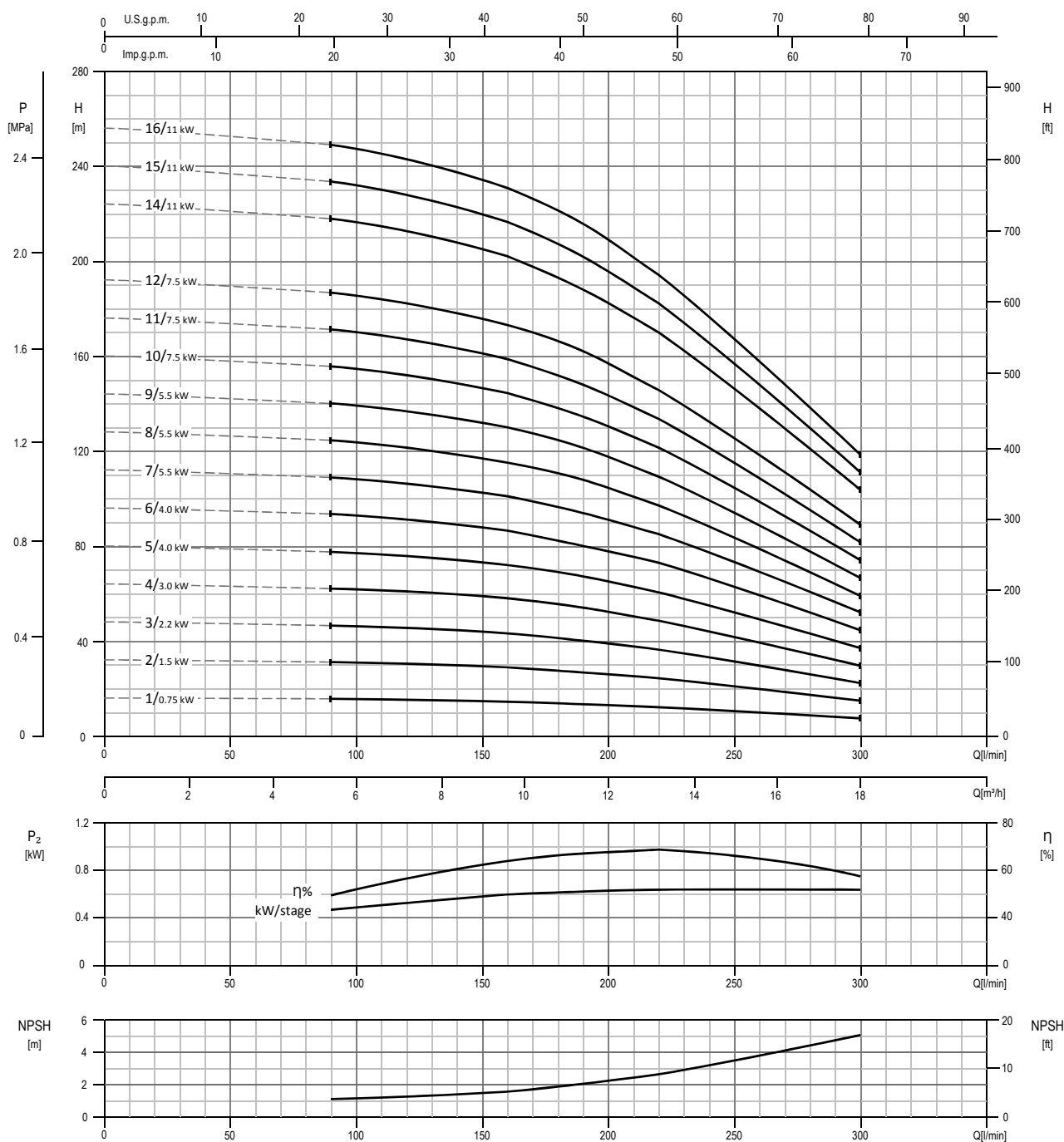
\* only for Oval flange (N)

\*\*   shaft in EN 1.4462 (AISI 329A)

128-3: only for motor above 5.5 kW (see drawing pag.54)

PERFORMANCE CURVE  
EVMS(L)10

EVMS(L)10

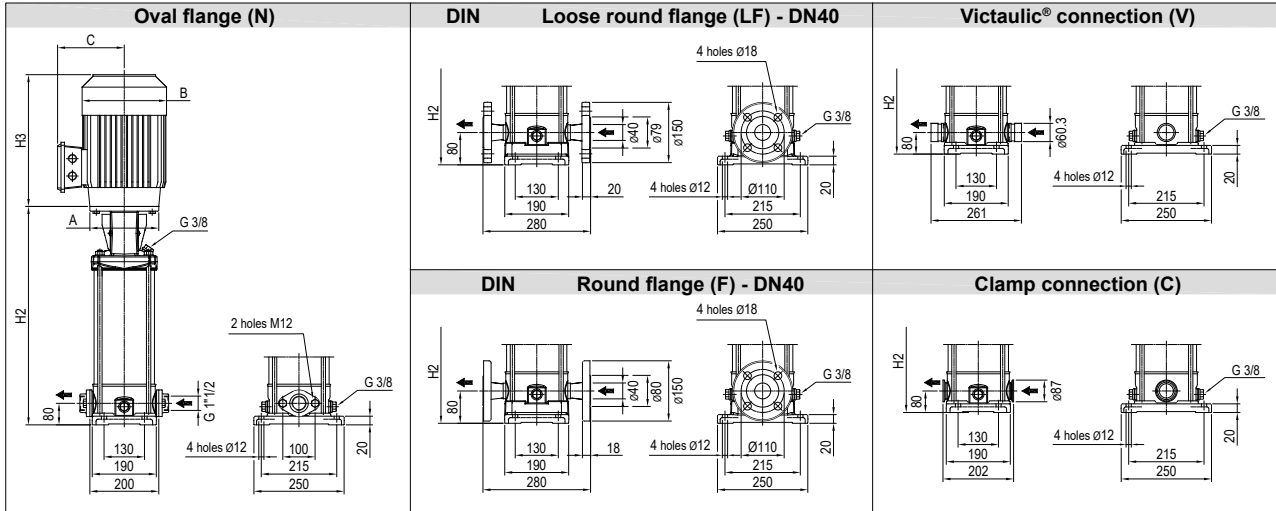


Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)10

2.11

#### Dimensional sketch



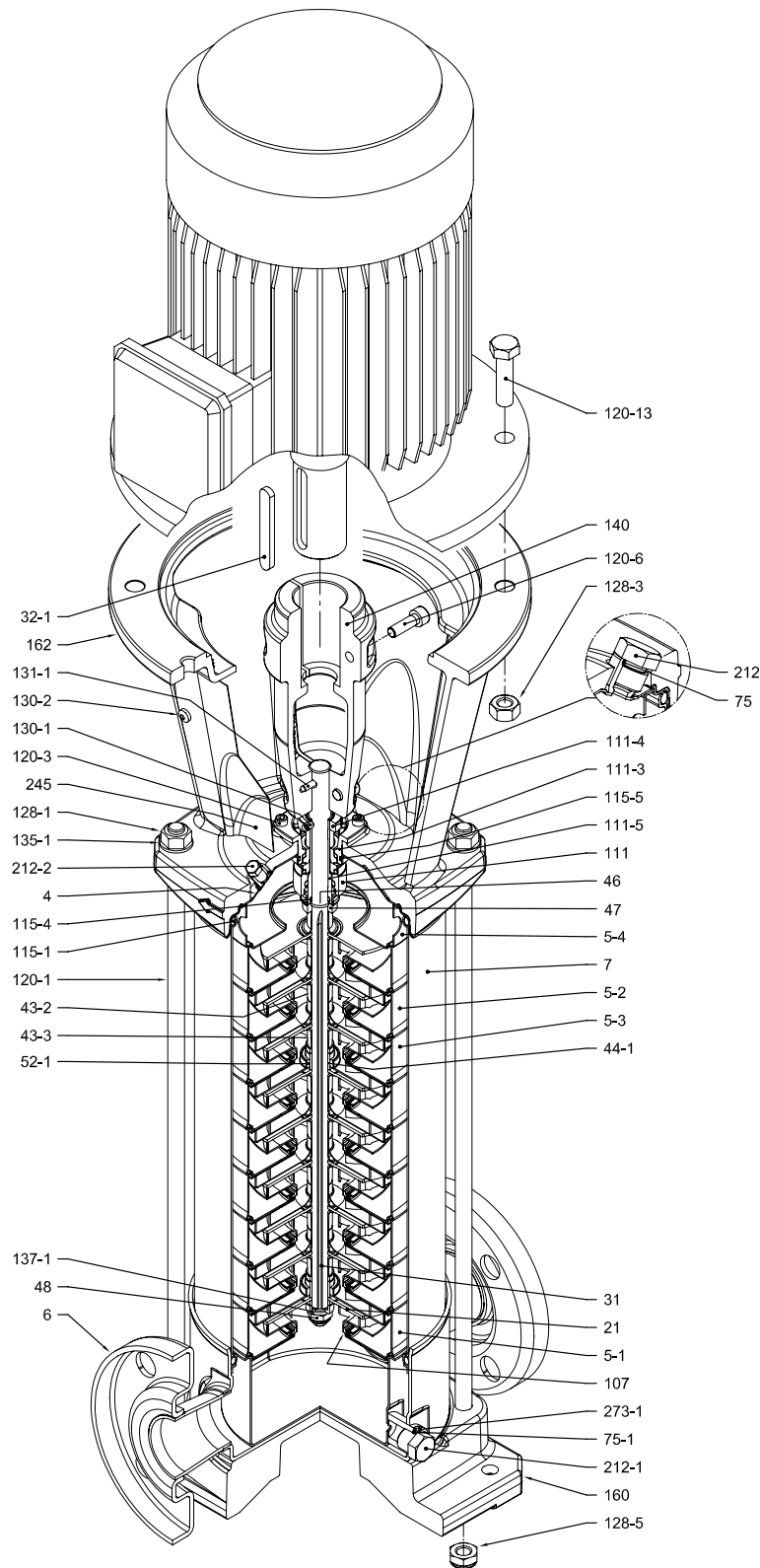
#### Dimensions [mm] and Weights [Kg]

| Pump Type        | Pmax [MPa] | Motor |      |        | Oval flange (N) |     |     |       | Loose round flange (LF)<br>Round flange (F) |                     |     |       | Victaulic® connection (V)<br>Clamp connection (C) |                     |     |       |             |                     |
|------------------|------------|-------|------|--------|-----------------|-----|-----|-------|---|---------------------|-----|-------|---|---------------------|-----|-------|-------------|---------------------|
|                  |            | kW    | Size | A<br>Ø | 3 ~<br>B        | C   | H2  | H2+H3 | Weight Pump                                 | Weight Pump + Motor | H2  | H2+H3 | Weight Pump                                       | Weight Pump + Motor | H2  | H2+H3 | Weight Pump | Weight Pump + Motor |
| EVMS(L)10 1/0.75 | 1.6        | 0.75  | 80   | 120    | 141             | 102 | 343 | 576   | 19.7  | 28.2                | 343 | 576   | 20.7  | 29.2                | 343 | 576   | 19.6        | 28.1                |
| EVMS(L)10 2/1.5  | 1.6        | 1.5   | 90   | 140    | 160             | 119 | 353 | 644   | 19.8  | 33.3                | 353 | 644   | 20.9  | 34.4                | 353 | 644   | 19.8        | 33.3                |
| EVMS(L)10 3/2.2  | 1.6        | 2.2   | 90   | 140    | 160             | 119 | 383 | 674   | 20.7  | 35.7                | 383 | 674   | 21.7  | 36.7                | 383 | 674   | 20.7        | 35.7                |
| EVMS(L)10 4/3.0  | 1.6        | 3.0   | 100  | 160    | 176             | 123 | 423 | 765   | 21.7  | 43.7                | 423 | 765   | 22.7  | 44.7                | 423 | 765   | 21.6        | 43.6                |
| EVMS(L)10 5/4.0  | 1.6        | 4.0   | 112  | 160    | 193             | 138 | 453 | 817   | 22.5  | 51.0                | 453 | 817   | 23.5  | 52.0                | 453 | 817   | 22.5        | 51.0                |
| EVMS(L)10 6/4.0  | 1.6        | 4.0   | 112  | 160    | 193             | 138 | 483 | 847   | 23.3  | 51.8                | 483 | 847   | 24.4  | 52.9                | 483 | 847   | 23.3        | 51.8                |
| EVMS(L)10 7/5.5  | 1.6        | 5.5   | 132  | 300    | 220             | 152 | 611 | 1010  | 31.2  | 70.2                | 611 | 1010  | 32.3  | 71.3                | 611 | 1010  | 31.2        | 70.2                |
| EVMS(L)10 8/5.5  | 1.6        | 5.5   | 132  | 300    | 220             | 152 | 641 | 1040  | 32.4  | 71.4                | 641 | 1040  | 33.5  | 72.5                | 641 | 1040  | 32.4        | 71.4                |
| EVMS(L)10 9/5.5  | 1.6        | 5.5   | 132  | 300    | 220             | 152 | 671 | 1070  | 33.3  | 72.3                | 671 | 1070  | 34.3  | 73.3                | 671 | 1070  | 33.2        | 72.2                |
| EVMS(L)10 10/7.5 | 1.6        | 7.5   | 132  | 300    | 220             | 152 | 701 | 1120  | 34.1  | 80.1                | 701 | 1120  | 35.1  | 81.1                | 701 | 1120  | 34.1        | 80.1                |
| EVMS(L)10 11/7.5 | 2.5        | 7.5   | 132  | 300    | 220             | 152 | -   | -     | -   | -                   | 731 | 1150  | 36.8  | 82.8                | 731 | 1150  | 35.7        | 81.7                |
| EVMS(L)10 12/7.5 | 2.5        | 7.5   | 132  | 300    | 220             | 152 | -   | -     | -   | -                   | 761 | 1180  | 37.7  | 83.7                | 761 | 1180  | 36.6        | 82.6                |
| EVMS(L)10 14/11  | 2.5        | 11    | 160  | 350    | 259             | 180 | -   | -     | -   | -                   | 851 | 1291  | 47.7  | 110.2               | 851 | 1291  | 46.6        | 109.1               |
| EVMS(L)10 15/11  | 2.5        | 11    | 160  | 350    | 259             | 180 | -   | -     | -   | -                   | 881 | 1321  | 48.6  | 111.1               | 881 | 1321  | 47.6        | 110.1               |
| EVMS(L)10 16/11  | 2.5        | 11    | 160  | 350    | 259             | 180 | -   | -     | -   | -                   | 911 | 1351  | 49.5  | 112.0               | 911 | 1351  | 48.5        | 111.0               |

1.6 MPa=16 bar;      2.5 MPa=25 bar  
- not available model

SECTIONAL VIEW  
EVMS(L)10

EVMS(L)10

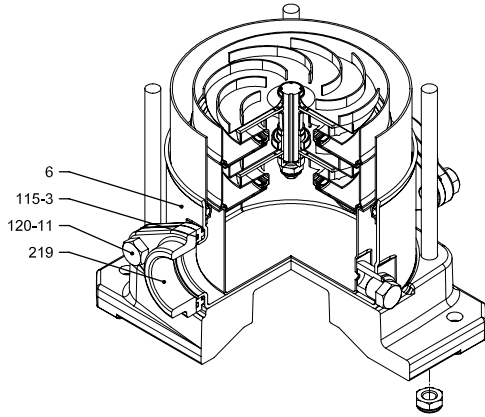


with Round flange (F)

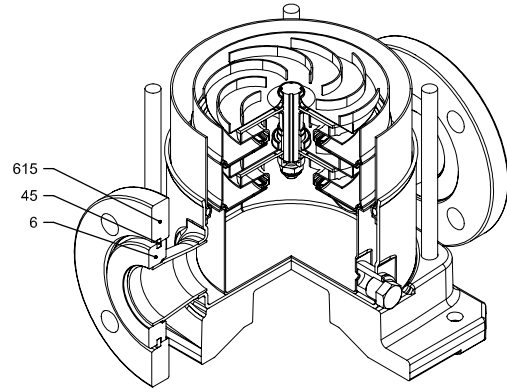


### PIPE CONNECTION EVMS(L)10

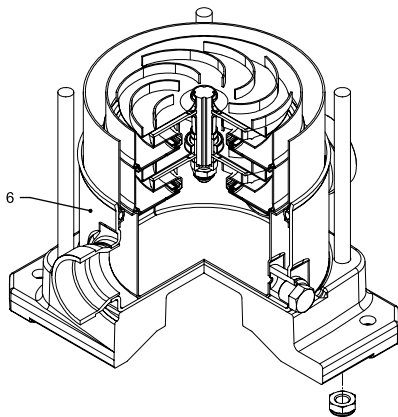
EVMS(L)10



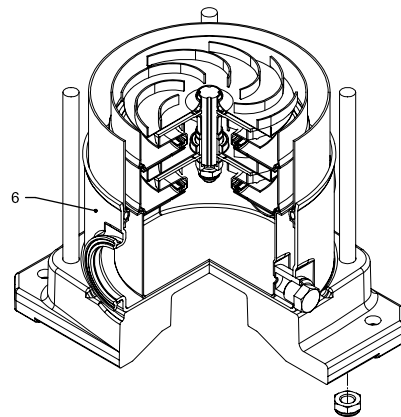
with Oval flange (N)



with Loose round flange (LF)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE  
EVMS(L)10

| N°     | PART NAME                                 | MATERIAL   |   | DIMENSIONS            | STANDARD |
|--------|---|--|---|-----------------------|----------|
|        |   | EVMS   | EVMSL   |                       |          |
| 4      | Casing cover                              | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 |                       |          |
| 5-1    | Suction casing                            | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 |                       |          |
| 5-2    | Intermediate casing                       | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 |                       |          |
| 5-3    | Intermediate casing with bearing          | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 |                       |          |
| 5-4    | Discharge casing                          | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 |                       |          |
| 6      | Bottom casing                             | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 |                       |          |
| 7      | Outer casing                              | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 |                       |          |
| 21     | Impeller                                  | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 |                       |          |
| 31     | Shaft                                     | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 |                       |          |
| 32-1   | Adjuster key                              | EN 1.4301 (AISI 304)                                 |   |                       |          |
| 43-2   | Shaft sleeve (intermediate)               | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 |                       |          |
| 43-3   | Shaft sleeve (bearing + discharge casing) | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 |                       |          |
| 44-1   | Shaft sleeve bearing                      | Tungsten carbide                                     |   |                       |          |
| 45     | Flange holder                             | EN 1.4301 (AISI 304)                                 |   |                       |          |
| 46     | Ring (mechanical seal)                    | EN 1.4404 (AISI 316L)                                |   |                       |          |
| 47     | Ring holder                               | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 |                       |          |
| 48     | Impeller nut                              | EN 1.4301 (AISI 304)<br>with inox insert             | EN 1.4401 (AISI 316)<br>with inox insert              | M10                   |          |
| 52-1   | Sleeve bearing                            | Tungsten carbide                                     |   |                       |          |
| 75     | O-Ring (priming plug)                     | EPDM / FPM   |   | Ø12.37x2.62           | OR 3050  |
| 75-1   | O-Ring (drainage plug)                    | EPDM / FPM   |   |                       |          |
| 107    | Liner ring                                | EN 1.4301 (AISI 304) + PPS                           | EN 1.4404 (AISI 316L) + PPS                           |                       |          |
| 111    | Mechanical seal                           | see pages 6-7  |   |                       |          |
| 111-3  | Mechanical seal seat                      | EN 1.4308 (ASTM CF8)                                 | EN 1.4408 (ASTM CF8M)                                 |                       |          |
| 111-4  | Seal holder                               | EN 1.4301 (AISI 304)                                 |   |                       |          |
| 111-5  | Mechanical seal cartridge sleeve          | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 |                       |          |
| 115-1  | O-Ring (outer casing)                     | EPDM / FPM   |   | Ø164.46x5.34          | OR 6945  |
| 115-3  | O-Ring                                    | EPDM / FPM   |   |                       |          |
| 115-4  | O-Ring (cartridge sleeve)                 | EPDM / FPM   |   | Ø15.88x2.62           | OR 4093  |
| 115-5  | O-Ring (seal flange)                      | EPDM / FPM   |   | Ø37.77x2.62           | OR 4175  |
| 120-1  | Tie-rod                                   | EN 1.4057 (AISI 431)                                 |   | M12                   |          |
| 120-3  | Screw                                     | A2-70  |   | M5x12                 | ISO 4762 |
| 120-6  | Screw (pump coupling)                     | up to 4.0 kW<br>from 5.5 kW to 7.5 kW<br>above 11 kW | Galvanized steel                                      | M6x25                 | ISO 4762 |
|        |   |  |   | M8x20                 | ISO 4762 |
|        |   |  |   | M10x30                | ISO 4762 |
|        |   |  |   |                       |          |
| 120-11 | Screw (counterflange)                     | A2-70  |   |                       |          |
| 120-13 | Screw for motor                           | MEC 80<br>MEC 90-100-112<br>MEC 132<br>MEC 160       | Galvanized steel 8.8 strength class ISO 898/1         | M6x20                 | ISO 4017 |
|        |   |  |   | M8x20                 | ISO 4017 |
|        |   |  |   | M12x40                | UNI 5739 |
|        |   |  |   | M16x50                | ISO 4017 |
| 128-1  | Nut (tie rod)                             | A2-70  |   | M12                   | ISO 4032 |
| 128-3  | Nut (motor)                               | MEC 132<br>MEC 160                                   | Galvanized steel                                      | M12                   | ISO 4032 |
|        |   |  |   | M16                   | ISO 4032 |
| 128-5  | Nut (tie rod)                             | A2-70  |   | M12                   | UNI 7474 |
| 128-6  | Nut (aluminium coupling)                  | MEC 71-80-90-100-112                                 | Galvanized steel                                      | M6                    | ISO 4032 |
| 130-1  | Set screw                                 | EN 1.4301 (AISI 304)                                 |   | M5x8                  | ISO 4026 |
| 130-2  | Screw for coupling guard                  | A2-70  |   | M5x6                  | UNI 7687 |
| 131-1  | Pin for shaft                             | Carbon Steel   |   | Ø5x35                 | ISO 2338 |
| 135-1  | Washer (tie rod)                          | EN 1.4301 (AISI 304)                                 |   | Ø13x24x2.5            | ISO 7089 |
| 135-6  | Washer (aluminium coupling)               | up to 4.0 kW   | Carbon Steel  | Ø6                    |          |
| 137-1  | Impeller spacer                           | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 |                       |          |
| 140    | Coupling                                  | up to 4.0 kW<br>above 5.5 kW                         | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)<br>Cast Iron |                       |          |
| 160    | Base                                      | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)             |   |                       |          |
| 162    | Motor bracket                             | Cast iron EN-GJL-250                                 |   |                       |          |
| 212    | Priming plug                              | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 | G 3/8                 |          |
| 212-1  | Drainage plug                             | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 | G 3/8                 |          |
| 212-2  | Venting plug                              | EN 1.4404 (AISI 316L)                                |   |                       |          |
| 219    | Counter flange                            | flange type: N                                       | EN 1.4308 (ASTM CF8)                                  | EN 1.4408 (ASTM CF8M) |          |
|        |   | flange type: LF-F-V-C                                | EN 1.4301 (AISI 304)                                  | EN 1.4404 (AISI 316L) |          |
| 245    | Coupling guard                            | EN 1.4301 (AISI 304)                                 |   |                       |          |
| 273-1  | Washer (drainage plug)                    | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                                 |                       |          |
| 615    | Flange                                    | Nodular Cast Iron                                    |   |                       |          |

### QUANTITY FOR MODEL EVMS(L)10

| Pump Type        | N° |     |    |    |    |   |   |    |    |      |      |      |      |      |      |    |    |    |      |    |      |     |     |       |       |       |       |        |       |       |       |   |   |
|------------------|----|-----|----|----|----|---|---|----|----|------|------|------|------|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|--------|-------|-------|-------|---|---|
|                  | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31 | 32-1 | 43-2 | 43-3 | 43-6 | 44-1 | 45** | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-3* | 115-4 | 115-5 | 115-5 |   |   |
| EVMS(L)10 1/0.75 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 1  | 1  | 1    | /    | 2    | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 1   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1     | 1 | 1 |
| EVMS(L)10 2/1.5  | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1  | 1    | /    | 2    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 2   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1     | 1 |   |
| EVMS(L)10 3/2.2  | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1  | 1    | 1    | 2    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 3   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1     | 1 |   |
| EVMS(L)10 4/3.0  | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1  | 1    | 2    | 2    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 4   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1     | 1 |   |
| EVMS(L)10 5/4.0  | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1  | 1    | 3    | 2    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 5   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1     | 1 |   |
| EVMS(L)10 6/4.0  | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1  | 1    | 4    | 2    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 6   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1     | 1 |   |
| EVMS(L)10 7/5.5  | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1  | 1    | 5    | 2    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 7   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1     | 1 |   |
| EVMS(L)10 8/5.5  | 1  | 1   | 5  | 2  | 1  | 1 | 1 | 8  | 1  | 1    | 5    | 3    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 8   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1     | 1 |   |
| EVMS(L)10 9/5.5  | 1  | 1   | 6  | 2  | 1  | 1 | 1 | 9  | 1  | 1    | 6    | 3    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 9   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1     | 1 |   |
| EVMS(L)10 10/7.5 | 1  | 1   | 7  | 2  | 1  | 1 | 1 | 10 | 1  | 1    | 7    | 3    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 10  | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1     | 1 |   |
| EVMS(L)10 11/7.5 | 1  | 1   | 8  | 2  | 1  | 1 | 1 | 11 | 1  | 1    | 8    | 3    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 11  | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1     | 1 |   |
| EVMS(L)10 12/7.5 | 1  | 1   | 9  | 2  | 1  | 1 | 1 | 12 | 1  | 1    | 9    | 3    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 12  | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1     | 1 |   |
| EVMS(L)10 14/11  | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1  | 1    | 11   | 3    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 14  | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1     | 1 |   |
| EVMS(L)10 15/11  | 1  | 1   | 12 | 2  | 1  | 1 | 1 | 15 | 1  | 1    | 12   | 3    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 15  | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1     | 1 |   |
| EVMS(L)10 16/11  | 1  | 1   | 13 | 2  | 1  | 1 | 1 | 16 | 1  | 1    | 13   | 3    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 16  | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1     | 1 |   |

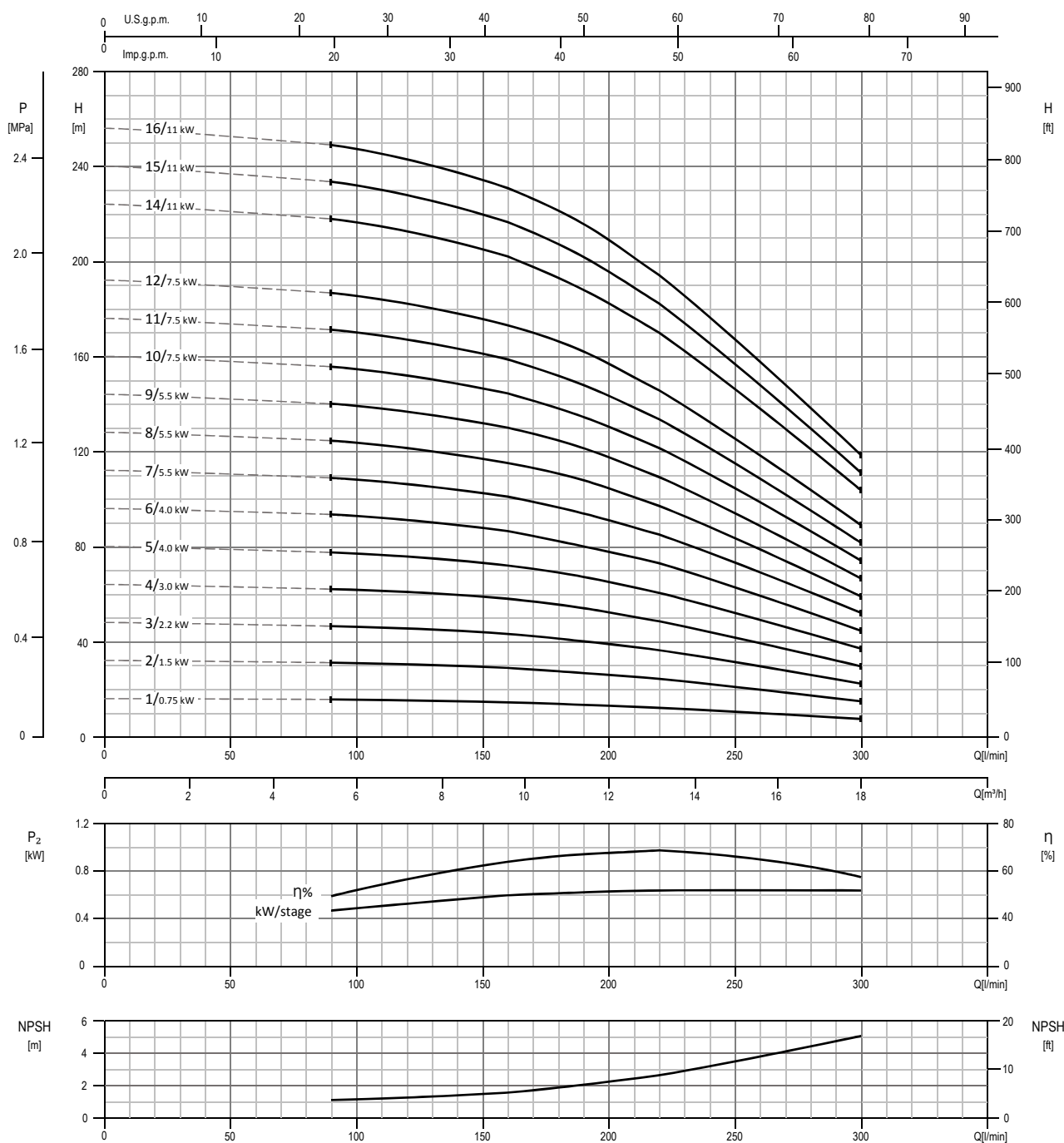
| Pump Type        | N°    |       |       |         |        |       |       |       |       |       |       |       |       |       |       |     |     |     |     |       |       |      |     |       |       |
|------------------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|------|-----|-------|-------|
|                  | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-3 | 128-5 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 160 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 | 615** |
| EVMS(L)10 1/0.75 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)10 2/1.5  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)10 3/2.2  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)10 4/3.0  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)10 5/4.0  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)10 6/4.0  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)10 7/5.5  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1     | 1   | 1   | 1   | 2   | 1     | 2     | 2    | 2   | 2     | 2     |
| EVMS(L)10 8/5.5  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1     | 1   | 1   | 1   | 2   | 1     | 2     | 2    | 2   | 2     | 2     |
| EVMS(L)10 9/5.5  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1     | 1   | 1   | 1   | 2   | 1     | 2     | 2    | 2   | 2     | 2     |
| EVMS(L)10 10/7.5 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1     | 1   | 1   | 1   | 2   | 1     | 2     | 2    | 2   | 2     | 2     |
| EVMS(L)10 11/7.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 1   | 2   | 1     | /     | 2    | 2   | 2     | 2     |
| EVMS(L)10 12/7.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 1   | 2   | 1     | /     | 2    | 2   | 2     | 2     |
| EVMS(L)10 14/11  | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 1   | 2   | 1     | /     | 2    | 2   | 2     | 2     |
| EVMS(L)10 15/11  | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 1   | 2   | 1     | /     | 2    | 2   | 2     | 2     |
| EVMS(L)10 16/11  | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 1   | 2   | 1     | /     | 2    | 2   | 2     | 2     |

\* only for Oval flange (N)

\*\* only for Loose round flange (LF)

128-6 / 135-6: with Aluminium coupling (see drawing pag.18)

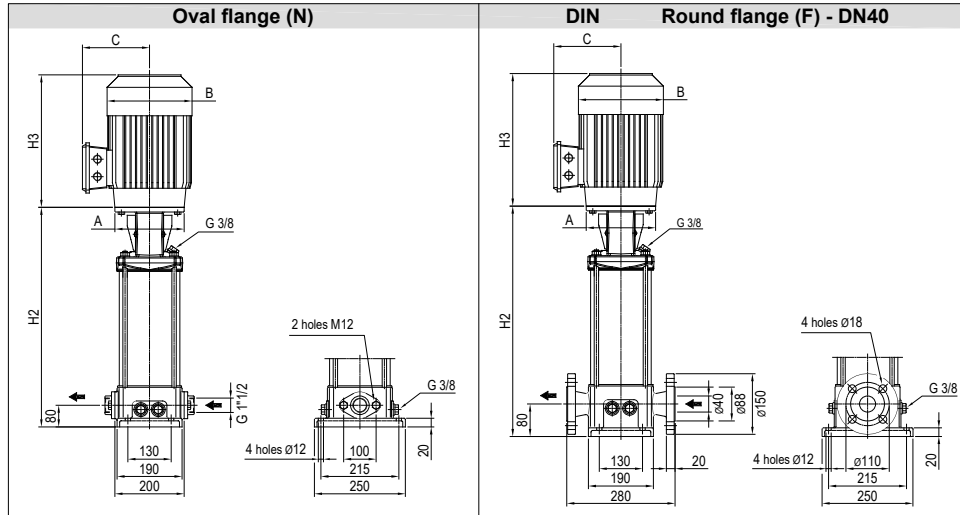
PERFORMANCE CURVE  
EVMSG10



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMSG10

#### Dimensional sketch



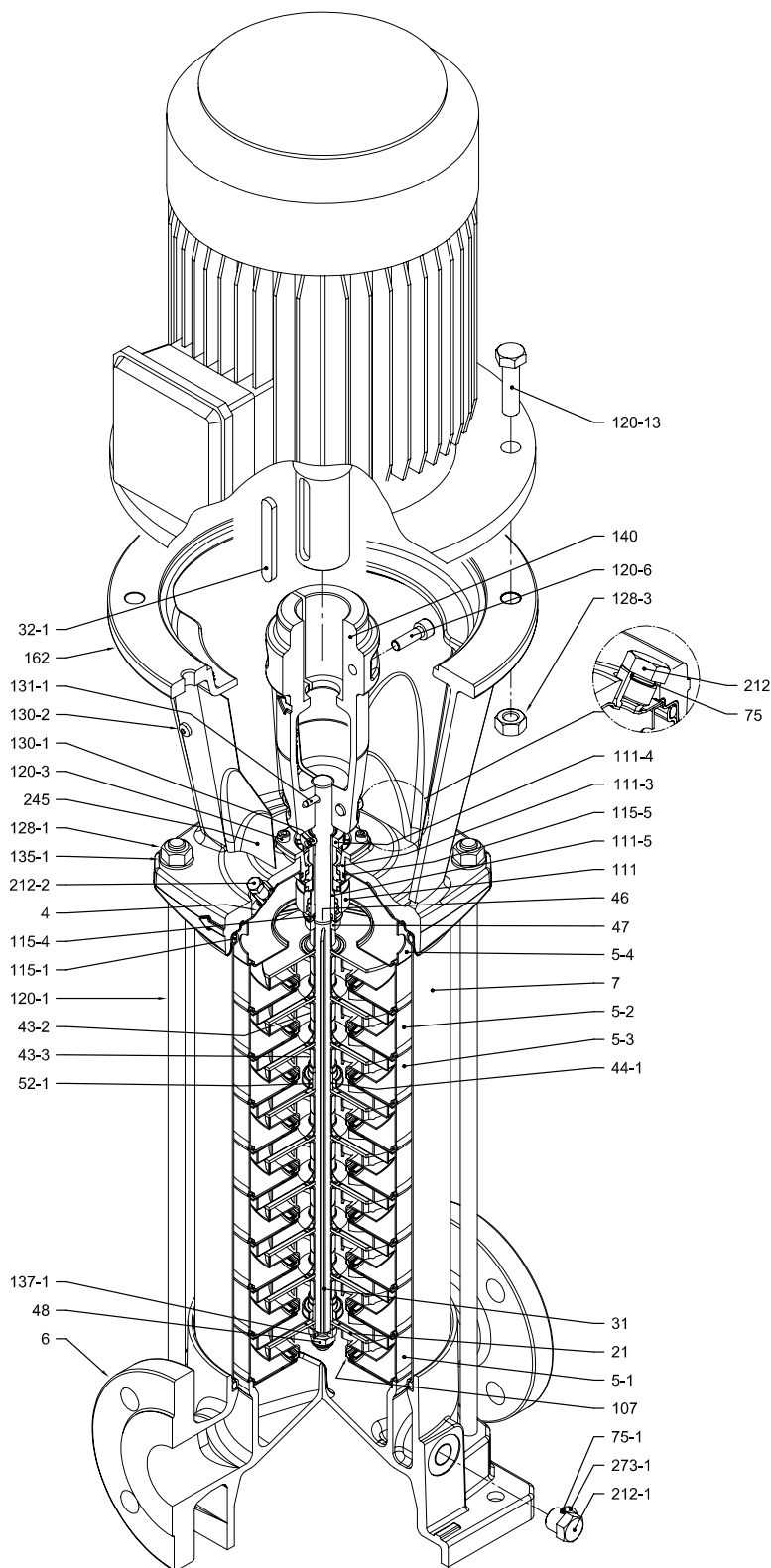
#### Dimensions [mm] and Weights [Kg]

| Pump Type      | Pmax [MPa] | Motor |      |     |     |     | Oval flange (N) |       |             |                     | Round flange (F) |       |             |                     |
|----------------|------------|-------|------|-----|-----|-----|-----------------|-------|-------------|---------------------|------------------|-------|-------------|---------------------|
|                |            | kW    | Size | A   | 3 ~ |     | H2              | H2+H3 | Weight Pump | Weight Pump + Motor | H2               | H2+H3 | Weight Pump | Weight Pump + Motor |
|                |            |       |      | Ø   | B   | C   |                 |       |             |                     |                  |       |             |                     |
| EVMSG10 1/0.75 | 1.6        | 0.75  | 80   | 120 | 141 | 102 | 343             | 576   | 20.3        | 28.8                | 343              | 576   | 24.1        | 32.6                |
| EVMSG10 2/1.5  | 1.6        | 1.5   | 90   | 140 | 160 | 119 | 353             | 644   | 20.5        | 34.0                | 353              | 644   | 24.3        | 37.8                |
| EVMSG10 3/2.2  | 1.6        | 2.2   | 90   | 140 | 160 | 119 | 383             | 674   | 21.4        | 36.4                | 383              | 674   | 25.2        | 40.2                |
| EVMSG10 4/3.0  | 1.6        | 3.0   | 100  | 160 | 176 | 123 | 423             | 765   | 22.3        | 44.3                | 423              | 765   | 26.1        | 48.1                |
| EVMSG10 5/4.0  | 1.6        | 4.0   | 112  | 160 | 193 | 138 | 453             | 817   | 23.2        | 51.7                | 453              | 817   | 27          | 55.5                |
| EVMSG10 6/4.0  | 1.6        | 4.0   | 112  | 160 | 193 | 138 | 483             | 847   | 24          | 52.5                | 483              | 847   | 27.8        | 56.3                |
| EVMSG10 7/5.5  | 1.6        | 5.5   | 132  | 300 | 220 | 152 | 611             | 1010  | 31.9        | 70.9                | 611              | 1010  | 35.7        | 74.7                |
| EVMSG10 8/5.5  | 1.6        | 5.5   | 132  | 300 | 220 | 152 | 641             | 1040  | 33.1        | 72.1                | 641              | 1040  | 36.9        | 75.9                |
| EVMSG10 9/5.5  | 1.6        | 5.5   | 132  | 300 | 220 | 152 | 671             | 1070  | 33.9        | 72.9                | 671              | 1070  | 37.7        | 76.7                |
| EVMSG10 10/7.5 | 1.6        | 7.5   | 132  | 300 | 220 | 152 | 701             | 1120  | 34.8        | 80.8                | 701              | 1120  | 38.6        | 84.6                |
| EVMSG10 11/7.5 | 2.5        | 7.5   | 132  | 300 | 220 | 152 | -               | -     | -           | -                   | 731              | 1150  | 40.2        | 86.2                |
| EVMSG10 12/7.5 | 2.5        | 7.5   | 132  | 300 | 220 | 152 | -               | -     | -           | -                   | 761              | 1180  | 41.1        | 87.1                |
| EVMSG10 14/11  | 2.5        | 11    | 160  | 350 | 259 | 180 | -               | -     | -           | -                   | 851              | 1291  | 51.1        | 113.6               |
| EVMSG10 15/11  | 2.5        | 11    | 160  | 350 | 259 | 180 | -               | -     | -           | -                   | 881              | 1321  | 52.1        | 114.6               |
| EVMSG10 16/11  | 2.5        | 11    | 160  | 350 | 259 | 180 | -               | -     | -           | -                   | 911              | 1351  | 53          | 115.5               |

1.6 MPa=16 bar;      2.5 MPa=25 bar  
- not available model

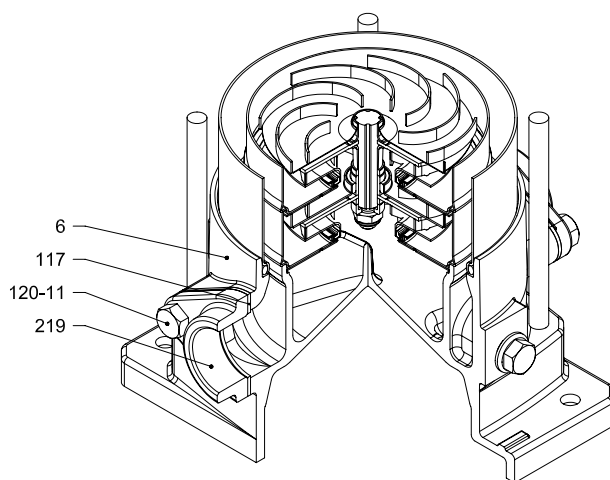
SECTIONAL VIEW  
EVMSG10

EVMSG10



with Round flange (F)

### PIPE CONNECTION EVMSG10



with Oval flange (N)

SECTIONAL TABLE  
EVMSG10

| N°     | PART NAME                                 | MATERIAL<br>EVMSG                             | DIMENSIONS                              | STANDARD |          |
|--------|---|---|---|----------|----------|
| 4      | Casing cover                              | EN 1.4301 (AISI 304)                          |   |          |          |
| 5-1    | Suction casing                            | EN 1.4301 (AISI 304)                          |   |          |          |
| 5-2    | Intermediate casing                       | EN 1.4301 (AISI 304)                          |   |          |          |
| 5-3    | Intermediate casing with bearing          | EN 1.4301 (AISI 304)                          |   |          |          |
| 5-4    | Discharge casing                          | EN 1.4301 (AISI 304)                          |   |          |          |
| 6      | Bottom casing                             | Cast Iron EN G.JL-250                         |   |          |          |
| 7      | Outer casing                              | EN 1.4301 (AISI 304)                          |   |          |          |
| 21     | Impeller                                  | EN 1.4301 (AISI 304)                          |   |          |          |
| 31     | Shaft                                     | EN 1.4301 (AISI 304)                          |   |          |          |
| 32-1   | Adjuster key                              | EN 1.4301 (AISI 304)                          |   |          |          |
| 43-2   | Shaft sleeve (intermediate)               | EN 1.4301 (AISI 304)                          |   |          |          |
| 43-3   | Shaft sleeve (bearing + discharge casing) | EN 1.4301 (AISI 304)                          |   |          |          |
| 44-1   | Shaft sleeve bearing                      | Tungsten carbide                              |   |          |          |
| 46     | Ring (mechanical seal)                    | EN 1.4404 (AISI 316L)                         |   |          |          |
| 47     | Ring holder                               | EN 1.4404 (AISI 316L)                         |   |          |          |
| 48     | Impeller nut                              | EN 1.4301 (AISI 304) with inox insert         | M10                                     |          |          |
| 52-1   | Sleeve bearing                            | Tungsten carbide                              |   |          |          |
| 75     | O-Ring (priming plug)                     | EPDM / FPM                                    | Ø12.37x2.62                             | OR 3050  |          |
| 75-1   | O-Ring (drainage plug)                    | EPDM / FPM                                    |   |          |          |
| 107    | Liner ring                                | EN 1.4301 (AISI 304) + PPS                    |   |          |          |
| 111    | Mechanical seal                           | see pages 6-7                                 |   |          |          |
| 111-3  | Mechanical seal seat                      | EN 1.4308 (ASTM CF8)                          |   |          |          |
| 111-4  | Seal holder                               | EN 1.4301 (AISI 304)                          |   |          |          |
| 111-5  | Mechanical seal cartridge sleeve          | EN 1.4301 (AISI 304)                          |   |          |          |
| 115-1  | O-Ring (outer casing)                     | EPDM / FPM                                    | Ø164.46x5.34                            | OR 6945  |          |
| 115-4  | O-Ring (cartridge sleeve)                 | EPDM / FPM                                    | Ø15.88x2.62                             | OR 4093  |          |
| 115-5  | O-Ring (seal flange)                      | EPDM / FPM                                    | Ø37.77x2.62                             | OR 4175  |          |
| 117    | Flange gasket                             | EPDM / FPM                                    |   |          |          |
| 120-1  | Tie-rod                                   | EN 1.4057 (AISI 431)                          | M12                                     |          |          |
| 120-3  | Screw (seal flange)                       | A2-70   | M5x12                                   | ISO 4762 |          |
| 120-6  | Screw (pump coupling)                     | Galvanized steel                              | up to 4.0 kW                            | M6x25    | ISO 4762 |
|        |   |   | from 5.5 kw to 7.5 kW                   | M8x20    | ISO 4762 |
|        |   |   | above 11 kW                             | M10x30   | ISO 4762 |
| 120-11 | Screw (counterflange)                     | A2-70   |   |          |          |
| 120-13 | Screw for motor                           | Galvanized steel 8.8 strength class ISO 898/1 | MEC 80                                  | M6x20    | ISO 4017 |
|        |   |   | MEC 90-100-112                          | M8x20    | ISO 4017 |
|        |   |   | MEC 132                                 | M12x40   | UNI 5739 |
|        |   |   | MEC 160                                 | M16x50   | ISO 4017 |
| 128-1  | Nut (tie rod)                             | A2-70   | M12                                     | ISO 4032 |          |
| 128-3  | Nut (motor)                               | Galvanized steel                              | MEC 132                                 | M12      | ISO 4032 |
|        |   |   | MEC 160                                 | M16      | ISO 4032 |
| 128-6  | Nut (aluminium coupling)                  | MEC 71-80-90-100-112                          | Galvanized steel                        | M6       | ISO 4032 |
| 130-1  | Set screw                                 | EN 1.4301 (AISI 304)                          | M5x8                                    | ISO 4026 |          |
| 130-2  | Screw for coupling guard                  | A2-70   | M5x6                                    | UNI 7687 |          |
| 131-1  | Pin for shaft                             | Carbon Steel                                  | Ø5x35                                   | ISO 2338 |          |
| 135-1  | Washer (tie rod)                          | EN 1.4301 (AISI 304)                          | Ø13x24x2.5                              | ISO 7089 |          |
| 135-6  | Washer (aluminium coupling)               | up to 4.0 kW                                  | Carbon Steel                            | Ø6       |          |
| 137-1  | Impeller spacer                           | EN 1.4301 (AISI 304)                          |   |          |          |
| 140    | Coupling                                  | up to 4.0 kW                                  | Die cast Aluminium EN AB-AISI11Cu2 (Fe) |          |          |
|        |   | above 5.5 kW                                  | Cast Iron                               |          |          |
| 162    | Motor bracket                             | Cast iron EN-GJL-250                          |   |          |          |
| 212    | Priming plug                              | EN 1.4301 (AISI 304)                          | G 3/8                                   |          |          |
| 212-1  | Drainage plug                             | EN 1.4301 (AISI 304)                          | G 3/8                                   |          |          |
| 212-2  | Venting plug                              | EN 1.4404 (AISI 316L)                         |   |          |          |
| 219    | Counter flange                            | flange type: N                                | Galvanized steel                        |          |          |
|        |   | flange type: F                                | Cast Iron EN-GJL-250                    |          |          |
| 245    | Coupling guard                            | EN 1.4301 (AISI 304)                          |   |          |          |
| 273-1  | Washer (drainage plug)                    | EN 1.4301 (AISI 304)                          |   |          |          |



### QUANTITY FOR MODEL EVMSG10

2.11

EVMSG10

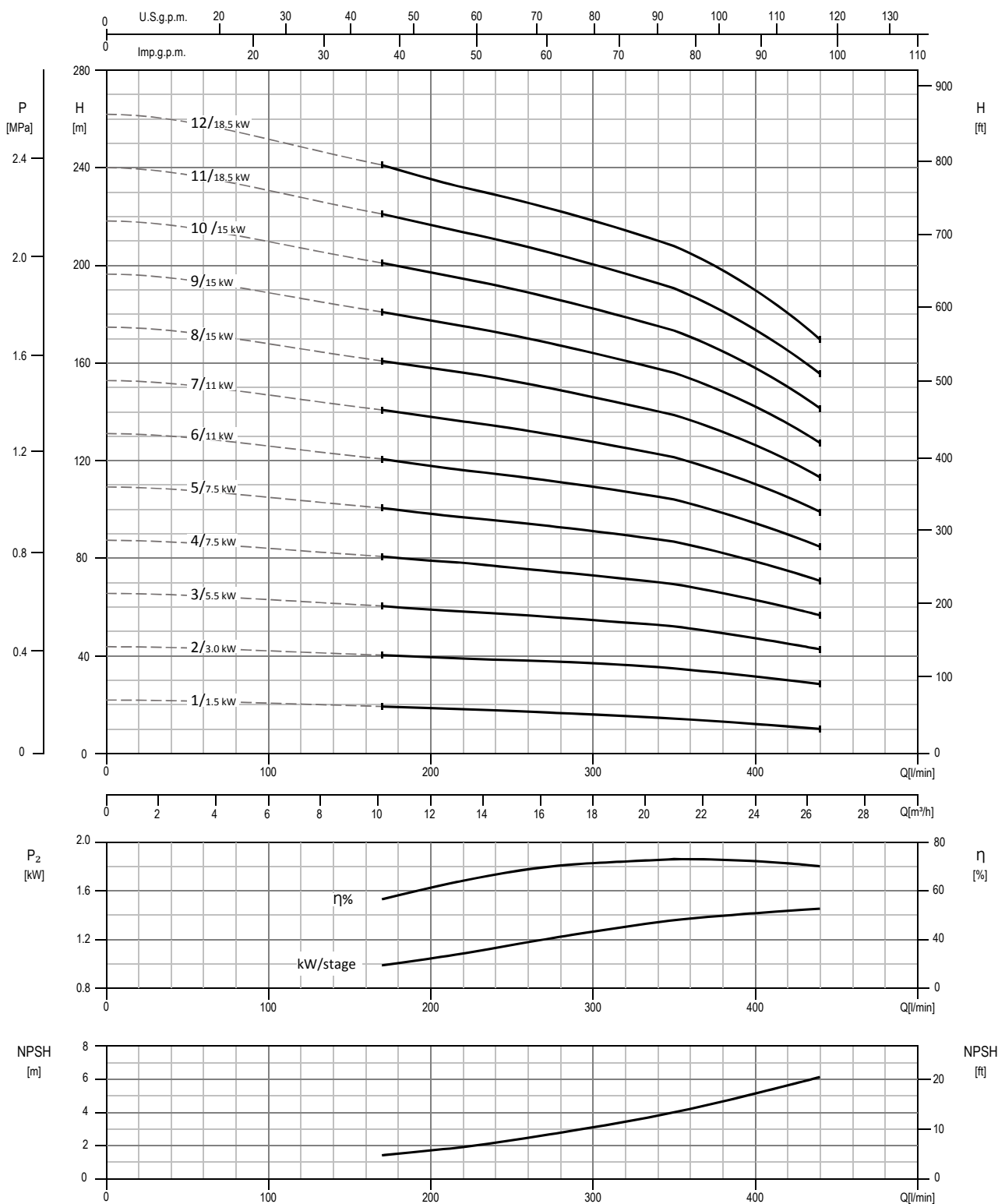
| Pump Type      | N° |     |    |    |    |   |   |    |    |      |      |      |      |      |    |    |    |      |    |      |     |     |       |       |       |       |       |       |       |
|----------------|----|-----|----|----|----|---|---|----|----|------|------|------|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|-------|-------|-------|
|                | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31 | 32-1 | 43-2 | 43-3 | 43-6 | 44-1 | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 115-5 |
| EVMSG10 1/0.75 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 1  | 1  | 1    | /    | 2    | 1    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 1   | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     |
| EVMSG10 2/1.5  | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1  | 1    | /    | 2    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 2   | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     |
| EVMSG10 3/2.2  | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1  | 1    | 1    | 2    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 3   | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     |
| EVMSG10 4/3.0  | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1  | 1    | 2    | 2    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 4   | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     |
| EVMSG10 5/4.0  | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1  | 1    | 3    | 2    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 5   | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     |
| EVMSG10 6/4.0  | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1  | 1    | 4    | 2    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 6   | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     |
| EVMSG10 7/5.5  | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1  | 1    | 5    | 2    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 7   | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     |
| EVMSG10 8/5.5  | 1  | 1   | 5  | 2  | 1  | 1 | 1 | 8  | 1  | 1    | 5    | 3    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 8   | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     |
| EVMSG10 9/5.5  | 1  | 1   | 6  | 2  | 1  | 1 | 1 | 9  | 1  | 1    | 6    | 3    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 9   | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     |
| EVMSG10 10/7.5 | 1  | 1   | 7  | 2  | 1  | 1 | 1 | 10 | 1  | 1    | 7    | 3    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 10  | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     |
| EVMSG10 11/7.5 | 1  | 1   | 8  | 2  | 1  | 1 | 1 | 11 | 1  | 1    | 8    | 3    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 11  | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     |
| EVMSG10 12/7.5 | 1  | 1   | 9  | 2  | 1  | 1 | 1 | 12 | 1  | 1    | 9    | 3    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 12  | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     |
| EVMSG10 14/11  | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1  | 1    | 11   | 3    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 14  | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     |
| EVMSG10 15/11  | 1  | 1   | 12 | 2  | 1  | 1 | 1 | 15 | 1  | 1    | 12   | 3    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 15  | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     |
| EVMSG10 16/11  | 1  | 1   | 13 | 2  | 1  | 1 | 1 | 16 | 1  | 1    | 13   | 3    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 16  | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     |

| Pump Type      | N°   |       |       |       |         |        |       |       |       |       |       |       |       |       |       |     |     |     |       |       |      |     |       |
|----------------|------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-------|-------|------|-----|-------|
|                | 117* | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-3 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 |
| EVMSG10 1/0.75 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 2/1.5  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 3/2.2  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 4/3.0  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 5/4.0  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 6/4.0  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 7/5.5  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | 2     | 2    | 4   |       |
| EVMSG10 8/5.5  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | 2     | 2    | 4   |       |
| EVMSG10 9/5.5  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | 2     | 2    | 4   |       |
| EVMSG10 10/7.5 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | 2     | 2    | 4   |       |
| EVMSG10 11/7.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG10 12/7.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG10 14/11  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG10 15/11  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG10 16/11  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |

\* only for Oval flange (N)  
128-6 / 135-6: with Aluminium coupling (see drawing pag.18)

PERFORMANCE CURVE  
EVMS(L)15

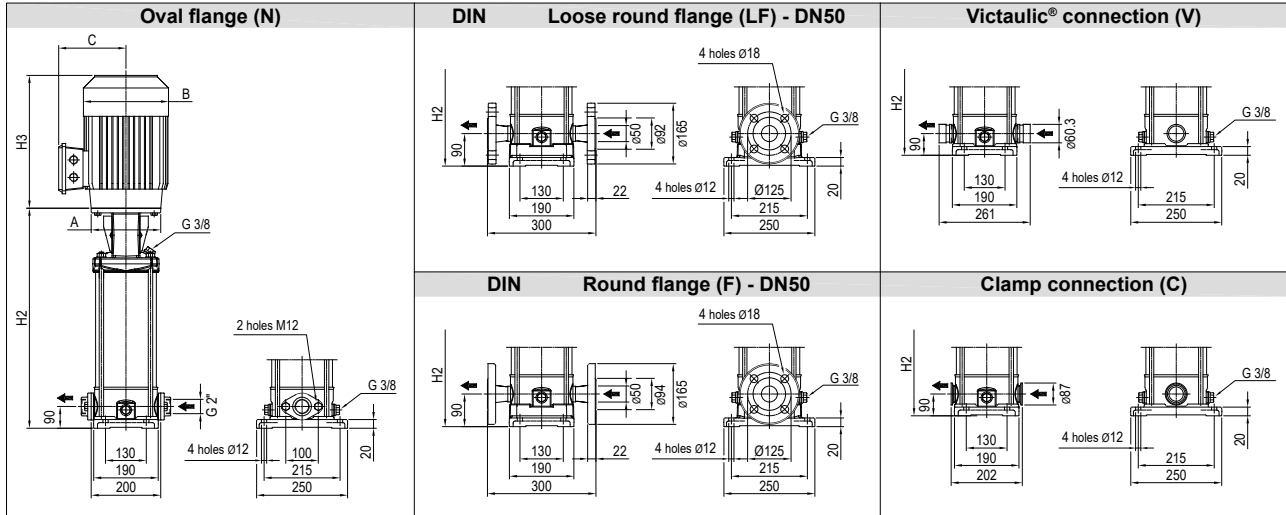
EVMS(L)15



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)15

#### Dimensional sketch



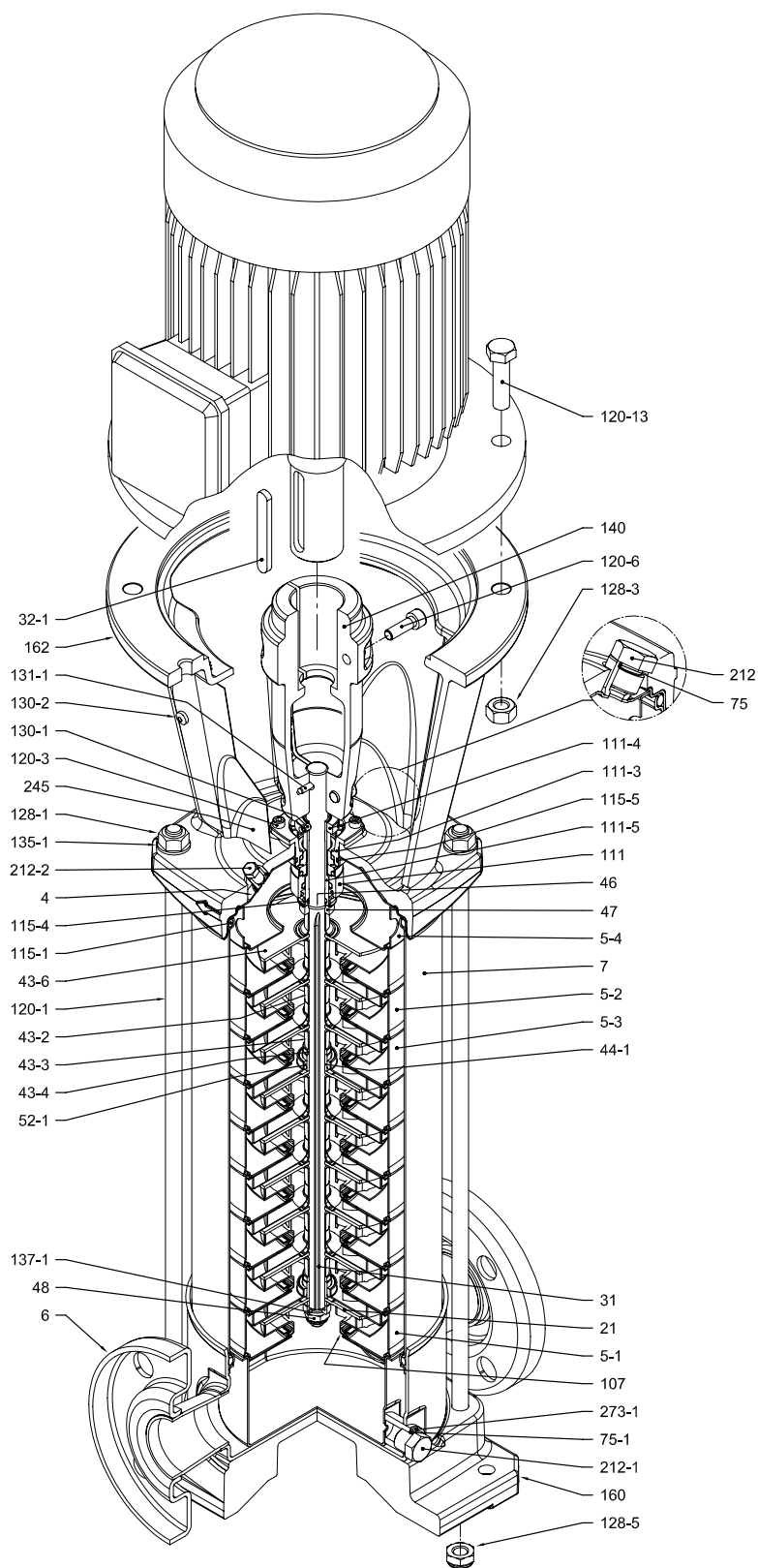
#### Dimensions [mm] and Weights [Kg]

| Pump Type         | P <sub>max</sub> [MPa] | Motor |      |     | Oval flange (N) |     |       |             | Loose round flange (LF)<br>Round flange (F) |       |       |             | Victaulic® connection (V)<br>Clamp connection (C) |       |       |             |                     |       |
|-------------------|------------------------|-------|------|-----|-----------------|-----|-------|-------------|---|-------|-------|-------------|---|-------|-------|-------------|---------------------|-------|
|                   |                        | kW    | Size | A   | 3 ~             | H2  | H2+H3 | Weight Pump | Weight Pump + Motor                         | H2    | H2+H3 | Weight Pump | Weight Pump + Motor                               | H2    | H2+H3 | Weight Pump | Weight Pump + Motor |       |
|                   |                        |       | Ø    | B   | C               |     |       |             |   |       |       |             |   |       |       |             |                     |       |
| EVMS(L)15 1/1.5   | 1.6                    | 1.5   | 90   | 140 | 160             | 119 | 387   | 678         | 16.9  | 30.4  | 387   | 678         | 18.8  | 32.3  | 387   | 678         | 16.9                | 30.4  |
| EVMS(L)15 2/3.0   | 1.6                    | 3.0   | 100  | 160 | 176             | 123 | 397   | 739         | 17.3  | 39.3  | 397   | 739         | 19.1  | 41.1  | 397   | 739         | 17.2                | 39.2  |
| EVMS(L)15 3/5.5   | 1.6                    | 5.5   | 132  | 300 | 220             | 152 | 534   | 933         | 25.5  | 64.5  | 534   | 933         | 27.4  | 66.4  | 534   | 933         | 25.5                | 64.5  |
| EVMS(L)15 4/7.5   | 1.6                    | 7.5   | 132  | 300 | 220             | 152 | 574   | 993         | 26.7  | 72.7  | 574   | 993         | 28.6  | 74.6  | 574   | 993         | 26.7                | 72.7  |
| EVMS(L)15 5/7.5   | 1.6                    | 7.5   | 132  | 300 | 220             | 152 | 614   | 1033        | 27.8  | 73.8  | 614   | 1033        | 29.7  | 75.7  | 614   | 1033        | 27.8                | 73.8  |
| EVMS(L)15 6/11    | 1.6                    | 11    | 160  | 350 | 259             | 180 | 684   | 1124        | 37.7  | 100.2 | 684   | 1124        | 39.5  | 102.0 | 684   | 1124        | 37.6                | 100.1 |
| EVMS(L)15 7/11    | 1.6                    | 11    | 160  | 350 | 259             | 180 | 724   | 1164        | 39.5  | 102.0 | 724   | 1164        | 41.4  | 103.9 | 724   | 1164        | 39.5                | 102.0 |
| EVMS(L)15 8/15    | 2.5                    | 15    | 160  | 350 | 311             | 240 | -     | -           | -   | -     | 764   | 1259        | 42.7  | 143.7 | 764   | 1259        | 40.8                | 141.8 |
| EVMS(L)15 9/15    | 2.5                    | 15    | 160  | 350 | 311             | 240 | -     | -           | -   | -     | 804   | 1299        | 44  | 145.0 | 804   | 1299        | 42.1                | 143.1 |
| EVMS(L)15 10/15   | 2.5                    | 15    | 160  | 350 | 311             | 240 | -     | -           | -   | -     | 844   | 1339        | 45.3  | 146.3 | 844   | 1339        | 43.4                | 144.4 |
| EVMS(L)15 11/18.5 | 2.5                    | 18.5  | 160  | 350 | 311             | 240 | -     | -           | -   | -     | 884   | 1379        | 46.6  | 155.6 | 884   | 1379        | 44.7                | 153.7 |
| EVMS(L)15 12/18.5 | 2.5                    | 18.5  | 160  | 350 | 311             | 240 | -     | -           | -   | -     | 924   | 1419        | 47.9  | 156.9 | 924   | 1419        | 46                  | 155.0 |

1.6 MPa=16 bar;      2.5 MPa=25 bar  
- not available model

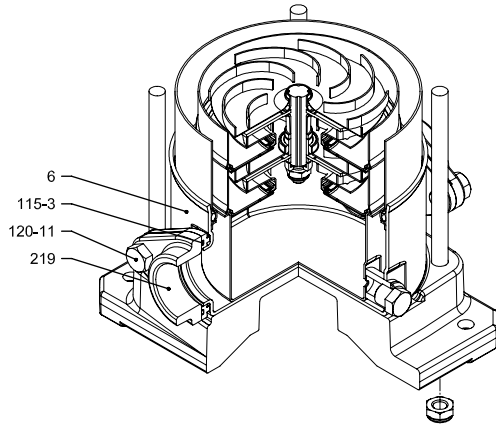
SECTIONAL VIEW  
EVMS(L)15

EVMS(L)15

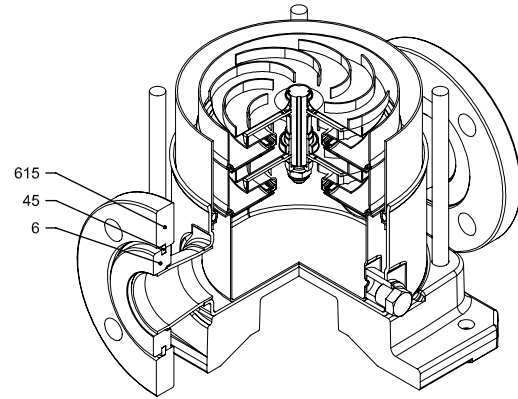


with Round flange (F)

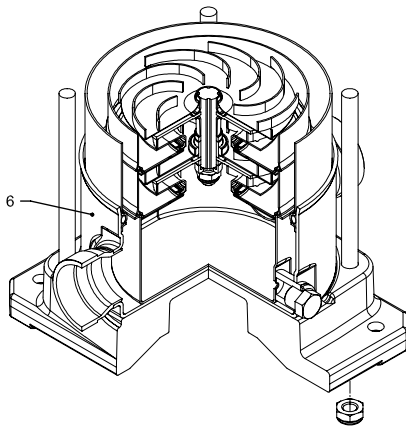
### PIPE CONNECTION EVMS(L)15



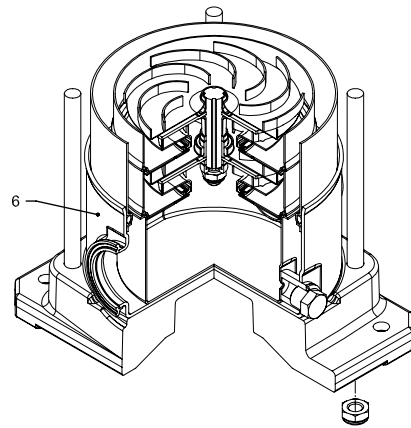
with Oval flange (N)



with Loose round flange (LF)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE  
EVMS(L)15

| N°     | PART NAME                                 | MATERIAL   |  | DIMENSIONS            | STANDARD |
|--------|---|--|--|-----------------------|----------|
|        |   | EVMS   | EVMSL  |                       |          |
| 4      | Casing cover                              | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 5-1    | Suction casing                            | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 5-2    | Intermediate casing                       | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 5-3    | Intermediate casing with bearing          | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 5-4    | Discharge casing                          | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 6      | Bottom casing                             | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 7      | Outer casing                              | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 21     | Impeller                                  | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 31     | Shaft                                     | EN 1.4301 (AISI 304) -<br>EN 1.4462 (AISI 329A)      | EN 1.4404 (AISI 316L) -<br>EN 1.4462 (AISI 329A) |                       |          |
| 32-1   | Adjuster key                              | EN 1.4301 (AISI 304)                                 |  |                       |          |
| 43-2   | Shaft sleeve (intermediate)               | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 43-3   | Shaft sleeve (bearing + discharge casing) | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 43-4   | Shaft sleeve (adjustment)                 | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 43-6   | Washer                                    | EN 1.4404 (AISI 316L)                                |  | Ø26x2.5               |          |
| 44-1   | Shaft sleeve bearing                      | Tungsten carbide                                     |  |                       |          |
| 45     | Flange holder                             | EN 1.4301 (AISI 304)                                 |  |                       |          |
| 46     | Ring (mechanical seal)                    | EN 1.4404 (AISI 316L)                                |  |                       |          |
| 47     | Ring holder                               | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 48     | Impeller nut                              | EN 1.4301 (AISI 304)<br>with inox insert             | EN 1.4401 (AISI 316)<br>with inox insert         | M10                   |          |
| 52-1   | Sleeve bearing                            | Tungsten carbide                                     |  |                       |          |
| 75     | O-Ring (priming plug)                     | EPDM / FPM   |  | Ø12.37x2.62           | OR 3050  |
| 75-1   | O-Ring (drainage plug)                    | EPDM / FPM   |  |                       |          |
| 107    | Liner ring                                | EN 1.4301 (AISI 304) + PPS                           | EN 1.4404 (AISI 316L) + PPS                      |                       |          |
| 111    | Mechanical seal                           | see pages 6-7  |  |                       |          |
| 111-3  | Mechanical seal seat                      | EN 1.4308 (ASTM CF8)                                 | EN 1.4408 (ASTM CF8M)                            |                       |          |
| 111-4  | Seal holder                               | EN 1.4301 (AISI 304)                                 |  |                       |          |
| 111-5  | Mechanical seal cartridge sleeve          | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 115-1  | O-Ring (outer casing)                     | EPDM / FPM   |  | Ø164.46x5.34          | OR 6945  |
| 115-3  | O-Ring                                    | EPDM / FPM   |  |                       |          |
| 115-4  | O-Ring (cartridge sleeve)                 | EPDM / FPM   |  | Ø15.88x2.62           | OR 4093  |
| 115-5  | O-Ring (seal flange)                      | EPDM / FPM   |  | Ø37.77x2.62           | OR 4175  |
| 120-1  | Tie-rod                                   | EN 1.4057 (AISI 431)                                 |  | M12                   |          |
| 120-3  | Screw (seal flange)                       | A2-70  |  | M5x12                 | ISO 4762 |
| 120-6  | Screw (pump coupling)                     | up to 4.0 kW<br>from 5.5 kW to 7.5 kW<br>above 11 kW | Galvanized steel                                 | M6x25                 | ISO 4762 |
|        |   |  |  | M8x20                 | ISO 4762 |
|        |   |  |  | M10x30                | ISO 4762 |
|        |   |  |  |                       |          |
| 120-11 | Screw (counterflange)                     | A2-70  |  |                       |          |
| 120-13 | Screw for motor                           | MEC 80<br>MEC 90-100-112<br>MEC 132<br>MEC 160       | Galvanized steel 8.8 strength class ISO 898/1    | M6x20                 | ISO 4017 |
|        |   |  |  | M8x20                 | ISO 4017 |
|        |   |  |  | M12x40                | ISO 4017 |
|        |   |  |  | M16x50                | ISO 4017 |
| 128-1  | Nut (tie rod)                             | A2-70  |  | M12                   | ISO 4032 |
| 128-3  | Nut (motor)                               | MEC 132<br>MEC 160                                   | Galvanized steel                                 | M12                   | ISO 4032 |
|        |   |  |  | M16                   | ISO 4032 |
| 128-5  | Nut (tie rod)                             | A2-70  |  | M12                   | UNI 7474 |
| 128-6  | Nut (aluminium coupling)                  | MEC 71-80-90-100-112                                 | Galvanized steel                                 | M6                    | ISO 4032 |
| 130-1  | Set screw                                 | EN 1.4301 (AISI 304)                                 |  | M5x8                  | ISO 4026 |
| 130-2  | Screw for coupling guard                  | A2-70  |  | M5x6                  | UNI 7687 |
| 131-1  | Pin for shaft                             | Carbon Steel   |  | Ø5x35                 | ISO 2338 |
| 135-1  | Washer (tie rod)                          | EN 1.4301 (AISI 304)                                 |  | Ø13x24x2.5            | ISO 7089 |
| 135-6  | Washer (aluminium coupling)               | up to 4.0 kW   | Carbon Steel                                     | Ø6                    |          |
| 137-1  | Impeller spacer                           | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 140    | Coupling                                  | up to 4.0 kW<br>above 5.5 kW                         | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)         |                       |          |
|        |   |  | Cast Iron  |                       |          |
| 160    | Base                                      | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)             |  |                       |          |
| 162    | Motor bracket                             | Cast iron EN-GJL-250                                 |  |                       |          |
| 212    | Priming plug                              | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            | G 3/8                 |          |
| 212-1  | Drainage plug                             | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            | G 3/8                 |          |
| 212-2  | Venting plug                              | EN 1.4404 (AISI 316L)                                |  |                       |          |
| 219    | Counter flange                            | flange type: N                                       | EN 1.4308 (ASTM CF8)                             | EN 1.4408 (ASTM CF8M) |          |
|        |   | flange type: LF-F-V-C                                | EN 1.4301 (AISI 304)                             | EN 1.4404 (AISI 316L) |          |
| 245    | Coupling guard                            | EN 1.4301 (AISI 304)                                 |  |                       |          |
| 273-1  | Washer (drainage plug)                    | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 615    | Flange                                    | Carbon Steel   |  |                       |          |

### QUANTITY FOR MODEL EVMS(L)15

| Pump Type         | N° |     |    |    |    |   |   |    |       |      |      |      |      |      |      |      |    |    |    |      |    |      |     |     |       |       |       |       |        |       |       |   |
|-------------------|----|-----|----|----|----|---|---|----|-------|------|------|------|------|------|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|--------|-------|-------|---|
|                   | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31*** | 32-1 | 43-2 | 43-3 | 43-4 | 43-6 | 44-1 | 45** | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-3* | 115-4 | 115-5 |   |
| EVMS(L)15 1/1.5   | 1  | 1   | /  | 1  | 1  | 1 | 1 | 1  | 1     | 1    | /    | 2    | 1    | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 1   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 2/3.0   | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1     | 1    | /    | 2    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 2   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 3/5.5   | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1     | 1    | 1    | 2    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 3   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 4/7.5   | 1  | 1   | 1  | 2  | 1  | 1 | 1 | 4  | 1     | 1    | 2    | 2    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 4   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 5/7.5   | 1  | 1   | 2  | 2  | 1  | 1 | 1 | 5  | 1     | 1    | 3    | 2    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 5   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 6/11    | 1  | 1   | 3  | 2  | 1  | 1 | 1 | 6  | 1     | 1    | 3    | 3    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 6   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 7/11    | 1  | 1   | 4  | 2  | 1  | 1 | 1 | 7  | 1     | 1    | 4    | 3    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 7   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 8/15    | 1  | 1   | 5  | 2  | 1  | 1 | 1 | 8  | 1     | 1    | 5    | 3    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 8   | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |
| EVMS(L)15 9/15    | 1  | 1   | 6  | 2  | 1  | 1 | 1 | 9  | 1     | 1    | 6    | 3    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 9   | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |
| EVMS(L)15 10/15   | 1  | 1   | 7  | 2  | 1  | 1 | 1 | 10 | 1     | 1    | 7    | 3    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 10  | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |
| EVMS(L)15 11/18.5 | 1  | 1   | 8  | 2  | 1  | 1 | 1 | 11 | 1     | 1    | 8    | 3    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 11  | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |
| EVMS(L)15 12/18.5 | 1  | 1   | 9  | 2  | 1  | 1 | 1 | 12 | 1     | 1    | 9    | 3    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 12  | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |

| Pump Type         | N°    |       |       |         |        |       |       |       |       |       |       |       |       |       |       |     |     |     |     |       |       |      |     |       |       |
|-------------------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|------|-----|-------|-------|
|                   | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-3 | 128-5 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 160 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 | 615** |
| EVMS(L)15 1/1.5   | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)15 2/3.0   | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)15 3/5.5   | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)15 4/7.5   | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)15 5/7.5   | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)15 6/11    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)15 7/11    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)15 8/15    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)15 9/15    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)15 10/15   | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)15 11/18.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)15 12/18.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |

\* only for Oval flange (N)

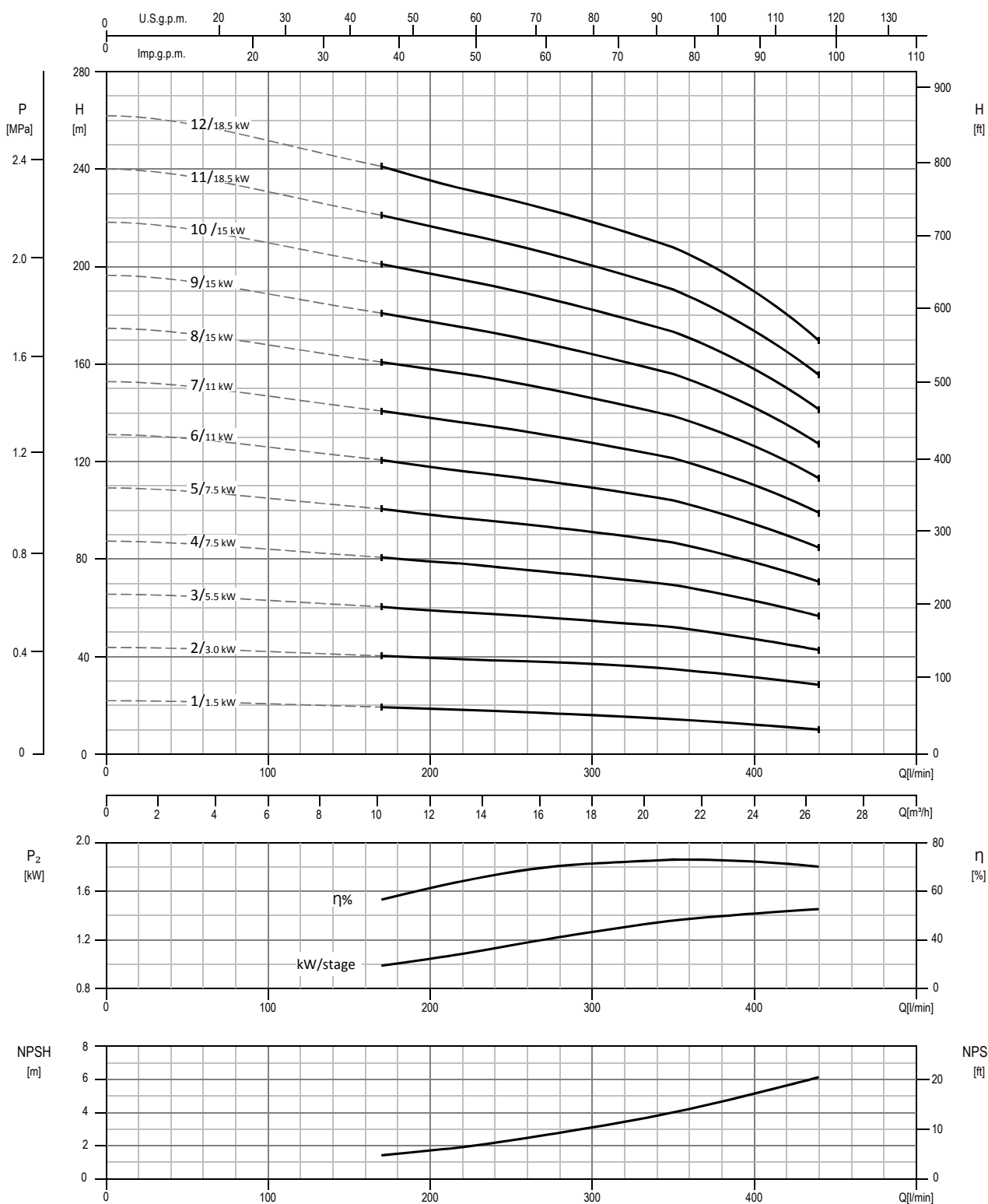
\*\* only for Loose round flange (LF)

\*\*   shaft in EN 1.4462 (AISI 329A)

128-6 / 135-6: with Aluminium coupling (see drawing pag.18)

PERFORMANCE CURVE  
EVMSG15

EVMSG15

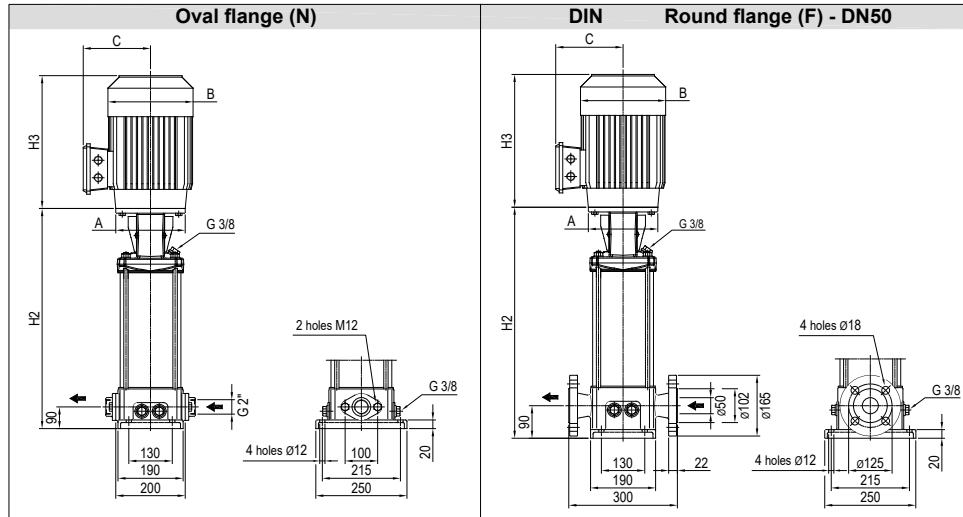


Test standard: ISO 9906:2012 - Grade 3B



### TECHNICAL DATA EVMSG15

#### Dimensional sketch



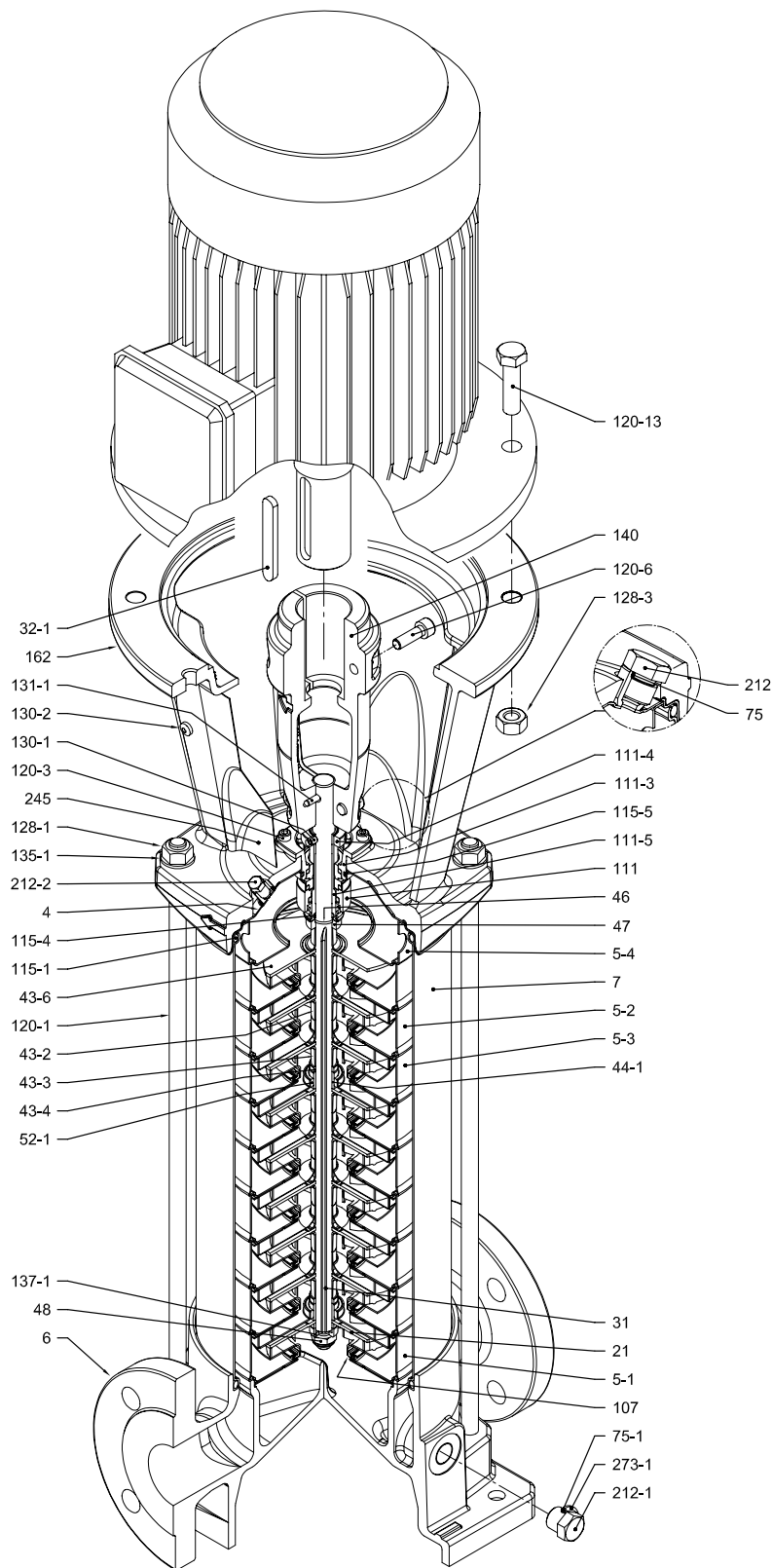
#### Dimensions [mm] and Weights [Kg]

| Pump Type       | Pmax [MPa] | kW   | Motor |     |              | Oval flange (N) |       |             |                     | Round flange (F) |       |             |                     |
|-----------------|------------|------|-------|-----|--------------|-----------------|-------|-------------|---------------------|------------------|-------|-------------|---------------------|
|                 |            |      | Size  | A   | 3 ~<br>Ø B C | H2              | H2+H3 | Weight Pump | Weight Pump + Motor | H2               | H2+H3 | Weight Pump | Weight Pump + Motor |
| EVMSG15 1/1.5   | 1.6        | 1.5  | 90    | 140 | 160 119      | 387             | 678   | 21.2        | 34.7                | 387              | 678   | 26.9        | 40.4                |
| EVMSG15 2/3.0   | 1.6        | 3.0  | 100   | 160 | 176 123      | 397             | 739   | 21.6        | 43.6                | 397              | 739   | 27.3        | 49.3                |
| EVMSG15 3/5.5   | 1.6        | 5.5  | 132   | 300 | 220 152      | 534             | 933   | 29.8        | 68.8                | 534              | 933   | 35.5        | 74.5                |
| EVMSG15 4/7.5   | 1.6        | 7.5  | 132   | 300 | 220 152      | 574             | 993   | 31          | 77.0                | 574              | 993   | 36.7        | 82.7                |
| EVMSG15 5/7.5   | 1.6        | 7.5  | 132   | 300 | 220 152      | 614             | 1033  | 32.1        | 78.1                | 614              | 1033  | 37.8        | 83.8                |
| EVMSG15 6/11    | 1.6        | 11   | 160   | 350 | 259 180      | 684             | 1124  | 42          | 104.5               | 684              | 1124  | 47.7        | 110.2               |
| EVMSG15 7/11    | 1.6        | 11   | 160   | 350 | 259 180      | 724             | 1164  | 43.8        | 106.3               | 724              | 1164  | 49.5        | 112.0               |
| EVMSG15 8/15    | 2.5        | 15   | 160   | 350 | 311 240      | -               | -     | -           | -                   | 764              | 1259  | 50.8        | 151.8               |
| EVMSG15 9/15    | 2.5        | 15   | 160   | 350 | 311 240      | -               | -     | -           | -                   | 804              | 1299  | 52.1        | 153.1               |
| EVMSG15 10/15   | 2.5        | 15   | 160   | 350 | 311 240      | -               | -     | -           | -                   | 844              | 1339  | 53.4        | 154.4               |
| EVMSG15 11/18.5 | 2.5        | 18.5 | 160   | 350 | 311 240      | -               | -     | -           | -                   | 884              | 1379  | 54.7        | 163.7               |
| EVMSG15 12/18.5 | 2.5        | 18.5 | 160   | 350 | 311 240      | -               | -     | -           | -                   | 924              | 1419  | 56          | 165.0               |

1.6 MPa=16 bar;      2.5 MPa=25 bar  
- not available model

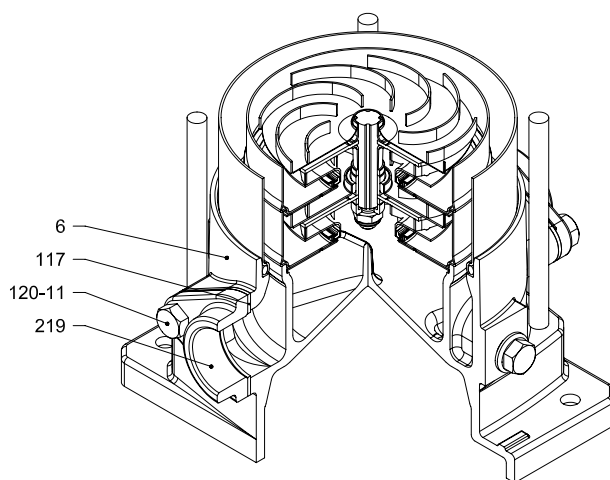
SECTIONAL VIEW  
EVMSG15

EVMSG15



with Round flange (F)

### PIPE CONNECTION EVMSG15



with Oval flange (N)

SECTIONAL TABLE  
EVMSG15

| N°     | PART NAME                                 | MATERIAL<br>EVMSG                             | DIMENSIONS                              | STANDARD |          |
|--------|---|---|---|----------|----------|
| 4      | Casing cover                              | EN 1.4301 (AISI 304)                          |   |          |          |
| 5-1    | Suction casing                            | EN 1.4301 (AISI 304)                          |   |          |          |
| 5-2    | Intermediate casing                       | EN 1.4301 (AISI 304)                          |   |          |          |
| 5-3    | Intermediate casing with bearing          | EN 1.4301 (AISI 304)                          |   |          |          |
| 5-4    | Discharge casing                          | EN 1.4301 (AISI 304)                          |   |          |          |
| 6      | Bottom casing                             | Cast Iron EN G.JL-250                         |   |          |          |
| 7      | Outer casing                              | EN 1.4301 (AISI 304)                          |   |          |          |
| 21     | Impeller                                  | EN 1.4301 (AISI 304)                          |   |          |          |
| 31     | Shaft                                     | EN 1.4301 (AISI 304) - EN 1.4462 (AISI 329A)  |   |          |          |
| 32-1   | Adjuster key                              | EN 1.4301 (AISI 304)                          |   |          |          |
| 43-2   | Shaft sleeve (intermediate)               | EN 1.4301 (AISI 304)                          |   |          |          |
| 43-3   | Shaft sleeve (bearing + discharge casing) | EN 1.4301 (AISI 304)                          |   |          |          |
| 43-4   | Shaft sleeve (adjustment)                 | EN 1.4301 (AISI 304)                          |   |          |          |
| 43-6   | Washer                                    | EN 1.4404 (AISI 316L)                         | Ø26x2.5                                 |          |          |
| 44-1   | Shaft sleeve bearing                      | Tungsten carbide                              |   |          |          |
| 46     | Ring (mechanical seal)                    | EN 1.4404 (AISI 316L)                         |   |          |          |
| 47     | Ring holder                               | EN 1.4404 (AISI 316L)                         |   |          |          |
| 48     | Impeller nut                              | EN 1.4301 (AISI 304) with inox insert         | M10                                     |          |          |
| 52-1   | Sleeve bearing                            | Tungsten carbide                              |   |          |          |
| 75     | O-Ring (priming plug)                     | EPDM / FPM                                    | Ø12.37x2.62                             | OR 3050  |          |
| 75-1   | O-Ring (drainage plug)                    | EPDM / FPM                                    |   |          |          |
| 107    | Liner ring                                | EN 1.4301 (AISI 304) + PPS                    |   |          |          |
| 111    | Mechanical seal                           | see pages 6-7                                 |   |          |          |
| 111-3  | Mechanical seal seat                      | EN 1.4308 (ASTM CF8)                          |   |          |          |
| 111-4  | Seal holder                               | EN 1.4301 (AISI 304)                          |   |          |          |
| 111-5  | Mechanical seal cartridge sleeve          | EN 1.4301 (AISI 304)                          |   |          |          |
| 115-1  | O-Ring (outer casing)                     | EPDM / FPM                                    | Ø164.46x5.34                            | OR 6945  |          |
| 115-4  | O-Ring (cartridge sleeve)                 | EPDM / FPM                                    | Ø15.88x2.62                             | OR 4093  |          |
| 115-5  | O-Ring (seal flange)                      | EPDM / FPM                                    | Ø37.77x2.62                             | OR 4175  |          |
| 117    | Flange gasket                             | EPDM / FPM                                    |   |          |          |
| 120-1  | Tie-rod                                   | EN 1.4057 (AISI 431)                          | M12                                     |          |          |
| 120-3  | Screw (seal flange)                       | A2-70   | M5x12                                   | ISO 4762 |          |
| 120-6  | Screw (pump coupling)                     | Galvanized steel 6.8 strength class ISO 898/1 | up to 4.0 kW                            | M6x25    | ISO 4762 |
|        |   |   | from 5.5 kW to 7.5 kW                   | M8x20    | ISO 4762 |
|        |   |   | above 11 kW                             | M10x30   | ISO 4762 |
| 120-11 | Screw (counterflange)                     | A2-70   |   |          |          |
| 120-13 | Screw for motor                           | Galvanized steel 8.8 strength class ISO 898/1 | MEC 80                                  | M6x20    | ISO 4017 |
|        |   |   | MEC 90-100-112                          | M8x20    | ISO 4017 |
|        |   |   | MEC 132                                 | M12x40   | ISO 4017 |
|        |   |   | MEC 160                                 | M16x50   | ISO 4017 |
| 128-1  | Nut (tie rod)                             | A2-70   | M12                                     | ISO 4032 |          |
| 128-3  | Nut (motor)                               | Galvanized steel                              | MEC 132                                 | M12      | ISO 4032 |
|        |   |   | MEC 160                                 | M16      | ISO 4032 |
| 128-6  | Nut (aluminium coupling)                  | Galvanized steel                              | M6                                      | ISO 4032 |          |
| 130-1  | Set screw                                 | EN 1.4301 (AISI 304)                          | M5x8                                    | ISO 4026 |          |
| 130-2  | Screw for coupling guard                  | A2-70   | M5x6                                    | UNI 7687 |          |
| 131-1  | Pin for shaft                             | Carbon Steel                                  | Ø5x35                                   | ISO 2338 |          |
| 135-1  | Washer (tie rod)                          | EN 1.4301 (AISI 304)                          | Ø13x24x2.5                              | ISO 7089 |          |
| 135-6  | Washer (aluminium coupling)               | Carbon Steel                                  | Ø6                                      |          |          |
| 137-1  | Impeller spacer                           | EN 1.4301 (AISI 304)                          |   |          |          |
| 140    | Coupling                                  | up to 4.0 kW                                  | Die cast Aluminium EN AB-AISI11Cu2 (Fe) |          |          |
|        |   | above 5.5 kW                                  | Cast Iron                               |          |          |
| 162    | Motor bracket                             | Cast iron EN-G.JL-250                         |   |          |          |
| 212    | Priming plug                              | EN 1.4301 (AISI 304)                          | G 3/8                                   |          |          |
| 212-1  | Drainage plug                             | EN 1.4301 (AISI 304)                          | G 3/8                                   |          |          |
| 212-2  | Venting plug                              | EN 1.4404 (AISI 316L)                         |   |          |          |
| 219    | Counter flange                            | flange type: N                                | Galvanized steel                        |          |          |
|        |   | flange type: F                                | Cast Iron EN-G.JL-250                   |          |          |
| 245    | Coupling guard                            | EN 1.4301 (AISI 304)                          |   |          |          |
| 273-1  | Washer (drainage plug)                    | EN 1.4301 (AISI 304)                          |   |          |          |

### QUANTITY FOR MODEL EVMSG15

| Pump Type       | N° |     |    |    |    |   |   |    |       |      |      |      |      |      |      |    |    |    |      |    |      |     |     |       |       |       |       |       |       |
|-----------------|----|-----|----|----|----|---|---|----|-------|------|------|------|------|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|-------|-------|
|                 | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31*** | 32-1 | 43-2 | 43-3 | 43-4 | 43-6 | 44-1 | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 |
| EVMSG15 1/1.5   | 1  | 1   | /  | 1  | 1  | 1 | 1 | 1  | 1     | 1    | /    | 2    | 1    | 1    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 1   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG15 2/3.0   | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1     | 1    | /    | 2    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 2   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG15 3/5.5   | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1     | 1    | 1    | 2    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 3   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG15 4/7.5   | 1  | 1   | 1  | 2  | 1  | 1 | 1 | 4  | 1     | 1    | 2    | 2    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 4   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG15 5/7.5   | 1  | 1   | 2  | 2  | 1  | 1 | 1 | 5  | 1     | 1    | 3    | 2    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 5   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG15 6/11    | 1  | 1   | 3  | 2  | 1  | 1 | 1 | 6  | 1     | 1    | 3    | 3    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 6   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG15 7/11    | 1  | 1   | 4  | 2  | 1  | 1 | 1 | 7  | 1     | 1    | 4    | 3    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 7   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG15 8/15    | 1  | 1   | 5  | 2  | 1  | 1 | 1 | 8  | 1     | 1    | 5    | 3    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 8   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG15 9/15    | 1  | 1   | 6  | 2  | 1  | 1 | 1 | 9  | 1     | 1    | 6    | 3    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 9   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG15 10/15   | 1  | 1   | 7  | 2  | 1  | 1 | 1 | 10 | 1     | 1    | 7    | 3    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 10  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG15 11/18.5 | 1  | 1   | 8  | 2  | 1  | 1 | 1 | 11 | 1     | 1    | 8    | 3    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 11  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG15 12/18.5 | 1  | 1   | 9  | 2  | 1  | 1 | 1 | 12 | 1     | 1    | 9    | 3    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 12  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |

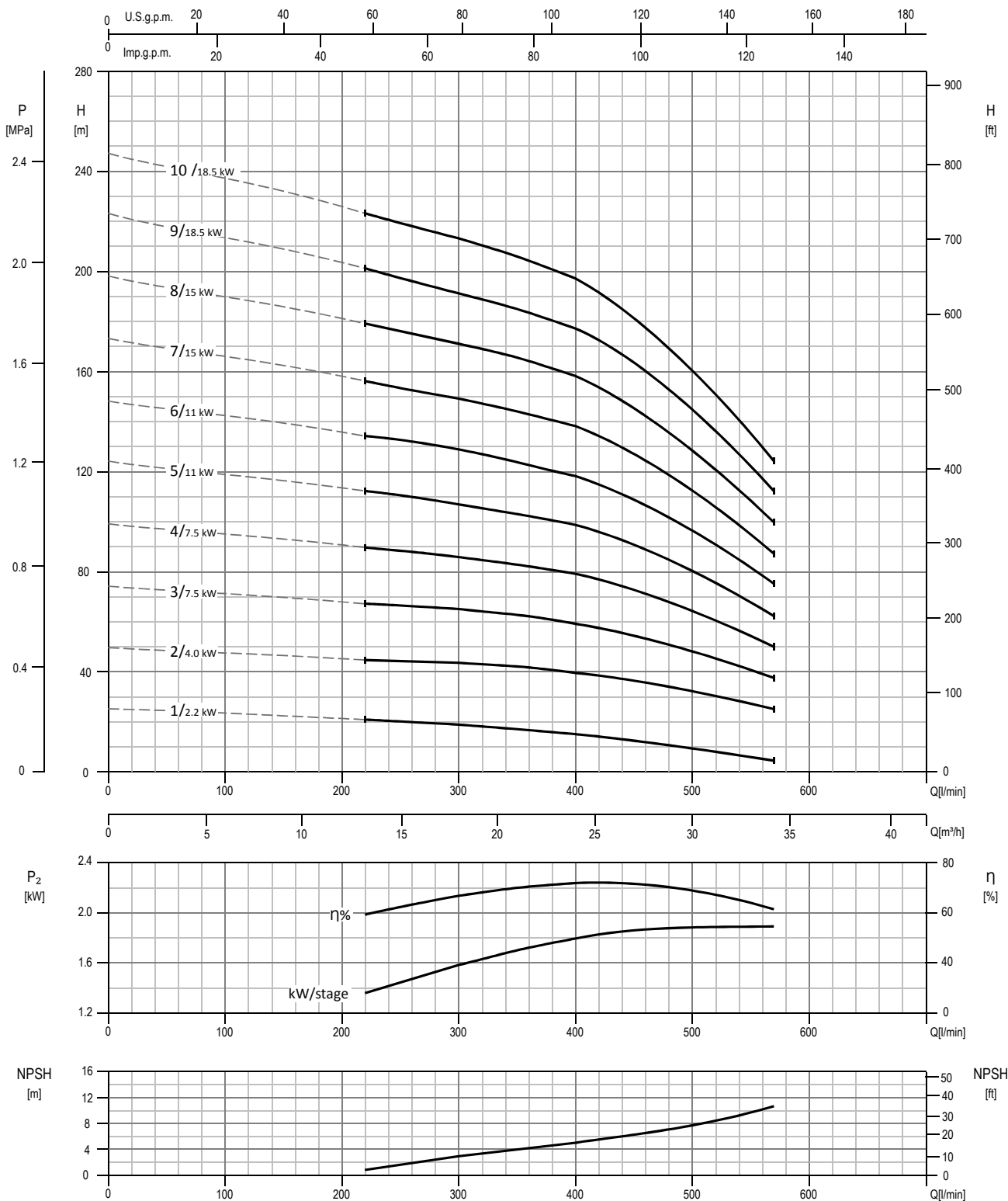
| Pump Type       | N°   |       |       |       |         |        |       |       |       |       |       |       |       |       |       |     |     |     |       |       |      |     |       |
|-----------------|------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-------|-------|------|-----|-------|
|                 | 117* | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-3 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 |
| EVMSG15 1/1.5   | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG15 2/3.0   | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG15 3/5.5   | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | 2     | 2    | 4   |       |
| EVMSG15 4/7.5   | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | 2     | 2    | 4   |       |
| EVMSG15 5/7.5   | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | 2     | 2    | 4   |       |
| EVMSG15 6/11    | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | 2     | 2    | 4   |       |
| EVMSG15 7/11    | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | 2     | 2    | 4   |       |
| EVMSG15 8/15    | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG15 9/15    | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG15 10/15   | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG15 11/18.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG15 12/18.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |

\* only for Oval flange (N)

\*\*\*   shaft in EN 1.4462 (AISI 329A)

128-6 / 135-6: with Aluminium coupling (see drawing pag.18)

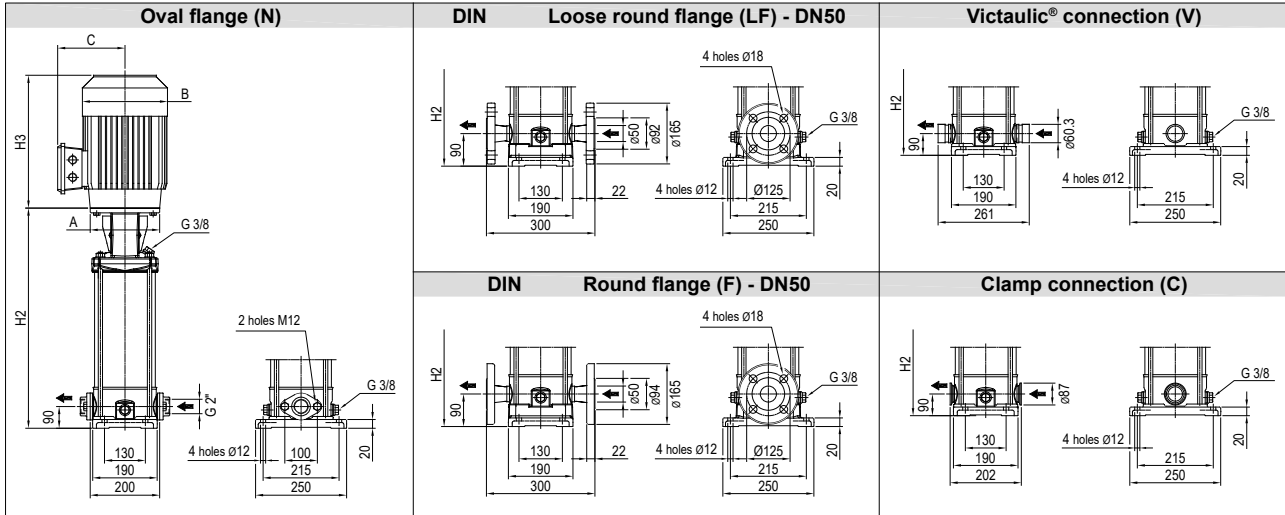
PERFORMANCE CURVE  
EVMS(L)20



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)20

#### Dimensional sketch

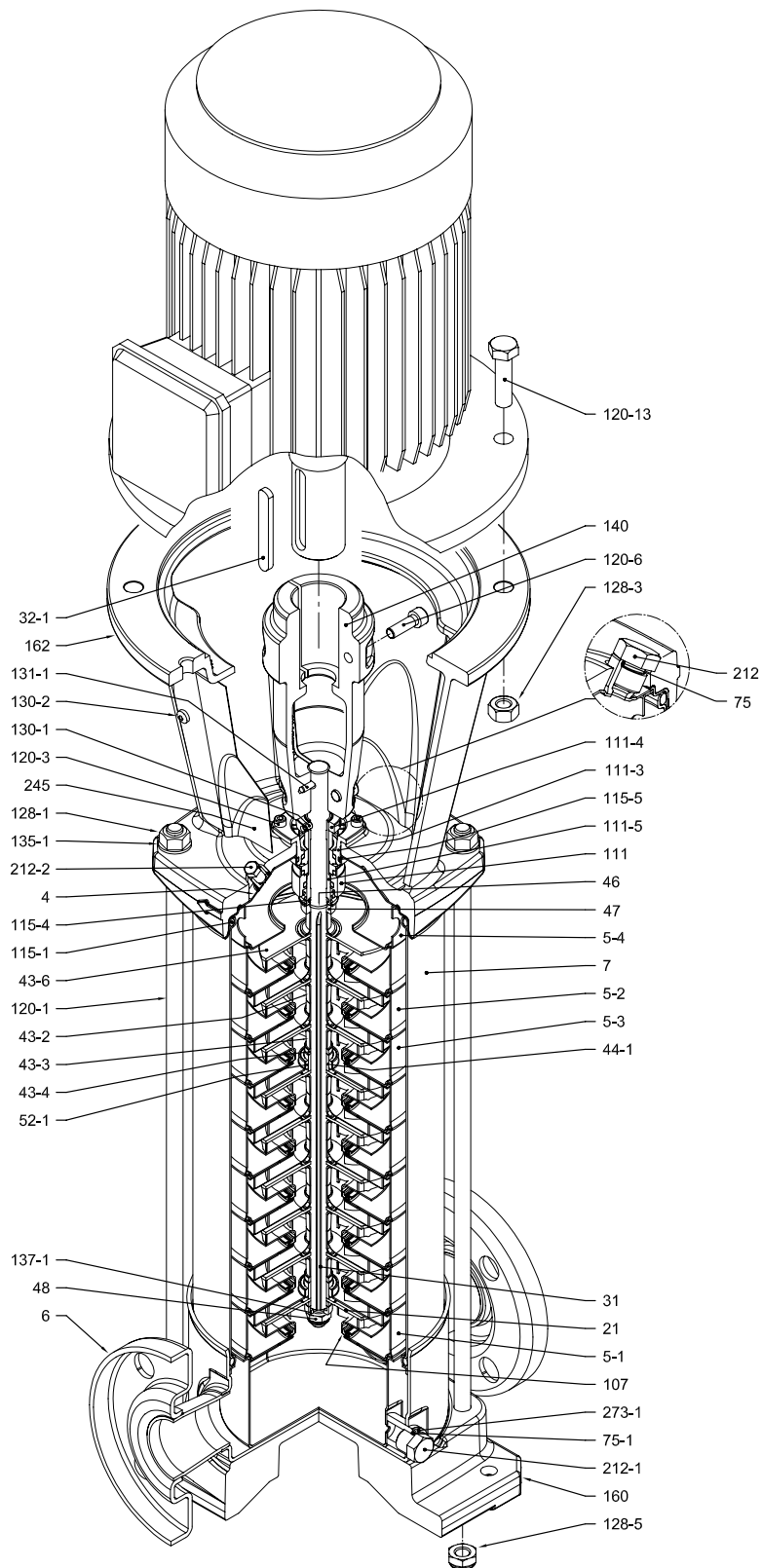


#### Dimensions [mm] and Weights [Kg]

| Pump Type         | P <sub>max</sub> [MPa] | Motor |      |        | Oval flange (N) |     |       |                | Loose round flange (LF)<br>Round flange (F) |     |       |                | Victaulic® connection (V)<br>Clamp connection (C) |     |       |                |                           |
|-------------------|------------------------|-------|------|--------|-----------------|-----|-------|----------------|---|-----|-------|----------------|---|-----|-------|----------------|---------------------------|
|                   |                        | kW    | Size | A<br>Ø | 3 ~<br>B C      | H2  | H2+H3 | Weight<br>Pump | Weight<br>Pump +<br>Motor                   | H2  | H2+H3 | Weight<br>Pump | Weight<br>Pump +<br>Motor                         | H2  | H2+H3 | Weight<br>Pump | Weight<br>Pump +<br>Motor |
| EVMS(L)20 1/2.2   | 1.6                    | 2.2   | 90   | 140    | 160 119         | 387 | 678   | 16.9           | 31.9  | 387 | 678   | 18.7           | 33.7  | 387 | 678   | 16.8           | 31.8                      |
| EVMS(L)20 2/4.0   | 1.6                    | 4.0   | 112  | 160    | 193 138         | 397 | 761   | 17.3           | 45.8  | 397 | 761   | 19.1           | 47.6  | 397 | 761   | 17.2           | 45.7                      |
| EVMS(L)20 3/7.5   | 1.6                    | 7.5   | 132  | 300    | 220 152         | 534 | 953   | 25.5           | 71.5  | 534 | 953   | 27.4           | 73.4  | 534 | 953   | 25.5           | 71.5                      |
| EVMS(L)20 4/7.5   | 1.6                    | 7.5   | 132  | 300    | 220 152         | 574 | 993   | 26.8           | 72.8  | 574 | 993   | 28.6           | 74.6  | 574 | 993   | 26.7           | 72.7                      |
| EVMS(L)20 5/11    | 1.6                    | 11    | 160  | 350    | 259 180         | 644 | 1084  | 36.2           | 98.7  | 644 | 1084  | 38             | 100.5   | 644 | 1084  | 36.1           | 98.6                      |
| EVMS(L)20 6/11    | 1.6                    | 11    | 160  | 350    | 259 180         | 684 | 1124  | 36.4           | 98.9  | 684 | 1124  | 38.3           | 100.8   | 684 | 1124  | 36.4           | 98.9                      |
| EVMS(L)20 7/15    | 2.5                    | 15    | 160  | 350    | 311 240         | -   | -     | -              | -   | 724 | 1219  | 41.2           | 142.2   | 724 | 1219  | 39.3           | 140.3                     |
| EVMS(L)20 8/15    | 2.5                    | 15    | 160  | 350    | 311 240         | -   | -     | -              | -   | 764 | 1259  | 42.5           | 143.5   | 764 | 1259  | 40.6           | 141.6                     |
| EVMS(L)20 9/18.5  | 2.5                    | 18.5  | 160  | 350    | 311 240         | -   | -     | -              | -   | 804 | 1299  | 43.9           | 152.9   | 804 | 1299  | 42             | 151.0                     |
| EVMS(L)20 10/18.5 | 2.5                    | 18.5  | 160  | 350    | 311 240         | -   | -     | -              | -   | 844 | 1339  | 45.2           | 154.2   | 844 | 1339  | 43.3           | 152.3                     |

1.6 MPa=16 bar;      2.5 MPa=25 bar  
- not available model

SECTIONAL VIEW  
EVMS(L)20

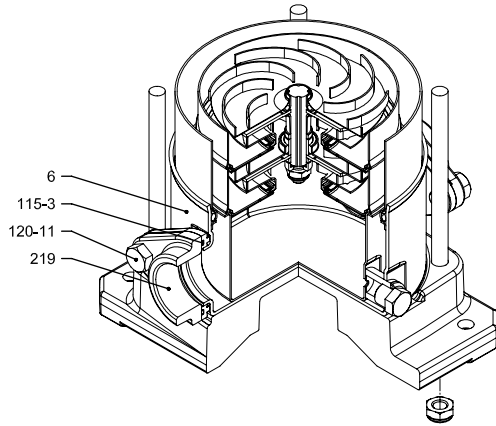


with Round flange (F)

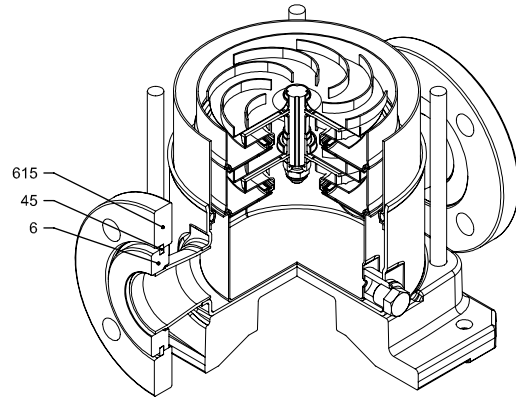


### PIPE CONNECTION EVMS(L)20

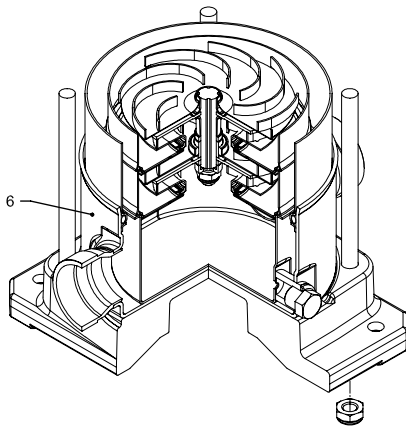
EVMS(L)20



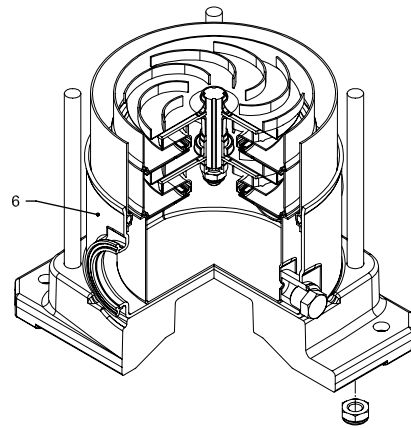
with Oval flange (N)



with Loose round flange (LF)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE  
EVMS(L)20

| N°     | PART NAME                                 | MATERIAL   |  | DIMENSIONS            | STANDARD |
|--------|---|--|--|-----------------------|----------|
|        |   | EVMS   | EVMSL  |                       |          |
| 4      | Casing cover                              | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 5-1    | Suction casing                            | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 5-2    | Intermediate casing                       | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 5-3    | Intermediate casing with bearing          | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 5-4    | Discharge casing                          | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 6      | Bottom casing                             | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 7      | Outer casing                              | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 21     | Impeller                                  | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 31     | Shaft                                     | EN 1.4301 (AISI 304) -<br>EN 1.4462 (AISI 329A)      | EN 1.4404 (AISI 316L) -<br>EN 1.4462 (AISI 329A) |                       |          |
| 32-1   | Adjuster key                              | EN 1.4301 (AISI 304)                                 |  |                       |          |
| 43-2   | Shaft sleeve (intermediate)               | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 43-3   | Shaft sleeve (bearing + discharge casing) | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 43-4   | Shaft sleeve (adjustment)                 | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 43-6   | Washer                                    | EN 1.4404 (AISI 316L)                                |  | Ø26x2.5               |          |
| 44-1   | Shaft sleeve bearing                      | Tungsten carbide                                     |  |                       |          |
| 45     | Flange holder                             | EN 1.4301 (AISI 304)                                 |  |                       |          |
| 46     | Ring (mechanical seal)                    | EN 1.4404 (AISI 316L)                                |  |                       |          |
| 47     | Ring holder                               | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 48     | Impeller nut                              | EN 1.4301 (AISI 304)<br>with inox insert             | EN 1.4401 (AISI 316)<br>with inox insert         | M10                   |          |
| 52-1   | Sleeve bearing                            | Tungsten carbide                                     |  |                       |          |
| 75     | O-Ring (priming plug)                     | EPDM / FPM   |  | Ø12.37x2.62           | OR 3050  |
| 75-1   | O-Ring (drainage plug)                    | EPDM / FPM   |  |                       |          |
| 107    | Liner ring                                | EN 1.4301 (AISI 304) + PPS                           | EN 1.4404 (AISI 316L) + PPS                      |                       |          |
| 111    | Mechanical seal                           | see pages 6-7  |  |                       |          |
| 111-3  | Mechanical seal seat                      | EN 1.4308 (ASTM CF8)                                 | EN 1.4408 (ASTM CF8M)                            |                       |          |
| 111-4  | Seal holder                               | EN 1.4301 (AISI 304)                                 |  |                       |          |
| 111-5  | Mechanical seal cartridge sleeve          | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 115-1  | O-Ring (outer casing)                     | EPDM / FPM   |  | Ø164.46x5.34          | OR 6945  |
| 115-3  | O-Ring                                    | EPDM / FPM   |  |                       |          |
| 115-4  | O-Ring (cartridge sleeve)                 | EPDM / FPM   |  | Ø15.88x2.62           | OR 4093  |
| 115-5  | O-Ring (seal flange)                      | EPDM / FPM   |  | Ø37.77x2.62           | OR 4175  |
| 120-1  | Tie-rod                                   | EN 1.4057 (AISI 431)                                 |  | M12                   |          |
| 120-3  | Screw (seal flange)                       | A2-70  |  | M5x12                 | ISO 4762 |
| 120-6  | Screw (pump coupling)                     | up to 4.0 kW<br>from 5.5 kW to 7.5 kW<br>above 11 kW | Galvanized steel                                 | M6x25                 | ISO 4762 |
|        |   |  |  | M8x20                 | ISO 4762 |
|        |   |  |  | M10x30                | ISO 4762 |
|        |   |  |  |                       |          |
| 120-11 | Screw (counterflange)                     | A2-70  |  |                       |          |
| 120-13 | Screw for motor                           | MEC 90-100-112<br>MEC 132<br>MEC 160                 | Galvanized steel 8.8 strength class ISO 898/1    | M8x20                 | ISO 4017 |
|        |   |  |  | M12x40                | ISO 4017 |
|        |   |  |  | M16x50                | ISO 4017 |
| 128-1  | Nut (tie rod)                             | A2-70  |  | M12                   | ISO 4032 |
| 128-3  | Nut (motor)                               | MEC 132<br>MEC 160                                   | Galvanized steel                                 | M12                   | ISO 4032 |
|        |   |  |  | M16                   | ISO 4032 |
| 128-5  | Nut (tie rod)                             | A2-70  |  | M12                   | UNI 7474 |
| 128-6  | Nut (aluminium coupling)                  | MEC 71-80-90-100-112                                 | Galvanized steel                                 | M6                    | ISO 4032 |
| 130-1  | Set screw                                 | EN 1.4301 (AISI 304)                                 |  | M5x8                  | ISO 4026 |
| 130-2  | Screw for coupling guard                  | A2-70  |  | M5x6                  | UNI 7687 |
| 131-1  | Pin for shaft                             | Carbon Steel   |  | Ø5x35                 | ISO 2338 |
| 135-1  | Washer (tie rod)                          | EN 1.4301 (AISI 304)                                 |  | Ø13x24x2.5            | ISO 7089 |
| 135-6  | Washer (aluminium coupling)               | up to 4.0 kW   | Carbon Steel                                     | Ø6                    |          |
| 137-1  | Impeller spacer                           | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 140    | Coupling                                  | up to 4.0 kW<br>above 5.5 kW                         | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)         |                       |          |
| 160    | Base                                      | Cast Iron  |  |                       |          |
| 162    | Motor bracket                             | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)             |  |                       |          |
| 212    | Motor bracket                             | Cast iron EN-GJL-250                                 |  |                       |          |
| 212    | Priming plug                              | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            | G 3/8                 |          |
| 212-1  | Drainage plug                             | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            | G 3/8                 |          |
| 212-2  | Venting plug                              | EN 1.4404 (AISI 316L)                                |  |                       |          |
| 219    | Counter flange                            | flange type: N                                       | EN 1.4308 (ASTM CF8)                             | EN 1.4408 (ASTM CF8M) |          |
|        |   | flange type: LF-F-V-C                                | EN 1.4301 (AISI 304)                             | EN 1.4404 (AISI 316L) |          |
| 245    | Coupling guard                            | EN 1.4301 (AISI 304)                                 |  |                       |          |
| 273-1  | Washer (drainage plug)                    | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L)                            |                       |          |
| 615    | Flange                                    | Carbon Steel   |  |                       |          |

### QUANTITY FOR MODEL EVMS(L)20

| Pump Type         | 7N° |     |    |    |    |   |   |    |       |      |      |      |      |      |      |      |    |    |    |      |    |      |     |     |       |       |       |       |        |       |       |   |
|-------------------|-----|-----|----|----|----|---|---|----|-------|------|------|------|------|------|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|--------|-------|-------|---|
|                   | 4   | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31*** | 32-1 | 43-2 | 43-3 | 43-4 | 43-6 | 44-1 | 45** | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-3* | 115-4 | 115-5 |   |
| EVMS(L)20 1/2.2   | 1   | 1   | /  | 1  | 1  | 1 | 1 | 1  | 1     | 1    | /    | 2    | 1    | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 1   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)20 2/4.0   | 1   | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1     | 1    | /    | 2    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 2   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)20 3/7.5   | 1   | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1     | 1    | 1    | 2    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 3   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)20 4/7.5   | 1   | 1   | 1  | 2  | 1  | 1 | 1 | 4  | 1     | 1    | 2    | 2    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 4   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)20 5/11    | 1   | 1   | 2  | 2  | 1  | 1 | 1 | 5  | 1     | 1    | 2    | 3    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 5   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)20 6/11    | 1   | 1   | 3  | 2  | 1  | 1 | 1 | 6  | 1     | 1    | 3    | 3    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 6   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)20 7/15    | 1   | 1   | 4  | 2  | 1  | 1 | 1 | 7  | 1     | 1    | 4    | 3    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 7   | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |
| EVMS(L)20 8/15    | 1   | 1   | 5  | 2  | 1  | 1 | 1 | 8  | 1     | 1    | 5    | 3    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 8   | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |
| EVMS(L)20 9/18.5  | 1   | 1   | 6  | 2  | 1  | 1 | 1 | 9  | 1     | 1    | 6    | 3    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 9   | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |
| EVMS(L)20 10/18.5 | 1   | 1   | 7  | 2  | 1  | 1 | 1 | 10 | 1     | 1    | 7    | 3    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 10  | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |

| Pump Type         | N°    |       |       |         |        |       |       |       |       |       |       |       |       |       |       |     |     |     |     |       |       |      |     |       |       |
|-------------------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|------|-----|-------|-------|
|                   | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-3 | 128-5 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 160 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 | 615** |
| EVMS(L)20 1/2.2   | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)20 2/4.0   | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)20 3/7.5   | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)20 4/7.5   | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)20 5/11    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)20 6/11    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)20 7/15    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)20 8/15    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)20 9/18.5  | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)20 10/18.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |

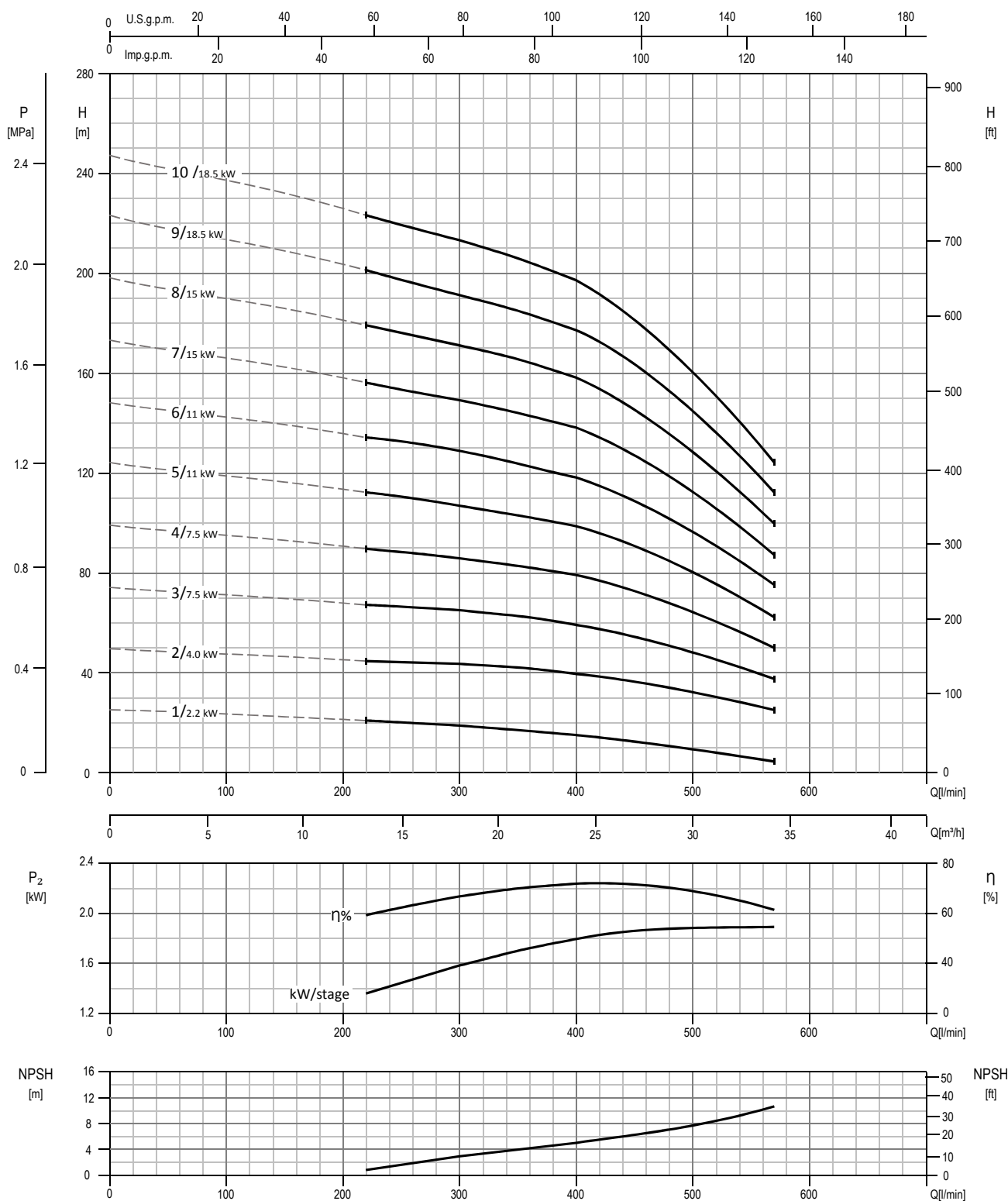
\* only for Oval flange (N)

\*\* only for Loose round flange (LF)

\*\*\*   shaft in EN 1.4462 (AISI 329A)

128-6 / 135-6: with Aluminium coupling (see drawing pag.18)

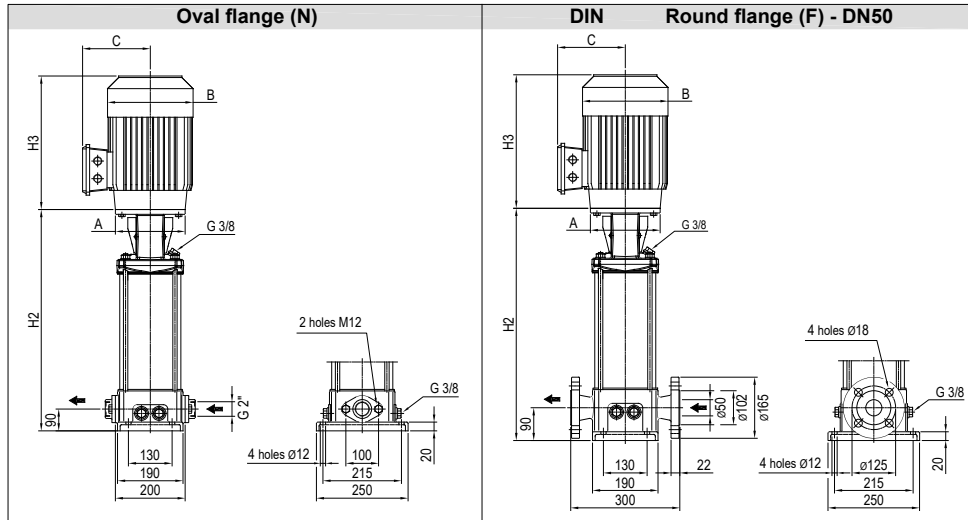
PERFORMANCE CURVE  
EVMSG20



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMSG20

#### Dimensional sketch

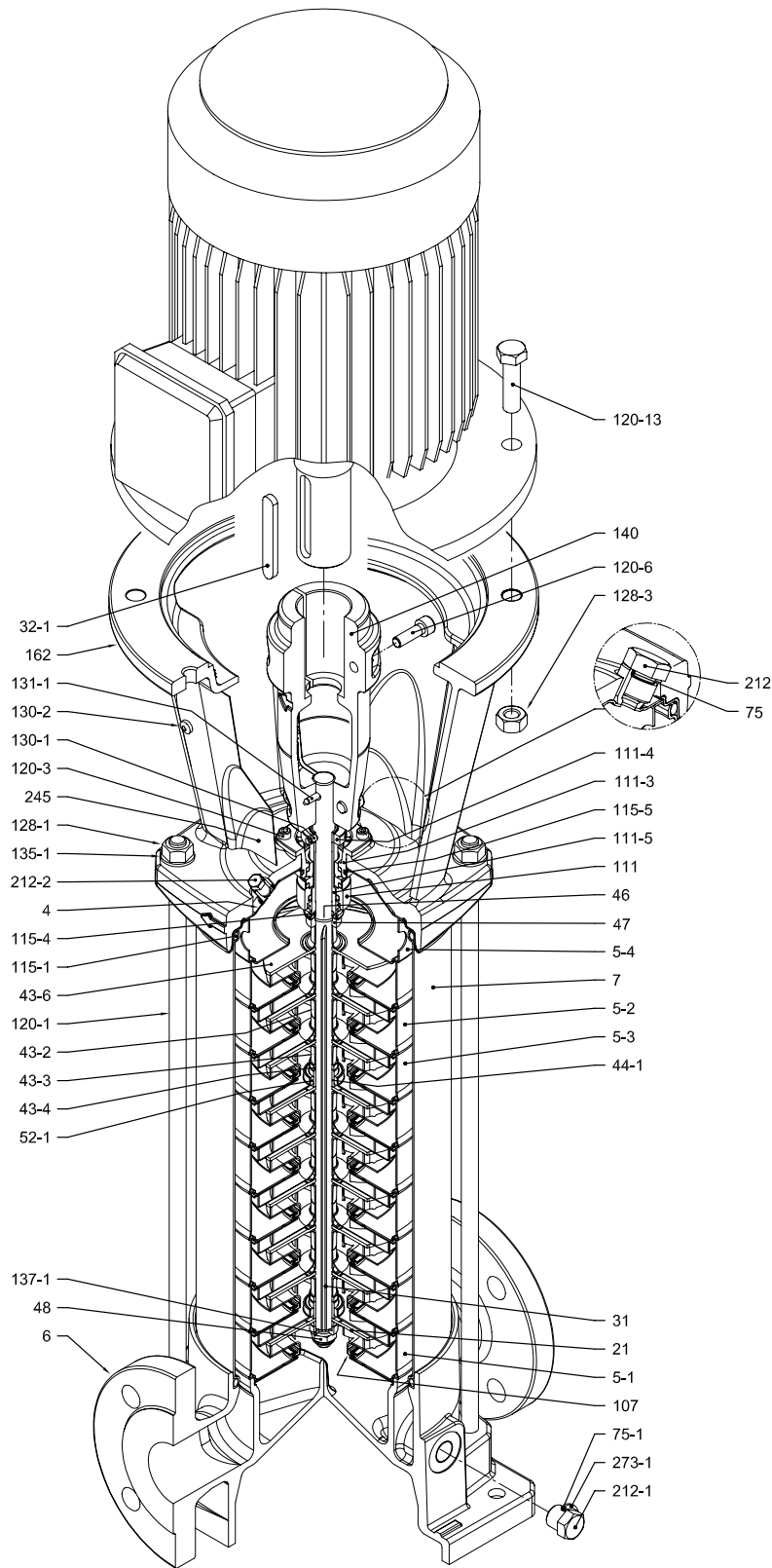


#### Dimensions [mm] and Weights [Kg]

| Pump Type       | Pmax [MPa] | kW   | Motor |        |            | Oval flange (N) |       |                |                           | Round flange (F) |       |                |                           |
|-----------------|------------|------|-------|--------|------------|-----------------|-------|----------------|---------------------------|------------------|-------|----------------|---------------------------|
|                 |            |      | Size  | A<br>Ø | 3 ~<br>B C | H2              | H2+H3 | Weight<br>Pump | Weight<br>Pump +<br>Motor | H2               | H2+H3 | Weight<br>Pump | Weight<br>Pump +<br>Motor |
| EVMSG20 1/2.2   | 1.6        | 2.2  | 90    | 140    | 160 119    | 387             | 678   | 21.2           | 36.2                      | 387              | 678   | 26.9           | 41.9                      |
| EVMSG20 2/4.0   | 1.6        | 4.0  | 112   | 160    | 193 138    | 397             | 761   | 21.6           | 50.1                      | 397              | 761   | 27.3           | 55.8                      |
| EVMSG20 3/7.5   | 1.6        | 7.5  | 132   | 300    | 220 152    | 534             | 953   | 29.9           | 75.9                      | 534              | 953   | 35.6           | 81.6                      |
| EVMSG20 4/7.5   | 1.6        | 7.5  | 132   | 300    | 220 152    | 574             | 993   | 31.1           | 77.1                      | 574              | 993   | 36.8           | 82.8                      |
| EVMSG20 5/11    | 1.6        | 11   | 160   | 350    | 259 180    | 644             | 1084  | 40.5           | 103.0                     | 644              | 1084  | 46.2           | 108.7                     |
| EVMSG20 6/11    | 1.6        | 11   | 160   | 350    | 259 180    | 684             | 1124  | 40.7           | 103.2                     | 684              | 1124  | 46.4           | 108.9                     |
| EVMSG20 7/15    | 2.5        | 15   | 160   | 350    | 311 240    | -               | -     | -              | -                         | 724              | 1219  | 49.4           | 150.4                     |
| EVMSG20 8/15    | 2.5        | 15   | 160   | 350    | 311 240    | -               | -     | -              | -                         | 764              | 1259  | 50.7           | 151.7                     |
| EVMSG20 9/18.5  | 2.5        | 18.5 | 160   | 350    | 311 240    | -               | -     | -              | -                         | 804              | 1299  | 52             | 161.0                     |
| EVMSG20 10/18.5 | 2.5        | 18.5 | 160   | 350    | 311 240    | -               | -     | -              | -                         | 844              | 1339  | 53.4           | 162.4                     |

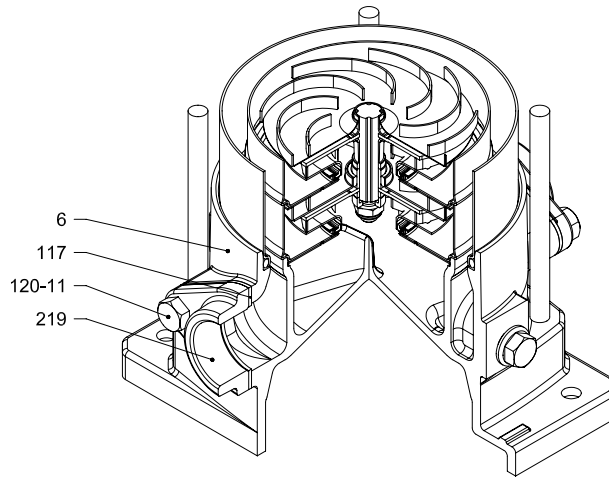
1.6 MPa=16 bar;      2.5 MPa=25 bar  
- not available model

SECTIONAL VIEW  
EVMSG20



with Round flange (F)

### PIPE CONNECTION EVMSG20



with Oval flange (N)

SECTIONAL TABLE  
EVMSG20

| N°     | PART NAME                                 | MATERIAL<br>EVMSG                             | DIMENSIONS                              | STANDARD |          |
|--------|---|---|---|----------|----------|
| 4      | Casing cover                              | EN 1.4301 (AISI 304)                          |   |          |          |
| 5-1    | Suction casing                            | EN 1.4301 (AISI 304)                          |   |          |          |
| 5-2    | Intermediate casing                       | EN 1.4301 (AISI 304)                          |   |          |          |
| 5-3    | Intermediate casing with bearing          | EN 1.4301 (AISI 304)                          |   |          |          |
| 5-4    | Discharge casing                          | EN 1.4301 (AISI 304)                          |   |          |          |
| 6      | Bottom casing                             | Cast Iron EN G.JL-250                         |   |          |          |
| 7      | Outer casing                              | EN 1.4301 (AISI 304)                          |   |          |          |
| 21     | Impeller                                  | EN 1.4301 (AISI 304)                          |   |          |          |
| 31     | Shaft                                     | EN 1.4301 (AISI 304) - EN 1.4462 (AISI 329A)  |   |          |          |
| 32-1   | Adjuster key                              | EN 1.4301 (AISI 304)                          |   |          |          |
| 43-2   | Shaft sleeve (intermediate)               | EN 1.4301 (AISI 304)                          |   |          |          |
| 43-3   | Shaft sleeve (bearing + discharge casing) | EN 1.4301 (AISI 304)                          |   |          |          |
| 43-4   | Shaft sleeve (adjustment)                 | EN 1.4301 (AISI 304)                          |   |          |          |
| 43-6   | Washer                                    | EN 1.4404 (AISI 316L)                         | Ø26x2.5                                 |          |          |
| 44-1   | Shaft sleeve bearing                      | Tungsten carbide                              |   |          |          |
| 46     | Ring (mechanical seal)                    | EN 1.4404 (AISI 316L)                         |   |          |          |
| 47     | Ring holder                               | EN 1.4404 (AISI 316L)                         |   |          |          |
| 48     | Impeller nut                              | EN 1.4301 (AISI 304) with inox insert         | M10                                     |          |          |
| 52-1   | Sleeve bearing                            | Tungsten carbide                              |   |          |          |
| 75     | O-Ring (priming plug)                     | EPDM / FPM                                    | Ø12.37x2.62                             | OR 3050  |          |
| 75-1   | O-Ring (drainage plug)                    | EPDM / FPM                                    |   |          |          |
| 107    | Liner ring                                | EN 1.4301 (AISI 304) + PPS                    |   |          |          |
| 111    | Mechanical seal                           | see pages 6-7                                 |   |          |          |
| 111-3  | Mechanical seal seat                      | EN 1.4308 (ASTM CF8)                          |   |          |          |
| 111-4  | Seal holder                               | EN 1.4301 (AISI 304)                          |   |          |          |
| 111-5  | Mechanical seal cartridge sleeve          | EN 1.4301 (AISI 304)                          |   |          |          |
| 115-1  | O-Ring (outer casing)                     | EPDM / FPM                                    | Ø164.46x5.34                            | OR 6945  |          |
| 115-4  | O-Ring (cartridge sleeve)                 | EPDM / FPM                                    | Ø15.88x2.62                             | OR 4093  |          |
| 115-5  | O-Ring (seal flange)                      | EPDM / FPM                                    | Ø37.77x2.62                             | OR 4175  |          |
| 117    | Flange gasket                             | EPDM / FPM                                    |   |          |          |
| 120-1  | Tie-rod                                   | EN 1.4057 (AISI 431)                          | M12                                     |          |          |
| 120-3  | Screw (seal flange)                       | A2-70   | M5x12                                   | ISO 4762 |          |
| 120-6  | Screw (pump coupling)                     | Galvanized steel 6.8 strength class ISO 898/1 | up to 4.0 kW                            | M6x25    | ISO 4762 |
|        |   |   | from 5.5 kW to 7.5 kW                   | M8x20    | ISO 4762 |
|        |   |   | above 11 kW                             | M10x30   | ISO 4762 |
| 120-11 | Screw (counterflange)                     | A2-70   |   |          |          |
| 120-13 | Screw for motor                           | Galvanized steel 8.8 strength class ISO 898/1 | MEC 90-100-112                          | M8x20    | ISO 4017 |
|        |   |   | MEC 132                                 | M12x40   | ISO 4017 |
|        |   |   | MEC 160                                 | M16x50   | ISO 4017 |
| 128-1  | Nut (tie rod)                             | A2-70   | M12                                     | ISO 4032 |          |
| 128-3  | Nut (motor)                               | Galvanized steel                              | MEC 132                                 | M12      | ISO 4032 |
|        |   |   | MEC 160                                 | M16      | ISO 4032 |
| 128-6  | Nut (aluminium coupling)                  | Galvanized steel                              | M6                                      | ISO 4032 |          |
| 130-1  | Set screw                                 | EN 1.4301 (AISI 304)                          | M5x8                                    | ISO 4026 |          |
| 130-2  | Screw for coupling guard                  | A2-70   | M5x6                                    | UNI 7687 |          |
| 131-1  | Pin for shaft                             | Carbon Steel                                  | Ø5x35                                   | ISO 2338 |          |
| 135-1  | Washer (tie rod)                          | EN 1.4301 (AISI 304)                          | Ø13x24x2.5                              | ISO 7089 |          |
| 135-6  | Washer (aluminium coupling)               | Carbon Steel                                  | Ø6                                      |          |          |
| 137-1  | Impeller spacer                           | EN 1.4301 (AISI 304)                          |   |          |          |
| 140    | Coupling                                  | up to 4.0 kW                                  | Die cast Aluminium EN AB-AISI11Cu2 (Fe) |          |          |
|        |   | above 5.5 kW                                  | Cast Iron                               |          |          |
| 162    | Motor bracket                             | Cast iron EN-GJL-250                          |   |          |          |
| 212    | Priming plug                              | EN 1.4301 (AISI 304)                          | G 3/8                                   |          |          |
| 212-1  | Drainage plug                             | EN 1.4301 (AISI 304)                          | G 3/8                                   |          |          |
| 212-2  | Venting plug                              | EN 1.4404 (AISI 316L)                         |   |          |          |
| 219    | Counter flange                            | flange type: N                                | Galvanized steel                        |          |          |
|        |   | flange type: F                                | Cast Iron EN-GJL-250                    |          |          |
| 245    | Coupling guard                            | EN 1.4301 (AISI 304)                          |   |          |          |
| 273-1  | Washer (drainage plug)                    | EN 1.4301 (AISI 304)                          |   |          |          |



### QUANTITY FOR MODEL EVMSG20

| Pump Type       | N° |     |    |    |    |   |   |    |       |      |      |      |      |      |      |    |    |    |      |    |      |     |     |       |       |       |       |       |       |
|-----------------|----|-----|----|----|----|---|---|----|-------|------|------|------|------|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|-------|-------|
|                 | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31*** | 32-1 | 43-2 | 43-3 | 43-4 | 43-6 | 44-1 | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 |
| EVMSG20 1/2.2   | 1  | 1   | /  | 1  | 1  | 1 | 1 | 1  | 1     | 1    | /    | 2    | 1    | 1    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 1   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG20 2/4.0   | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1     | 1    | /    | 2    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 2   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG20 3/7.5   | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1     | 1    | 1    | 2    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 3   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG20 4/7.5   | 1  | 1   | 1  | 2  | 1  | 1 | 1 | 4  | 1     | 1    | 2    | 2    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 4   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG20 5/11    | 1  | 1   | 2  | 2  | 1  | 1 | 1 | 5  | 1     | 1    | 2    | 3    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 5   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG20 6/11    | 1  | 1   | 3  | 2  | 1  | 1 | 1 | 6  | 1     | 1    | 3    | 3    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 6   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG20 7/15    | 1  | 1   | 4  | 2  | 1  | 1 | 1 | 7  | 1     | 1    | 4    | 3    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 7   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG20 8/15    | 1  | 1   | 5  | 2  | 1  | 1 | 1 | 8  | 1     | 1    | 5    | 3    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 8   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG20 9/18.5  | 1  | 1   | 6  | 2  | 1  | 1 | 1 | 9  | 1     | 1    | 6    | 3    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 9   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG20 10/18.5 | 1  | 1   | 7  | 2  | 1  | 1 | 1 | 10 | 1     | 1    | 7    | 3    | 2    | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 10  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |

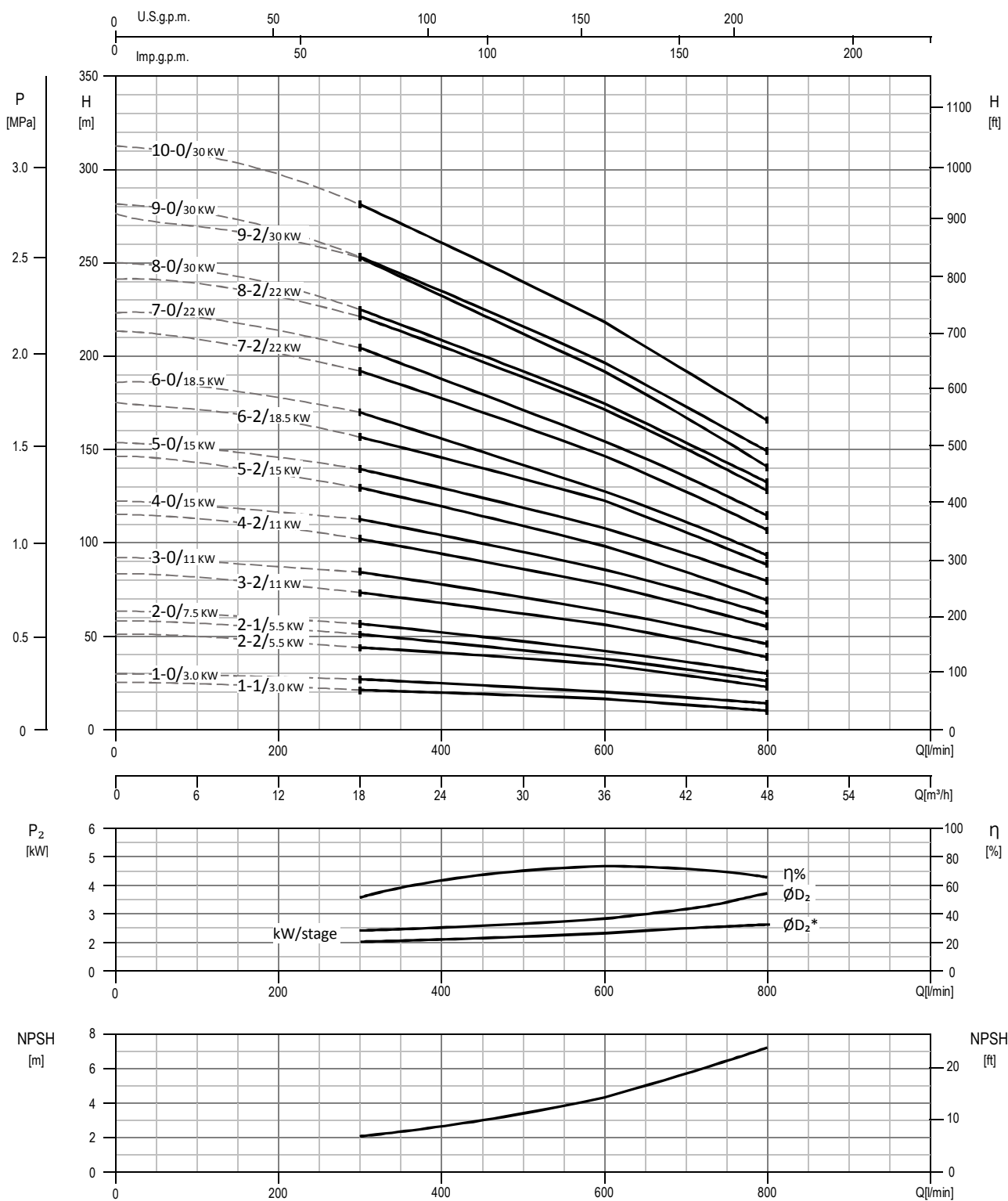
| Pump Type       | N°   |       |       |       |          |        |       |       |       |       |       |       |       |       |       |     |     |     |       |       |      |     |       |  |
|-----------------|------|-------|-------|-------|----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-------|-------|------|-----|-------|--|
|                 | 117* | 120-1 | 120-3 | 120-6 | 120-11** | 120-13 | 128-1 | 128-3 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 |  |
| EVMSG20 1/2.2   | 2    | 4     | 4     | 4     | 4        | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |
| EVMSG20 2/4.0   | 2    | 4     | 4     | 4     | 4        | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |
| EVMSG20 3/7.5   | 2    | 4     | 4     | 4     | 4        | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | 2     | 2    | 4   |       |  |
| EVMSG20 4/7.5   | 2    | 4     | 4     | 4     | 4        | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | 2     | 2    | 4   |       |  |
| EVMSG20 5/11    | 2    | 4     | 4     | 4     | 4        | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | 2     | 2    | 4   |       |  |
| EVMSG20 6/11    | 2    | 4     | 4     | 4     | 4        | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | 2     | 2    | 4   |       |  |
| EVMSG20 7/15    | /    | 4     | 4     | 4     | /        | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | /     | 2    | 4   |       |  |
| EVMSG20 8/15    | /    | 4     | 4     | 4     | /        | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | /     | 2    | 4   |       |  |
| EVMSG20 9/18.5  | /    | 4     | 4     | 4     | /        | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | /     | 2    | 4   |       |  |
| EVMSG20 10/18.5 | /    | 4     | 4     | 4     | /        | 4      | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2     | 1   | 1   | 4   | 1     | /     | 2    | 4   |       |  |

\* only for Oval flange (N)

\*\*\*  shaft in EN 1.4462 (AISI 329A)

128-6 / 135-6: with Aluminium coupling (see drawing pag.18)

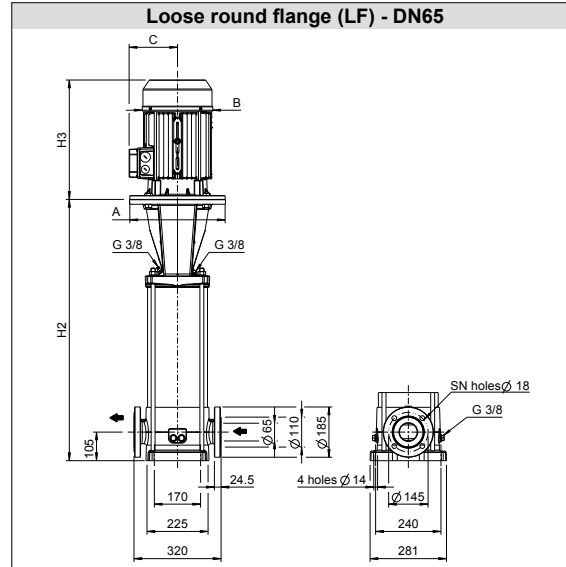
PERFORMANCE CURVE  
EVMS(L)32



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)32

#### Dimensional sketch



#### Dimensions [mm] and Weights [Kg]

| Pump Type          | Pmax [MPa] | Motor |      |     |     |     | Loose round flange (LF) |       |    |      | Weight Pump | Weight Pump + Motor |
|--------------------|------------|-------|------|-----|-----|-----|-------------------------|-------|----|------|-------------|---------------------|
|                    |            | kW    | Size | A   | B   | C   | H2                      | H2+H3 | SN |      |             |                     |
| EVMS(L)32 1-1/3.0  | 1.6        | 3.0   | 100  | 160 | 176 | 123 | 461                     | 803   | 4  | 48.7 | 70.7        |                     |
| EVMS(L)32 1-0/3.0  | 1.6        | 3.0   | 100  | 160 | 176 | 123 | 461                     | 803   | 4  | 48.7 | 70.7        |                     |
| EVMS(L)32 2-2/5.5  | 1.6        | 5.5   | 132  | 300 | 220 | 152 | 635                     | 1035  | 4  | 62.8 | 101.8       |                     |
| EVMS(L)32 2-1/5.5  | 1.6        | 5.5   | 132  | 300 | 220 | 152 | 635                     | 1035  | 4  | 62.8 | 101.8       |                     |
| EVMS(L)32 2-0/7.5  | 1.6        | 7.5   | 132  | 300 | 220 | 152 | 635                     | 1055  | 4  | 62.8 | 108.8       |                     |
| EVMS(L)32 3-2/11   | 1.6        | 11    | 160  | 350 | 259 | 180 | 735                     | 1174  | 4  | 72.6 | 135.1       |                     |
| EVMS(L)32 3-0/11   | 1.6        | 11    | 160  | 350 | 259 | 180 | 735                     | 1174  | 4  | 72.6 | 135.1       |                     |
| EVMS(L)32 4-2/11   | 1.6        | 11    | 160  | 350 | 259 | 180 | 805                     | 1244  | 4  | 75.8 | 138.3       |                     |
| EVMS(L)32 4-0/15   | 1.6        | 15    | 160  | 350 | 311 | 240 | 805                     | 1300  | 4  | 64.8 | 165.8       |                     |
| EVMS(L)32 5-2/15   | 1.6        | 15    | 160  | 350 | 311 | 240 | 875                     | 1370  | 4  | 68.1 | 169.1       |                     |
| EVMS(L)32 5-0/15   | 1.6        | 15    | 160  | 350 | 311 | 240 | 875                     | 1370  | 4  | 68.1 | 169.1       |                     |
| EVMS(L)32 6-2/18.5 | 2.5        | 18.5  | 160  | 350 | 311 | 240 | 945                     | 1440  | 4  | 75.4 | 184.4       |                     |
| EVMS(L)32 6-0/18.5 | 2.5        | 18.5  | 160  | 350 | 311 | 240 | 945                     | 1440  | 4  | 75.4 | 184.4       |                     |
| EVMS(L)32 7-2/22   | 2.5        | 22    | 180  | 350 | 354 | 260 | 1015                    | 1567  | 4  | 75.7 | 210.7       |                     |
| EVMS(L)32 7-0/22   | 2.5        | 22    | 180  | 350 | 354 | 260 | 1015                    | 1567  | 8  | 75.7 | 210.7       |                     |
| EVMS(L)32 8-2/22   | 2.5        | 22    | 180  | 350 | 354 | 260 | 1085                    | 1637  | 8  | 80.7 | 215.7       |                     |
| EVMS(L)32 8-0/30   | 3.0        | 30    | 200  | 400 | 354 | 280 | 1085                    | 1637  | 8  | 73.0 | 241.0       |                     |
| EVMS(L)32 9-2/30   | 3.0        | 30    | 200  | 400 | 354 | 280 | 1155                    | 1707  | 8  | 76.5 | 244.5       |                     |
| EVMS(L)32 9-0/30   | 3.0        | 30    | 200  | 400 | 354 | 280 | 1155                    | 1707  | 8  | 76.5 | 244.5       |                     |
| EVMS(L)32 10-0/30  | 3.0        | 30    | 200  | 400 | 354 | 280 | 1225                    | 1777  | 8  | 79.9 | 247.9       |                     |

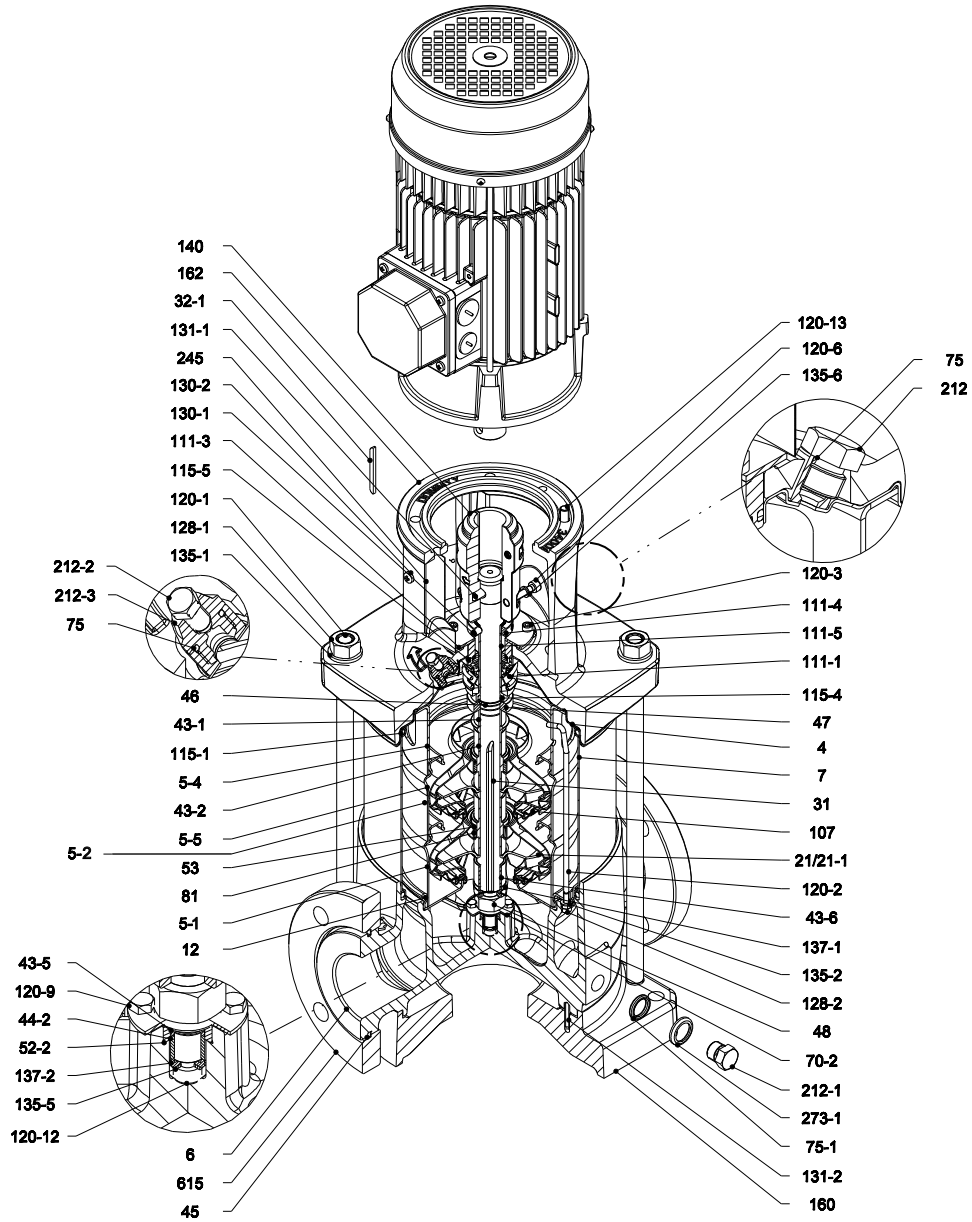
1.6 MPa=16 bar;

2.5 MPa=25 bar;

3.0 MPa=30 bar

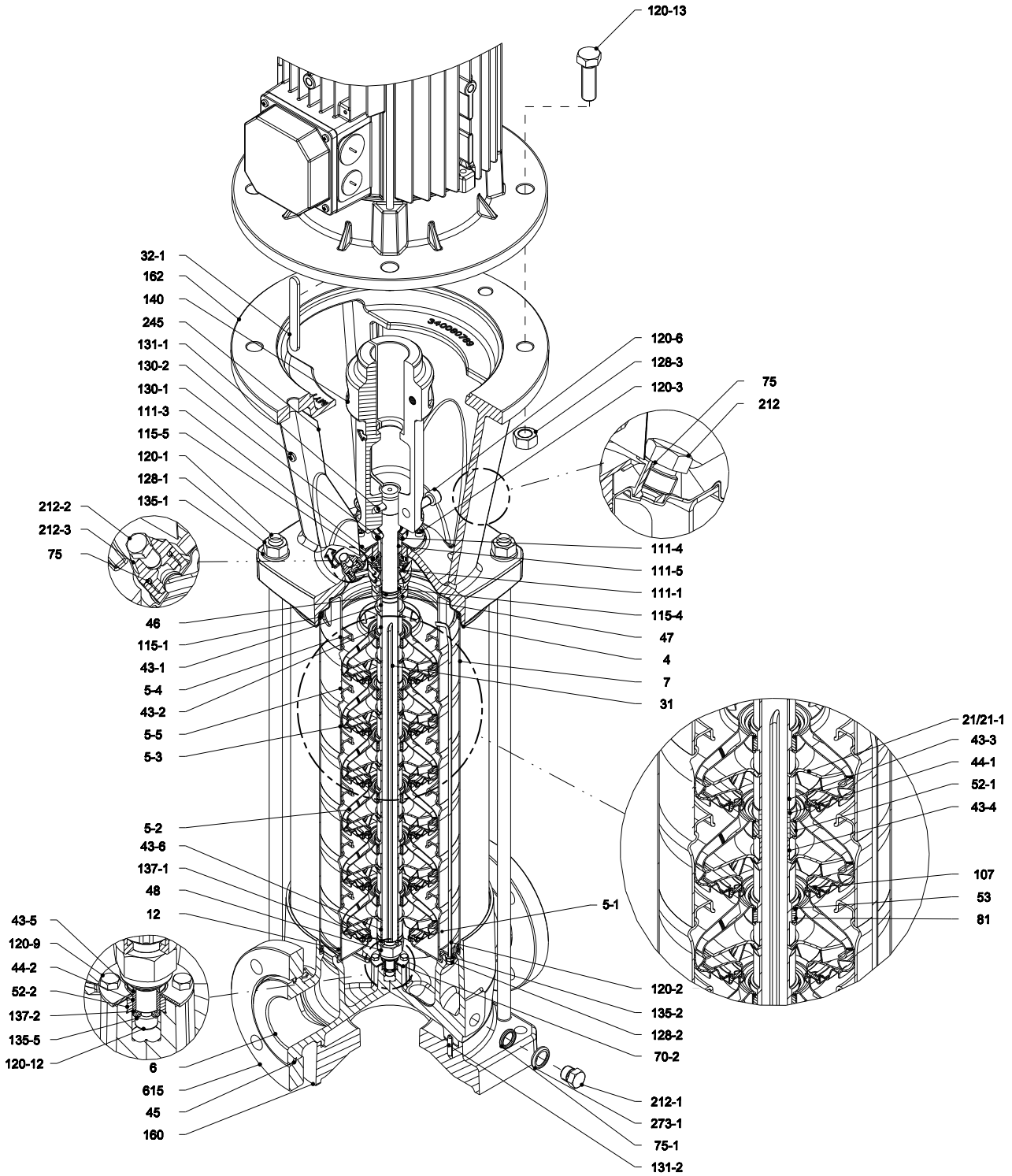
SECTIONAL VIEW  
EVMS(L)32

EVMS(L)32



Pump without ball bearing  
up to 4.0 kW

### SECTIONAL VIEW EVMS(L)32



Pump without ball bearing  
from 5.5 kW to 30 kW

SECTIONAL TABLE  
EVMS(L)32

| N°    | PART NAME                        | MATERIAL                                 |  | DIMENSIONS   | STANDARD |
|-------|----------------------------------|--|--|--------------|----------|
|       |                                  | EVMS                                     | EVMSL                                    |              |          |
| 4     | Casing cover                     | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 5-1   | Suction casing                   | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 5-2   | Intermediate casing              | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 5-3   | Intermediate casing with bearing | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 5-4   | Discharge casing                 | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 5-5   | Top intermediate casing          | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 6     | Bottom casing                    | EN 1.4308 (ASTM CF8)                     | EN 1.4408 (ASTM CF8M)                    |              |          |
| 7     | Outer casing                     | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 12    | Suction cover                    | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 21    | Impeller                         | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 21-1  | Reduced impeller                 | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 31    | Shaft                            | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 32-1  | Adjuster key                     | EN 1.4301 (AISI 304)                     |  |              |          |
| 43-1  | Shaft sleeve (mechanical seal)   | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 43-2  | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 43-3  | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 43-4  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 43-5  | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 43-6  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 44-1  | Shaft sleeve bearing             | Tungsten carbide                         |  |              |          |
| 44-2  | Shaft sleeve (bearing)           | Tungsten carbide                         |  |              |          |
| 45    | Flange holder                    | EN 1.4301 (AISI 304)                     |  |              |          |
| 46    | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                    |  |              |          |
| 47    | Ring holder                      | EN 1.4404 (AISI 316L)                    |  |              |          |
| 48    | Impeller nut                     | EN 1.4301 (AISI 304)<br>with inox insert | EN 1.4401 (AISI 316)<br>with inox insert |              |          |
| 52-1  | Sleeve bearing                   | Tungsten carbide                         |  |              |          |
| 52-2  | Sleeve bearing (bottom casing)   | Tungsten carbide                         |  |              |          |
| 53    | Bush holder                      | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 70-2  | Ring for bearing sleeve          | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 75    | O-Ring (priming plug)            | EPDM / FPM                               |  | Ø12.37x2.62  | OR 3050  |
| 75-1  | O-Ring (drainage plug)           | EPDM / FPM                               |  |              |          |
| 81    | Bush                             | PTFE                                     |  |              |          |
| 107   | Liner ring                       | EN 1.4301 (AISI 304) + PPS               | EN 1.4404 (AISI 316L) + PPS              |              |          |
| 111-1 | Mechanical seal                  | See pages 6-7                            |  |              |          |
| 111-3 | Mechanical seal seat             | EN 1.4301 (AISI 304)                     | EN 1.4401 (AISI 316)                     |              |          |
| 111-4 | Seal holder                      | EN 1.4404 (AISI 316L)                    |  |              |          |
| 111-5 | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 115-1 | O-Ring (outer casing)            | EPDM / FPM                               |  | Ø240.66x5.34 | OR 6945  |
| 115-4 | O-Ring (cartridge sleeve)        | EPDM / FPM                               |  | Ø23.39x3.53  | OR 4093  |
| 115-5 | O-Ring (seal flange)             | EPDM / FPM                               |  | Ø44.04x3.53  | OR 4175  |
| 120-1 | Tie rod                          | EN 1.4057 (AISI 431)                     |  |              |          |
| 120-2 | Tie rod (stage)                  | EN 1.4301 (AISI 304)                     | EN 1.4401 (AISI 316)                     |              |          |
| 120-3 | Screw (seal flange)              | A2-70                                    |  | M5x12        | ISO 4762 |

### SECTIONAL TABLE EVMS(L)32

| N°     | PART NAME                   | MATERIAL              |   | DIMENSIONS            | STANDARD |
|--------|-----------------------------|-----------------------|---|-----------------------|----------|
|        |                             | EVMS                  | EVMSL   |                       |          |
| 120-6  | Screw (pump coupling)       | up to 4.0 kW          | Galvanized steel 8.8 strength class ISO 898/1 | M6x25                 | ISO 4762 |
|        |                             | from 5.5 kW to 7.5 kW | Galvanized steel 8.8 strength class ISO 898/1 | M8x25                 | ISO 4762 |
|        |                             | above 11 kW           | Galvanized steel 8.8 strength class ISO 898/1 | M10x30                | ISO 4762 |
| 120-9  | Screw (bottom casing)       |                       | A2-70   | M5x8                  | ISO 4017 |
| 120-12 | Screw (shaft)               |                       | A2-70   | M6x16                 | ISO 4762 |
| 120-13 | Screw for motor             | MEC 100-112           | Galvanized steel 8.8 strength class ISO 898/1 | M8x20                 | ISO 4017 |
|        |                             | MEC 132               | Galvanized steel 8.8 strength class ISO 898/1 | M12x45                | ISO 4017 |
|        |                             | MEC 160-180           | Galvanized steel 8.8 strength class ISO 898/1 | M16x50                | ISO 4017 |
|        |                             | MEC 200               | Galvanized steel 8.8 strength class ISO 898/1 | M16x60                | ISO 4014 |
| 128-1  | Nut (tie rod)               |                       | A2-70   | M16                   | ISO 4032 |
| 128-2  | Nut (casing tie rod)        |                       | A2-70   | M5                    | ISO 4032 |
| 128-3  | Nut (motor)                 | MEC 132               | Galvanized steel                              | M12                   | ISO 4032 |
|        |                             | MEC 160-180-200       | Galvanized steel                              | M16                   | ISO 4032 |
| 128-6  | Nut (aluminium coupling)    | MEC 100-112           | Galvanized steel                              | M6                    | ISO 4032 |
| 130-1  | Set screw                   |                       | EN 1.4301 (AISI 304)                          | M6x8                  | ISO 4026 |
| 130-2  | Screw for coupling guard    |                       | A2-70   | M5x6                  | UNI 7687 |
| 131-1  | Pin for shaft               | up to 4.0 kW          | Carbon Steel                                  | Ø8x42                 | ISO 2338 |
|        |                             | above 5.5 Kw          | Carbon Steel                                  | Ø8x50                 | ISO 2338 |
| 131-2  | Elastic pin                 |                       | EN 1.4301 (AISI 304)                          | Ø6x26                 | ISO 8752 |
| 135-1  | Washer (tie rod)            |                       | EN 1.4301 (AISI 304)                          | Ø16                   | ISO 7089 |
| 135-2  | Washer (casing tie rod)     | EN 1.4301 (AISI 304)  | EN 1.4404 (AISI 316)                          | Ø5.1                  | UNI 1751 |
| 135-5  | Washer (impeller nut)       | EN 1.4301 (AISI 304)  | EN 1.4404 (AISI 316L)                         |                       |          |
| 135-6  | Washer (aluminium coupling) | up to 4.0 kW          | Carbon Steel                                  |                       |          |
| 137-1  | Impeller spacer             |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |          |
| 137-2  | Shaft spacer                |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |          |
| 140    | Coupling                    | up to 4.0 kW          | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)      |                       |          |
|        |                             | from 5.5 kW to 30 kW  | Cast Iron EN GJL250 EN 1561                   |                       |          |
| 160    | Base                        |                       | Cast Iron EN GJL200 EN 1561                   |                       |          |
| 162    | Motor bracket               | up to 30 kW           | Cast Iron EN GJS 400-15 EN 1563               |                       |          |
| 212    | Priming plug                |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |          |
| 212-1  | Drainage plug               |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |          |
| 212-2  | Venting plug                |                       | EN 1.4401 (AISI 316)                          |                       |          |
| 212-3  | Priming plug                |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |          |
| 245    | Coupling guard              |                       | EN 1.4301 (AISI 304)                          |                       |          |
| 273-1  | Washer (drainage plug)      |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |          |
| 615    | Loose flange                |                       | Cast Iron EN GJS 500-7 EN 1563                |                       |          |

QUANTITY FOR MODEL  
EVMS(L)32

| Pump Type          | N° |     |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |    |    |    |    |      |      |    |      |   |
|--------------------|----|-----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|----|----|----|----|------|------|----|------|---|
|                    | 4  | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 45 | 46 | 47 | 48 | 52-1 | 52-2 | 53 | 70-2 |   |
| EVMS(L)32 1-1/3.0  | 1  | 1   | /   | /   | /   | 1   | 1 | 1 | 1  | /  | 1    | 1  | 1    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /    | 1    | 1  | 1    |   |
| EVMS(L)32 1-0/3.0  | 1  | 1   | /   | /   | /   | 1   | 1 | 1 | 1  | 1  | /    | 1  | 1    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /    | 1    | 1  | 1    |   |
| EVMS(L)32 2-2/5.5  | 1  | 1   | /   | /   | 1   | 1   | 1 | 1 | 1  | /  | 2    | 1  | 1    | 1    | 1    | 2    | /    | /    | 1    | 1    | /    | 1  | 4  | 1  | 1  | 1    | /    | 1  | 2    | 1 |
| EVMS(L)32 2-1/5.5  | 1  | 1   | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | 1    | 1  | 1    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /    | 1    | 2  | 1    |   |
| EVMS(L)32 2-0/7.5  | 1  | 1   | /   | /   | 1   | 1   | 1 | 1 | 1  | 2  | /    | 1  | 1    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /    | 1    | 2  | 1    |   |
| EVMS(L)32 3-2/11   | 1  | 1   | /   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 1  | 1    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1    | 1    | 1  | 3    | 1 |
| EVMS(L)32 3-0/11   | 1  | 1   | /   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | /    | 1  | 1    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1    | 1    | 1  | 3    | 1 |
| EVMS(L)32 4-2/11   | 1  | 1   | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 2    | 1  | 1    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1    | 1    | 1  | 4    | 1 |
| EVMS(L)32 4-0/15   | 1  | 1   | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | /    | 1  | 1    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1    | 1    | 1  | 4    | 1 |
| EVMS(L)32 5-2/15   | 1  | 1   | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 2    | 1  | 1    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1    | 1    | 1  | 5    | 1 |
| EVMS(L)32 5-0/15   | 1  | 1   | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | /    | 1  | 1    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1    | 1    | 1  | 5    | 1 |
| EVMS(L)32 6-2/18.5 | 1  | 1   | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | 2    | 1  | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1    | 1    | 1  | 6    | 1 |
| EVMS(L)32 6-0/18.5 | 1  | 1   | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | /    | 1  | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1    | 1    | 1  | 6    | 1 |
| EVMS(L)32 7-2/22   | 1  | 1   | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | 2    | 1  | 1    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1    | 1    | 1  | 7    | 1 |
| EVMS(L)32 7-0/22   | 1  | 1   | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 7  | /    | 1  | 1    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1    | 1    | 1  | 7    | 1 |
| EVMS(L)32 8-2/22   | 1  | 1   | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | 2    | 1  | 1    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1    | 1    | 1  | 8    | 1 |
| EVMS(L)32 8-0/30   | 1  | 1   | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 8  | /    | 1  | 1    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1    | 1    | 1  | 8    | 1 |
| EVMS(L)32 9-2/30   | 1  | 1   | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 7  | 2    | 1  | 1    | 1    | 8    | 2    | 2    | 1    | 1    | 2    | 1    | 4  | 1  | 1  | 1  | 2    | 1    | 8  | 1    |   |
| EVMS(L)32 9-0/30   | 1  | 1   | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 9  | /    | 1  | 1    | 1    | 8    | 2    | 2    | 1    | 1    | 2    | 1    | 4  | 1  | 1  | 1  | 2    | 1    | 8  | 1    |   |
| EVMS(L)32 10-0/30  | 1  | 1   | 7   | 1   | 1   | 1   | 1 | 1 | 1  | 10 | /    | 1  | 1    | 1    | 9    | 2    | 2    | 1    | 1    | 2    | 1    | 4  | 1  | 1  | 1  | 2    | 1    | 9  | 1    |   |

| Pump Type          | N° |      |    |     |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |       |       |       |       |       |       |       |
|--------------------|----|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                    | 75 | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-6 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 | 130-1 | 130-2 | 131-1 | 131-2 | 135-1 | 135-2 | 135-5 |
| EVMS(L)32 1-1/3.0  | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |
| EVMS(L)32 1-0/3.0  | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |
| EVMS(L)32 2-2/5.5  | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |
| EVMS(L)32 2-1/5.5  | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |
| EVMS(L)32 2-0/7.5  | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |
| EVMS(L)32 3-2/11   | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |       |
| EVMS(L)32 3-0/11   | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |       |
| EVMS(L)32 4-2/11   | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |       |
| EVMS(L)32 4-0/15   | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |       |
| EVMS(L)32 5-2/15   | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |       |
| EVMS(L)32 5-0/15   | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |       |
| EVMS(L)32 6-2/18.5 | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |       |
| EVMS(L)32 6-0/18.5 | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |       |
| EVMS(L)32 7-2/22   | 2  | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |       |
| EVMS(L)32 7-0/22   | 2  | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |       |
| EVMS(L)32 8-2/22   | 2  | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |       |
| EVMS(L)32 8-0/30   | 2  | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |       |
| EVMS(L)32 9-2/30   | 2  | 4    | 7  | 9   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |       |
| EVMS(L)32 9-0/30   | 2  | 4    | 7  | 9   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |       |
| EVMS(L)32 10-0/30  | 2  | 4    | 8  | 10  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 3     | 4     | 1     | 1     | 4     | 2     | 1     |       |



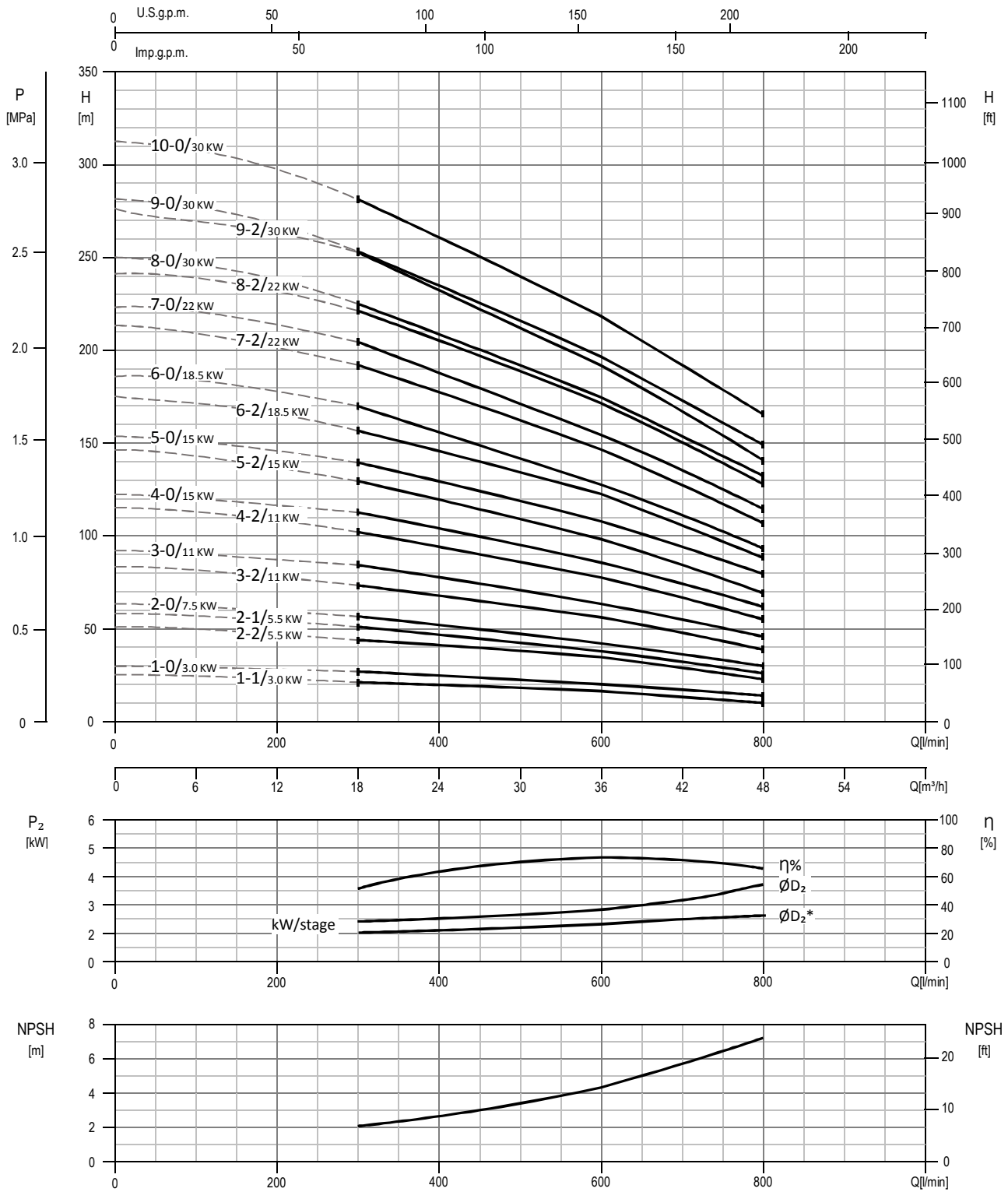
### QUANTITY FOR MODEL EVMS(L)32

| Pump Type          | N°    |       |       |     |     |     |     |       |       |       |     |       |     |  |
|--------------------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-----|-------|-----|--|
|                    | 135-6 | 137-1 | 137-2 | 140 | 160 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 | 615 |  |
| EVMS(L)32 1-1/3.0  | 4     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 1-0/3.0  | 4     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 2-2/5.5  | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 2-1/5.5  | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 2-0/7.5  | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 3-2/11   | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 3-0/11   | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 4-2/11   | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 4-0/15   | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 5-2/15   | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 5-0/15   | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 6-2/18.5 | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 6-0/18.5 | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 7-2/22   | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 7-0/22   | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 8-2/22   | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 8-0/30   | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 9-2/30   | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 9-0/30   | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |
| EVMS(L)32 10-0/30  | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |  |

### BEARINGS EVMS(L)32

| Pump Type          | N° 56 |
|--------------------|-------|
| EVMS(L)32 1-1/3.0  | /     |
| EVMS(L)32 1-0/3.0  | /     |
| EVMS(L)32 2-2/5.5  | /     |
| EVMS(L)32 2-1/5.5  | /     |
| EVMS(L)32 2-0/7.5  | /     |
| EVMS(L)32 3-2/11   | /     |
| EVMS(L)32 3-0/11   | /     |
| EVMS(L)32 4-2/11   | /     |
| EVMS(L)32 4-0/15   | /     |
| EVMS(L)32 5-2/15   | /     |
| EVMS(L)32 5-0/15   | /     |
| EVMS(L)32 6-2/18.5 | /     |
| EVMS(L)32 6-0/18.5 | /     |
| EVMS(L)32 7-2/22   | /     |
| EVMS(L)32 7-0/22   | /     |
| EVMS(L)32 8-2/22   | /     |
| EVMS(L)32 8-0/30   | /     |
| EVMS(L)32 9-2/30   | /     |
| EVMS(L)32 9-0/30   | /     |
| EVMS(L)32 10-0/30  | /     |

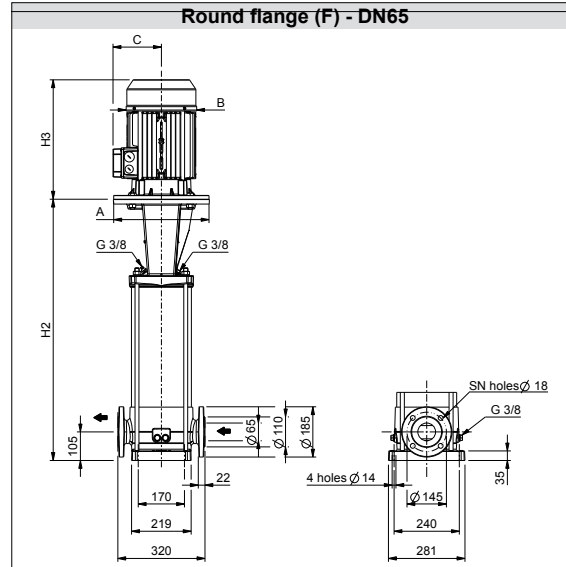
PERFORMANCE CURVE  
EVMSG32



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMSG32

#### Dimensional sketch



#### Dimensions [mm] and Weights [Kg]

| Pump Type        | Pmax [MPa] | Motor |      |        |     |     | Round flange (F) |       |    |             |                     |
|------------------|------------|-------|------|--------|-----|-----|------------------|-------|----|-------------|---------------------|
|                  |            | kW    | Size | A<br>Ø | B   | C   | H2               | H2+H3 | SN | Weight Pump | Weight Pump + Motor |
| EVMSG32 1-1/3.0  | 1.6        | 3.0   | 100  | 160    | 176 | 123 | 461              | 803   | 4  | 45.3        | 67.3                |
| EVMSG32 1-0/3.0  | 1.6        | 3.0   | 100  | 160    | 176 | 123 | 461              | 803   | 4  | 45.3        | 67.3                |
| EVMSG32 2-2/5.5  | 1.6        | 5.5   | 132  | 300    | 220 | 152 | 635              | 1035  | 4  | 59.3        | 98.3                |
| EVMSG32 2-1/5.5  | 1.6        | 5.5   | 132  | 300    | 220 | 152 | 635              | 1035  | 4  | 59.3        | 98.3                |
| EVMSG32 2-0/7.5  | 1.6        | 7.5   | 132  | 300    | 220 | 152 | 635              | 1055  | 4  | 59.3        | 105.3               |
| EVMSG32 3-2/11   | 1.6        | 11    | 160  | 350    | 259 | 180 | 735              | 1174  | 4  | 69.1        | 131.6               |
| EVMSG32 3-0/11   | 1.6        | 11    | 160  | 350    | 259 | 180 | 735              | 1174  | 4  | 69.1        | 131.6               |
| EVMSG32 4-2/11   | 1.6        | 11    | 160  | 350    | 259 | 180 | 805              | 1244  | 4  | 72.4        | 134.9               |
| EVMSG32 4-0/15   | 1.6        | 15    | 160  | 350    | 311 | 240 | 805              | 1300  | 4  | 61.4        | 162.4               |
| EVMSG32 5-2/15   | 1.6        | 15    | 160  | 350    | 311 | 240 | 875              | 1370  | 4  | 64.7        | 165.7               |
| EVMSG32 5-0/15   | 1.6        | 15    | 160  | 350    | 311 | 240 | 875              | 1370  | 4  | 64.7        | 165.7               |
| EVMSG32 6-2/18.5 | 2.5        | 18.5  | 160  | 350    | 311 | 240 | 945              | 1440  | 4  | 72.0        | 181.0               |
| EVMSG32 6-0/18.5 | 2.5        | 18.5  | 160  | 350    | 311 | 240 | 945              | 1440  | 4  | 72.0        | 181.0               |
| EVMSG32 7-2/22   | 2.5        | 22    | 180  | 350    | 354 | 260 | 1015             | 1567  | 4  | 72.3        | 207.3               |
| EVMSG32 7-0/22   | 2.5        | 22    | 180  | 350    | 354 | 260 | 1015             | 1567  | 8  | 72.3        | 207.3               |
| EVMSG32 8-2/22   | 2.5        | 22    | 180  | 350    | 354 | 260 | 1085             | 1637  | 8  | 77.2        | 212.2               |
| EVMSG32 8-0/30   | 3.0        | 30    | 200  | 400    | 354 | 280 | 1085             | 1637  | 8  | 69.6        | 237.6               |
| EVMSG32 9-2/30   | 3.0        | 30    | 200  | 400    | 354 | 280 | 1155             | 1707  | 8  | 73.1        | 241.1               |
| EVMSG32 9-0/30   | 3.0        | 30    | 200  | 400    | 354 | 280 | 1155             | 1707  | 8  | 73.1        | 241.1               |
| EVMSG32 10-0/30  | 3.0        | 30    | 200  | 400    | 354 | 280 | 1225             | 1777  | 8  | 76.5        | 244.5               |

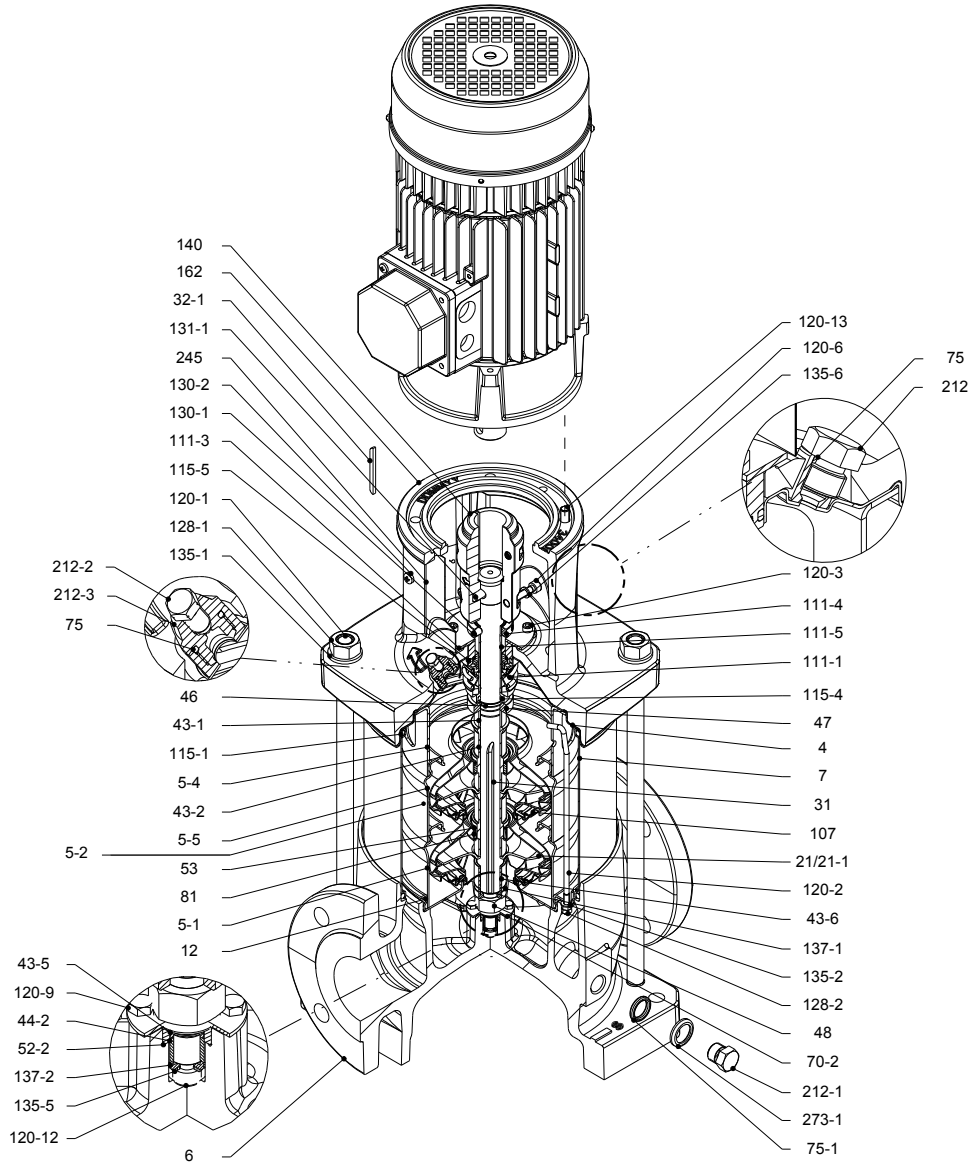
1.6 MPa=16 bar;

2.5 MPa=25 bar;

3.0 MPa=30 bar

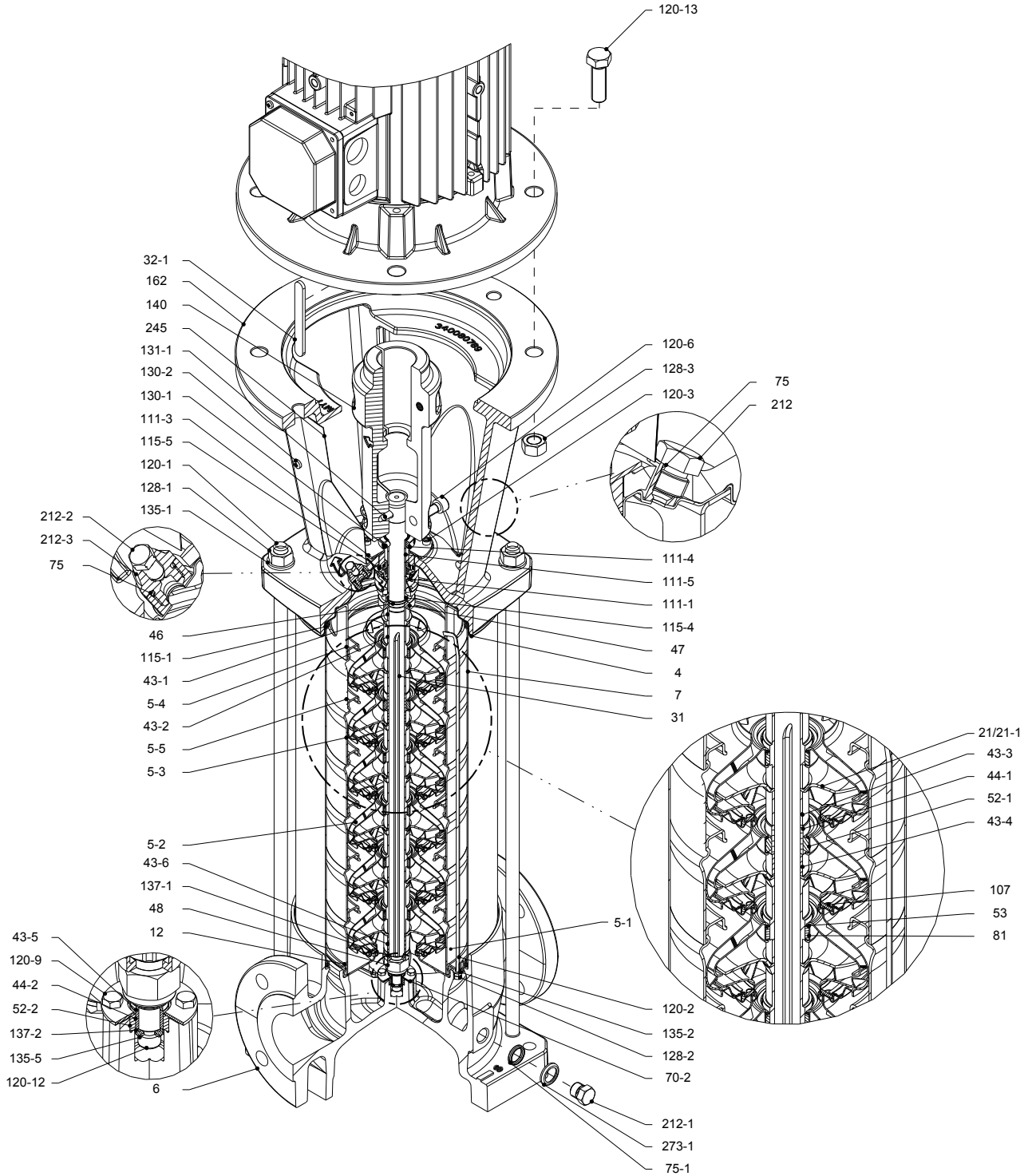
SECTIONAL VIEW  
EVMSG32

EVMSG32



Pump without ball bearing  
up to 4.0 kW

### SECTIONAL VIEW EVMSG32



Pump without ball bearing  
from 5.5 kW to 30 kW

SECTIONAL TABLE  
EVMSG32

| N°    | PART NAME                        | MATERIAL<br>EVMSG                     | DIMENSIONS   | STANDARD |
|-------|----------------------------------|---------------------------------------|--------------|----------|
| 4     | Casing cover                     | EN 1.4301 (AISI 304)                  |              |          |
| 5-1   | Suction casing                   | EN 1.4301 (AISI 304)                  |              |          |
| 5-2   | Intermediate casing              | EN 1.4301 (AISI 304)                  |              |          |
| 5-3   | Intermediate casing with bearing | EN 1.4301 (AISI 304)                  |              |          |
| 5-4   | Discharge casing                 | EN 1.4301 (AISI 304)                  |              |          |
| 5-5   | Top intermediate casing          | EN 1.4301 (AISI 304)                  |              |          |
| 6     | Bottom casing                    | Cast Iron EN GJL-250 EN 1561          |              |          |
| 7     | Outer casing                     | EN 1.4301 (AISI 304)                  |              |          |
| 12    | Suction cover                    | EN 1.4301 (AISI 304)                  |              |          |
| 21    | Impeller                         | EN 1.4301 (AISI 304)                  |              |          |
| 21-1  | Reduced impeller                 | EN 1.4301 (AISI 304)                  |              |          |
| 31    | Shaft                            | EN 1.4301 (AISI 304)                  |              |          |
| 32-1  | Adjuster key                     | EN 1.4301 (AISI 304)                  |              |          |
| 43-1  | Shaft sleeve (mechanical seal)   | EN 1.4301 (AISI 304)                  |              |          |
| 43-2  | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                  |              |          |
| 43-3  | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                  |              |          |
| 43-4  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)                  |              |          |
| 43-5  | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                  |              |          |
| 43-6  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)                  |              |          |
| 44-1  | Shaft sleeve bearing             | Tungsten carbide                      |              |          |
| 44-2  | Shaft sleeve (bearing)           | Tungsten carbide                      |              |          |
| 46    | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                 |              |          |
| 47    | Ring holder                      | EN 1.4301 (AISI 304)                  |              |          |
| 48    | Impeller nut                     | EN 1.4301 (AISI 304) with inox insert |              |          |
| 52-1  | Sleeve bearing                   | Tungsten carbide                      |              |          |
| 52-2  | Bearing sleeve (bottom casing)   | Tungsten carbide                      |              |          |
| 53    | Bush holder                      | EN 1.4301 (AISI 304)                  |              |          |
| 70-2  | Ring for bearing sleeve          | EN 1.4301 (AISI 304)                  |              |          |
| 75    | O-Ring (priming plug)            | EPDM / FPM                            | Ø12.37x2.62  | OR 3050  |
| 75-1  | O-Ring (drainage plug)           | EPDM / FPM                            |              |          |
| 81    | Bush                             | PTFE                                  |              |          |
| 107   | Liner ring                       | EN 1.4301 (AISI 304) + PPS            |              |          |
| 111-1 | Mechanical seal                  | See pages 6-7                         |              |          |
| 111-3 | Mechanical seal seat             | EN 1.4301 (AISI 304)                  |              |          |
| 111-4 | Seal holder                      | EN 1.4404 (AISI 316L)                 |              |          |
| 111-5 | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                  |              |          |
| 115-1 | O-Ring (outer casing)            | EPDM / FPM                            | Ø240.66x5.34 | OR 6945  |
| 115-4 | O-Ring (cartridge sleeve)        | EPDM / FPM                            | Ø23.39x3.53  | OR 4093  |
| 115-5 | O-Ring (seal flange)             | EPDM / FPM                            | Ø44.04x3.53  | OR 4175  |
| 120-1 | Tie rod                          | EN 1.4057 (AISI 431)                  |              |          |
| 120-2 | Tie rod (stage)                  | EN 1.4301 (AISI 304)                  |              |          |
| 120-3 | Screw (seal flange)              | A2-70                                 | M5x12        | ISO 4762 |

### SECTIONAL TABLE EVMSG32

| N°     | PART NAME                   | MATERIAL<br>EVMSG     | DIMENSIONS                                    | STANDARD |          |
|--------|-----------------------------|-----------------------|---|----------|----------|
| 120-6  | Screw (pump coupling)       | up to 4.0 kW          | Galvanized steel 8.8 strength class ISO 898/1 | M6x25    | ISO 4762 |
|        |                             | from 5.5 kW to 7.5 kW | Galvanized steel 8.8 strength class ISO 898/1 | M8x25    | ISO 4762 |
|        |                             | above 11 kW           | Galvanized steel 8.8 strength class ISO 898/1 | M10x30   | ISO 4762 |
| 120-9  | Screw (bottom casing)       | A2-70                 | M5x8  | ISO 4017 |          |
| 120-12 | Screw (shaft)               | A2-70                 | M6x16   | ISO 4762 |          |
| 120-13 | Screw for motor             | MEC 100-112           | Galvanized steel 8.8 strength class ISO 898/1 | M8x20    | ISO 4017 |
|        |                             | MEC 132               | Galvanized steel 8.8 strength class ISO 898/1 | M12x45   | ISO 4017 |
|        |                             | MEC 160-180           | Galvanized steel 8.8 strength class ISO 898/1 | M16x50   | ISO 4017 |
|        |                             | MEC 200-225           | Galvanized steel 8.8 strength class ISO 898/1 | M16x60   | ISO 4014 |
| 128-1  | Nut (tie rod)               | A2-70                 | M16   | ISO 4032 |          |
| 128-2  | Nut (casing tie rod)        | A2-70                 | M5  | ISO 4032 |          |
| 128-3  | Nut (motor)                 | MEC 132               | Galvanized steel                              | M12      | ISO 4032 |
|        |                             | MEC 160-180-200-225   | Galvanized steel                              | M16      | ISO 4032 |
| 128-6  | Nut (aluminium coupling)    | MEC 100-112           | Galvanized steel                              | M6       | ISO 4032 |
| 130-1  | Set screw                   | EN 1.4301 (AISI 304)  | M6x8  | ISO 4026 |          |
| 130-2  | Screw for coupling guard    | A2-70                 | M5x6  | UNI 7687 |          |
| 131-1  | Pin for shaft               | up to 4.0 kW          | Carbon Steel                                  | Ø8x42    | ISO 2338 |
|        |                             | above 5.5 Kw          | Carbon Steel                                  | Ø8x50    | ISO 2338 |
| 135-1  | Washer (tie rod)            | EN 1.4301 (AISI 304)  | Ø16   | ISO 7089 |          |
| 135-2  | Washer (casing tie rod)     | EN 1.4301 (AISI 304)  | Ø5.1  | UNI 1751 |          |
| 135-5  | Washer (impeller nut)       | EN 1.4301 (AISI 304)  |   |          |          |
| 135-6  | Washer (aluminium coupling) | up to 4.0 kW          | Carbon Steel                                  |          |          |
| 137-1  | Impeller spacer             | EN 1.4301 (AISI 304)  |   |          |          |
| 137-2  | Shaft spacer                | EN 1.4301 (AISI 304)  |   |          |          |
| 140    | Coupling                    | up to 4.0 kW          | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)      |          |          |
|        |                             | from 5.5 kW to 30 kW  | Cast Iron EN GJL250 EN 1561                   |          |          |
| 162    | Motor bracket               | up to 30 kW           | Cast Iron EN GJS 400-15 EN 1563               |          |          |
| 212    | Priming plug                | EN 1.4301 (AISI 304)  |   |          |          |
| 212-1  | Drainage plug               | EN 1.4301 (AISI 304)  |   |          |          |
| 212-2  | Venting plug                | EN 1.4401 (AISI 316)  |   |          |          |
| 212-3  | Priming plug                | EN 1.4301 (AISI 304)  |   |          |          |
| 245    | Coupling guard              | EN 1.4301 (AISI 304)  |   |          |          |
| 273-1  | Washer (drainage plug)      | EN 1.4301 (AISI 304)  |   |          |          |

QUANTITY FOR MODEL  
EVMSG32

EVMSG32

| Pump Type        | 1N° |     |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |    |    |    |      |      |    |      |    |
|------------------|-----|-----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|----|----|----|------|------|----|------|----|
|                  | 4   | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 46 | 47 | 48 | 52-1 | 52-2 | 53 | 70-2 | 75 |
| EVMSG32 1-1/3.0  | 1   | 1   | /   | /   | /   | 1   | 1 | 1 | 1  | /  | 1    | 1  | 1    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | /    | 1    | 1  | 1    | 2  |
| EVMSG32 1-0/3.0  | 1   | 1   | /   | /   | /   | 1   | 1 | 1 | 1  | 1  | /    | 1  | 1    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | /    | 1    | 1  | 1    | 2  |
| EVMSG32 2-2/5.5  | 1   | 1   | /   | /   | 1   | 1   | 1 | 1 | 1  | /  | 2    | 1  | 1    | 1    | 1    | 2    | /    | /    | 1    | 1    | /    | 1  | 1  | 1  | /    | 1    | 1  | 2    | 2  |
| EVMSG32 2-1/5.5  | 1   | 1   | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | 1    | 1  | 1    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | /    | 1    | 2  | 2    |    |
| EVMSG32 2-0/7.5  | 1   | 1   | /   | /   | 1   | 1   | 1 | 1 | 1  | 2  | /    | 1  | 1    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | /    | 1    | 2  | 2    |    |
| EVMSG32 3-2/11   | 1   | 1   | /   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 1    | 1  | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 3  | 2    |    |
| EVMSG32 3-0/11   | 1   | 1   | /   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | /    | 1  | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 3  | 2    |    |
| EVMSG32 4-2/11   | 1   | 1   | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 2    | 1  | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 4  | 2    |    |
| EVMSG32 4-0/15   | 1   | 1   | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | /    | 1  | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 4  | 2    |    |
| EVMSG32 5-2/15   | 1   | 1   | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 2    | 1  | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 5  | 2    |    |
| EVMSG32 5-0/15   | 1   | 1   | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | /    | 1  | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 5  | 2    |    |
| EVMSG32 6-2/18.5 | 1   | 1   | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | 2    | 1  | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 6  | 2    |    |
| EVMSG32 6-0/18.5 | 1   | 1   | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | /    | 1  | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 6  | 2    |    |
| EVMSG32 7-2/22   | 1   | 1   | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | 2    | 1  | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 7  | 2    |    |
| EVMSG32 7-0/22   | 1   | 1   | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 7  | /    | 1  | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 7  | 2    |    |
| EVMSG32 8-2/22   | 1   | 1   | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | 2    | 1  | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 8  | 2    |    |
| EVMSG32 8-0/30   | 1   | 1   | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 8  | /    | 1  | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 8  | 2    |    |
| EVMSG32 9-2/30   | 1   | 1   | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 7  | 2    | 1  | 1    | 8    | 2    | 2    | 1    | 1    | 2    | 1    | 1    | 1  | 1  | 1  | 2    | 1    | 8  | 2    |    |
| EVMSG32 9-0/30   | 1   | 1   | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 9  | /    | 1  | 1    | 8    | 2    | 2    | 1    | 1    | 2    | 1    | 1    | 1  | 1  | 1  | 2    | 1    | 8  | 2    |    |
| EVMSG32 10-0/30  | 1   | 1   | 7   | 1   | 1   | 1   | 1 | 1 | 1  | 10 | /    | 1  | 1    | 9    | 2    | 2    | 1    | 1    | 2    | 1    | 1    | 1  | 1  | 1  | 2    | 1    | 9  | 2    |    |

| Pump Type        | N°   |    |     |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |       |       |       |       |       |       |       |       |
|------------------|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                  | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-6 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 | 130-1 | 130-2 | 131-1 | 135-1 | 135-2 | 135-5 | 135-6 | 137-1 |
| EVMSG32 1-1/3.0  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 3     | 4     | 1     | 4     | 2     | 1     | 4     | 1     |
| EVMSG32 1-0/3.0  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 3     | 4     | 1     | 4     | 2     | 1     | 4     | 1     |
| EVMSG32 2-2/5.5  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 2-1/5.5  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 2-0/7.5  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 3-2/11   | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 3-0/11   | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 4-2/11   | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 4-0/15   | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 5-2/15   | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 5-0/15   | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 6-2/18.5 | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 6-0/18.5 | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 7-2/22   | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 7-0/22   | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 8-2/22   | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 8-0/30   | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 9-2/30   | 4    | 7  | 9   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 9-0/30   | 4    | 7  | 9   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |
| EVMSG32 10-0/30  | 4    | 8  | 10  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | /     | 1     |



### QUANTITY FOR MODEL EVMSG32

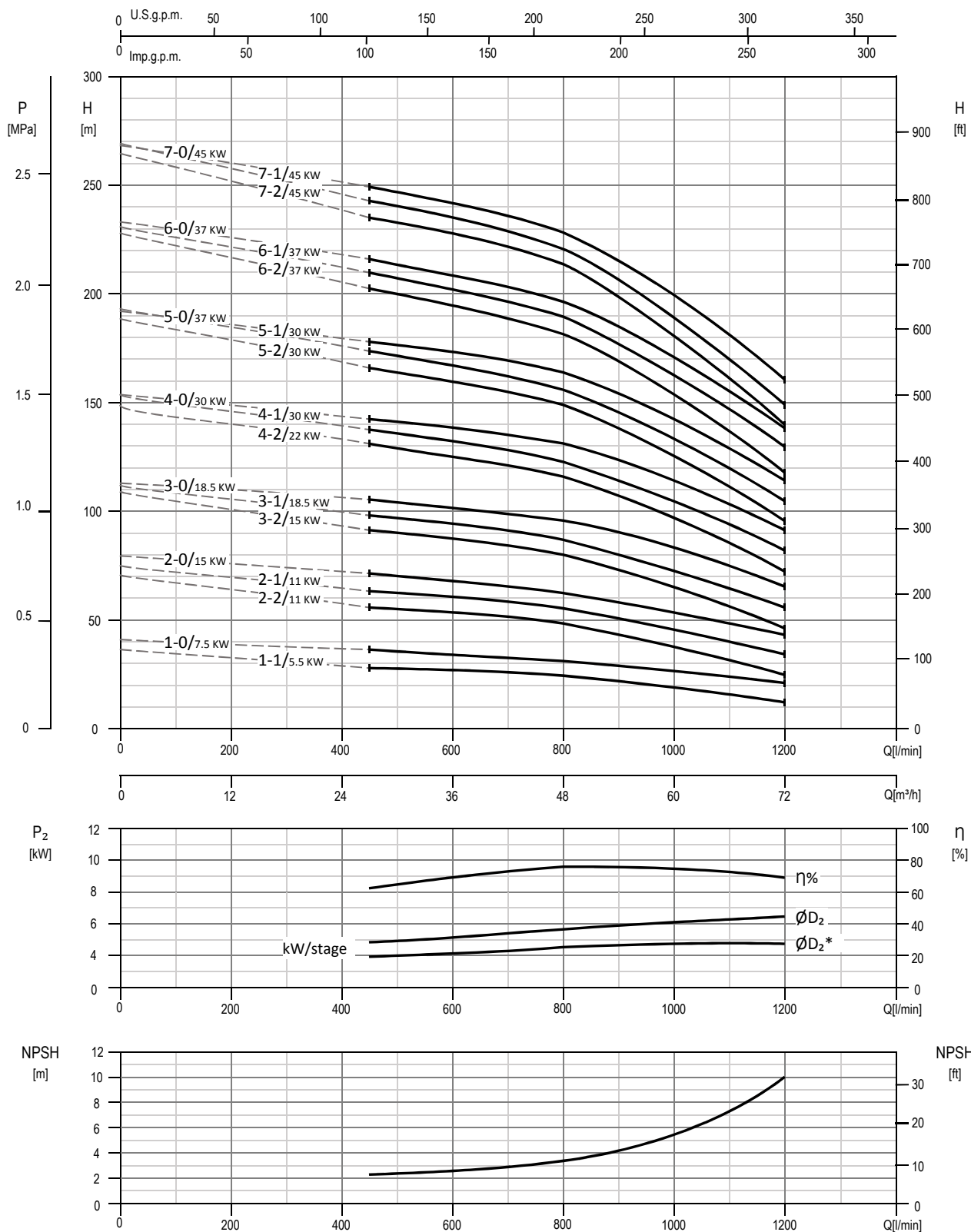
| Pump Type        | N°    |     |     |     |       |       |       |     |       |  |
|------------------|-------|-----|-----|-----|-------|-------|-------|-----|-------|--|
|                  | 137-2 | 140 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 |  |
| EVMSG32 1-1/3.0  | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 1-0/3.0  | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 2-2/5.5  | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 2-1/5.5  | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 2-0/7.5  | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 3-2/11   | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 3-0/11   | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 4-2/11   | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 4-0/15   | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 5-2/15   | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 5-0/15   | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 6-2/18.5 | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 6-0/18.5 | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 7-2/22   | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 7-0/22   | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 8-2/22   | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 8-0/30   | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 9-2/30   | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 9-0/30   | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |
| EVMSG32 10-0/30  | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |  |

### BEARINGS EVMSG32

| Pump Type        | N° 56 |
|------------------|-------|
| EVMSG32 1-1/3.0  | /     |
| EVMSG32 1-0/3.0  | /     |
| EVMSG32 2-2/5.5  | /     |
| EVMSG32 2-1/5.5  | /     |
| EVMSG32 2-0/7.5  | /     |
| EVMSG32 3-2/11   | /     |
| EVMSG32 3-0/11   | /     |
| EVMSG32 4-2/11   | /     |
| EVMSG32 4-0/15   | /     |
| EVMSG32 5-2/15   | /     |
| EVMSG32 5-0/15   | /     |
| EVMSG32 6-2/18.5 | /     |
| EVMSG32 6-0/18.5 | /     |
| EVMSG32 7-2/22   | /     |
| EVMSG32 7-0/22   | /     |
| EVMSG32 8-2/22   | /     |
| EVMSG32 8-0/30   | /     |
| EVMSG32 9-2/30   | /     |
| EVMSG32 9-0/30   | /     |
| EVMSG32 10-0/30  | /     |

PERFORMANCE CURVE  
EVMS(L)45

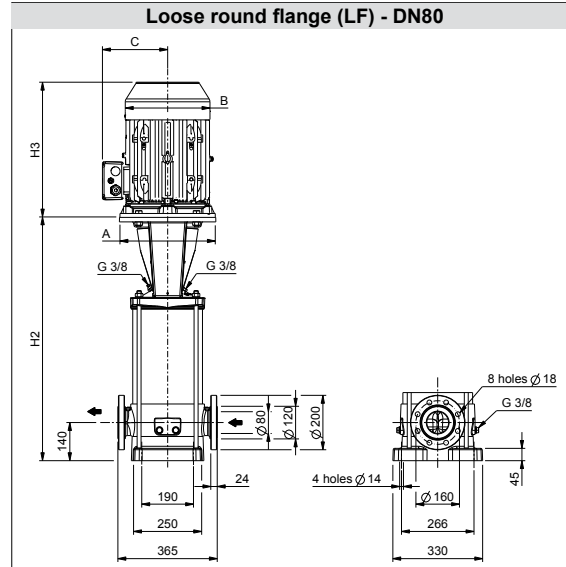
EVMS(L)45



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)45

#### Dimensional sketch



#### Dimensions [mm] and Weights [Kg]

| Pump Type          | P <sub>max</sub><br>[MPa] | Motor |      |        |     |     | Loose round flange (LF) |       |                |                           |
|--------------------|---------------------------|-------|------|--------|-----|-----|-------------------------|-------|----------------|---------------------------|
|                    |                           | kW    | Size | A<br>Ø | B   | C   | H2                      | H2+H3 | Weight<br>Pump | Weight<br>Pump +<br>Motor |
| EVMS(L)45 1-1/5.5  | 1.6                       | 5.5   | 132  | 300    | 220 | 152 | 650                     | 1049  | 75.7           | 114.7                     |
| EVMS(L)45 1-0/7.5  | 1.6                       | 7.5   | 132  | 300    | 220 | 152 | 650                     | 1069  | 75.7           | 121.7                     |
| EVMS(L)45 2-2/11   | 1.6                       | 11    | 160  | 350    | 259 | 180 | 752                     | 1191  | 87.8           | 150.3                     |
| EVMS(L)45 2-1/11   | 1.6                       | 11    | 160  | 350    | 259 | 180 | 752                     | 1191  | 87.8           | 150.3                     |
| EVMS(L)45 2-0/15   | 1.6                       | 15    | 160  | 350    | 311 | 240 | 752                     | 1247  | 76.8           | 177.8                     |
| EVMS(L)45 3-2/15   | 1.6                       | 15    | 160  | 350    | 311 | 240 | 824                     | 1319  | 81.8           | 182.8                     |
| EVMS(L)45 3-1/18.5 | 1.6                       | 18.5  | 160  | 350    | 311 | 240 | 824                     | 1319  | 86.0           | 195.0                     |
| EVMS(L)45 3-0/18.5 | 1.6                       | 18.5  | 160  | 350    | 311 | 240 | 824                     | 1319  | 86.0           | 195.0                     |
| EVMS(L)45 4-2/22   | 1.6                       | 22    | 180  | 350    | 354 | 260 | 896                     | 1448  | 88.1           | 223.1                     |
| EVMS(L)45 4-1/30   | 1.6                       | 30    | 200  | 400    | 354 | 280 | 896                     | 1448  | 80.4           | 248.4                     |
| EVMS(L)45 4-0/30   | 1.6                       | 30    | 200  | 400    | 354 | 280 | 896                     | 1448  | 80.4           | 248.4                     |
| EVMS(L)45 5-2/30   | 2.5                       | 30    | 200  | 400    | 354 | 280 | 968                     | 1520  | 85.7           | 253.7                     |
| EVMS(L)45 5-1/30   | 2.5                       | 30    | 200  | 400    | 354 | 280 | 968                     | 1520  | 85.7           | 253.7                     |
| EVMS(L)45 5-0/37   | 2.5                       | 37    | 200  | 400    | 382 | 295 | 985                     | 1662  | 115.7          | 375.7                     |
| EVMS(L)45 6-2/37   | 2.5                       | 37    | 200  | 400    | 382 | 295 | 1057                    | 1734  | 122.5          | 382.5                     |
| EVMS(L)45 6-1/37   | 2.5                       | 37    | 200  | 400    | 382 | 295 | 1057                    | 1734  | 122.5          | 382.5                     |
| EVMS(L)45 6-0/37   | 2.5                       | 37    | 200  | 400    | 382 | 295 | 1057                    | 1734  | 122.5          | 382.5                     |
| EVMS(L)45 7-2/45   | 3.5                       | 45    | 225  | 450    | 449 | 335 | 1129                    | 1895  | 139.3          | 513.3                     |
| EVMS(L)45 7-1/45   | 3.5                       | 45    | 225  | 450    | 449 | 335 | 1129                    | 1895  | 139.3          | 513.3                     |
| EVMS(L)45 7-0/45   | 3.5                       | 45    | 225  | 450    | 449 | 335 | 1129                    | 1895  | 139.3          | 513.3                     |

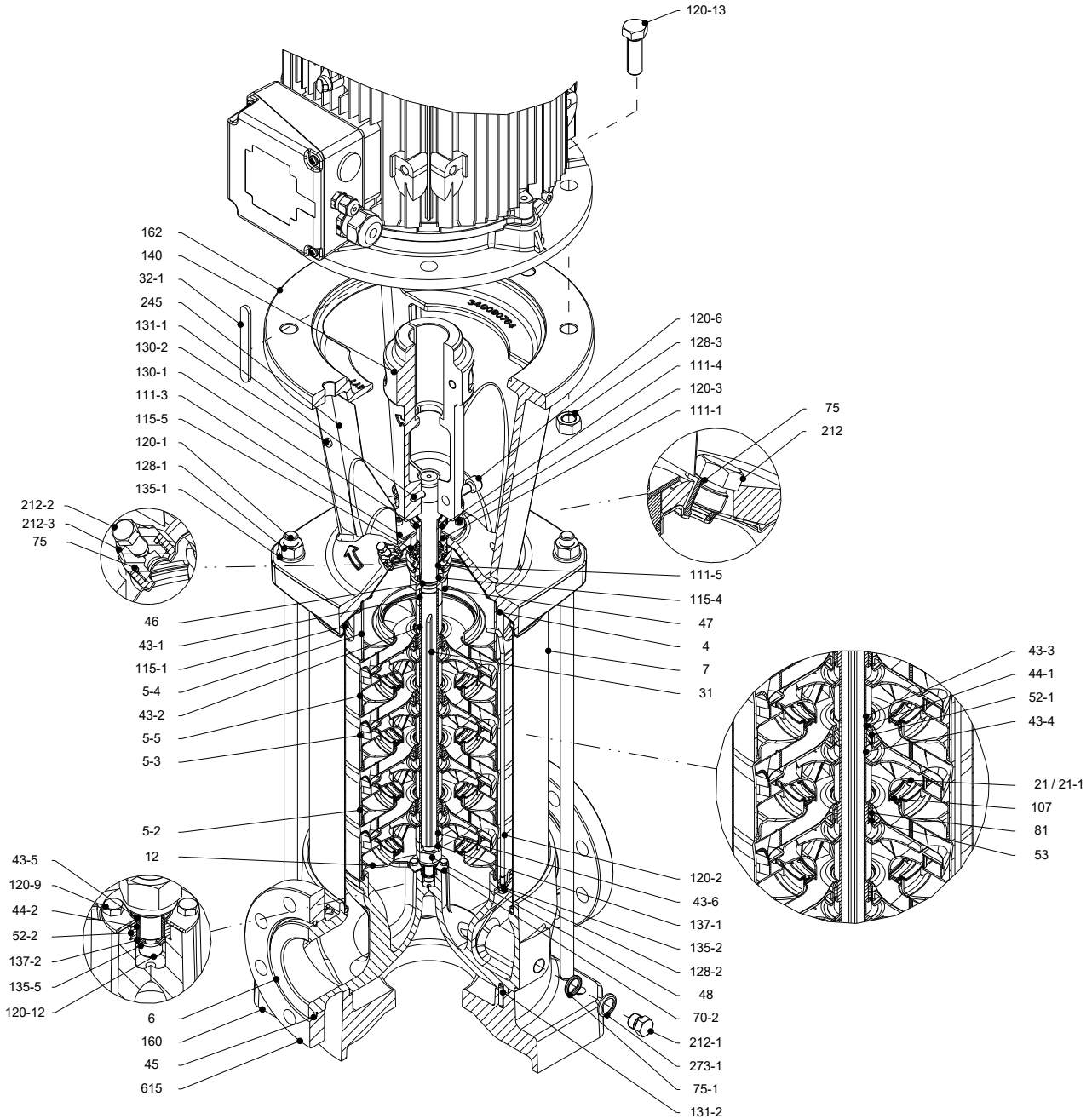
1.6 MPa=16 bar;

2.5 MPa=25 bar;

3.5 MPa=35 bar

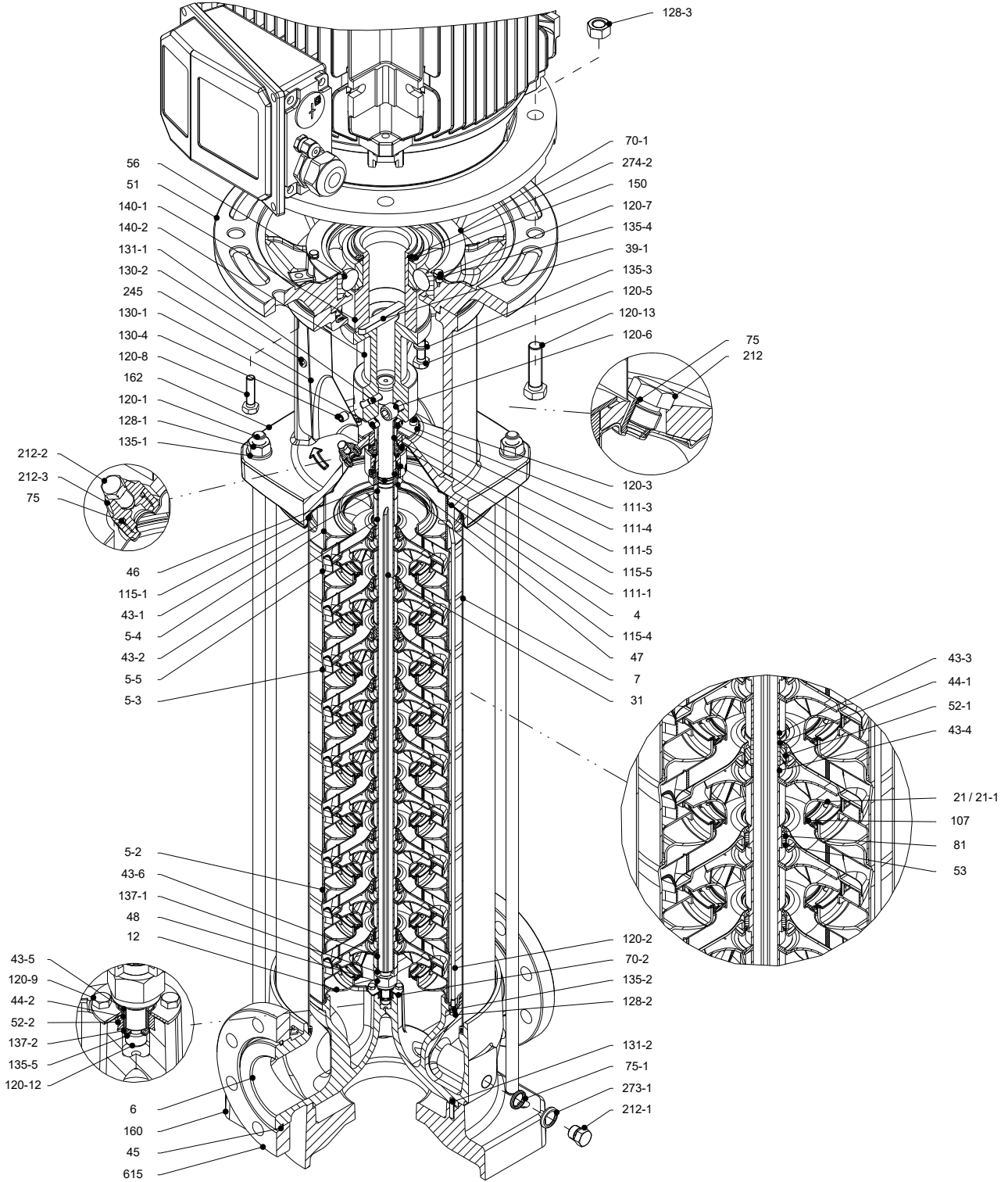
SECTIONAL VIEW  
EVMS(L)45

EVMS(L)45



Pump without ball bearing  
up to 30 kW

### SECTIONAL VIEW EVMS(L)45



Pump with single ball bearing  
above 37 kW

SECTIONAL TABLE  
EVMS(L)45

| N°    | PART NAME                        | MATERIAL                                 |  | DIMENSIONS   | STANDARD           |
|-------|----------------------------------|--|--|--------------|--------------------|
|       |                                  | EVMS                                     | EVMSL  |              |                    |
| 4     | Casing cover                     | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 5-2   | Intermediate casing              | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 5-3   | Intermediate casing with bearing | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 5-4   | Discharge casing                 | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 5-5   | Top intermediate casing          | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 6     | Bottom casing                    | EN 1.4308 (ASTM CF8)                     | EN 1.4408 (ASTM CF8M)                            |              |                    |
| 7     | Outer casing                     | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 12    | Suction cover                    | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 21    | Impeller                         | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 21-1  | Reduced impeller                 | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 31    | Shaft                            | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L) -<br>EN 1.4462 (AISI 329A) |              |                    |
| 32-1  | Adjuster key                     | EN 1.4301 (AISI 304)                     |  |              |                    |
| 39-1  | Coupling key                     | above 37 kW                              | Carbon Steel                                     |              |                    |
| 43-1  | Shaft sleeve (mechanical seal)   | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 43-2  | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 43-3  | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 43-4  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 43-5  | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 43-6  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 44-1  | Shaft sleeve bearing             | Tungsten carbide                         |  |              |                    |
| 44-2  | Shaft sleeve (bearing)           | Tungsten carbide                         |  |              |                    |
| 45    | Flange holder                    | EN 1.4301 (AISI 304)                     |  |              |                    |
| 46    | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                    |  |              |                    |
| 47    | Ring holder                      | EN 1.4404 (AISI 316L)                    |  |              |                    |
| 48    | Impeller nut                     | EN 1.4301 (AISI 304)<br>with inox insert | EN 1.4401 (AISI 316)<br>with inox insert         |              |                    |
| 51    | Motor adapter                    | above 37 kW                              | Cast Iron EN GJL250 EN 1561                      |              |                    |
| 52-1  | Sleeve bearing                   | Tungsten carbide                         |  |              |                    |
| 52-2  | Bearing sleeve (bottom casing)   | Tungsten carbide                         |  |              |                    |
| 53    | Bush holder                      | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 56    | Ball bearing                     | above 37 kW                              | see table page 111                               |              |                    |
| 70-1  | Ring for ball bearing            | above 37 kW                              | EN 1.4301 (AISI 304)                             |              |                    |
| 70-2  | Ring for bearing sleeve          | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 75    | O-Ring (priming plug)            | EPDM / FPM                               |  | Ø12.37x2.62  | OR 3050            |
| 75-1  | O-Ring (drainage plug)           | EPDM / FPM                               |  |              |                    |
| 81    | Bush                             | PTFE                                     |  |              |                    |
| 107   | Liner ring                       | EN 1.4301 (AISI 304) + PPS               | EN 1.4404 (AISI 316L) + PPS                      |              |                    |
| 111-1 | Mechanical seal                  | see pages 6-7                            |  |              |                    |
| 111-3 | Mechanical seal seat             | EN 1.4301 (AISI 304)                     | EN 1.4401 (AISI 316)                             |              |                    |
| 111-4 | Seal holder                      | EN 1.4404 (AISI 316L)                    |  |              |                    |
| 111-5 | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                            |              |                    |
| 115-1 | O-Ring (outer casing)            | EPDM / FPM                               |  | Ø240.66x5.34 | OR 6945            |
| 115-4 | O-Ring (cartridge sleeve)        | EPDM / FPM                               |  | Ø23.39x3.53  | OR 4093            |
| 115-5 | O-Ring (seal flange)             | EPDM / FPM                               |  | Ø44.04x3.53  | OR 4175            |
| 120-1 | Tie rod                          | EN 1.4057 (AISI 431)                     |  |              |                    |
| 120-2 | Tie rod (stage)                  | EN 1.4301 (AISI 304)                     | EN 1.4401 (AISI 316)                             |              |                    |
| 120-3 | Screw (seal flange)              | A2-70                                    |  | M5x12        | ISO 4762           |
| 120-5 | Screw (extension coupling)       | above 37 kW                              | Galvanized steel 8.8 strength class ISO 898/1    |              | M10x30<br>ISO 4017 |

### SECTIONAL TABLE EVMS(L)45

| N°     | PART NAME                   | MATERIAL            |   | DIMENSIONS | STANDARD |
|--------|-----------------------------|---------------------|---|------------|----------|
|        |                             | EVMS                | EVMSL   |            |          |
| 120-6  | Screw (pump coupling)       | up to 7.5 kW        | Galvanized steel 8.8 strength class ISO 898/1 | M8x25      | ISO 4762 |
|        |                             | from 11 kW to 30 kW | Galvanized steel 8.8 strength class ISO 898/1 | M10x30     | ISO 4762 |
|        |                             | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M12x30     | ISO 4762 |
| 120-7  | Screw (ball bearing)        | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M6x10      | ISO 4017 |
| 120-8  | Screw (motor adapter)       | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M10x40     | ISO 4017 |
| 120-9  | Screw (bottom casing)       |                     | A2-70   | M5x8       | ISO 4017 |
| 120-12 | Screw (shaft)               |                     | A2-70   | M6x16      | ISO 4762 |
| 120-13 | Screw for motor             | MEC 132             | Galvanized steel 8.8 strength class ISO 898/1 | M12x45     | ISO 4017 |
|        |                             | MEC 160-180         | Galvanized steel 8.8 strength class ISO 898/1 | M16x50     | ISO 4017 |
|        |                             | MEC 200-225         | Galvanized steel 8.8 strength class ISO 898/1 | M16x60     | ISO 4014 |
| 128-1  | Nut (tie rod)               |                     | A2-70   | M16        | ISO 4032 |
| 128-2  | Nut (casing tie rod)        |                     | A2-70   | M5         | ISO 4032 |
| 128-3  | Nut (motor)                 | MEC 132             | Galvanized steel                              | M12        | ISO 4032 |
|        |                             | MEC 160-180-200-225 | Galvanized steel                              | M16        | ISO 4032 |
| 130-1  | Set screw                   |                     | EN 1.4301 (AISI 304)                          | M6x8       | ISO 4026 |
| 130-2  | Screw for coupling guard    |                     | A2-70   | M5x6       | UNI 7687 |
| 130-4  | Set screw (pump coupling)   | above 37 kW         | Galvanized steel                              | M10x10     | ISO 4026 |
| 131-1  | Pin for shaft               |                     | Carbon Steel                                  | Ø8x50      | ISO 2338 |
| 131-2  | Elastic pin                 |                     | EN 1.4301 (AISI 304)                          | Ø6x26      | ISO 8752 |
| 135-1  | Washer (tie rod)            |                     | EN 1.4301 (AISI 304)                          | Ø16        | ISO 7089 |
| 135-2  | Washer (casing tie rod)     |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316)   | Ø5,1       | UNI 1751 |
| 135-3  | Washer (extension coupling) | above 37 kW         | Galvanized steel                              | Ø10,2      | UNI 1751 |
| 135-4  | Washer (ball bearing)       | above 37 kW         | Plated carbon steel                           | Ø6,1       | UNI 1751 |
| 135-5  | Washer (impeller nut)       |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 137-1  | Impeller spacer             |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 137-2  | Shaft spacer                |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 140    | Coupling                    | up to 30 kW         | Cast Iron EN GJL250 EN 1561                   |            |          |
| 140-1  | Extension coupling          | above 37 kW         | Carbon Steel                                  |            |          |
| 140-2  | Coupling                    | above 37 kW         | Carbon Steel                                  |            |          |
| 150    | Spacer (snap ring)          | above 37 kW         | Carbon Steel                                  |            |          |
| 160    | Base                        |                     | Cast Iron EN GJL200 EN 1561                   |            |          |
| 162    | Motor bracket               | up to 30 kW         | Cast Iron EN GJS 400-15 EN 1563               |            |          |
| 212    | Priming plug                |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 212-1  | Drainage plug               |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 212-2  | Venting plug                |                     | EN 1.4401 (AISI 316)                          |            |          |
| 212-3  | Priming plug                |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 245    | Coupling guard              |                     | EN 1.4301 (AISI 304)                          |            |          |
| 273-1  | Washer (drainage plug)      |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 274-2  | C-type snap ring (coupling) | above 37 kW         | Carbon Steel TC80                             | Ø75        | UNI 7435 |
| 615    | Loose flange                |                     | Cast Iron EN GJS 500-7 EN 1563                |            |          |

QUANTITY FOR MODEL  
EVMS(L)45

| Pump Type          | N° |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |      |
|--------------------|----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|------|
|                    | 4  | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 39-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 45 | 46 | 47 | 48 | 51 | 52-1 |
| EVMS(L)45 1-1/5.5  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | /    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 1-0/7.5  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | /    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 2-2/11   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | /    | 2  | 1    | 1    | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 2-1/11   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 1    | 1  | 1    | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 2-0/15   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | /    | 1  | 1    | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 3-2/15   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 3-1/18.5 | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 1    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 3-0/18.5 | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | /    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 4-2/22   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 2    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 4-1/30   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 1    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 4-0/30   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | /    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 5-2/30   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 2    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 5-1/30   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | 1    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 5-0/37   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | /    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 6-2/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | 2    | 1  | 1    | /    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 6-1/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | 1    | 1  | 1    | /    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 6-0/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | /    | 1  | 1    | /    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 7-2/45   | 1  | 5   | 2   | 1   | 1   | 1 | 1 | 1  | 5  | 2    | 1  | 1    | /    | 1    | 6    | 2    | 2    | 1    | 1    | 2    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 7-1/45   | 1  | 5   | 2   | 1   | 1   | 1 | 1 | 1  | 6  | 1    | 1  | 1    | /    | 1    | 6    | 2    | 2    | 1    | 1    | 2    | 1    | 4  | 1  | 1  | 1  | /  | 1    |
| EVMS(L)45 7-0/45   | 1  | 5   | 2   | 1   | 1   | 1 | 1 | 1  | 7  | /    | 1  | 1    | /    | 1    | 6    | 2    | 2    | 1    | 1    | 2    | 1    | 4  | 1  | 1  | 1  | /  | 1    |

shaft in EN 1.4462 (AISI 329A)

| Pump Type          | N° |    |      |      |    |      |    |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |
|--------------------|----|----|------|------|----|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
|                    | 53 | 56 | 70-1 | 70-2 | 75 | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-5 | 120-6 | 120-7 | 120-8 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 |
| EVMS(L)45 1-1/5.5  | 1  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 1-0/7.5  | 1  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 2-2/11   | 1  | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 2-1/11   | 1  | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 2-0/15   | 1  | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 3-2/15   | 2  | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 3-1/18.5 | 2  | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 3-0/18.5 | 2  | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 4-2/22   | 4  | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 4-1/30   | 4  | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 4-0/30   | 4  | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 5-2/30   | 5  | /  | /    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 5-1/30   | 5  | /  | /    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 5-0/37   | 5  | 1  | 1    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 6-2/37   | 6  | 1  | 1    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 6-1/37   | 6  | 1  | 1    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 6-0/37   | 6  | 1  | 1    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 7-2/45   | 6  | 1  | 1    | 1    | 2  | 4    | 5  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |
| EVMS(L)45 7-1/45   | 6  | 1  | 1    | 1    | 2  | 4    | 5  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |
| EVMS(L)45 7-0/45   | 6  | 1  | 1    | 1    | 2  | 4    | 5  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |



### QUANTITY FOR MODEL EVMS(L)45

| Pump Type          | N°    |       |       |       |       |       |       |       |       |       |       |       |     |       |       |     |     |     |     |       |       |       |     |       |       |     |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-----|-------|-------|-------|-----|-------|-------|-----|
|                    | 130-1 | 130-2 | 130-4 | 131-1 | 131-2 | 135-1 | 135-2 | 135-3 | 135-4 | 135-5 | 137-1 | 137-2 | 140 | 140-1 | 140-2 | 150 | 160 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 | 274-2 | 615 |
| EVMS(L)45 1-1/5.5  | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 1-0/7.5  | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 2-2/11   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 2-1/11   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 2-0/15   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 3-2/15   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 3-1/18.5 | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 3-0/18.5 | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 4-2/22   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 4-1/30   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 4-0/30   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 5-2/30   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 5-1/30   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 5-0/37   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)45 6-2/37   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)45 6-1/37   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)45 6-0/37   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)45 7-2/45   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)45 7-1/45   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)45 7-0/45   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |

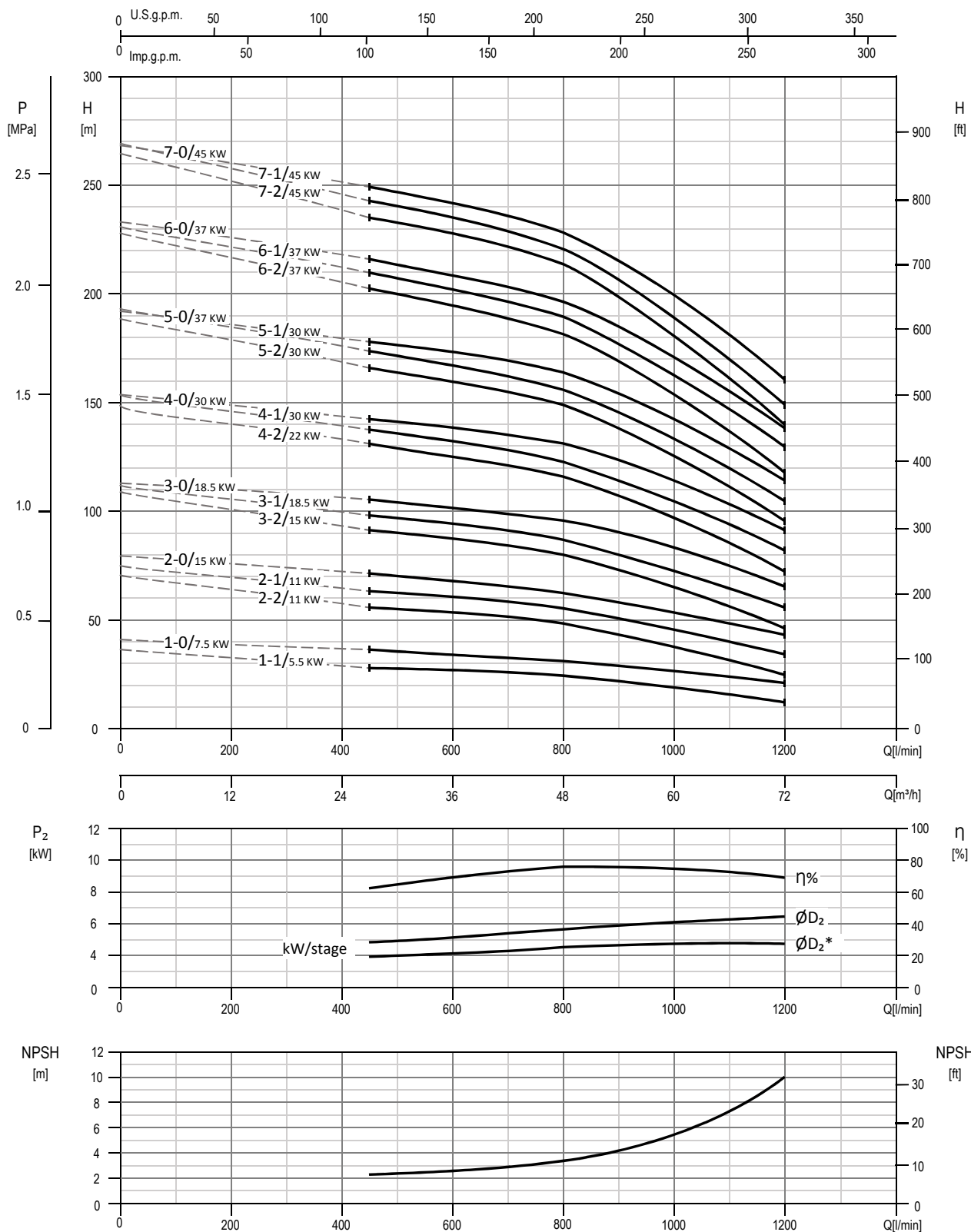
EVMS(L)45

### BEARINGS EVMS(L)45

| Pump Type          | N° 56      |
|--------------------|------------|
| EVMS(L)45 1-1/5.5  | /          |
| EVMS(L)45 1-0/7.5  | /          |
| EVMS(L)45 2-2/11   | /          |
| EVMS(L)45 2-1/11   | /          |
| EVMS(L)45 2-0/15   | /          |
| EVMS(L)45 3-2/15   | /          |
| EVMS(L)45 3-1/18.5 | /          |
| EVMS(L)45 3-0/18.5 | /          |
| EVMS(L)45 4-2/22   | /          |
| EVMS(L)45 4-1/30   | /          |
| EVMS(L)45 4-0/30   | /          |
| EVMS(L)45 5-2/30   | /          |
| EVMS(L)45 5-1/30   | /          |
| EVMS(L)45 5-0/37   | 6315 ZZ C3 |
| EVMS(L)45 6-2/37   | 6315 ZZ C3 |
| EVMS(L)45 6-1/37   | 6315 ZZ C3 |
| EVMS(L)45 6-0/37   | 6315 ZZ C3 |
| EVMS(L)45 7-2/45   | 6315 ZZ C3 |
| EVMS(L)45 7-1/45   | 6315 ZZ C3 |
| EVMS(L)45 7-0/45   | 6315 ZZ C3 |

PERFORMANCE CURVE  
EVMSG45

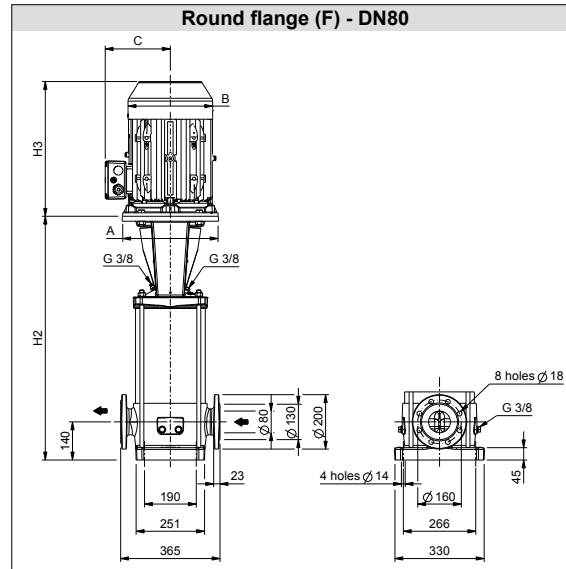
EVMSG45



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMSG45

#### Dimensional sketch



#### Dimensions [mm] and Weights [Kg]

| Pump Type        | P <sub>max</sub><br>[MPa] | Motor |      |        |     |     | Round flange (F) |       |                |                           |
|------------------|---------------------------|-------|------|--------|-----|-----|------------------|-------|----------------|---------------------------|
|                  |                           | kW    | Size | A<br>Ø | B   | C   | H2               | H2+H3 | Weight<br>Pump | Weight<br>Pump +<br>Motor |
| EVMSG45 1-1/5.5  | 1.6                       | 5.5   | 132  | 300    | 220 | 152 | 650              | 1049  | 70.5           | 109.5                     |
| EVMSG45 1-0/7.5  | 1.6                       | 7.5   | 132  | 300    | 220 | 152 | 650              | 1069  | 70.5           | 116.5                     |
| EVMSG45 2-2/11   | 1.6                       | 11    | 160  | 350    | 259 | 180 | 752              | 1191  | 82.6           | 145.1                     |
| EVMSG45 2-1/11   | 1.6                       | 11    | 160  | 350    | 259 | 180 | 752              | 1191  | 82.7           | 145.2                     |
| EVMSG45 2-0/15   | 1.6                       | 15    | 160  | 350    | 311 | 240 | 752              | 1247  | 71.7           | 172.7                     |
| EVMSG45 3-2/15   | 1.6                       | 15    | 160  | 350    | 311 | 240 | 824              | 1319  | 76.7           | 177.7                     |
| EVMSG45 3-1/18.5 | 1.6                       | 18.5  | 160  | 350    | 311 | 240 | 824              | 1319  | 80.9           | 189.9                     |
| EVMSG45 3-0/18.5 | 1.6                       | 18.5  | 160  | 350    | 311 | 240 | 824              | 1319  | 80.9           | 189.9                     |
| EVMSG45 4-2/22   | 1.6                       | 22    | 180  | 350    | 354 | 260 | 896              | 1448  | 83.0           | 218.0                     |
| EVMSG45 4-1/30   | 1.6                       | 30    | 200  | 400    | 354 | 280 | 896              | 1448  | 75.3           | 243.3                     |
| EVMSG45 4-0/30   | 1.6                       | 30    | 200  | 400    | 354 | 280 | 896              | 1448  | 75.3           | 243.3                     |
| EVMSG45 5-2/30   | 2.5                       | 30    | 200  | 400    | 354 | 280 | 968              | 1520  | 80.6           | 248.6                     |
| EVMSG45 5-1/30   | 2.5                       | 30    | 200  | 400    | 354 | 280 | 968              | 1520  | 80.6           | 248.6                     |
| EVMSG45 5-0/37   | 2.5                       | 37    | 200  | 400    | 382 | 295 | 985              | 1662  | 110.6          | 370.6                     |
| EVMSG45 6-2/37   | 2.5                       | 37    | 200  | 400    | 382 | 295 | 1057             | 1734  | 117.4          | 377.4                     |
| EVMSG45 6-1/37   | 2.5                       | 37    | 200  | 400    | 382 | 295 | 1057             | 1734  | 117.4          | 377.4                     |
| EVMSG45 6-0/37   | 2.5                       | 37    | 200  | 400    | 382 | 295 | 1057             | 1734  | 117.4          | 377.4                     |
| EVMSG45 7-2/45   | 3.5                       | 45    | 225  | 450    | 449 | 335 | 1129             | 1895  | 134.2          | 508.2                     |
| EVMSG45 7-1/45   | 3.5                       | 45    | 225  | 450    | 449 | 335 | 1129             | 1895  | 134.2          | 508.2                     |
| EVMSG45 7-0/45   | 3.5                       | 45    | 225  | 450    | 449 | 335 | 1129             | 1895  | 134.2          | 508.2                     |

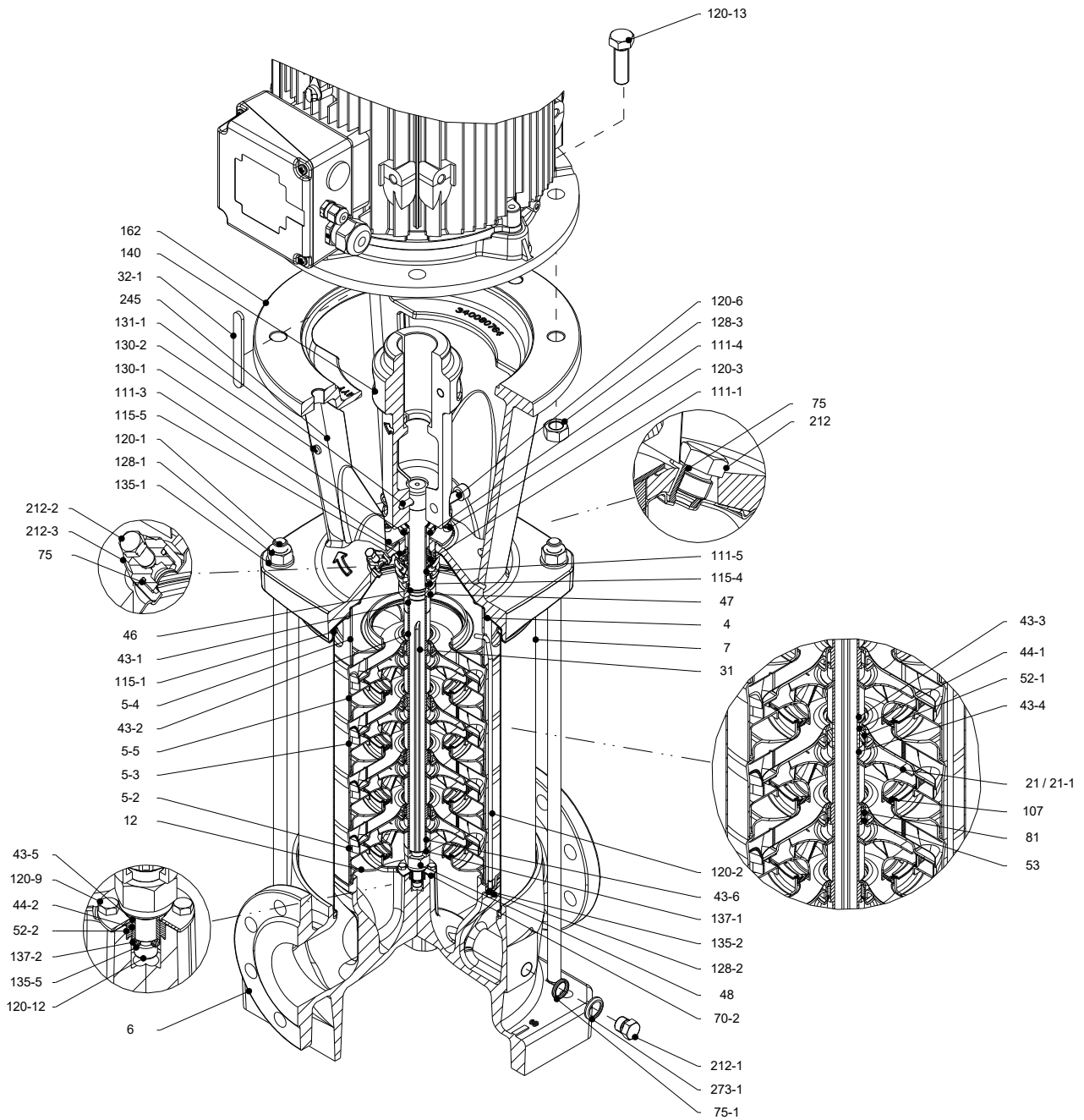
1.6 MPa=16 bar;

2.5 MPa=25 bar;

3.5 MPa=35 bar

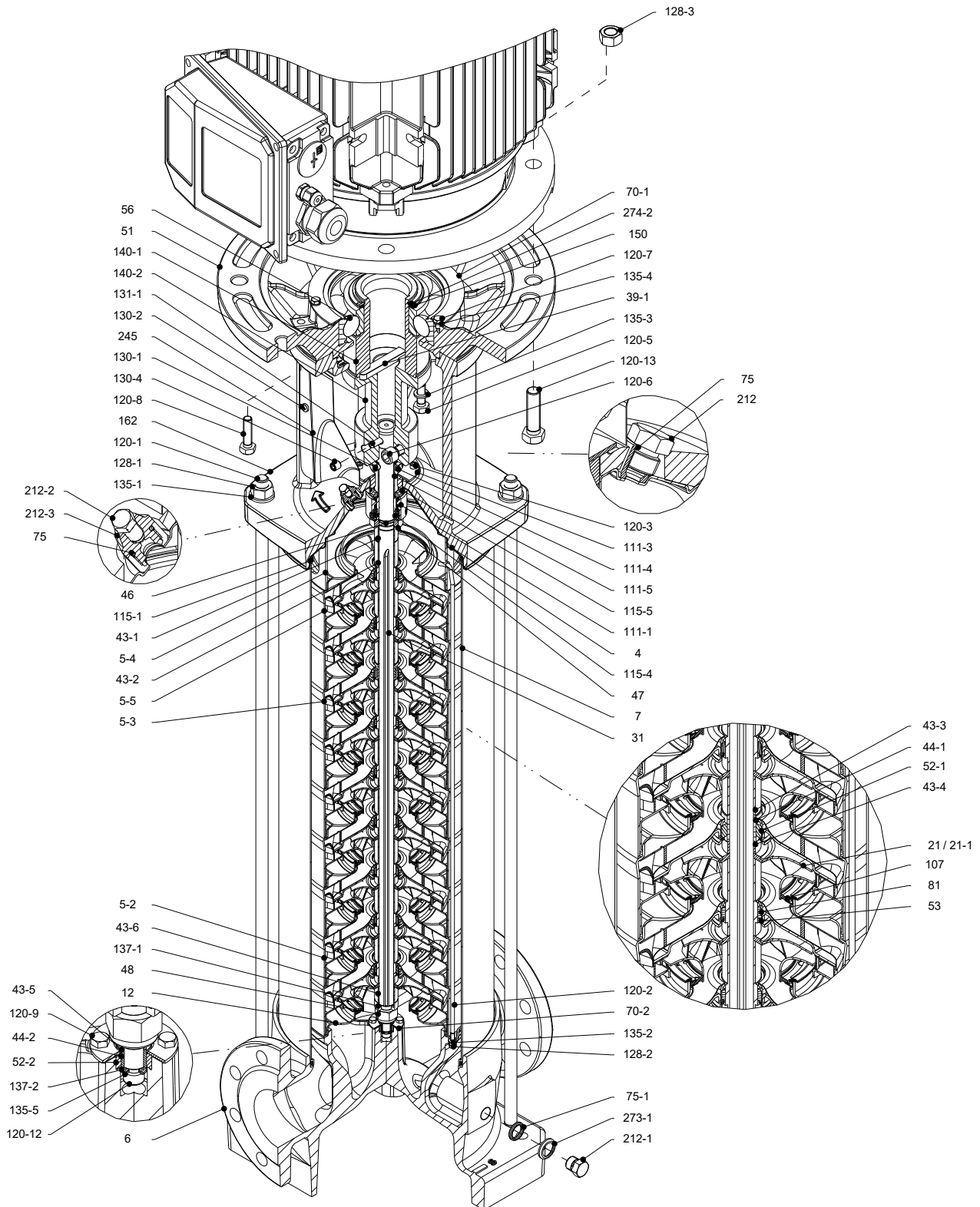
SECTIONAL VIEW  
EVMSG45

EVMSG45



Pump without ball bearing  
up to 30 kW

### SECTIONAL VIEW EVMSG45



Pump with single ball bearing  
above 37 kW

SECTIONAL TABLE  
EVMSG45

| N°    | PART NAME                        | MATERIAL<br>EVMSG   | DIMENSIONS   | STANDARD |
|-------|----------------------------------|---|--------------|----------|
| 4     | Casing cover                     | EN 1.4301 (AISI 304)  |              |          |
| 5-2   | Intermediate casing              | EN 1.4301 (AISI 304)  |              |          |
| 5-3   | Intermediate casing with bearing | EN 1.4301 (AISI 304)  |              |          |
| 5-4   | Discharge casing                 | EN 1.4301 (AISI 304)  |              |          |
| 5-5   | Top intermediate casing          | EN 1.4301 (AISI 304)  |              |          |
| 6     | Bottom casing                    | Cast Iron EN GJL-250 EN 1561<br>Cast Iron EN GJS 400-15 EN 1563 |              |          |
| 7     | Outer casing                     | EN 1.4301 (AISI 304)  |              |          |
| 12    | Suction cover                    | EN 1.4301 (AISI 304)  |              |          |
| 21    | Impeller                         | EN 1.4301 (AISI 304)  |              |          |
| 21-1  | Reduced impeller                 | EN 1.4301 (AISI 304)  |              |          |
| 31    | Shaft                            | EN 1.4301 (AISI 304)  |              |          |
| 32-1  | Adjuster key                     | EN 1.4301 (AISI 304)  |              |          |
| 39-1  | Coupling key                     | Carbon Steel  |              |          |
|       | above 37 kW                      |   |              |          |
| 43-1  | Shaft sleeve (mechanical seal)   | EN 1.4301 (AISI 304)  |              |          |
| 43-2  | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)  |              |          |
| 43-3  | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)  |              |          |
| 43-4  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)  |              |          |
| 43-5  | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)  |              |          |
| 43-6  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)  |              |          |
| 44-1  | Shaft sleeve bearing             | Tungsten carbide  |              |          |
| 44-2  | Shaft sleeve (bearing)           | Tungsten carbide  |              |          |
| 46    | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)   |              |          |
| 47    | Ring holder                      | EN 1.4301 (AISI 304)  |              |          |
| 48    | Impeller nut                     | EN 1.4301 (AISI 304) with inox insert                           |              |          |
| 51    | Motor adapter                    | Cast Iron EN GJL250 EN 1561                                     |              |          |
|       | above 37 kW                      |   |              |          |
| 52-1  | Sleeve bearing                   | Tungsten carbide  |              |          |
| 52-2  | Bearing sleeve (bottom casing)   | Tungsten carbide  |              |          |
| 53    | Bush holder                      | EN 1.4301 (AISI 304)  |              |          |
| 56    | Ball bearing                     | see table page 119  |              |          |
|       | above 37 kW                      |   |              |          |
| 70-1  | Ring for ball bearing            | EN 1.4301 (AISI 304)  |              |          |
|       | above 37 kW                      |   |              |          |
| 70-2  | Ring for bearing sleeve          | EN 1.4301 (AISI 304)  |              |          |
| 75    | O-Ring (priming plug)            | EPDM / FPM  | Ø12.37x2.62  | OR 3050  |
| 75-1  | O-Ring (drainage plug)           | EPDM / FPM  |              |          |
| 81    | Bush                             | PTFE  |              |          |
| 107   | Liner ring                       | EN 1.4301 (AISI 304) + PPS                                      |              |          |
| 111-1 | Mechanical seal                  | See pages 6-7   |              |          |
| 111-3 | Mechanical seal flange           | EN 1.4301 (AISI 304)  |              |          |
| 111-4 | Seal holder                      | EN 1.4404 (AISI 316L)   |              |          |
| 111-5 | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)  |              |          |
| 115-1 | O-Ring (outer casing)            | EPDM / FPM  | Ø240.66x5.34 | OR 6945  |
| 115-4 | O-Ring (cartridge sleeve)        | EPDM / FPM  | Ø23.39x3.53  | OR 4093  |
| 115-5 | O-Ring (seal flange)             | EPDM / FPM  | Ø44.04x3.53  | OR 4175  |
| 120-1 | Tie rod                          | EN 1.4057 (AISI 431)  |              |          |
| 120-2 | Tie rod (stage)                  | EN 1.4301 (AISI 304)  |              |          |
| 120-3 | Screw (seal flange)              | A2-70   | M5x12        | ISO 4762 |
| 120-5 | Screw (extension coupling)       | Galvanized steel 8.8 strength class ISO 898/1                   | M10x30       | ISO 4017 |
|       | above 37 kW                      |   |              |          |

### SECTIONAL TABLE EVMSG45

| N°     | PART NAME                   | MATERIAL<br>EVMSG   | DIMENSIONS                                    | STANDARD |          |
|--------|-----------------------------|---------------------|---|----------|----------|
| 120-6  | Screw (pump coupling)       | up to 7.5 kW        | Galvanized steel 8.8 strength class ISO 898/1 | M8x25    | ISO 4762 |
|        |                             | from 11 kW to 30 kW | Galvanized steel 8.8 strength class ISO 898/1 | M10x30   | ISO 4762 |
|        |                             | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M12x30   | ISO 4762 |
| 120-7  | Screw (ball bearing)        | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M6x10    | ISO 4017 |
| 120-8  | Screw (motor adapter)       | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M10x40   | ISO 4017 |
| 120-9  | Screw (bottom casing)       |                     | A2-70   | M5x8     | ISO 4017 |
| 120-12 | Screw (shaft)               |                     | A2-70   | M6x16    | ISO 4762 |
| 120-13 | Screw for motor             | MEC 132             | Galvanized steel 8.8 strength class ISO 898/1 | M12x45   | ISO 4017 |
|        |                             | MEC 160-180         | Galvanized steel 8.8 strength class ISO 898/1 | M16x50   | ISO 4017 |
|        |                             | MEC 200-225         | Galvanized steel 8.8 strength class ISO 898/1 | M16x60   | ISO 4014 |
| 128-1  | Nut (tie rod)               |                     | A2-70 UNI 7323 with                           | M16      | ISO 4032 |
| 128-2  | Nut (casing tie rod)        |                     | A2-70   | M5       | ISO 4032 |
| 128-3  | Nut (motor)                 | MEC 132             | Galvanized steel                              | M12      | ISO 4032 |
|        |                             | MEC 160-180-200-225 | Galvanized steel                              | M16      | ISO 4032 |
| 130-1  | Set screw                   |                     | EN 1.4301 (AISI 304)                          | M6x8     | ISO 4026 |
| 130-2  | Screw for coupling guard    |                     | A2-70   | M5x6     | UNI 7687 |
| 130-4  | Set screw (pump coupling)   | above 37 kW         | Galvanized steel                              | M10x10   | ISO 4026 |
| 131-1  | Pin for shaft               |                     | Carbon Steel                                  | Ø8X50    | ISO 2338 |
| 135-1  | Washer (tie rod)            |                     | EN 1.4301 (AISI 304)                          | Ø16      | ISO 7089 |
| 135-2  | Washer (casing tie rod)     |                     | EN 1.4301 (AISI 304)                          | Ø5.1     | UNI 1751 |
| 135-3  | Washer (extension coupling) | above 37 kW         | Galvanized steel                              | Ø10.2    | UNI 1751 |
| 135-4  | Washer (ball bearing)       | above 37 kW         | Plated carbon steel                           | Ø6.1     | UNI 1751 |
| 135-5  | Washer (impeller nut)       |                     | EN 1.4301 (AISI 304)                          |          |          |
| 137-1  | Impeller spacer             |                     | EN 1.4301 (AISI 304)                          |          |          |
| 137-2  | Shaft spacer                |                     | EN 1.4301 (AISI 304)                          |          |          |
| 140    | Coupling                    | up to 30 kW         | Cast Iron EN GJL250 EN 1561                   |          |          |
| 140-1  | Extension coupling          | above 37 kW         | Carbon Steel                                  |          |          |
| 140-2  | Coupling                    | above 37 kW         | Carbon Steel                                  |          |          |
| 150    | Spacer (snap ring)          | above 37 kW         | Carbon Steel                                  |          |          |
| 162    | Motor bracket               | up to 30 kW         | Cast Iron EN GJS 400-15 EN 1563               |          |          |
| 212    | Priming plug                |                     | EN 1.4301 (AISI 304)                          |          |          |
| 212-1  | Drainage plug               |                     | EN 1.4301 (AISI 304)                          |          |          |
| 212-2  | Venting plug                |                     | EN 1.4401 (AISI 316)                          |          |          |
| 212-3  | Priming plug                |                     | EN 1.4301 (AISI 304)                          |          |          |
| 245    | Coupling guard              |                     | EN 1.4301 (AISI 304)                          |          |          |
| 273-1  | Washer (drainage plug)      |                     | EN 1.4301 (AISI 304)                          |          |          |
| 274-2  | C-type snap ring (coupling) | above 37 kW         | Carbon Steel TC80                             | Ø75      | UNI 7435 |

QUANTITY FOR MODEL  
EVMSG45

| Pump Type        | N° |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |      |    |    |    |    |      |      |    |
|------------------|----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|------|----|----|----|----|------|------|----|
|                  | 4  | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 39-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 46 | 47 | 48 | 51 | 52-1 | 52-2 | 53 |
| EVMSG45 1-1/5.5  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | /  | 1    | 1  | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 1    | 1  | 1  | /  | /  | 1    | 1    |    |
| EVMSG45 1-0/7.5  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | 1    | 1  | /    | 1    | 1    | /    | 1    | 1    | /    | 1    | 1    | /    | 1  | 1  | 1  | /  | /    | 1    | 1  |
| EVMSG45 2-2/11   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | /  | 2    | 1  | 1    | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    |    |
| EVMSG45 2-1/11   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 1    | 1  | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    |    |
| EVMSG45 2-0/15   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | /    | 1  | 1    | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    |    |
| EVMSG45 3-2/15   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 2    |    |
| EVMSG45 3-1/18.5 | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 1    | 1  | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 2    |    |
| EVMSG45 3-0/18.5 | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | /    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 2    |    |
| EVMSG45 4-2/22   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 2    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 4    |    |
| EVMSG45 4-1/30   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 1    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 4    |    |
| EVMSG45 4-0/30   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | /    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 4    |    |
| EVMSG45 5-2/30   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 2    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 5    |    |
| EVMSG45 5-1/30   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | 1    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 5    |    |
| EVMSG45 5-0/37   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | /    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 5    |    |
| EVMSG45 6-2/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | 2    | 1  | /    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 6    |    |
| EVMSG45 6-1/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | 1    | 1  | /    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 6    |    |
| EVMSG45 6-0/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | /    | 1  | /    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 6    |    |
| EVMSG45 7-2/45   | 1  | 5   | 2   | 1   | 1   | 1 | 1 | 1  | 5  | 2    | 1  | /    | 1    | 1    | 6    | 2    | 2    | 1    | 1    | 2    | 1    | 1  | 1  | 1  | 1  | 2    | 6    |    |
| EVMSG45 7-1/45   | 1  | 5   | 2   | 1   | 1   | 1 | 1 | 1  | 6  | 1    | 1  | /    | 1    | 1    | 6    | 2    | 2    | 1    | 1    | 2    | 1    | 1  | 1  | 1  | 1  | 2    | 6    |    |
| EVMSG45 7-0/45   | 1  | 5   | 2   | 1   | 1   | 1 | 1 | 1  | 7  | /    | 1  | 1    | /    | 1    | 1    | 6    | 2    | 2    | 1    | 1    | 2    | 1  | 1  | 1  | 1  | 2    | 6    |    |

shaft in EN 1.4462 (AISI 329A)

| Pump Type        | N° |      |      |    |      |    |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |       |
|------------------|----|------|------|----|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|
|                  | 56 | 70-1 | 70-2 | 75 | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-5 | 120-6 | 120-7 | 120-8 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 | 130-1 |
| EVMSG45 1-1/5.5  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 1-0/7.5  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 2-2/11   | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 2-1/11   | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 2-0/15   | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 3-2/15   | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 3-1/18.5 | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 3-0/18.5 | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 4-2/22   | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 4-1/30   | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 4-0/30   | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 5-2/30   | /  | /    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 5-1/30   | /  | /    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 5-0/37   | 1  | 1    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 6-2/37   | 1  | 1    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 6-1/37   | 1  | 1    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 6-0/37   | 1  | 1    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG45 7-2/45   | 1  | 1    | 1    | 2  | 4    | 5  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     | 3     |
| EVMSG45 7-1/45   | 1  | 1    | 1    | 2  | 4    | 5  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     | 3     |
| EVMSG45 7-0/45   | 1  | 1    | 1    | 2  | 4    | 5  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     | 3     |



### QUANTITY FOR MODEL EVMSG45

| Pump Type        | N°    |       |       |       |       |       |       |       |       |       |     |       |       |     |     |     |       |       |       |     |       |       |  |  |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-------|-------|-------|-----|-------|-------|--|--|
|                  | 130-2 | 130-4 | 131-1 | 135-1 | 135-2 | 135-3 | 135-4 | 135-5 | 137-1 | 137-2 | 140 | 140-1 | 140-2 | 150 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 | 274-2 |  |  |
| EVMSG45 1-1/5.5  | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |
| EVMSG45 1-0/7.5  | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |
| EVMSG45 2-2/11   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |
| EVMSG45 2-1/11   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |
| EVMSG45 2-0/15   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |
| EVMSG45 3-2/15   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |
| EVMSG45 3-1/18.5 | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |
| EVMSG45 3-0/18.5 | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |
| EVMSG45 4-2/22   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |
| EVMSG45 4-1/30   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |
| EVMSG45 4-0/30   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |
| EVMSG45 5-2/30   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |
| EVMSG45 5-1/30   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |
| EVMSG45 5-0/37   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |
| EVMSG45 6-2/37   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |
| EVMSG45 6-1/37   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |
| EVMSG45 6-0/37   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |
| EVMSG45 7-2/45   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |
| EVMSG45 7-1/45   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |
| EVMSG45 7-0/45   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |

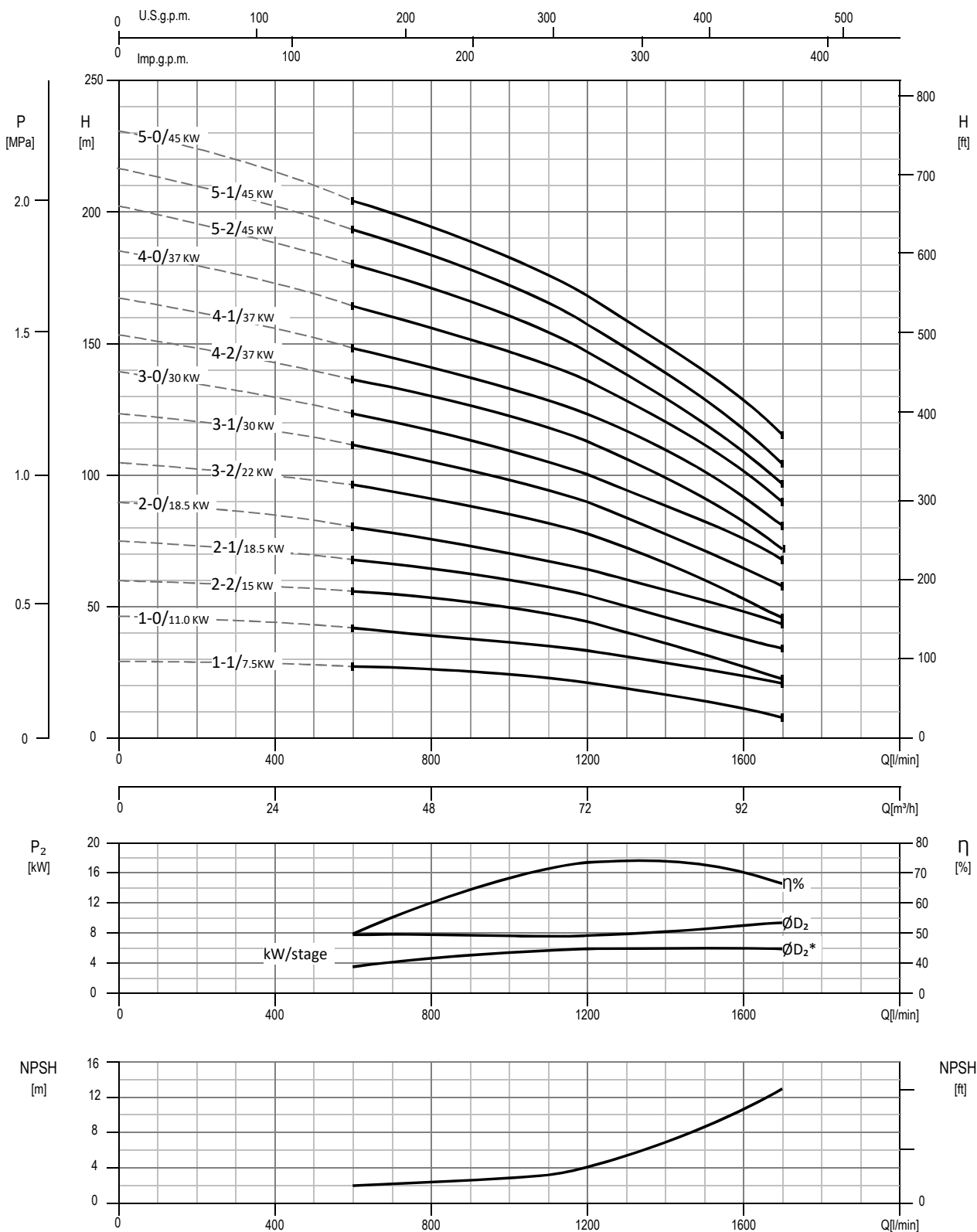
EVMSG45

### BEARINGS EVMSG45

| Pump Type        | N° 56      |
|------------------|------------|
| EVMSG45 1-1/5.5  | /          |
| EVMSG45 1-0/7.5  | /          |
| EVMSG45 2-2/11   | /          |
| EVMSG45 2-1/11   | /          |
| EVMSG45 2-0/15   | /          |
| EVMSG45 3-2/15   | /          |
| EVMSG45 3-1/18.5 | /          |
| EVMSG45 3-0/18.5 | /          |
| EVMSG45 4-2/22   | /          |
| EVMSG45 4-1/30   | /          |
| EVMSG45 4-0/30   | /          |
| EVMSG45 5-2/30   | /          |
| EVMSG45 5-1/30   | /          |
| EVMSG45 5-0/37   | 6315 ZZ C3 |
| EVMSG45 6-2/37   | 6315 ZZ C3 |
| EVMSG45 6-1/37   | 6315 ZZ C3 |
| EVMSG45 6-0/37   | 6315 ZZ C3 |
| EVMSG45 7-2/45   | 6315 ZZ C3 |
| EVMSG45 7-1/45   | 6315 ZZ C3 |
| EVMSG45 7-0/45   | 6315 ZZ C3 |

PERFORMANCE CURVE  
EVMS(L)64

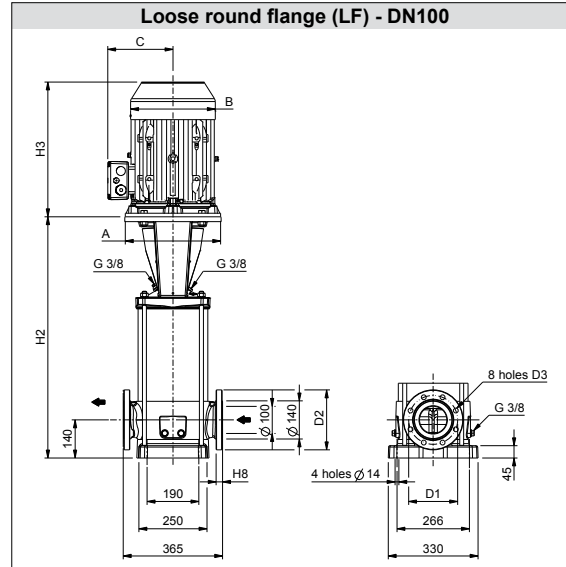
EVMS(L)64



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)64

#### Dimensional sketch



#### Dimensions [mm] and Weights [Kg]

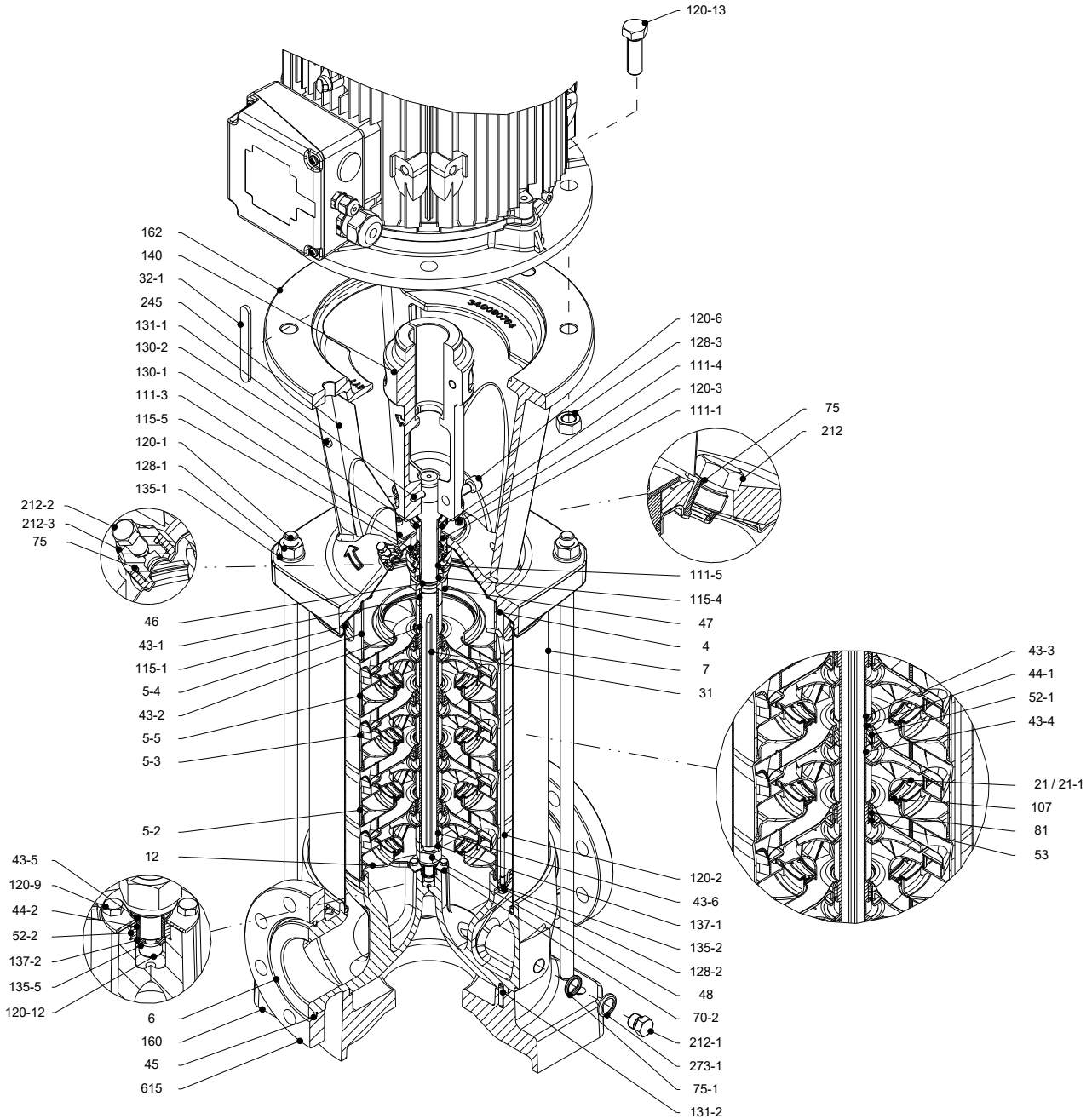
| Pump Type          | P <sub>max</sub><br>[MPa] | Motor |      |     |     |     | Loose round flange (LF) |       |     |     |    |    |       | Weight<br>Pump | Weight<br>Pump +<br>Motor |
|--------------------|---------------------------|-------|------|-----|-----|-----|-------------------------|-------|-----|-----|----|----|-------|----------------|---------------------------|
|                    |                           | kW    | Size | A   | B   | C   | H2                      | H2+H3 | D1  | D2  | D3 | H8 |       |                |                           |
| EVMS(L)64 1-1/7.5  | 1.6                       | 7.5   | 132  | 300 | 220 | 152 | 650                     | 1069  | 180 | 220 | 18 | 24 | 77.4  | 123.4          |                           |
| EVMS(L)64 1-0/11   | 1.6                       | 11    | 160  | 350 | 259 | 180 | 680                     | 1119  | 180 | 220 | 18 | 24 | 84.5  | 147.0          |                           |
| EVMS(L)64 2-2/15   | 1.6                       | 15    | 160  | 350 | 311 | 240 | 752                     | 1247  | 180 | 220 | 18 | 24 | 78.6  | 179.6          |                           |
| EVMS(L)64 2-1/18.5 | 1.6                       | 18.5  | 160  | 350 | 311 | 240 | 752                     | 1247  | 180 | 220 | 18 | 24 | 82.7  | 191.7          |                           |
| EVMS(L)64 2-0/18.5 | 1.6                       | 18.5  | 160  | 350 | 311 | 240 | 752                     | 1247  | 180 | 220 | 18 | 24 | 82.7  | 191.7          |                           |
| EVMS(L)64 3-2/22   | 1.6                       | 22    | 180  | 350 | 354 | 260 | 824                     | 1376  | 180 | 220 | 18 | 24 | 84.8  | 219.8          |                           |
| EVMS(L)64 3-1/30   | 1.6                       | 30    | 200  | 400 | 354 | 280 | 824                     | 1376  | 180 | 220 | 18 | 24 | 77.2  | 245.2          |                           |
| EVMS(L)64 3-0/30   | 1.6                       | 30    | 200  | 400 | 354 | 280 | 824                     | 1376  | 180 | 220 | 18 | 24 | 77.2  | 245.2          |                           |
| EVMS(L)64 4-2/37   | 2.5                       | 37    | 200  | 400 | 382 | 295 | 913                     | 1590  | 190 | 235 | 22 | 30 | 122.2 | 382.2          |                           |
| EVMS(L)64 4-1/37   | 2.5                       | 37    | 200  | 400 | 382 | 295 | 913                     | 1590  | 190 | 235 | 22 | 30 | 122.2 | 382.2          |                           |
| EVMS(L)64 4-0/37   | 2.5                       | 37    | 200  | 400 | 382 | 295 | 913                     | 1590  | 190 | 235 | 22 | 30 | 122.2 | 382.2          |                           |
| EVMS(L)64 5-2/45   | 2.5                       | 45    | 225  | 450 | 449 | 335 | 985                     | 1751  | 190 | 235 | 22 | 30 | 138.8 | 512.8          |                           |
| EVMS(L)64 5-1/45   | 2.5                       | 45    | 225  | 450 | 449 | 335 | 985                     | 1751  | 190 | 235 | 22 | 30 | 138.8 | 512.8          |                           |
| EVMS(L)64 5-0/45   | 2.5                       | 45    | 225  | 450 | 449 | 335 | 985                     | 1751  | 190 | 235 | 22 | 30 | 138.8 | 512.8          |                           |

1.6 MPa=16 bar;

2.5 MPa=25 bar

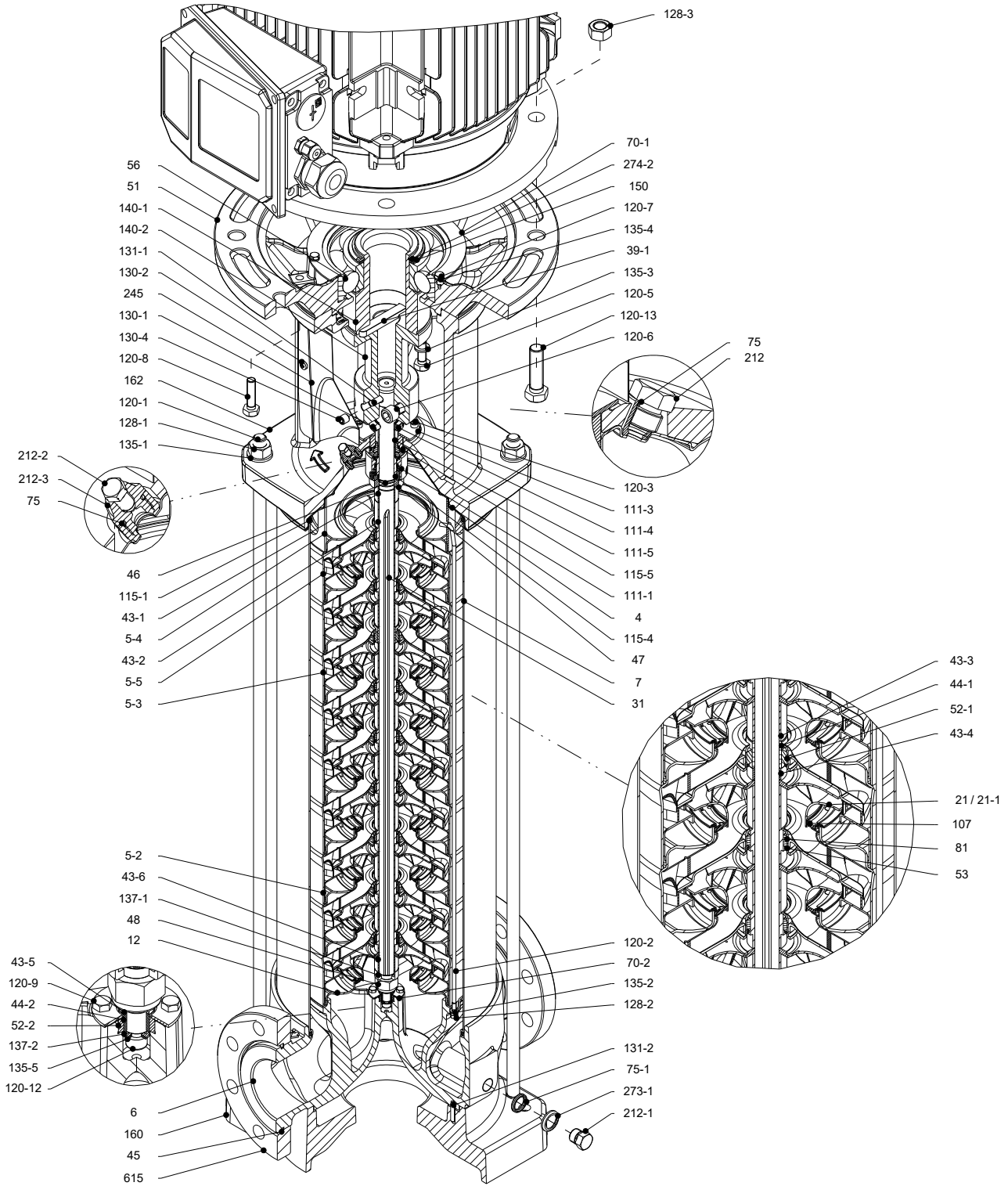
SECTIONAL VIEW  
EVMS(L)64

EVMS(L)64



Pump without ball bearing  
up to 30 kW

### SECTIONAL VIEW EVMS(L)64



Pump with single ball bearing  
above 37 kW

SECTIONAL TABLE  
EVMS(L)64

| N°    | PART NAME                        | MATERIAL   |  | DIMENSIONS   | STANDARD |
|-------|----------------------------------|--|--|--------------|----------|
|       |                                  | EVMS   | EVMSL  |              |          |
| 4     | Casing cover                     | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 5-2   | Intermediate casing              | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 5-3   | Intermediate casing with bearing | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 5-4   | Discharge casing                 | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 5-5   | Top intermediate casing          | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 6     | Bottom casing                    | EN 1.4308 (ASTM CF8)   | EN 1.4408 (ASTM CF8M)                            |              |          |
| 7     | Outer casing                     | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 12    | Suction cover                    | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 21    | Impeller                         | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 21-1  | Reduced impeller                 | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 31    | Shaft                            | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L) -<br>EN 1.4462 (AISI 329A) |              |          |
| 32-1  | Adjuster key                     | EN 1.4301 (AISI 304)   |  |              |          |
| 39-1  | Coupling key                     | Carbon Steel   |  |              |          |
| 43-1  | Shaft sleeve (mechanical seal)   | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 43-2  | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 43-3  | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 43-4  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 43-5  | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 43-6  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 44-1  | Shaft sleeve bearing             | Tungsten carbide   |  |              |          |
| 44-2  | Shaft sleeve (bearing)           | Tungsten carbide   |  |              |          |
| 45    | Flange holder                    | EN 1.4301 (AISI 304)   |  |              |          |
| 46    | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)  |  |              |          |
| 47    | Ring holder                      | EN 1.4404 (AISI 316L)  |  |              |          |
| 48    | Impeller nut                     | EN 1.4301 (AISI 304)<br>with inox insert                     | EN 1.4401 (AISI 316)<br>with inox insert         |              |          |
| 51    | Motor adapter                    | Cast Iron EN GJL250 EN 1561                                  |  |              |          |
| 52-1  | Sleeve bearing                   | Tungsten carbide   |  |              |          |
| 52-2  | Bearing sleeve (bottom casing)   | Tungsten carbide   |  |              |          |
| 53    | Bush holder                      | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 56    | Ball bearing                     | above 37 kW<br>see table page 127                            |  |              |          |
| 70-1  | Ring for ball bearing            | above 37 kW<br>EN 1.4301 (AISI 304)                          |  |              |          |
| 70-2  | Ring for bearing sleeve          | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 75    | O-Ring (priming plug)            | EPDM / FPM   |  | Ø12.37x2.62  | OR 3050  |
| 75-1  | O-Ring (drainage plug)           | EPDM / FPM   |  |              |          |
| 81    | Bush                             | PTFE   |  |              |          |
| 107   | Liner ring                       | EN 1.4301 (AISI 304) + PPS                                   | EN 1.4404 (AISI 316L) + PPS                      |              |          |
| 111-1 | Mechanical seal                  | See pages 6-7  |  |              |          |
| 111-3 | Mechanical seal seat             | EN 1.4301 (AISI 304)   | EN 1.4401 (AISI 316)                             |              |          |
| 111-4 | Seal holder                      | EN 1.4404 (AISI 316L)  |  |              |          |
| 111-5 | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)   | EN 1.4404 (AISI 316L)                            |              |          |
| 115-1 | O-Ring (outer casing)            | EPDM / FPM   |  | Ø240.66x5.34 | OR 6945  |
| 115-4 | O-Ring (cartridge sleeve)        | EPDM / FPM   |  | Ø23.39x3.53  | OR 4093  |
| 115-5 | O-Ring (seal flange)             | EPDM / FPM   |  | Ø44.04x3.53  | OR 4175  |
| 120-1 | Tie rod                          | EN 1.4057 (AISI 431)   |  |              |          |
| 120-2 | Tie rod (stage)                  | EN 1.4301 (AISI 304)   | EN 1.4401 (AISI 316)                             |              |          |
| 120-3 | Screw (seal flange)              | A2-70  |  | M5x12        | ISO 4762 |
| 120-5 | Screw (extension coupling)       | above 37 kW<br>Galvanized steel 8.8 strength class ISO 898/1 |  | M10x30       | ISO 4017 |

### SECTIONAL TABLE EVMS(L)64

| N°     | PART NAME                   | MATERIAL            |   | DIMENSIONS | STANDARD |
|--------|-----------------------------|---------------------|---|------------|----------|
|        |                             | EVMS                | EVMSL   |            |          |
| 120-6  | Screw (pump coupling)       | up to 7.5 kW        | Galvanized steel 8.8 strength class ISO 898/1 | M8x25      | ISO 4762 |
|        |                             | from 11 kW to 30 kW | Galvanized steel 8.8 strength class ISO 898/1 | M10x30     | ISO 4762 |
|        |                             | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M12x30     | ISO 4762 |
| 120-7  | Screw (ball bearing)        | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M6x10      | ISO 4017 |
| 120-8  | Screw (motor adapter)       | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M10x40     | ISO 4017 |
| 120-9  | Screw (bottom casing)       |                     | A2-70   | M5x8       | ISO 4017 |
| 120-12 | Screw (shaft)               |                     | A2-70   | M6x16      | ISO 4762 |
| 120-13 | Screw for motor             | MEC 132             | Galvanized steel 8.8 strength class ISO 898/1 | M12x45     | ISO 4017 |
|        |                             | MEC 160-180         | Galvanized steel 8.8 strength class ISO 898/1 | M16x50     | ISO 4017 |
|        |                             | MEC 200-225         | Galvanized steel 8.8 strength class ISO 898/1 | M16x60     | ISO 4014 |
| 128-1  | Nut (tie rod)               |                     | A2-70   | M16        | ISO 4032 |
| 128-2  | Nut (casing tie rod)        |                     | A2-70 UNI 7323                                | M5         | ISO 4032 |
| 128-3  | Nut (motor)                 | MEC 132             | Galvanized steel                              | M12        | ISO 4032 |
|        |                             | MEC 160-180-200-225 | Galvanized steel                              | M16        | ISO 4032 |
| 130-1  | Set screw                   |                     | EN 1.4301 (AISI 304)                          | M6x8       | ISO 4026 |
| 130-2  | Screw for coupling guard    |                     | A2-70   | M5x6       | UNI 7687 |
| 130-4  | Set screw (pump coupling)   | above 37 kW         | Galvanized steel                              | M10x10     | ISO 4026 |
| 131-1  | Pin for shaft               |                     | Carbon Steel                                  | Ø8x50      | ISO 2338 |
| 131-2  | Elastic pin                 |                     | EN 1.4301 (AISI 304)                          | Ø6x26      | ISO 8752 |
| 135-1  | Washer (tie rod)            |                     | EN 1.4301 (AISI 304)                          | Ø16        | ISO 7089 |
| 135-2  | Washer (casing tie rod)     |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316)   | Ø5.1       | UNI 1751 |
| 135-3  | Washer (extension coupling) | above 37 kW         | Galvanized steel                              | Ø10.2      | UNI 1751 |
| 135-4  | Washer (ball bearing)       | above 37 kW         | Plated carbon steel                           | Ø6.1       | UNI 1751 |
| 135-5  | Washer (impeller nut)       |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 137-1  | Impeller spacer             |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 137-2  | Shaft spacer                |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 140    | Coupling                    | up to 30 kW         | Cast Iron EN GJL250 EN 1561                   |            |          |
| 140-1  | Extension coupling          | above 37 kW         | Carbon Steel                                  |            |          |
| 140-2  | Coupling                    | above 37 kW         | Carbon Steel                                  |            |          |
| 150    | Spacer (snap ring)          | above 37 kW         | Carbon Steel                                  |            |          |
| 160    | Base                        |                     | Cast Iron EN GJL200 EN 1561                   |            |          |
| 162    | Motor bracket               | up to 30 kW         | Cast Iron EN GJS 400-15 EN 1563               |            |          |
| 212    | Priming plug                |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 212-1  | Drainage plug               |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 212-2  | Venting plug                |                     | EN 1.4401 (AISI 316)                          |            |          |
| 212-3  | Priming plug                |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 245    | Coupling guard              |                     | EN 1.4301 (AISI 304)                          |            |          |
| 273-1  | Washer (drainage plug)      |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 274-2  | C-type snap ring (coupling) | above 37 kW         | Carbon Steel TC80                             | Ø75        | UNI 7435 |
| 615    | Loose flange                |                     | Cast Iron EN GJS 500-7 EN 1563                |            |          |

QUANTITY FOR MODEL  
EVMS(L)64

| Pump Type          | N° |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |      |      |
|--------------------|----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|------|------|
|                    | 4  | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 39-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 45 | 46 | 47 | 48 | 51 | 52-1 | 52-2 |
| EVMS(L)64 1-1/7,5  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | /  | 1    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | /    | 1    |
| EVMS(L)64 1-0/11   | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | /    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | /    | 1    |
| EVMS(L)64 2-2/15   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | /  | 2    | 1  | 1    | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 2-1/18,5 | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 1    | 1  | 1    | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 2-0/18,5 | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | /    | 1  | 1    | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 3-2/22   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 3-1/30   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 1    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 3-0/30   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | /    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 4-2/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 2    | 1  | 1    | /    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)64 4-1/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 1    | 1  | 1    | /    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)64 4-0/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | /    | 1  | /    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)64 5-2/45   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 2    | 1  | /    | 1    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)64 5-1/45   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | 1    | 1  | /    | 1    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)64 5-0/45   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | 0    | 1  | /    | 1    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |

□ shaft in EN 1.4462 (AISI 329A)

| Pump Type          | N° |    |      |      |    |      |    |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |
|--------------------|----|----|------|------|----|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
|                    | 53 | 56 | 70-1 | 70-2 | 75 | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-5 | 120-6 | 120-7 | 120-8 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 |
| EVMS(L)64 1-1/7,5  | 1  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 1-0/11   | 1  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 2-2/15   | 1  | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 2-1/18,5 | 1  | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 2-0/18,5 | 1  | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 3-2/22   | 2  | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 3-1/30   | 3  | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 3-0/30   | 3  | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 4-2/37   | 6  | 1  | 1    | 1    | 2  | 4    | 5  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 4-1/37   | 6  | 1  | 1    | 1    | 2  | 4    | 5  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 4-0/37   | 6  | 1  | 1    | 1    | 2  | 4    | 5  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 5-2/45   | 7  | 1  | 1    | 1    | 2  | 4    | 6  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |
| EVMS(L)64 5-1/45   | 7  | 1  | 1    | 1    | 2  | 4    | 6  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |
| EVMS(L)64 5-0/45   | 7  | 1  | 1    | 1    | 2  | 4    | 6  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |

| Pump Type          | N°    |       |       |       |       |       |       |       |       |       |       |       |     |       |       |     |     |     |     |       |       |       |     |       |       |     |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-----|-------|-------|-------|-----|-------|-------|-----|
|                    | 130-1 | 130-2 | 130-4 | 131-1 | 131-2 | 135-1 | 135-2 | 135-3 | 135-4 | 135-5 | 137-1 | 137-2 | 140 | 140-1 | 140-2 | 150 | 160 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 | 274-2 | 615 |
| EVMS(L)64 1-1/7,5  | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 1-0/11   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 2-2/15   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 2-1/18,5 | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 2-0/18,5 | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 3-2/22   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 3-1/30   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 3-0/30   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 4-2/37   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     | 2     |     |
| EVMS(L)64 4-1/37   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     | 2     |     |
| EVMS(L)64 4-0/37   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     | 2     |     |
| EVMS(L)64 5-2/45   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     | 2     |     |
| EVMS(L)64 5-1/45   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     | 2     |     |
| EVMS(L)64 5-0/45   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     | 2     |     |

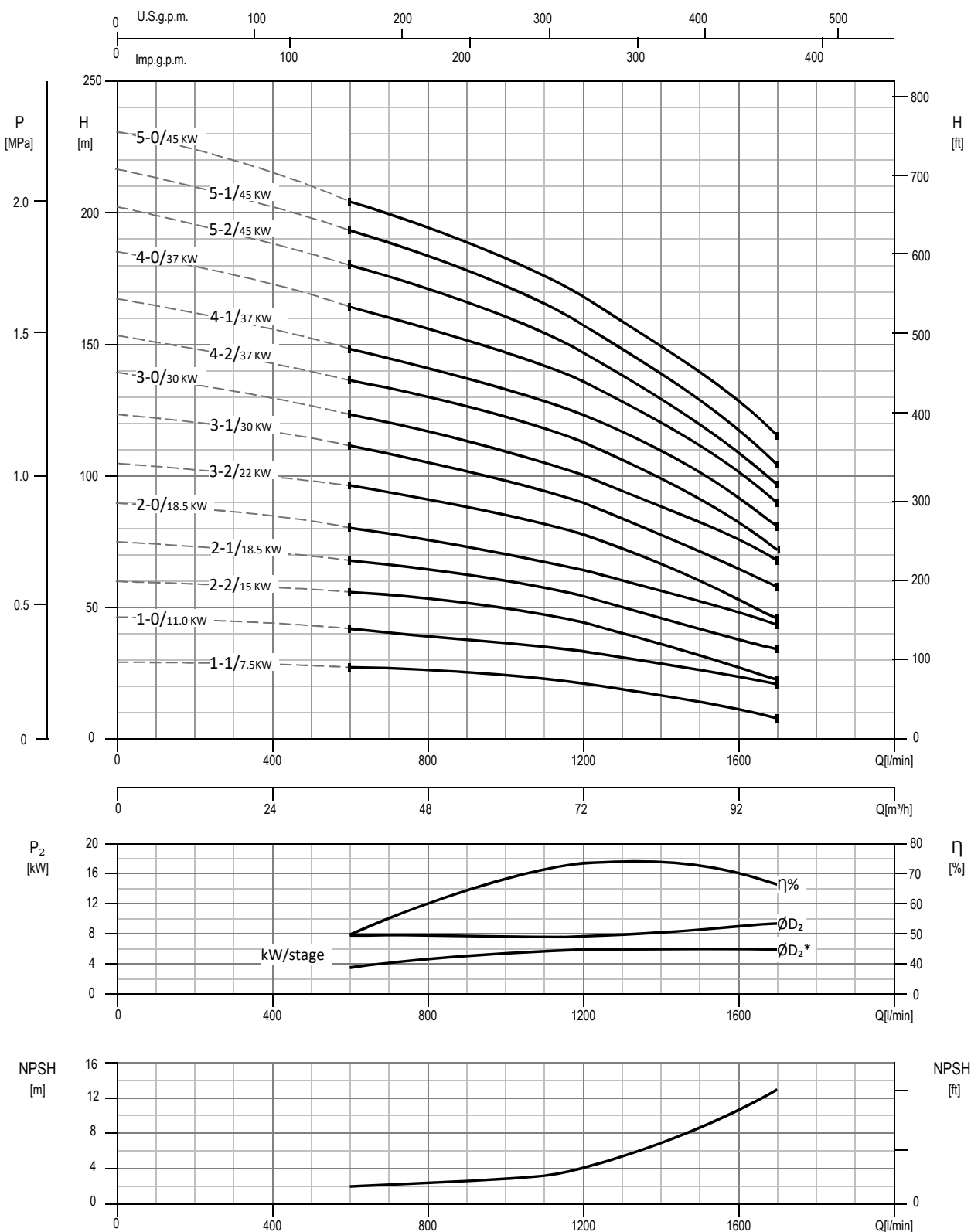


### BEARINGS EVMS(L)64

| Pump Type          | N° 56      |
|--------------------|------------|
| EVMS(L)64 1-1/7,5  | /          |
| EVMS(L)64 1-0/11   | /          |
| EVMS(L)64 2-2/15   | /          |
| EVMS(L)64 2-1/18,5 | /          |
| EVMS(L)64 2-0/18,5 | /          |
| EVMS(L)64 3-2/22   | /          |
| EVMS(L)64 3-1/30   | /          |
| EVMS(L)64 3-0/30   | /          |
| EVMS(L)64 4-2/37   | 6315 ZZ C3 |
| EVMS(L)64 4-1/37   | 6315 ZZ C3 |
| EVMS(L)64 4-0/37   | 6315 ZZ C3 |
| EVMS(L)64 5-2/45   | 6315 ZZ C3 |
| EVMS(L)64 5-1/45   | 6315 ZZ C3 |
| EVMS(L)64 5-0/45   | 6315 ZZ C3 |

PERFORMANCE CURVE  
EVMSG64

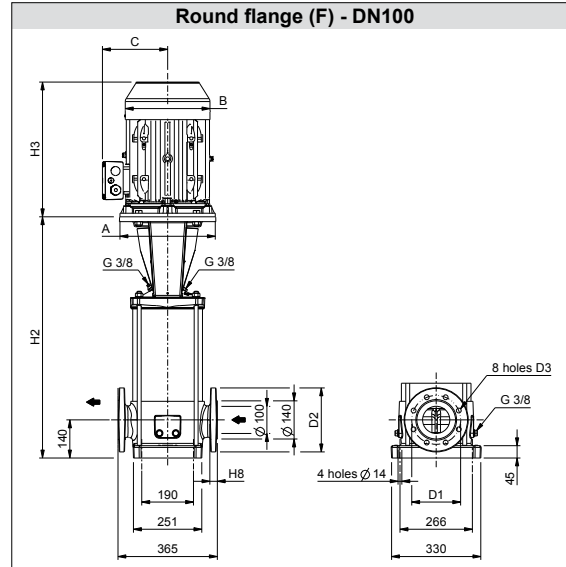
EVMSG64



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMSG64

#### Dimensional sketch



#### Dimensions [mm] and Weights [Kg]

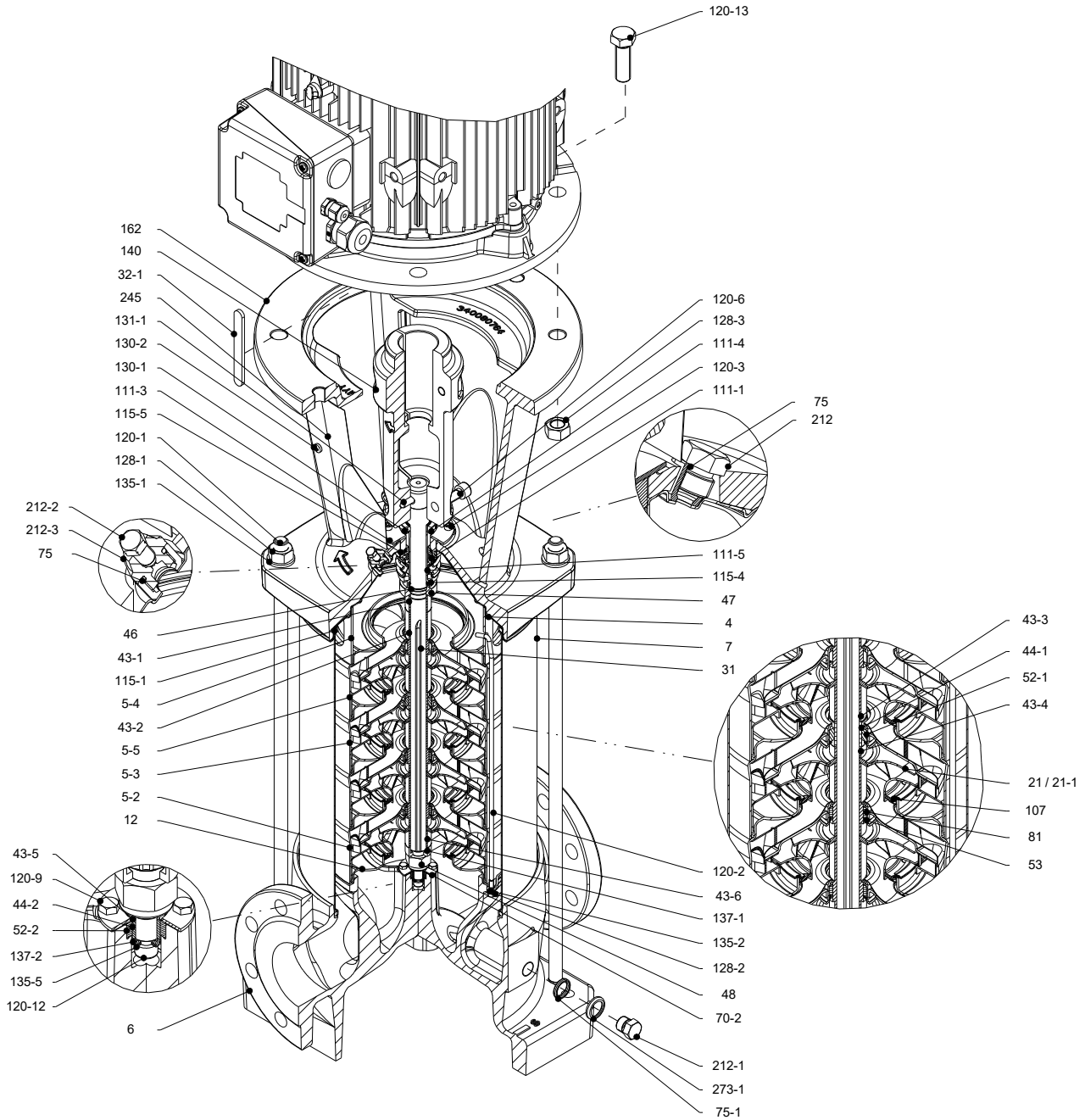
| Pump Type        | Pmax [MPa] | Motor |      |     |     |     | Round flange (F) |       |     |     |    |    |       | Weight Pump | Weight Pump + Motor |
|------------------|------------|-------|------|-----|-----|-----|------------------|-------|-----|-----|----|----|-------|-------------|---------------------|
|                  |            | kW    | Size | A   | B   | C   | H2               | H2+H3 | D1  | D2  | D3 | H8 |       |             |                     |
| EVMSG64 1-1/7,5  | 1,6        | 7,5   | 132  | 300 | 220 | 152 | 650              | 1069  | 180 | 235 | 18 | 24 | 74,7  | 120,7       |                     |
| EVMSG64 1-0/11   | 1,6        | 11    | 160  | 350 | 259 | 180 | 680              | 1119  | 180 | 235 | 18 | 24 | 81,8  | 144,3       |                     |
| EVMSG64 2-2/15   | 1,6        | 15    | 160  | 350 | 311 | 240 | 752              | 1247  | 180 | 235 | 18 | 24 | 76,0  | 177,0       |                     |
| EVMSG64 2-1/18,5 | 1,6        | 18,5  | 160  | 350 | 311 | 240 | 752              | 1247  | 180 | 235 | 18 | 24 | 80,2  | 189,2       |                     |
| EVMSG64 2-0/18,5 | 1,6        | 18,5  | 160  | 350 | 311 | 240 | 752              | 1247  | 180 | 235 | 18 | 24 | 80,2  | 189,2       |                     |
| EVMSG64 3-2/22   | 1,6        | 22    | 180  | 350 | 354 | 260 | 824              | 1376  | 180 | 235 | 18 | 24 | 82,4  | 217,4       |                     |
| EVMSG64 3-1/30   | 1,6        | 30    | 200  | 400 | 354 | 280 | 824              | 1376  | 180 | 235 | 18 | 24 | 74,8  | 242,8       |                     |
| EVMSG64 3-0/30   | 1,6        | 30    | 200  | 400 | 354 | 280 | 824              | 1376  | 180 | 235 | 18 | 24 | 74,8  | 242,8       |                     |
| EVMSG64 4-2/37   | 2,5        | 37    | 200  | 400 | 382 | 295 | 913              | 1590  | 190 | 254 | 22 | 31 | 121,5 | 381,5       |                     |
| EVMSG64 4-1/37   | 2,5        | 37    | 200  | 400 | 382 | 295 | 913              | 1590  | 190 | 254 | 22 | 31 | 121,5 | 381,5       |                     |
| EVMSG64 4-0/37   | 2,5        | 37    | 200  | 400 | 382 | 295 | 913              | 1590  | 190 | 254 | 22 | 31 | 121,5 | 381,5       |                     |
| EVMSG64 5-2/45   | 2,5        | 45    | 225  | 450 | 449 | 335 | 985              | 1751  | 190 | 254 | 22 | 31 | 138,3 | 512,3       |                     |
| EVMSG64 5-1/45   | 2,5        | 45    | 225  | 450 | 449 | 335 | 985              | 1751  | 190 | 254 | 22 | 31 | 138,3 | 512,3       |                     |
| EVMSG64 5-0/45   | 2,5        | 45    | 225  | 450 | 449 | 335 | 985              | 1751  | 190 | 254 | 22 | 31 | 138,3 | 512,3       |                     |

1,6 MPa=16 bar;

2,5 MPa=25 bar

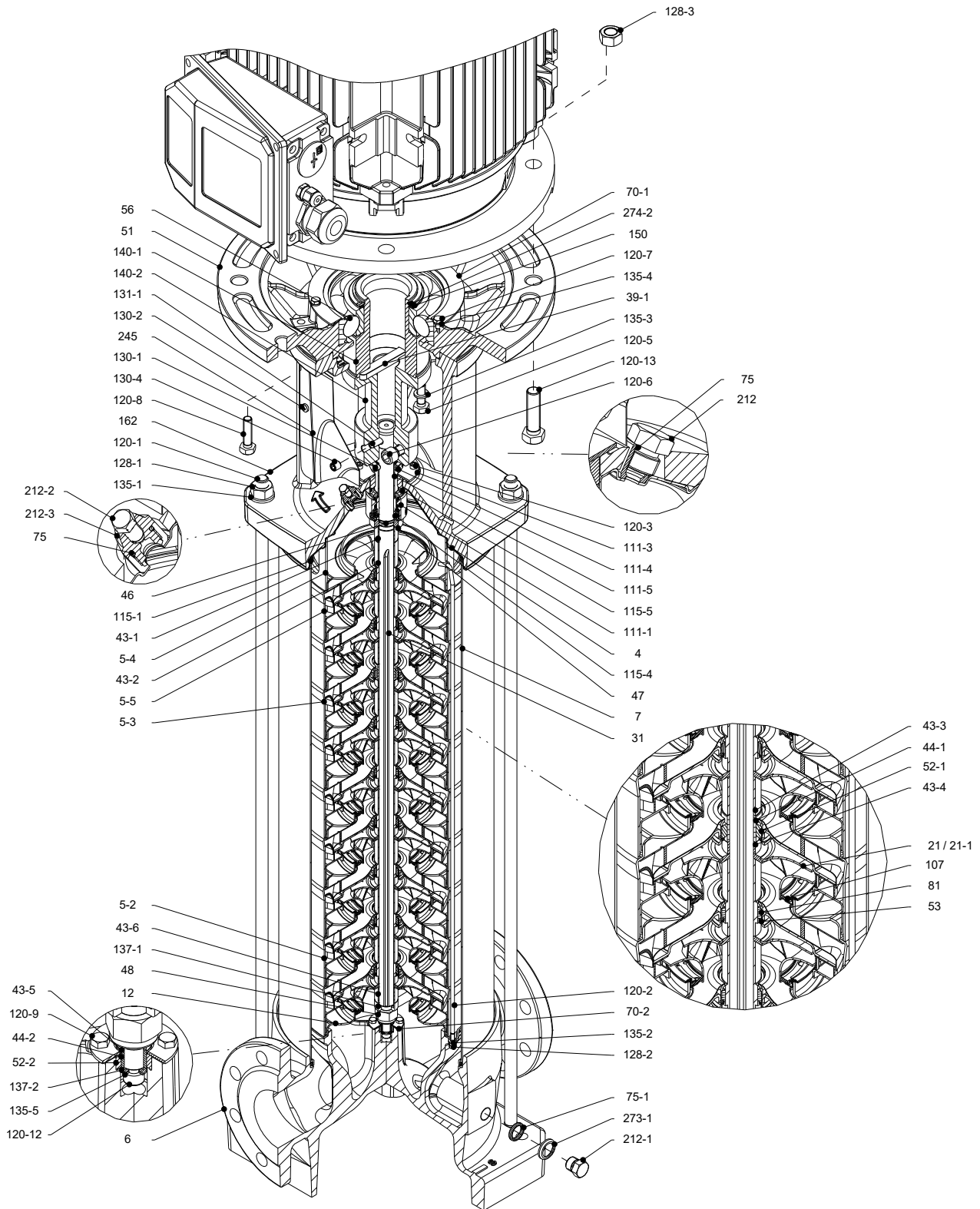
SECTIONAL VIEW  
EVMSG64

EVMSG64



Pump without ball bearing  
up to 30 kW

### SECTIONAL VIEW EVMSG64



Pump with single ball bearing  
above 37 kW

SECTIONAL TABLE  
EVMSG64

| N°    | PART NAME                        | MATERIAL<br>EVMSG   | DIMENSIONS   | STANDARD |
|-------|----------------------------------|---|--------------|----------|
| 4     | Casing cover                     | EN 1.4301 (AISI 304)  |              |          |
| 5-2   | Intermediate casing              | EN 1.4301 (AISI 304)  |              |          |
| 5-3   | Intermediate casing with bearing | EN 1.4301 (AISI 304)  |              |          |
| 5-4   | Discharge casing                 | EN 1.4301 (AISI 304)  |              |          |
| 5-5   | Top intermediate casing          | EN 1.4301 (AISI 304)  |              |          |
| 6     | Bottom casing                    | Cast Iron EN GJL-250 EN 1561<br>Cast Iron EN GJS 400-15 EN 1563 |              |          |
| 7     | Outer casing                     | EN 1.4301 (AISI 304)  |              |          |
| 12    | Suction cover                    | EN 1.4301 (AISI 304)  |              |          |
| 21    | Impeller                         | EN 1.4301 (AISI 304)  |              |          |
| 21-1  | Reduced impeller                 | EN 1.4301 (AISI 304)  |              |          |
| 31    | Shaft                            | EN 1.4301 (AISI 304)  |              |          |
| 32-1  | Adjuster key                     | EN 1.4301 (AISI 304)  |              |          |
| 39-1  | Coupling key                     | Carbon Steel  |              |          |
|       | above 37 kW                      |   |              |          |
| 43-1  | Shaft sleeve (mechanical seal)   | EN 1.4301 (AISI 304)  |              |          |
| 43-2  | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)  |              |          |
| 43-3  | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)  |              |          |
| 43-4  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)  |              |          |
| 43-5  | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)  |              |          |
| 43-6  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)  |              |          |
| 44-1  | Shaft sleeve bearing             | Tungsten carbide  |              |          |
| 44-2  | Shaft sleeve (bearing)           | Tungsten carbide  |              |          |
| 46    | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)   |              |          |
| 47    | Ring holder                      | EN 1.4301 (AISI 304)  |              |          |
| 48    | Impeller nut                     | EN 1.4301 (AISI 304) with inox insert                           |              |          |
| 51    | Motor adapter                    | Cast Iron EN GJL250 EN 1561                                     |              |          |
|       | above 37 kW                      |   |              |          |
| 52-1  | Sleeve bearing                   | Tungsten carbide  |              |          |
| 52-2  | Bearing sleeve (bottom casing)   | Tungsten carbide  |              |          |
| 53    | Bush holder                      | EN 1.4301 (AISI 304)  |              |          |
| 56    | Ball bearing                     | see table page 135  |              |          |
|       | above 37 kW                      |   |              |          |
| 70-1  | Ring for ball bearing            | EN 1.4301 (AISI 304)  |              |          |
|       | above 37 kW                      |   |              |          |
| 70-2  | Ring for bearing sleeve          | EN 1.4301 (AISI 304)  |              |          |
| 75    | O-Ring (priming plug)            | EPDM / FPM  | Ø12.37x2.62  | OR 3050  |
| 75-1  | O-Ring (drainage plug)           | EPDM / FPM  |              |          |
| 81    | Bush                             | PTFE  |              |          |
| 107   | Liner ring                       | EN 1.4301 (AISI 304) + PPS                                      |              |          |
| 111-1 | Mechanical seal                  | See pages 6-7   |              |          |
| 111-3 | Mechanical seal seat             | EN 1.4301 (AISI 304)  |              |          |
| 111-4 | Seal holder                      | EN 1.4404 (AISI 316L)   |              |          |
| 111-5 | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)  |              |          |
| 115-1 | O-Ring (outer casing)            | EPDM / FPM  | Ø240.66x5.34 | OR 6945  |
| 115-4 | O-Ring (cartridge sleeve)        | EPDM / FPM  | Ø23.39x3.53  | OR 4093  |
| 115-5 | O-Ring (seal flange)             | EPDM / FPM  | Ø44.04x3.53  | OR 4175  |
| 120-1 | Tie rod                          | EN 1.4057 (AISI 431)  |              |          |
| 120-2 | Tie rod (stage)                  | EN 1.4301 (AISI 304)  |              |          |
| 120-3 | Screw (seal flange)              | A2-70   | M5x12        | ISO 4762 |
| 120-5 | Screw (extension coupling)       | Galvanized steel 8.8 strength class ISO 898/1                   | M10x30       | ISO 4017 |
|       | above 37 kW                      |   |              |          |

### SECTIONAL TABLE EVMSG64

| N°     | PART NAME                   | MATERIAL<br>EVMSG   | DIMENSIONS                                    | STANDARD |          |
|--------|-----------------------------|---------------------|---|----------|----------|
| 120-6  | Screw (pump coupling)       | up to 7.5 kW        | Galvanized steel 8.8 strength class ISO 898/1 | M8x25    | ISO 4762 |
|        |                             | from 11 kW to 30 kW | Galvanized steel 8.8 strength class ISO 898/1 | M10x30   | ISO 4762 |
|        |                             | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M12x30   | ISO 4762 |
| 120-7  | Screw (ball bearing)        | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M6x10    | ISO 4017 |
| 120-8  | Screw (motor adapter)       | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M10x40   | ISO 4017 |
| 120-9  | Screw (bottom casing)       |                     | A2-70   | M5x8     | ISO 4017 |
| 120-12 | Screw (shaft)               |                     | A2-70   | M6x16    | ISO 4762 |
| 120-13 | Screw for motor             | MEC 132             | Galvanized steel 8.8 strength class ISO 898/1 | M12x45   | ISO 4017 |
|        |                             | MEC 160-180         | Galvanized steel 8.8 strength class ISO 898/1 | M16x50   | ISO 4017 |
|        |                             | MEC 200-225         | Galvanized steel 8.8 strength class ISO 898/1 | M16x60   | ISO 4014 |
| 128-1  | Nut (tie rod)               |                     | A2-70   | M16      | ISO 4032 |
| 128-2  | Nut (casing tie rod)        |                     | A2-70   | M5       | ISO 4032 |
| 128-3  | Nut (motor)                 | MEC 132             | Galvanized steel                              | M12      | ISO 4032 |
|        |                             | MEC 160-180-200-225 | Galvanized steel                              | M16      | ISO 4032 |
| 130-1  | Set screw                   |                     | EN 1.4301 (AISI 304)                          | M6x8     | ISO 4026 |
| 130-2  | Screw for coupling guard    |                     | A2-70   | M5x6     | UNI 7687 |
| 130-4  | Set screw (pump coupling)   | above 37 kW         | Galvanized steel                              | M10x10   | ISO 4026 |
| 131-1  | Pin for shaft               |                     | Carbon Steel                                  | Ø8X50    | ISO 2338 |
| 135-1  | Washer (tie rod)            |                     | EN 1.4301 (AISI 304)                          | Ø16      | ISO 7089 |
| 135-2  | Washer (casing tie rod)     |                     | EN 1.4301 (AISI 304)                          | Ø5.1     | UNI 1751 |
| 135-3  | Washer (extension coupling) | above 37 kW         | Galvanized steel                              | Ø10.2    | UNI 1751 |
| 135-4  | Washer (ball bearing)       | above 37 kW         | Plated carbon steel                           | Ø6.1     | UNI 1751 |
| 135-5  | Washer (impeller nut)       |                     | EN 1.4301 (AISI 304)                          |          |          |
| 137-1  | Impeller spacer             |                     | EN 1.4301 (AISI 304)                          |          |          |
| 137-2  | Shaft spacer                |                     | EN 1.4301 (AISI 304)                          |          |          |
| 140    | Coupling                    | up to 30 kW         | Cast Iron EN GJL250 EN 1561                   |          |          |
| 140-1  | Extension coupling          | above 37 kW         | Carbon Steel                                  |          |          |
| 140-2  | Coupling                    | above 37 kW         | Carbon Steel                                  |          |          |
| 150    | Spacer (snap ring)          | above 37 kW         | Carbon Steel                                  |          |          |
| 162    | Motor bracket               | up to 30 kW         | Cast Iron EN GJS 400-15 EN 1563               |          |          |
| 212    | Priming plug                |                     | EN 1.4301 (AISI 304)                          |          |          |
| 212-1  | Drainage plug               |                     | EN 1.4301 (AISI 304)                          |          |          |
| 212-2  | Venting plug                |                     | EN 1.4401 (AISI 316)                          |          |          |
| 212-3  | Priming plug                |                     | EN 1.4301 (AISI 304)                          |          |          |
| 245    | Coupling guard              |                     | EN 1.4301 (AISI 304)                          |          |          |
| 273-1  | Washer (drainage plug)      |                     | EN 1.4301 (AISI 304)                          |          |          |
| 274-2  | C-type snap ring (coupling) | above 37 kW         | Carbon Steel TC80                             | Ø75      | UNI 7435 |

QUANTITY FOR MODEL  
EVMSG64

| Pump Type        | N° |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |      |    |    |    |    |      |      |    |   |
|------------------|----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|------|----|----|----|----|------|------|----|---|
|                  | 4  | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 39-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 46 | 47 | 48 | 51 | 52-1 | 52-2 | 53 |   |
| EVMSG64 1-1/7,5  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | /  | 1    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | /  | /    | 1    | 1  |   |
| EVMSG64 1-0/11   | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | /    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | 1  | /    | /    | 1  | 1 |
| EVMSG64 2-2/15   | 1  | 1   | /   | 1   | 1   | 1 | 1 | 1  | /  | 2    | 1  | 1    | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | /    | 1    | 1  | 1 |
| EVMSG64 2-1/18,5 | 1  | 1   | /   | 1   | 1   | 1 | 1 | 1  | 1  | 1    | 1  | 1    | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | /    | 1    | 1  | 1 |
| EVMSG64 2-0/18,5 | 1  | 1   | /   | 1   | 1   | 1 | 1 | 1  | 2  | /    | 1  | 1    | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | /    | 1    | 1  | 1 |
| EVMSG64 3-2/22   | 1  | 2   | /   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | /    | 1    | 1  | 2 |
| EVMSG64 3-1/30   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 1    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 3  |   |
| EVMSG64 3-0/30   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | /    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 3  |   |
| EVMSG64 4-2/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 2    | 1  | /    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    | 6  |   |
| EVMSG64 4-1/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 1    | 1  | /    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    | 6  |   |
| EVMSG64 4-0/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | /    | 1  | /    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    | 6  |   |
| EVMSG64 5-2/45   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 2    | 1  | /    | 1    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    | 7  |   |
| EVMSG64 5-1/45   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | 1    | 1  | /    | 1    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    | 7  |   |
| EVMSG64 5-0/45   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | 0    | 1  | /    | 1    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    | 7  |   |

□ shaft in EN 1.4462 (AISI 329A)

| Pump Type        | N° |      |      |    |      |    |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |       |
|------------------|----|------|------|----|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|
|                  | 56 | 70-1 | 70-2 | 75 | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-5 | 120-6 | 120-7 | 120-8 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 | 130-1 |
| EVMSG64 1-1/7,5  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1     | 4      | 4      | 4     | 4     | 4     | 3     |
| EVMSG64 1-0/11   | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1     | 4      | 4      | 4     | 4     | 4     | 3     |
| EVMSG64 2-2/15   | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1     | 4      | 4      | 4     | 4     | 4     | 3     |
| EVMSG64 2-1/18,5 | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1     | 4      | 4      | 4     | 4     | 4     | 3     |
| EVMSG64 2-0/18,5 | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1     | 4      | 4      | 4     | 4     | 4     | 3     |
| EVMSG64 3-2/22   | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1     | 4      | 4      | 4     | 4     | 4     | 3     |
| EVMSG64 3-1/30   | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1     | 4      | 4      | 4     | 4     | 4     | 3     |
| EVMSG64 3-0/30   | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1     | 4      | 4      | 4     | 4     | 4     | 3     |
| EVMSG64 4-2/37   | 1  | 1    | 1    | 2  | 4    | 5  | 4   | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1     | 4      | 4      | 4     | 4     | 4     | 3     |
| EVMSG64 4-1/37   | 1  | 1    | 1    | 2  | 4    | 5  | 4   | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1     | 4      | 4      | 4     | 4     | 4     | 3     |
| EVMSG64 4-0/37   | 1  | 1    | 1    | 2  | 4    | 5  | 4   | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1     | 4      | 4      | 4     | 4     | 4     | 3     |
| EVMSG64 5-2/45   | 1  | 1    | 1    | 2  | 4    | 6  | 5   | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1     | 8      | 4      | 4     | 8     | 3     |       |
| EVMSG64 5-1/45   | 1  | 1    | 1    | 2  | 4    | 6  | 5   | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1     | 8      | 4      | 4     | 8     | 3     |       |
| EVMSG64 5-0/45   | 1  | 1    | 1    | 2  | 4    | 6  | 5   | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1     | 8      | 4      | 4     | 8     | 3     |       |

| Pump Type        | N°    |       |       |       |       |       |       |       |       |       |     |       |       |     |     |     |       |       |       |     |       |       |  |  |  |  |  |  |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-------|-------|-------|-----|-------|-------|--|--|--|--|--|--|
|                  | 130-2 | 130-4 | 131-1 | 135-1 | 135-2 | 135-3 | 135-4 | 135-5 | 137-1 | 137-2 | 140 | 140-1 | 140-2 | 150 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 | 274-2 |  |  |  |  |  |  |
| EVMSG64 1-1/7,5  | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |  |  |  |
| EVMSG64 1-0/11   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |  |  |  |
| EVMSG64 2-2/15   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |  |  |  |
| EVMSG64 2-1/18,5 | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |  |  |  |
| EVMSG64 2-0/18,5 | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |  |  |  |
| EVMSG64 3-2/22   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |  |  |  |
| EVMSG64 3-1/30   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |  |  |  |
| EVMSG64 3-0/30   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |  |  |  |
| EVMSG64 4-2/37   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |  |  |  |  |
| EVMSG64 4-1/37   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |  |  |  |  |
| EVMSG64 4-0/37   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |  |  |  |  |
| EVMSG64 5-2/45   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |  |  |  |  |
| EVMSG64 5-1/45   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |  |  |  |  |
| EVMSG64 5-0/45   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |  |  |  |  |



### QUANTITY FOR MODEL EVMSG64

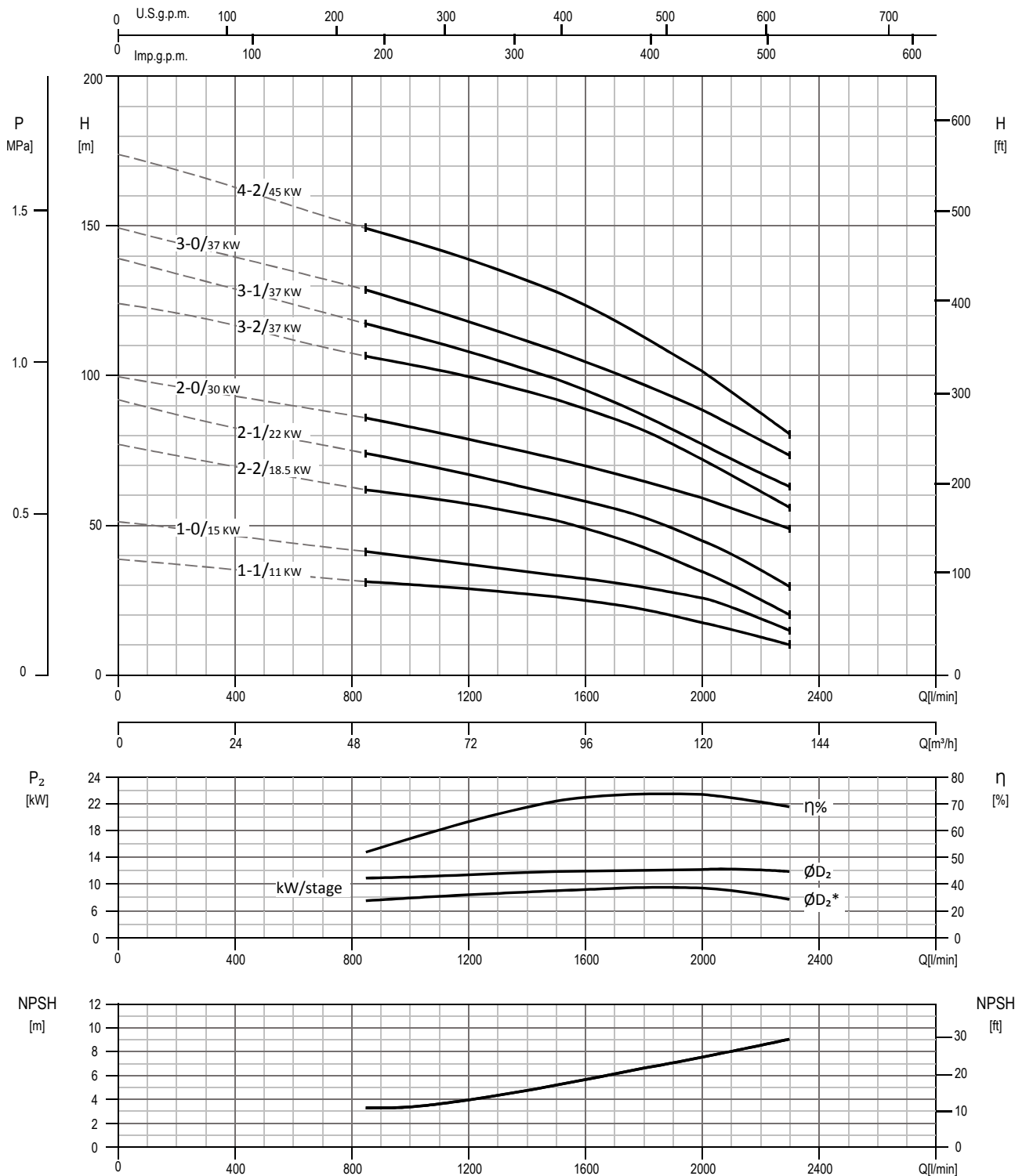
2.16

| Pump Type        | N° 56      |
|------------------|------------|
| EVMSG64 1-1/7,5  | /          |
| EVMSG64 1-0/11   | /          |
| EVMSG64 2-2/15   | /          |
| EVMSG64 2-1/18,5 | /          |
| EVMSG64 2-0/18,5 | /          |
| EVMSG64 3-2/22   | /          |
| EVMSG64 3-1/30   | /          |
| EVMSG64 3-0/30   | /          |
| EVMSG64 4-2/37   | 6315 ZZ C3 |
| EVMSG64 4-1/37   | 6315 ZZ C3 |
| EVMSG64 4-0/37   | 6315 ZZ C3 |
| EVMSG64 5-2/45   | 6315 ZZ C3 |
| EVMSG64 5-1/45   | 6315 ZZ C3 |
| EVMSG64 5-0/45   | 6315 ZZ C3 |

EVMSG64

PERFORMANCE CURVE  
EVMS(L)90

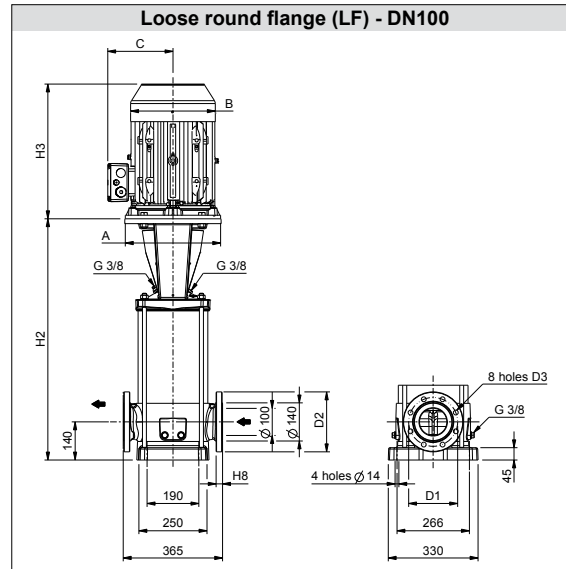
EVMS(L)90



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)90

#### Dimensional sketch



#### Dimensions [mm] and Weights [Kg]

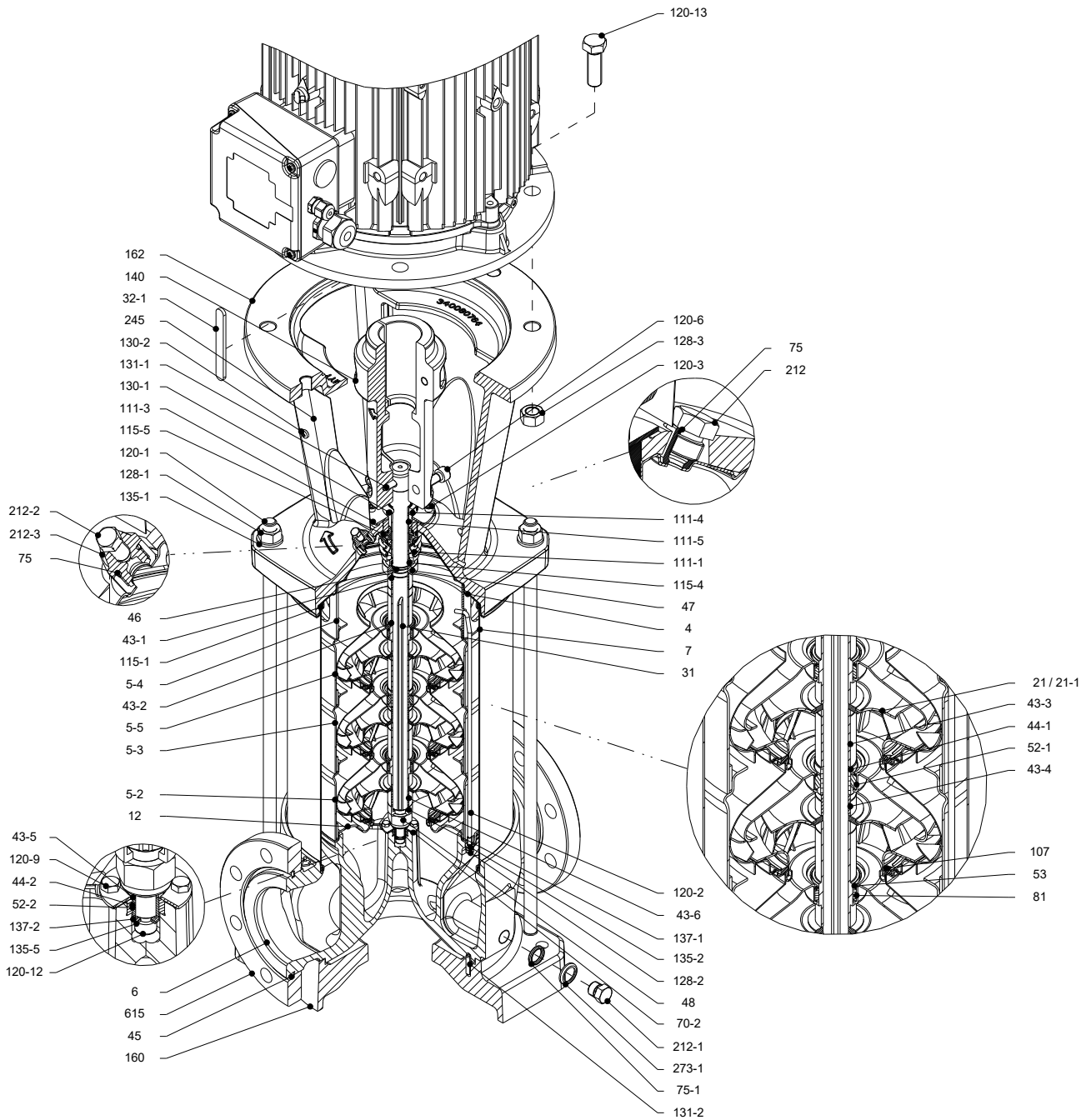
| Pump Type          | Pmax [MPa] | Motor |      |     |     |     | Loose round flange (LF) |       |     |     |    |    |       | Weight Pump | Weight Pump + Motor |
|--------------------|------------|-------|------|-----|-----|-----|-------------------------|-------|-----|-----|----|----|-------|-------------|---------------------|
|                    |            | kW    | Size | A   | B   | C   | H2                      | H2+H3 | D1  | D2  | D3 | H8 |       |             |                     |
| EVMS(L)90 1-1/11   | 1.6        | 11    | 160  | 350 | 259 | 180 | 701                     | 1140  | 180 | 220 | 18 | 24 | 84.7  | 147.2       |                     |
| EVMS(L)90 1-0/15   | 1.6        | 15    | 160  | 350 | 311 | 240 | 701                     | 1196  | 180 | 220 | 18 | 24 | 73.8  | 174.8       |                     |
| EVMS(L)90 2-2/18.5 | 1.6        | 18.5  | 160  | 350 | 311 | 240 | 794                     | 1289  | 180 | 220 | 18 | 24 | 86.2  | 195.2       |                     |
| EVMS(L)90 2-1/22   | 1.6        | 22    | 180  | 350 | 354 | 260 | 794                     | 1346  | 180 | 220 | 18 | 24 | 83.2  | 218.2       |                     |
| EVMS(L)90 2-0/30   | 1.6        | 30    | 200  | 400 | 354 | 280 | 794                     | 1346  | 180 | 220 | 18 | 24 | 75.6  | 243.6       |                     |
| EVMS(L)90 3-2/37   | 1.6        | 37    | 200  | 400 | 382 | 295 | 904                     | 1581  | 220 | 180 | 18 | 24 | 108.0 | 368.0       |                     |
| EVMS(L)90 3-1/37   | 1.6        | 37    | 200  | 400 | 382 | 295 | 904                     | 1581  | 220 | 180 | 18 | 24 | 108.0 | 368.0       |                     |
| EVMS(L)90 3-0/37   | 1.6        | 37    | 200  | 400 | 382 | 295 | 904                     | 1581  | 220 | 180 | 18 | 24 | 108.0 | 368.0       |                     |
| EVMS(L)90 4-2/45   | 2.5        | 45    | 225  | 450 | 449 | 335 | 997                     | 1763  | 235 | 190 | 22 | 30 | 128.5 | 502.5       |                     |

1.6 MPa=16 bar;

2.5 MPa=25 bar

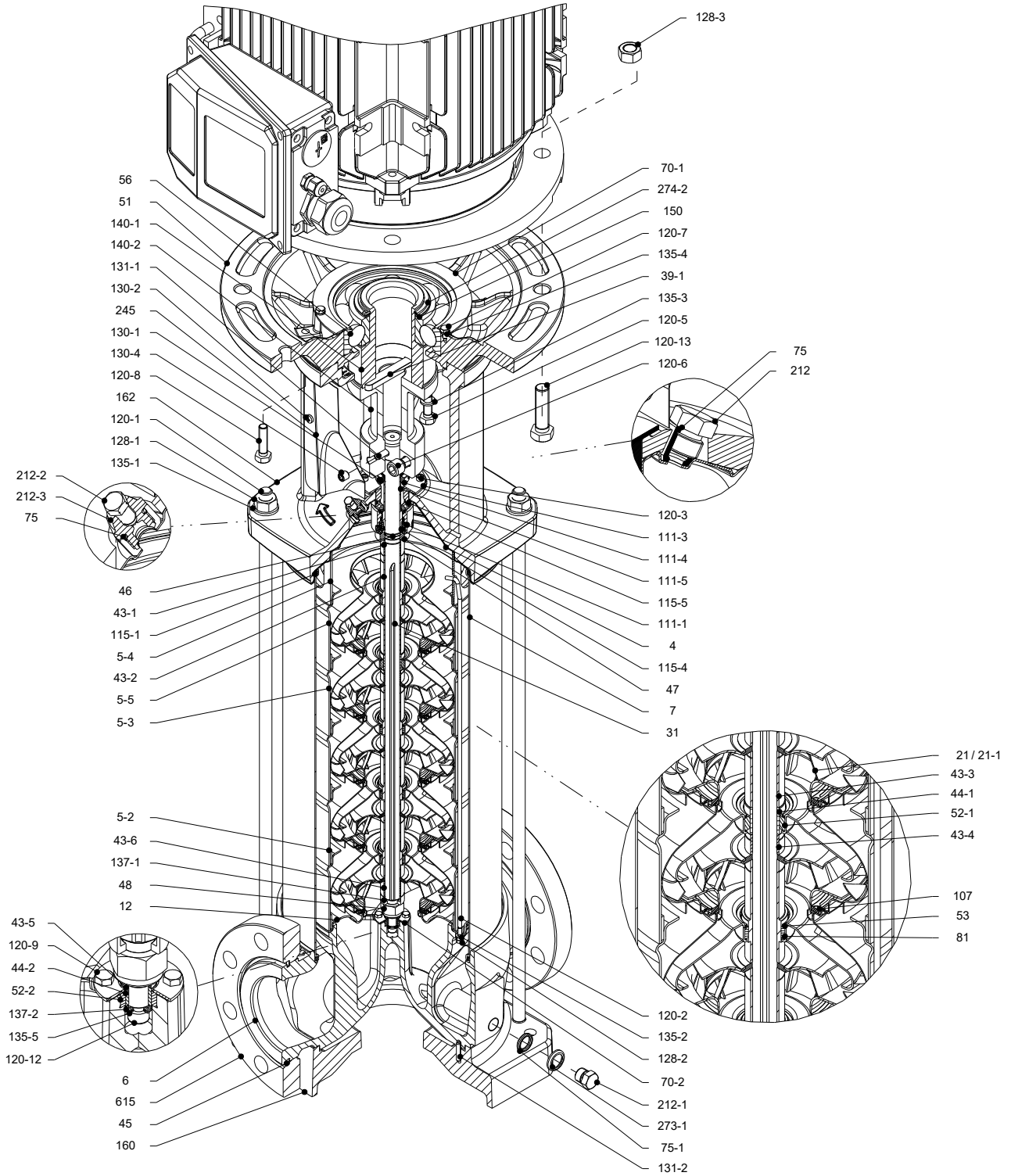
SECTIONAL VIEW  
EVMS(L)90

EVMS(L)90



Pump without ball bearing  
up to 30 kW

### SECTIONAL VIEW EVMS(L)90



Pump with single ball bearing  
above 37 kW

SECTIONAL TABLE  
EVMS(L)90

| N°    | PART NAME                        | MATERIAL                                      |  | DIMENSIONS   | STANDARD |
|-------|----------------------------------|---|--|--------------|----------|
|       |                                  | EVMS  | EVMSL                                    |              |          |
| 4     | Casing cover                     | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-2   | Intermediate casing              | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-3   | Intermediate casing with bearing | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-4   | Discharge casing                 | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-5   | Top intermediate casing          | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 6     | Bottom casing                    | EN 1.4308 (ASTM CF8)                          | EN 1.4408 (ASTM CF8M)                    |              |          |
| 7     | Outer casing                     | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 12    | Suction cover                    | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 21    | Impeller                         | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 21-1  | Reduced impeller                 | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 31    | Shaft                            | EN 1.4301 (AISI 304)                          | EN 1.4462 (AISI 329A)                    |              |          |
| 32-1  | Adjuster key                     | EN 1.4301 (AISI 304)                          |  |              |          |
| 39-1  | Coupling key                     | Carbon Steel                                  |  |              |          |
| 43-1  | Shaft sleeve (mechanical seal)   | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 43-2  | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 43-3  | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 43-4  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 43-5  | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 43-6  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 44-1  | Shaft sleeve bearing             | Tungsten carbide                              |  |              |          |
| 44-2  | Shaft sleeve (bearing)           | Tungsten carbide                              |  |              |          |
| 45    | Flange holder                    | EN 1.4301 (AISI 304)                          |  |              |          |
| 46    | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                         |  |              |          |
| 47    | Ring holder                      | EN 1.4404 (AISI 316L)                         |  |              |          |
| 48    | Impeller nut                     | EN 1.4301 (AISI 304)<br>with inox insert      | EN 1.4401 (AISI 316)<br>with inox insert |              |          |
| 51    | Motor adapter                    | Cast Iron EN GJL250 EN 1561                   |  |              |          |
| 52-1  | Sleeve bearing                   | Tungsten carbide                              |  |              |          |
| 52-2  | Bearing sleeve (bottom casing)   | Tungsten carbide                              |  |              |          |
| 53    | Bush holder                      | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 56    | Ball bearing                     | see table page 143                            |  |              |          |
| 70-1  | Ring for ball bearing            | EN 1.4301 (AISI 304)                          |  |              |          |
| 70-2  | Ring for bearing sleeve          | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 75    | O-Ring (priming plug)            | EPDM / FPM                                    |  | Ø12.37x2.62  | OR 3050  |
| 75-1  | O-Ring (drainage plug)           | EPDM / FPM                                    |  |              |          |
| 81    | Bush                             | PTFE  |  |              |          |
| 107   | Liner ring                       | EN 1.4301 (AISI 304) + PPS                    | EN 1.4404 (AISI 316L) + PPS              |              |          |
| 111-1 | Mechanical seal                  | See pages 6-7                                 |  |              |          |
| 111-3 | Mechanical seal seat             | EN 1.4301 (AISI 304)                          | EN 1.4401 (AISI 316)                     |              |          |
| 111-4 | Seal holder                      | EN 1.4404 (AISI 316L)                         |  |              |          |
| 111-5 | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 115-1 | O-Ring (outer casing)            | EPDM / FPM                                    |  | Ø240.66x5.34 | OR 6945  |
| 115-4 | O-Ring (cartridge sleeve)        | EPDM / FPM                                    |  | Ø23.39x3.53  | OR 4093  |
| 115-5 | O-Ring (seal flange)             | EPDM / FPM                                    |  | Ø44.04x3.53  | OR 4175  |
| 120-1 | Tie rod                          | EN 1.4057 (AISI 431)                          |  |              |          |
| 120-2 | Tie rod (stage)                  | EN 1.4301 (AISI 304)                          | EN 1.4401 (AISI 316)                     |              |          |
| 120-3 | Screw (seal flange)              | A2-70   |  | M5x12        | ISO 4762 |
| 120-5 | Screw (extension coupling)       | Galvanized steel 8.8 strength class ISO 898/1 |  | M10x30       | ISO 4017 |

### SECTIONAL TABLE EVMS(L)90

| N°     | PART NAME                   | MATERIAL            |   | DIMENSIONS | STANDARD |
|--------|-----------------------------|---------------------|---|------------|----------|
|        |                             | EVMS                | EVMSL   |            |          |
| 120-6  | Screw (pump coupling)       | up to 30 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M10x30     | ISO 4762 |
|        |                             | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M12x30     | ISO 4762 |
| 120-7  | Screw (ball bearing)        | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M6x10      | ISO 4017 |
| 120-8  | Screw (motor adapter)       | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M10x40     | ISO 4017 |
| 120-9  | Screw (bottom casing)       |                     | A2-70   | M5x8       | ISO 4017 |
| 120-12 | Screw (shaft)               |                     | A2-70   | M6x16      | ISO 4762 |
| 120-13 | Screw for motor             | MEC 160-180         | Galvanized steel 8.8 strength class ISO 898/1 | M16x50     | ISO 4017 |
|        |                             | MEC 200-225         | Galvanized steel 8.8 strength class ISO 898/1 | M16x60     | ISO 4014 |
| 128-1  | Nut (tie rod)               |                     | A2-70   | M16        | ISO 4032 |
| 128-2  | Nut (casing tie rod)        |                     | A2-70   | M5         | ISO 4032 |
| 128-3  | Nut (motor)                 | MEC 160-180-200-225 | Galvanized steel                              | M16        | ISO 4032 |
| 130-1  | Set screw                   |                     | EN 1.4301 (AISI 304)                          | M6x8       | ISO 4026 |
| 130-2  | Screw for coupling guard    |                     | A2-70   | M5x6       | UNI 7687 |
| 130-4  | Set screw (pump coupling)   | above 37 kW         | Galvanized steel                              | M10x10     | ISO 4026 |
| 131-1  | Pin for shaft               |                     | Carbon Steel                                  | Ø8x50      | ISO 2338 |
| 131-2  | Elastic pin                 |                     | EN 1.4301 (AISI 304)                          | Ø6x26      | ISO 8752 |
| 135-1  | Washer (tie rod)            |                     | EN 1.4301 (AISI 304)                          | Ø16        | ISO 7089 |
| 135-2  | Washer (casing tie rod)     |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316)   | Ø5.1       | UNI 1751 |
| 135-3  | Washer (extension coupling) | above 37 kW         | Galvanized steel                              | Ø10.2      | UNI 1751 |
| 135-4  | Washer (ball bearing)       | above 37 kW         | Plated carbon steel                           | Ø6.1       | UNI 1751 |
| 135-5  | Washer (impeller nut)       |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 137-1  | Impeller spacer             |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 137-2  | Shaft spacer                |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 140    | Coupling                    | up to 30 kW         | Cast Iron EN GJL250 EN 1561                   |            |          |
| 140-1  | Extension coupling          | above 37 kW         | Carbon Steel                                  |            |          |
| 140-2  | Coupling                    | above 37 kW         | Carbon Steel                                  |            |          |
| 150    | Spacer (snap ring)          | above 37 kW         | Carbon Steel                                  |            |          |
| 160    | Base                        |                     | Cast Iron EN GJL200 EN 1561                   |            |          |
| 162    | Motor bracket               | up to 30 kW         | Cast Iron EN GJS 400-15 EN 1563               |            |          |
| 212    | Priming plug                |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 212-1  | Drainage plug               |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 212-2  | Venting plug                |                     | EN 1.4401 (AISI 316)                          |            |          |
| 212-3  | Priming plug                |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 245    | Coupling guard              |                     | EN 1.4301 (AISI 304)                          |            |          |
| 273-1  | Washer (drainage plug)      |                     | EN 1.4301 (AISI 304)   EN 1.4404 (AISI 316L)  |            |          |
| 274-2  | C-type snap ring (coupling) | above 37 kW         | Carbon Steel TC80                             | Ø75        | UNI 7435 |
| 615    | Loose flange                |                     | Cast Iron EN GJS 500-7 EN 1563                |            |          |

QUANTITY FOR MODEL  
EVMS(L)90

| Pump Type          | N° |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |      |      |
|--------------------|----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|------|------|
|                    | 4  | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 39-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 45 | 46 | 47 | 48 | 51 | 52-1 | 52-2 |
| EVMS(L)90 1-1/11   | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | /  | 1    | 1  | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4    | 1  | 1  | 1  | /  | /  | 1    |      |
| EVMS(L)90 1-0/15   | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | /    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | /    | 1    |
| EVMS(L)90 2-2/18.5 | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | /  | 2    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)90 2-1/22   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 1    | 1  | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)90 2-0/30   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | /    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)90 3-2/37   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 1  | /    | 1    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)90 3-1/37   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 1    | 1  | /    | 1    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)90 3-0/37   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | /    | 1  | /    | 1    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)90 4-2/45   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 2  | 1    | /    | 1    | 1    | 1    | 3    | 1    | 1    | 1    | 1    | 1  | 4  | 1  | 1  | 1  | 1    | 1    |

shaft in EN 1.4462 (AISI 329A) only for EVMSL

| Pump Type          | N° |    |      |      |    |      |    |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |
|--------------------|----|----|------|------|----|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
|                    | 53 | 56 | 70-1 | 70-2 | 75 | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-5 | 120-6 | 120-7 | 120-8 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 |
| EVMS(L)90 1-1/11   | 1  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 1-0/15   | 1  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 2-2/18.5 | 3  | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 2-1/22   | 3  | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 2-0/30   | 3  | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 3-2/37   | 3  | 1  | 1    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 3-1/37   | 3  | 1  | 1    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 3-0/37   | 3  | 1  | 1    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 4-2/45   | 4  | 1  | 1    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |

| Pump Type          | N°    |       |       |       |       |       |       |       |       |       |       |       |     |       |       |     |     |     |     |       |       |       |     |       |       |     |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-----|-------|-------|-------|-----|-------|-------|-----|
|                    | 130-1 | 130-2 | 130-4 | 131-1 | 131-2 | 135-1 | 135-2 | 135-3 | 135-4 | 135-5 | 137-1 | 137-2 | 140 | 140-1 | 140-2 | 150 | 160 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 | 274-2 | 615 |
| EVMS(L)90 1-1/11   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)90 1-0/15   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)90 2-2/18.5 | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)90 2-1/22   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)90 2-0/30   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)90 3-2/37   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)90 3-1/37   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)90 3-0/37   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)90 4-2/45   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |

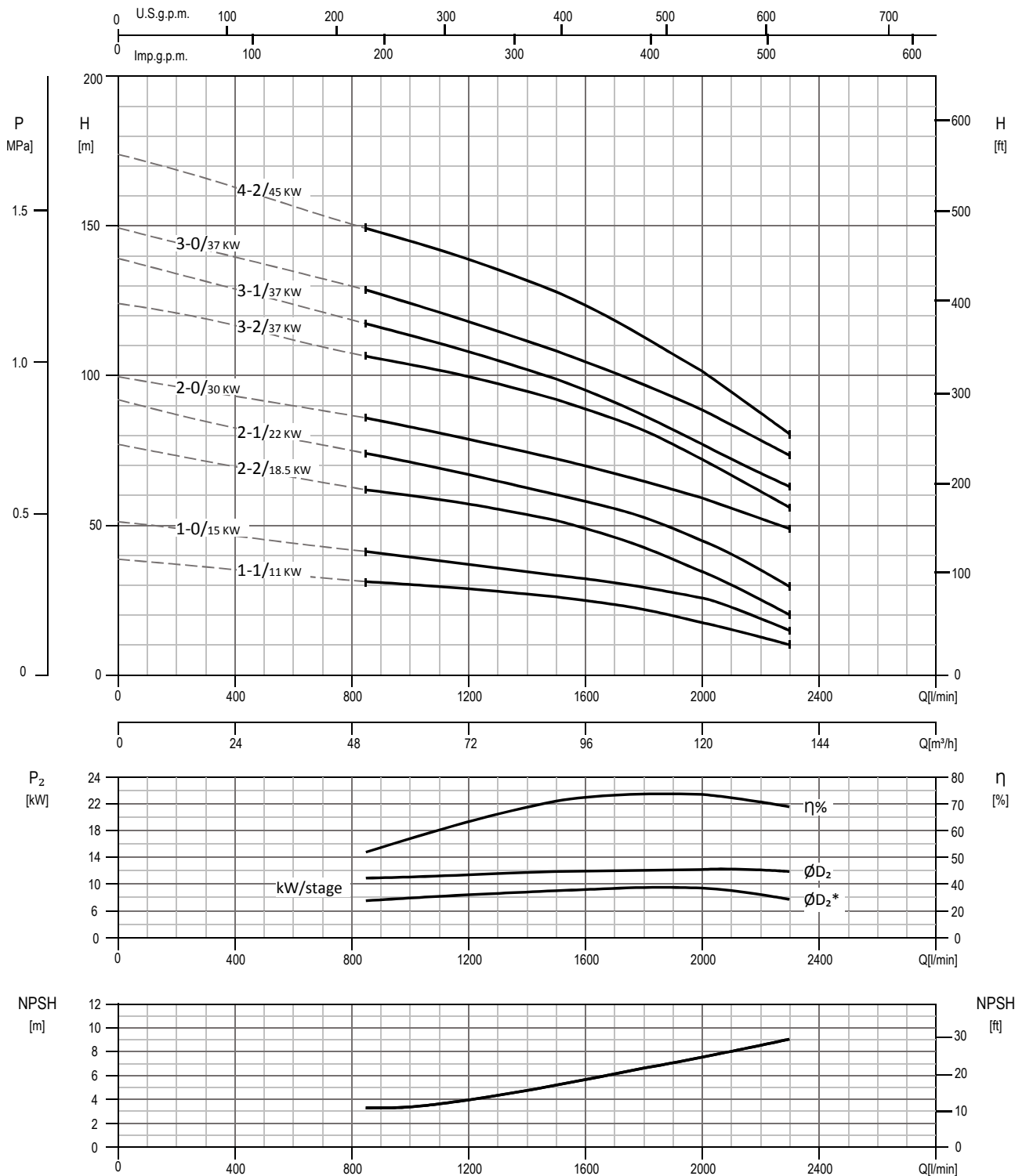


### BEARINGS EVMS(L)90

| Pump Type          | N° 56      |
|--------------------|------------|
| EVMS(L)90 1-1/11   | /          |
| EVMS(L)90 1-0/15   | /          |
| EVMS(L)90 2-2/18.5 | /          |
| EVMS(L)90 2-1/22   | /          |
| EVMS(L)90 2-0/30   | /          |
| EVMS(L)90 3-2/37   | 6315 ZZ C3 |
| EVMS(L)90 3-1/37   | 6315 ZZ C3 |
| EVMS(L)90 3-0/37   | 6315 ZZ C3 |
| EVMS(L)90 4-2/45   | 6315 ZZ C3 |

PERFORMANCE CURVE  
EVMSG90

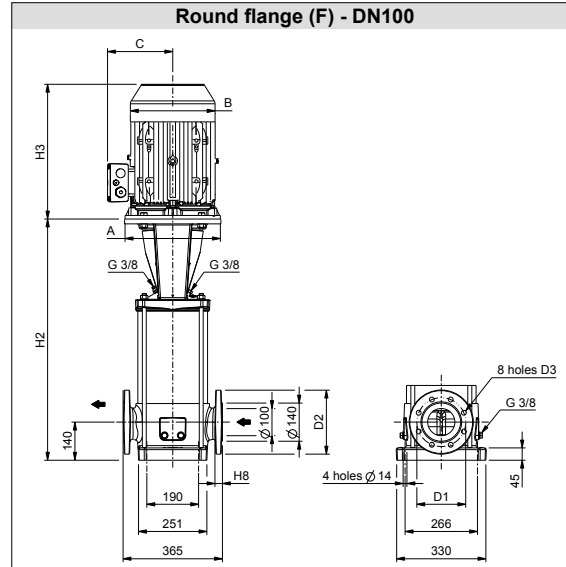
EVMSG90



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMSG90

#### Dimensional sketch



#### Dimensions [mm] and Weights [Kg]

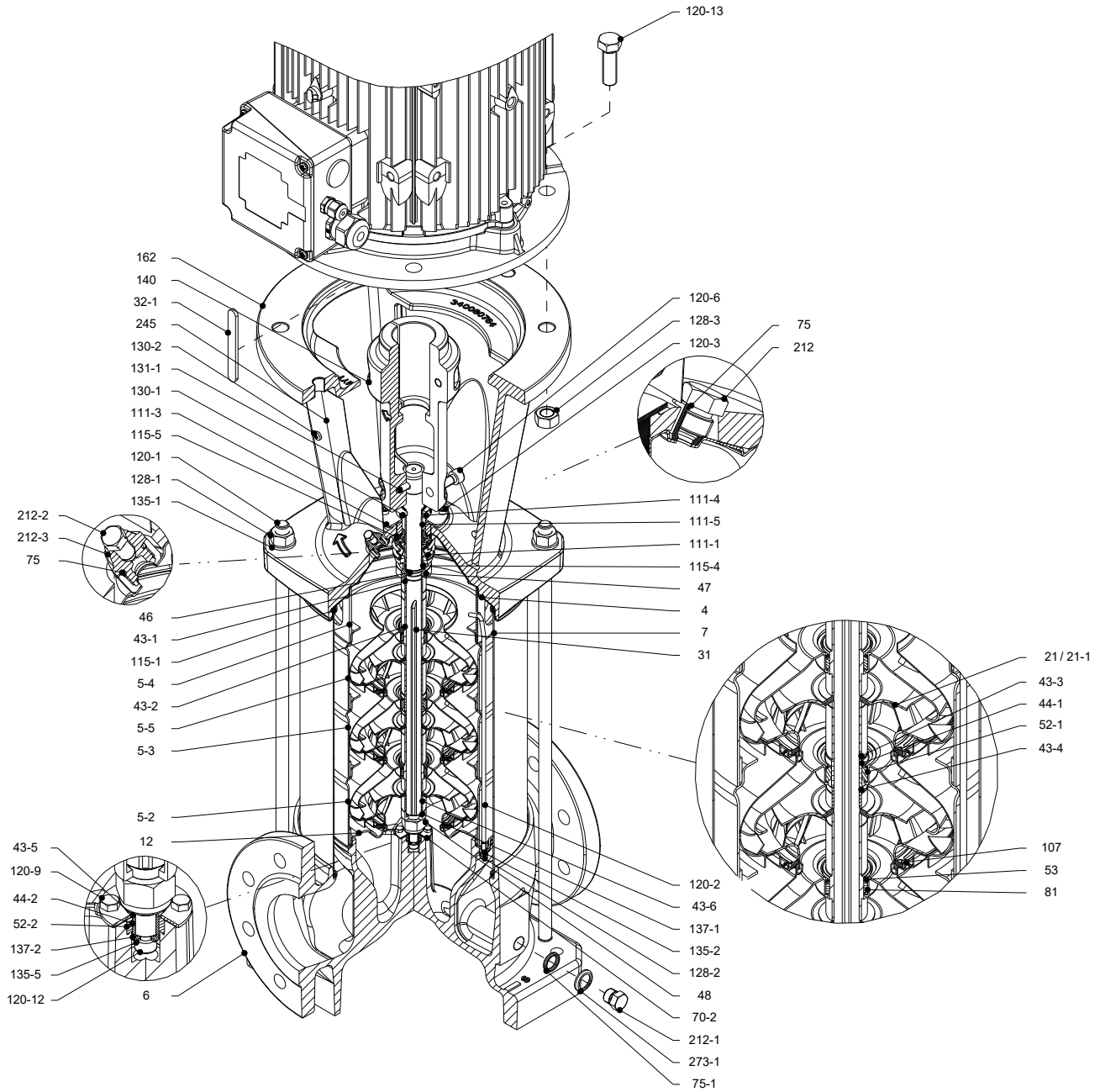
| Pump Type        | P <sub>max</sub><br>[MPa] | Motor |      |        |     |     | Round flange (F) |       |     |     |    |    |       | Weight<br>Pump | Weight<br>Pump +<br>Motor |
|------------------|---------------------------|-------|------|--------|-----|-----|------------------|-------|-----|-----|----|----|-------|----------------|---------------------------|
|                  |                           | kW    | Size | A<br>Ø | B   | C   | H2               | H2+H3 | D1  | D2  | D3 | H8 |       |                |                           |
| EVMSG90 1-1/11   | 1.6                       | 11    | 160  | 350    | 259 | 180 | 701              | 1140  | 180 | 235 | 18 | 24 | 81.9  | 144.4          |                           |
| EVMSG90 1-0/15   | 1.6                       | 15    | 160  | 350    | 311 | 240 | 701              | 1196  | 180 | 235 | 18 | 24 | 70.9  | 171.9          |                           |
| EVMSG90 2-2/18.5 | 1.6                       | 18.5  | 160  | 350    | 311 | 240 | 794              | 1289  | 180 | 235 | 18 | 24 | 83.4  | 192.4          |                           |
| EVMSG90 2-1/22   | 1.6                       | 22    | 180  | 350    | 354 | 260 | 794              | 1346  | 180 | 235 | 18 | 24 | 80.4  | 215.4          |                           |
| EVMSG90 2-0/30   | 1.6                       | 30    | 200  | 400    | 354 | 280 | 794              | 1346  | 180 | 235 | 18 | 24 | 72.7  | 240.7          |                           |
| EVMSG90 3-2/37   | 1.6                       | 37    | 200  | 400    | 382 | 295 | 904              | 1581  | 180 | 235 | 18 | 24 | 105.1 | 365.1          |                           |
| EVMSG90 3-1/37   | 1.6                       | 37    | 200  | 400    | 382 | 295 | 904              | 1581  | 180 | 235 | 18 | 24 | 105.1 | 365.1          |                           |
| EVMSG90 3-0/37   | 1.6                       | 37    | 200  | 400    | 382 | 295 | 904              | 1581  | 180 | 235 | 18 | 24 | 105.1 | 365.1          |                           |
| EVMSG90 4-2/45   | 2.5                       | 45    | 225  | 450    | 449 | 335 | 997              | 1763  | 190 | 254 | 22 | 31 | 122.3 | 496.3          |                           |

1.6 MPa=16 bar;

2.5 MPa=25 bar

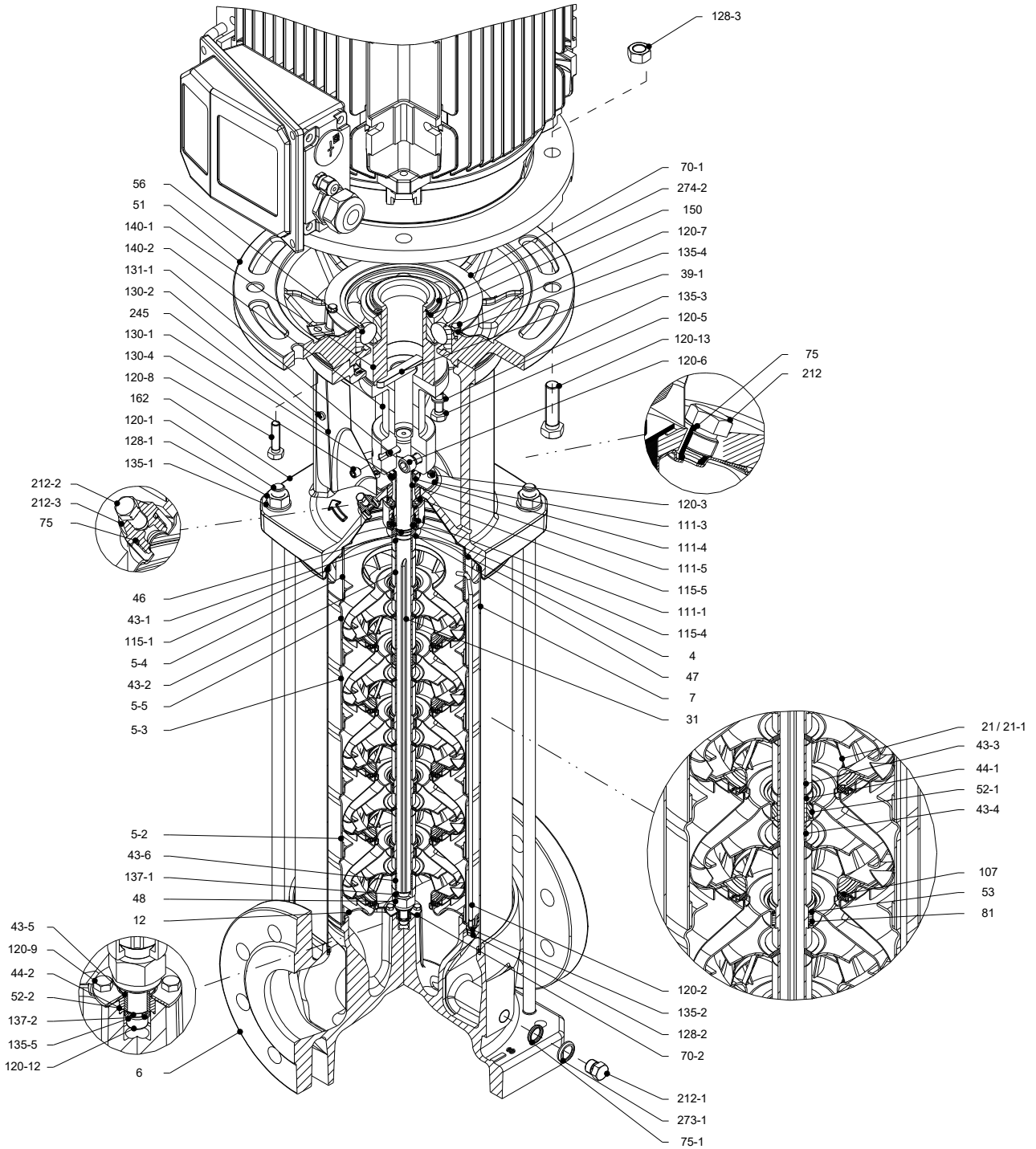
SECTIONAL VIEW  
EVMSG90

EVMSG90



Pump without ball bearing  
up to 30 kW

### SECTIONAL VIEW EVMSG90



Pump with single ball bearing  
above 37 kW

SECTIONAL TABLE  
EVMSG90

| N°    | PART NAME                        | MATERIAL<br>EVMSG   | DIMENSIONS   | STANDARD |
|-------|----------------------------------|---|--------------|----------|
| 4     | Casing cover                     | EN 1.4301 (AISI 304)  |              |          |
| 5-2   | Intermediate casing              | EN 1.4301 (AISI 304)  |              |          |
| 5-3   | Intermediate casing with bearing | EN 1.4301 (AISI 304)  |              |          |
| 5-4   | Discharge casing                 | EN 1.4301 (AISI 304)  |              |          |
| 5-5   | Top intermediate casing          | EN 1.4301 (AISI 304)  |              |          |
| 6     | Bottom casing                    | Cast Iron EN GJL-250 EN 1561<br>Cast Iron EN GJS 400-15 EN 1563 |              |          |
| 7     | Outer casing                     | EN 1.4301 (AISI 304)  |              |          |
| 12    | Suction cover                    | EN 1.4301 (AISI 304)  |              |          |
| 21    | Impeller                         | EN 1.4301 (AISI 304)  |              |          |
| 21-1  | Reduced impeller                 | EN 1.4301 (AISI 304)  |              |          |
| 31    | Shaft                            | EN 1.4301 (AISI 304)  |              |          |
| 32-1  | Adjuster key                     | EN 1.4301 (AISI 304)  |              |          |
| 39-1  | Coupling key                     | Carbon Steel  |              |          |
|       | above 37 kW                      |   |              |          |
| 43-1  | Shaft sleeve (mechanical seal)   | EN 1.4301 (AISI 304)  |              |          |
| 43-2  | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)  |              |          |
| 43-3  | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)  |              |          |
| 43-4  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)  |              |          |
| 43-5  | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)  |              |          |
| 43-6  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)  |              |          |
| 44-1  | Shaft sleeve bearing             | Tungsten carbide  |              |          |
| 44-2  | Shaft sleeve (bearing)           | Tungsten carbide  |              |          |
| 46    | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)   |              |          |
| 47    | Ring holder                      | EN 1.4301 (AISI 304)  |              |          |
| 48    | Impeller nut                     | EN 1.4301 (AISI 304) with inox insert                           |              |          |
| 51    | Motor adapter                    | Cast Iron EN GJL250 EN 1561                                     |              |          |
|       | above 37 kW                      |   |              |          |
| 52-1  | Sleeve bearing                   | Tungsten carbide  |              |          |
| 52-2  | Bearing sleeve (bottom casing)   | Tungsten carbide  |              |          |
| 53    | Bush holder                      | EN 1.4301 (AISI 304)  |              |          |
| 56    | Ball bearing                     | see table page 151  |              |          |
|       | above 37 kW                      |   |              |          |
| 70-1  | Ring for ball bearing            | EN 1.4301 (AISI 304)  |              |          |
|       | above 37 kW                      |   |              |          |
| 70-2  | Ring for bearing sleeve          | EN 1.4301 (AISI 304)  |              |          |
| 75    | O-Ring (priming plug)            | EPDM / FPM  | Ø12.37x2.62  | OR 3050  |
| 75-1  | O-Ring (drainage plug)           | EPDM / FPM  |              |          |
| 81    | Bush                             | PTFE  |              |          |
| 107   | Liner ring                       | EN 1.4301 (AISI 304) + PPS                                      |              |          |
| 111-1 | Mechanical seal                  | See pages 6-7   |              |          |
| 111-3 | Mechanical seal seat             | EN 1.4301 (AISI 304)  |              |          |
| 111-4 | Seal holder                      | EN 1.4404 (AISI 316L)   |              |          |
| 111-5 | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)  |              |          |
| 115-1 | O-Ring (outer casing)            | EPDM / FPM  | Ø240.66x5.34 | OR 6945  |
| 115-4 | O-Ring (cartridge sleeve)        | EPDM / FPM  | Ø23.39x3.53  | OR 4093  |
| 115-5 | O-Ring (seal flange)             | EPDM / FPM  | Ø44.04x3.53  | OR 4175  |
| 120-1 | Tie rod                          | EN 1.4057 (AISI 431)  |              |          |
| 120-2 | Tie rod (stage)                  | EN 1.4301 (AISI 304)  |              |          |
| 120-3 | Screw (seal flange)              | A2-70   | M5x12        | ISO 4762 |
| 120-5 | Screw (extension coupling)       | Galvanized steel 8.8 strength class ISO 898/1                   | M10x30       | ISO 4017 |
|       | above 37 kW                      |   |              |          |

### SECTIONAL TABLE EVMSG90

| N°     | PART NAME                   | MATERIAL<br>EVMSG          | DIMENSIONS   | STANDARD                                 |
|--------|-----------------------------|----------------------------|--|--|
| 120-6  | Screw (pump coupling)       | up to 30 kW<br>above 37 kW | Galvanized steel 8.8 strength class ISO 898/1<br>Galvanized steel 8.8 strength class ISO 898/1 | M10x30<br>M12x30<br>ISO 4762             |
| 120-7  | Screw (ball bearing)        | above 37 kW                | Galvanized steel 8.8 strength class ISO 898/1  | M6x10<br>ISO 4017                        |
| 120-8  | Screw (motor adapter)       | above 37 kW                | Galvanized steel 8.8 strength class ISO 898/1  | M10x40<br>ISO 4017                       |
| 120-9  | Screw (bottom casing)       |                            | A2-70  | M5x8<br>ISO 4017                         |
| 120-12 | Screw (shaft)               |                            | A2-70  | M6x16<br>ISO 4762                        |
| 120-13 | Screw for motor             | MEC 160-180<br>MEC 200-225 | Galvanized steel 8.8 strength class ISO 898/1<br>Galvanized steel 8.8 strength class ISO 898/1 | M16x50<br>M16x60<br>ISO 4017<br>ISO 4014 |
| 128-1  | Nut (tie rod)               |                            | A2-70  | M16<br>ISO 4032                          |
| 128-2  | Nut (casing tie rod)        |                            | A2-70  | M5<br>ISO 4032                           |
| 128-3  | Nut (motor)                 | MEC 160-180-200-225        | Galvanized steel   | M16<br>ISO 4032                          |
| 130-1  | Set screw                   |                            | EN 1.4301 (AISI 304)   | M6x8<br>ISO 4026                         |
| 130-2  | Screw for coupling guard    |                            | A2-70  | M5x6<br>UNI 7687                         |
| 130-4  | Set screw (pump coupling)   | above 37 kW                | Galvanized steel   | M10x10<br>ISO 4026                       |
| 131-1  | Pin for shaft               |                            | Carbon Steel   | Ø8X50<br>ISO 2338                        |
| 135-1  | Washer (tie rod)            |                            | EN 1.4301 (AISI 304)   | Ø16<br>ISO 7089                          |
| 135-2  | Washer (casing tie rod)     |                            | EN 1.4301 (AISI 304)   | Ø5.1<br>UNI 1751                         |
| 135-3  | Washer (extension coupling) | above 37 kW                | Galvanized steel   | Ø10.2<br>UNI 1751                        |
| 135-4  | Washer (ball bearing)       | above 37 kW                | Plated carbon steel  | Ø6.1<br>UNI 1751                         |
| 135-5  | Washer (impeller nut)       |                            | EN 1.4301 (AISI 304)   |  |
| 137-1  | Impeller spacer             |                            | EN 1.4301 (AISI 304)   |  |
| 137-2  | Shaft spacer                |                            | EN 1.4301 (AISI 304)   |  |
| 140    | Coupling                    | up to 30 kW                | Cast Iron EN GJL250 EN 1561  |  |
| 140-1  | Extension coupling          | above 37 kW                | Carbon Steel   |  |
| 140-2  | Coupling                    | above 37 kW                | Carbon Steel   |  |
| 150    | Spacer (snap ring)          | above 37 kW                | Carbon Steel   |  |
| 162    | Motor bracket               | up to 30 kW                | Cast Iron EN GJS 400-15 EN 1563  |  |
| 212    | Priming plug                |                            | EN 1.4301 (AISI 304)   |  |
| 212-1  | Drainage plug               |                            | EN 1.4301 (AISI 304)   |  |
| 212-2  | Venting plug                |                            | EN 1.4401 (AISI 316)   |  |
| 212-3  | Priming plug                |                            | EN 1.4301 (AISI 304)   |  |
| 245    | Coupling guard              |                            | EN 1.4301 (AISI 304)   |  |
| 273-1  | Washer (drainage plug)      |                            | EN 1.4301 (AISI 304)   |  |
| 274-2  | C-type snap ring (coupling) | above 37 kW                | Carbon Steel TC80  | Ø75<br>UNI 7435                          |

QUANTITY FOR MODEL  
EVMSG90

| Pump Type        | N° |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |      |    |    |    |    |      |      |    |   |
|------------------|----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|------|----|----|----|----|------|------|----|---|
|                  | 4  | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 39-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 46 | 47 | 48 | 51 | 52-1 | 52-2 | 53 |   |
| EVMSG90 1-1/11   | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | /  | 1    | 1  | 1    | /    | 1    | 1    | /    | 1    | 1    | /    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 1  |   |
| EVMSG90 1-0/15   | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | /    | 1  | 1    | /    | 1    | 1    | /    | 1    | 1    | /    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 1  |   |
| EVMSG90 2-2/18.5 | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | /    | 2  | 1    | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | /    | 1    | 1  | 3 |
| EVMSG90 2-1/22   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 1    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | /    | 1    | 1  | 3 |
| EVMSG90 2-0/30   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | /    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | /    | 1    | 1  | 3 |
| EVMSG90 3-2/37   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 1  | /    | 1    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    | 1  | 3 |
| EVMSG90 3-1/37   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 1    | 1  | /    | 1    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    | 1  | 3 |
| EVMSG90 3-0/37   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | /    | 1  | /    | 1    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    | 1  | 3 |
| EVMSG90 4-2/45   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 2  | 1    | /    | 1    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    | 1  | 4 |

| Pump Type        | N° |      |      |    |      |    |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |       |
|------------------|----|------|------|----|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|
|                  | 56 | 70-1 | 70-2 | 75 | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-5 | 120-6 | 120-7 | 120-8 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 | 130-1 |
| EVMSG90 1-1/11   | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG90 1-0/15   | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG90 2-2/18.5 | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG90 2-1/22   | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG90 2-0/30   | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG90 3-2/37   | 1  | 1    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG90 3-1/37   | 1  | 1    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG90 3-0/37   | 1  | 1    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3     |
| EVMSG90 4-2/45   | 1  | 1    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     | 3     |

| Pump Type        | N°    |       |       |       |       |       |       |       |       |       |     |       |       |     |     |     |       |       |       |     |       |       |  |  |  |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-------|-------|-------|-----|-------|-------|--|--|--|
|                  | 130-2 | 130-4 | 131-1 | 135-1 | 135-2 | 135-3 | 135-4 | 135-5 | 137-1 | 137-2 | 140 | 140-1 | 140-2 | 150 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 | 274-2 |  |  |  |
| EVMSG90 1-1/11   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG90 1-0/15   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG90 2-2/18.5 | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG90 2-1/22   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG90 2-0/30   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG90 3-2/37   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |  |  |
| EVMSG90 3-1/37   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |  |  |
| EVMSG90 3-0/37   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |  |  |
| EVMSG90 4-2/45   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |  |  |

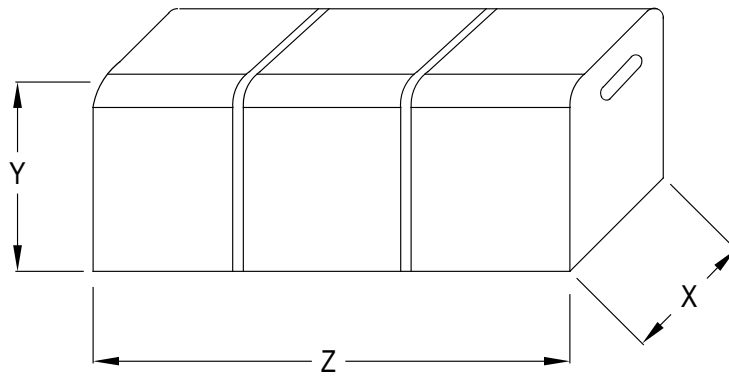


### BEARINGS EVMSG90

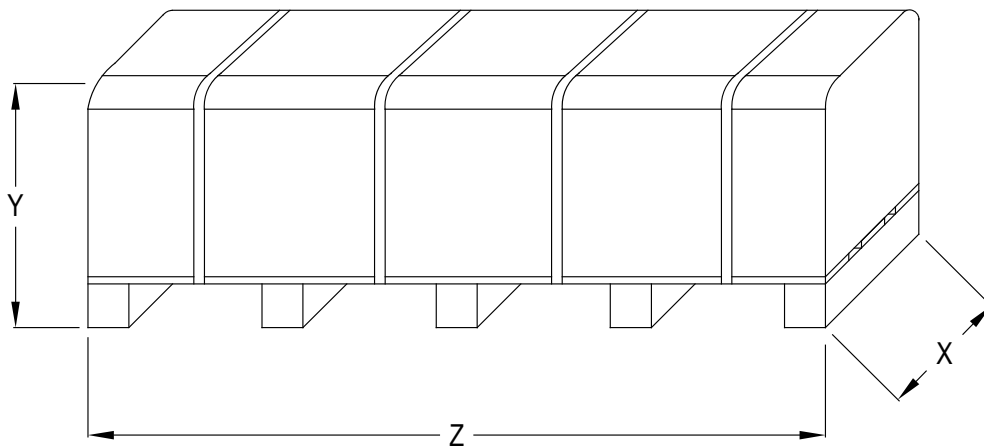
| Pump Type        | N° 56      |
|------------------|------------|
| EVMSG90 1-1/11   | /          |
| EVMSG90 1-0/15   | /          |
| EVMSG90 2-2/18.5 | /          |
| EVMSG90 2-1/22   | /          |
| EVMSG90 2-0/30   | /          |
| EVMSG90 3-2/37   | 6315 ZZ C3 |
| EVMSG90 3-1/37   | 6315 ZZ C3 |
| EVMSG90 3-0/37   | 6315 ZZ C3 |
| EVMSG90 4-2/45   | 6315 ZZ C3 |

PACKING DRAWING  
EVMS(. )1-3-5-10-15-20-32-45-64-90

PACKING DRAWING



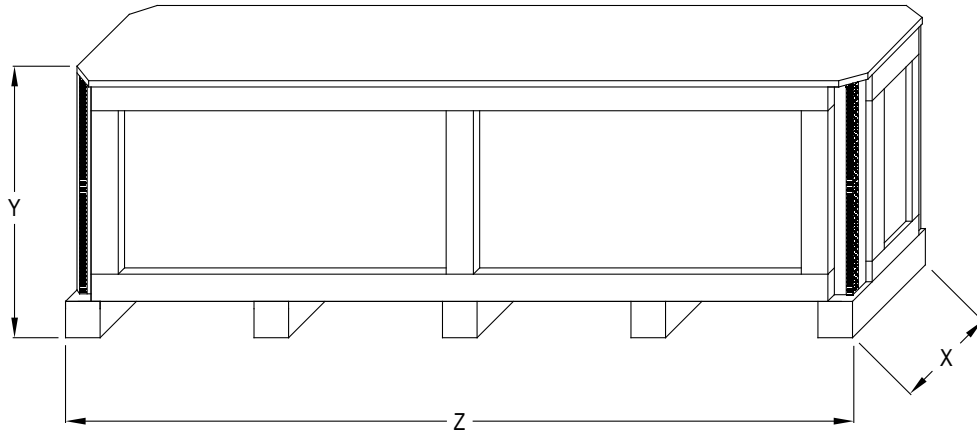
TYPE 1



TYPE 2

### PACKING DRAWING EVMS(. )1-3-5-10-15-20-32-45-64-90

3.1



PACKING DRAWING

PACKING DATA  
EVMS(.)1-3-5

PACKING DATA

| Pump type       | Pumps            |     |      |                         |       |    | Pumps with motor ~3 |     |     |                         |       |    |     |     |   |
|-----------------|------------------|-----|------|-------------------------|-------|----|---------------------|-----|-----|-------------------------|-------|----|-----|-----|---|
|                 | Packing [mm]     |     |      | Weight [kg] + Pack Type |       |    | Packing [mm]        |     |     | Weight [kg] + Pack Type |       |    |     |     |   |
|                 | X                | Y   | Z    | EVMS(L)                 | EVMSG |    | X                   | Y   | Z   | EVMS(L)                 | EVMSG |    |     |     |   |
| 1               | EVMS(.)1 2/0.37  | 385 | 400  | 385                     | 13    | 1  | 20                  | 1   | 385 | 400                     | 585   | 20 | 1   | 26  | 1 |
|                 | EVMS(.)1 3/0.37  | 385 | 400  | 385                     | 13    | 1  | 20                  | 1   | 385 | 400                     | 585   | 21 | 1   | 27  | 1 |
|                 | EVMS(.)1 4/0.37  | 385 | 400  | 385                     | 14    | 1  | 21                  | 1   | 385 | 400                     | 770   | 21 | 1   | 27  | 1 |
|                 | EVMS(.)1 5/0.37  | 385 | 400  | 585                     | 14    | 1  | 21                  | 1   | 385 | 400                     | 770   | 21 | 1   | 27  | 1 |
|                 | EVMS(.)1 6/0.55  | 385 | 400  | 585                     | 15    | 1  | 22                  | 1   | 385 | 400                     | 770   | 22 | 1   | 28  | 1 |
|                 | EVMS(.)1 7/0.55  | 385 | 400  | 585                     | 16    | 1  | 23                  | 1   | 385 | 400                     | 770   | 23 | 1   | 30  | 1 |
|                 | EVMS(.)1 8/0.75  | 385 | 400  | 585                     | 16    | 1  | 23                  | 1   | 385 | 400                     | 770   | 25 | 1   | 32  | 1 |
|                 | EVMS(.)1 9/0.75  | 385 | 400  | 585                     | 17    | 1  | 24                  | 1   | 385 | 400                     | 770   | 26 | 1   | 33  | 1 |
|                 | EVMS(.)1 10/0.75 | 385 | 400  | 585                     | 17    | 1  | 24                  | 1   | 385 | 400                     | 770   | 26 | 1   | 33  | 1 |
|                 | EVMS(.)1 11/1.1  | 385 | 400  | 585                     | 18    | 1  | 25                  | 1   | 400 | 430                     | 1000  | 37 | 2   | 44  | 2 |
|                 | EVMS(.)1 12/1.1  | 385 | 400  | 585                     | 18    | 1  | 25                  | 1   | 400 | 430                     | 1000  | 37 | 2   | 44  | 2 |
|                 | EVMS(.)1 13/1.1  | 385 | 400  | 585                     | 18    | 1  | 25                  | 1   | 400 | 430                     | 1000  | 38 | 2   | 45  | 2 |
|                 | EVMS(.)1 14/1.1  | 385 | 400  | 770                     | 20    | 1  | 26                  | 1   | 400 | 430                     | 1000  | 38 | 2   | 45  | 2 |
|                 | EVMS(.)1 16/1.5  | 385 | 400  | 770                     | 20    | 1  | 26                  | 1   | 400 | 430                     | 1000  | 43 | 2   | 50  | 2 |
|                 | EVMS(.)1 18/1.5  | 385 | 400  | 770                     | 21    | 1  | 28                  | 1   | 400 | 430                     | 1000  | 44 | 2   | 52  | 2 |
|                 | EVMS(.)1 20/1.5  | 385 | 400  | 770                     | 22    | 1  | 30                  | 1   | 400 | 430                     | 1200  | 45 | 2   | 52  | 2 |
|                 | EVMS(.)1 22/2.2  | 385 | 400  | 970                     | 24    | 1  | 30                  | 1   | 400 | 430                     | 1200  | 48 | 2   | 55  | 2 |
|                 | EVMS(.)1 24/2.2  | 385 | 400  | 970                     | 25    | 1  | 31                  | 1   | 400 | 430                     | 1200  | 50 | 2   | 56  | 2 |
| EVMS(.)1 26/2.2 | 385              | 400 | 970  | 26                      | 1     | 32 | 1                   | 400 | 430 | 1200                    | 50    | 2  | 57  | 2   |   |
| EVMS(.)1 27/2.2 | 385              | 400 | 970  | 26                      | 1     | 33 | 1                   | 400 | 430 | 1200                    | 50    | 2  | 57  | 2   |   |
| EVMS(.)1 29/2.2 | 385              | 400 | 970  | 27                      | 1     | 34 | 1                   | 500 | 430 | 1350                    | 58    | 2  | 64  | 2   |   |
| 3               | EVMS(.)3 2/0.37  | 385 | 400  | 385                     | 13    | 1  | 18                  | 1   | 385 | 400                     | 585   | 20 | 1   | 24  | 1 |
|                 | EVMS(.)3 3/0.55  | 385 | 400  | 385                     | 13    | 1  | 18                  | 1   | 385 | 400                     | 585   | 21 | 1   | 25  | 1 |
|                 | EVMS(.)3 4/0.75  | 385 | 400  | 385                     | 14    | 1  | 20                  | 1   | 385 | 400                     | 770   | 23 | 1   | 28  | 1 |
|                 | EVMS(.)3 5/0.75  | 385 | 400  | 585                     | 14    | 1  | 20                  | 1   | 385 | 400                     | 770   | 24 | 1   | 30  | 1 |
|                 | EVMS(.)3 6/1.1   | 385 | 400  | 585                     | 15    | 1  | 21                  | 1   | 385 | 400                     | 770   | 25 | 1   | 31  | 1 |
|                 | EVMS(.)3 7/1.1   | 385 | 400  | 585                     | 15    | 1  | 21                  | 1   | 385 | 400                     | 770   | 26 | 1   | 31  | 1 |
|                 | EVMS(.)3 8/1.5   | 385 | 400  | 585                     | 16    | 1  | 22                  | 1   | 400 | 430                     | 1000  | 40 | 2   | 44  | 2 |
|                 | EVMS(.)3 9/1.5   | 385 | 400  | 585                     | 16    | 1  | 22                  | 1   | 400 | 430                     | 1000  | 40 | 2   | 44  | 2 |
|                 | EVMS(.)3 10/1.5  | 385 | 400  | 585                     | 17    | 1  | 23                  | 1   | 400 | 430                     | 1000  | 40 | 2   | 45  | 2 |
|                 | EVMS(.)3 11/2.2  | 385 | 400  | 585                     | 17    | 1  | 23                  | 1   | 400 | 430                     | 1000  | 42 | 2   | 47  | 2 |
|                 | EVMS(.)3 12/2.2  | 385 | 400  | 585                     | 17    | 1  | 23                  | 1   | 400 | 430                     | 1000  | 42 | 2   | 47  | 2 |
|                 | EVMS(.)3 13/2.2  | 385 | 400  | 770                     | 18    | 1  | 24                  | 1   | 400 | 430                     | 1000  | 43 | 2   | 48  | 2 |
|                 | EVMS(.)3 14/2.2  | 385 | 400  | 770                     | 20    | 1  | 24                  | 1   | 400 | 430                     | 1000  | 43 | 2   | 48  | 2 |
|                 | EVMS(.)3 15/3.0  | 385 | 400  | 770                     | 20    | 1  | 25                  | 1   | 400 | 430                     | 1000  | 52 | 2   | 56  | 2 |
|                 | EVMS(.)3 16/3.0  | 385 | 400  | 770                     | 21    | 1  | 26                  | 1   | 400 | 430                     | 1200  | 52 | 2   | 57  | 2 |
|                 | EVMS(.)3 17/3.0  | 385 | 400  | 770                     | 21    | 1  | 26                  | 1   | 400 | 430                     | 1200  | 52 | 2   | 57  | 2 |
|                 | EVMS(.)3 19/3.0  | 385 | 400  | 770                     | 22    | 1  | 27                  | 1   | 400 | 430                     | 1200  | 53 | 2   | 58  | 2 |
|                 | EVMS(.)3 20/3.0  | 385 | 400  | 770                     | 22    | 1  | 27                  | 1   | 400 | 430                     | 1200  | 53 | 2   | 60  | 2 |
| EVMS(.)3 21/4.0 | 385              | 400 | 770  | 23                      | 1     | 28 | 1                   | 400 | 430 | 1200                    | 60    | 2  | 65  | 2   |   |
| EVMS(.)3 22/4.0 | 385              | 400 | 970  | 24                      | 1     | 30 | 1                   | 400 | 430 | 1200                    | 62    | 2  | 66  | 2   |   |
| EVMS(.)3 23/4.0 | 385              | 400 | 970  | 24                      | 1     | 30 | 1                   | 400 | 430 | 1200                    | 62    | 2  | 66  | 2   |   |
| 5               | EVMS(.)5 2/0.75  | 385 | 400  | 385                     | 13    | 1  | 18                  | 1   | 385 | 400                     | 770   | 23 | 1   | 30  | 1 |
|                 | EVMS(.)5 3/1.1   | 385 | 400  | 585                     | 14    | 1  | 20                  | 1   | 385 | 400                     | 770   | 25 | 1   | 31  | 1 |
|                 | EVMS(.)5 4/1.5   | 385 | 400  | 585                     | 15    | 1  | 20                  | 1   | 385 | 400                     | 770   | 30 | 1   | 34  | 1 |
|                 | EVMS(.)5 5/2.2   | 385 | 400  | 585                     | 16    | 1  | 21                  | 1   | 385 | 400                     | 770   | 32 | 1   | 37  | 1 |
|                 | EVMS(.)5 6/2.2   | 385 | 400  | 585                     | 16    | 1  | 21                  | 1   | 385 | 400                     | 770   | 32 | 1   | 37  | 1 |
|                 | EVMS(.)5 7/3.0   | 385 | 400  | 585                     | 16    | 1  | 22                  | 1   | 400 | 430                     | 1000  | 48 | 2   | 53  | 2 |
|                 | EVMS(.)5 8/3.0   | 385 | 400  | 585                     | 18    | 1  | 23                  | 1   | 400 | 430                     | 1000  | 48 | 2   | 53  | 2 |
|                 | EVMS(.)5 9/3.0   | 385 | 400  | 585                     | 18    | 1  | 23                  | 1   | 400 | 430                     | 1000  | 50 | 2   | 54  | 2 |
|                 | EVMS(.)5 10/4.0  | 385 | 400  | 770                     | 20    | 1  | 24                  | 1   | 400 | 430                     | 1000  | 56 | 2   | 61  | 2 |
|                 | EVMS(.)5 11/4.0  | 385 | 400  | 770                     | 20    | 1  | 25                  | 1   | 400 | 430                     | 1000  | 56 | 2   | 61  | 2 |
|                 | EVMS(.)5 12/4.0  | 385 | 400  | 770                     | 21    | 1  | 25                  | 1   | 400 | 430                     | 1200  | 57 | 2   | 63  | 2 |
|                 | EVMS(.)5 13/5.5  | 385 | 400  | 970                     | 28    | 1  | 32                  | 1   | 400 | 430                     | 1200  | 75 | 2   | 80  | 2 |
|                 | EVMS(.)5 14/5.5  | 385 | 400  | 970                     | 28    | 1  | 32                  | 1   | 400 | 430                     | 1200  | 75 | 2   | 80  | 2 |
|                 | EVMS(.)5 15/5.5  | 385 | 400  | 970                     | 28    | 1  | 33                  | 1   | 500 | 430                     | 1350  | 82 | 2   | 88  | 2 |
|                 | EVMS(.)5 16/5.5  | 385 | 400  | 970                     | 30    | 1  | 34                  | 1   | 500 | 430                     | 1540  | 96 | 2   | 101 | 2 |
| EVMS(.)5 17/7.5 | 400              | 430 | 1000 | 38                      | 2     | 43 | 2                   | 500 | 430 | 1540                    | 103   | 2  | 108 | 2   |   |
| EVMS(.)5 19/7.5 | 400              | 430 | 1000 | 40                      | 2     | 44 | 2                   | 500 | 430 | 1540                    | 104   | 2  | 109 | 2   |   |

### PACKING DATA EVMS(.)10-15-20

| Pump type         | Pumps              |     |      |                         |    |       |    | Pumps with motor ~3 |     |      |                         |     |       |     |   |
|-------------------|--------------------|-----|------|-------------------------|----|-------|----|---------------------|-----|------|-------------------------|-----|-------|-----|---|
|                   | Packing [mm]       |     |      | Weight [kg] + Pack Type |    |       |    | Packing [mm]        |     |      | Weight [kg] + Pack Type |     |       |     |   |
|                   | X                  | Y   | Z    | EVMS(L)                 |    | EVMSG |    | X                   | Y   | Z    | EVMS(L)                 |     | EVMSG |     |   |
| 10                | EVMS(.)10 1/0,75   | 385 | 400  | 585                     | 23 | 1     | 27 | 1                   | 400 | 430  | 800                     | 42  | 2     | 45  | 2 |
|                   | EVMS(.)10 2/1,5    | 385 | 400  | 585                     | 23 | 1     | 27 | 1                   | 400 | 430  | 800                     | 46  | 2     | 50  | 2 |
|                   | EVMS(.)10 3/2,2    | 385 | 400  | 585                     | 24 | 1     | 28 | 1                   | 400 | 430  | 800                     | 50  | 2     | 52  | 2 |
|                   | EVMS(.)10 4/3,0    | 385 | 400  | 585                     | 25 | 1     | 30 | 1                   | 400 | 430  | 1000                    | 57  | 2     | 60  | 2 |
|                   | EVMS(.)10 5/4,0    | 385 | 400  | 585                     | 26 | 1     | 31 | 1                   | 400 | 430  | 1000                    | 64  | 2     | 68  | 2 |
|                   | EVMS(.)10 6/4,0    | 385 | 400  | 585                     | 27 | 1     | 32 | 1                   | 400 | 430  | 1000                    | 65  | 2     | 68  | 2 |
|                   | EVMS(.)10 7/5,5    | 400 | 430  | 800                     | 44 | 2     | 48 | 2                   | 400 | 430  | 1200                    | 83  | 2     | 87  | 2 |
|                   | EVMS(.)10 8/5,5    | 400 | 430  | 800                     | 46 | 2     | 50 | 2                   | 400 | 430  | 1200                    | 85  | 2     | 88  | 2 |
|                   | EVMS(.)10 9/5,5    | 400 | 430  | 800                     | 46 | 2     | 50 | 2                   | 400 | 430  | 1200                    | 85  | 2     | 90  | 2 |
|                   | EVMS(.)10 10/7,5   | 400 | 430  | 800                     | 47 | 2     | 52 | 2                   | 400 | 430  | 1200                    | 93  | 2     | 97  | 2 |
|                   | EVMS(.)10 11/7,5   | 400 | 430  | 1000                    | 50 | 2     | 52 | 2                   | 400 | 430  | 1200                    | 95  | 2     | 98  | 2 |
|                   | EVMS(.)10 12/7,5   | 400 | 430  | 1000                    | 50 | 2     | 53 | 2                   | 500 | 430  | 1540                    | 115 | 2     | 118 | 2 |
|                   | EVMS(.)10 14/11    | 400 | 430  | 1000                    | 60 | 2     | 63 | 2                   | 500 | 430  | 1540                    | 141 | 2     | 144 | 2 |
| EVMS(.)10 15/11   | 400                | 430 | 1000 | 62                      | 2  | 64    | 2  | 500                 | 430 | 1540 | 141                     | 2   | 144   | 2   |   |
| EVMS(.)10 16/11   | 400                | 430 | 1000 | 62                      | 2  | 65    | 2  | 500                 | 430 | 1540 | 143                     | 2   | 147   | 2   |   |
| 15                | EVMS(.)15 1/1,5    | 385 | 400  | 585                     | 22 | 1     | 30 | 1                   | 400 | 430  | 800                     | 43  | 2     | 52  | 2 |
|                   | EVMS(.)15 2/3,0    | 385 | 400  | 585                     | 23 | 1     | 31 | 1                   | 400 | 430  | 1000                    | 53  | 2     | 62  | 2 |
|                   | EVMS(.)15 3/5,5    | 400 | 430  | 800                     | 40 | 2     | 47 | 2                   | 400 | 430  | 1000                    | 78  | 2     | 87  | 2 |
|                   | EVMS(.)15 4/7,5    | 400 | 430  | 800                     | 42 | 2     | 50 | 2                   | 400 | 430  | 1000                    | 87  | 2     | 95  | 2 |
|                   | EVMS(.)15 5/7,5    | 400 | 430  | 800                     | 42 | 2     | 50 | 2                   | 400 | 430  | 1200                    | 88  | 2     | 96  | 2 |
|                   | EVMS(.)15 6/11     | 400 | 430  | 800                     | 42 | 2     | 60 | 2                   | 500 | 430  | 1540                    | 133 | 2     | 141 | 2 |
|                   | EVMS(.)15 7/11     | 400 | 430  | 1000                    | 53 | 2     | 62 | 2                   | 500 | 430  | 1540                    | 135 | 2     | 145 | 2 |
|                   | EVMS(.)15 8/15     | 400 | 430  | 1000                    | 55 | 2     | 63 | 2                   | 500 | 430  | 1540                    | 163 | 2     | 171 | 2 |
|                   | EVMS(.)15 9/15     | 400 | 430  | 1000                    | 56 | 2     | 64 | 2                   | 500 | 430  | 1540                    | 164 | 2     | 174 | 2 |
|                   | EVMS(.)15 10 /15   | 400 | 430  | 1000                    | 57 | 2     | 65 | 2                   | 500 | 430  | 1540                    | 165 | 2     | 174 | 2 |
| EVMS(.)15 11/18,5 | 400                | 430 | 1000 | 60                      | 2  | 67    | 2  | 500                 | 430 | 1540 | 182                     | 2   | 191   | 2   |   |
| EVMS(.)15 12/18,5 | 400                | 430 | 1000 | 60                      | 2  | 68    | 2  | 500                 | 430 | 1540 | 183                     | 2   | 191   | 2   |   |
| 20                | EVMS(.)20 1/2,2    | 385 | 400  | 585                     | 21 | 1     | 30 | 1                   | 400 | 430  | 800                     | 46  | 2     | 54  | 2 |
|                   | EVMS(.)20 2/4,0    | 385 | 400  | 585                     | 22 | 1     | 31 | 1                   | 400 | 430  | 1000                    | 60  | 2     | 68  | 2 |
|                   | EVMS(.)20 3/7,5    | 400 | 430  | 800                     | 40 | 2     | 48 | 2                   | 400 | 430  | 1200                    | 86  | 2     | 94  | 2 |
|                   | EVMS(.)20 4/7,5    | 400 | 430  | 800                     | 41 | 2     | 50 | 2                   | 400 | 430  | 1200                    | 87  | 2     | 95  | 2 |
|                   | EVMS(.)20 5/11     | 400 | 430  | 800                     | 50 | 2     | 58 | 2                   | 500 | 430  | 1540                    | 132 | 2     | 140 | 2 |
|                   | EVMS(.)20 6/11     | 400 | 430  | 1000                    | 50 | 2     | 58 | 2                   | 500 | 430  | 1540                    | 132 | 2     | 140 | 2 |
|                   | EVMS(.)20 7/15     | 400 | 430  | 1000                    | 53 | 2     | 62 | 2                   | 500 | 430  | 1540                    | 161 | 2     | 170 | 2 |
|                   | EVMS(.)20 8/15     | 400 | 430  | 1000                    | 55 | 2     | 63 | 2                   | 500 | 430  | 1540                    | 163 | 2     | 171 | 2 |
|                   | EVMS(.)20 9/18,5   | 400 | 430  | 1000                    | 56 | 2     | 64 | 2                   | 500 | 430  | 1540                    | 180 | 2     | 187 | 2 |
|                   | EVMS(.)20 10 /18,5 | 400 | 430  | 1000                    | 57 | 2     | 65 | 2                   | 500 | 430  | 1540                    | 181 | 2     | 190 | 2 |

### PACKING DATA EVMS(.)32-45

| Pump type         | Pumps              |     |      |                         |       |       |       |     | Pumps with motor ~3 |      |       |                         |       |       |   |
|-------------------|--------------------|-----|------|-------------------------|-------|-------|-------|-----|---------------------|------|-------|-------------------------|-------|-------|---|
|                   | Packing [mm]       |     |      | Weight [kg] + Pack Type |       |       |       |     | Packing [mm]        |      |       | Weight [kg] + Pack Type |       |       |   |
|                   | X                  | Y   | Z    | EVMS(L)                 |       | EVMSG |       |     | X                   | Y    | Z     | EVMS(L)                 |       | EVMSG |   |
| 32                | EVMS(.)32 1-1/3.0  | 420 | 512  | 800                     | 59    | 2     | 55.6  | 2   | 500                 | 612  | 1000  | 86.9                    | 2     | 83.5  | 2 |
|                   | EVMS(.)32 1-0/3.0  | 420 | 512  | 800                     | 59    | 2     | 55.6  | 2   | 500                 | 612  | 1000  | 86.9                    | 2     | 83.5  | 2 |
|                   | EVMS(.)32 2-2/5.5  | 420 | 512  | 800                     | 73.1  | 2     | 69.6  | 2   | 500                 | 612  | 1200  | 120                     | 2     | 116.5 | 2 |
|                   | EVMS(.)32 2-1/5.5  | 420 | 512  | 800                     | 73.1  | 2     | 69.6  | 2   | 500                 | 612  | 1200  | 120                     | 2     | 116.5 | 2 |
|                   | EVMS(.)32 2-0/7.5  | 420 | 512  | 800                     | 73.1  | 2     | 69.6  | 2   | 500                 | 612  | 1200  | 127                     | 2     | 123.5 | 2 |
|                   | EVMS(.)32 3-2/11   | 500 | 612  | 1000                    | 88.4  | 2     | 84.9  | 2   | 500                 | 612  | 1350  | 162                     | 2     | 158.5 | 2 |
|                   | EVMS(.)32 3-0/11   | 500 | 612  | 1000                    | 88.4  | 2     | 84.9  | 2   | 500                 | 612  | 1350  | 162                     | 2     | 158.5 | 2 |
|                   | EVMS(.)32 4-2/11   | 500 | 612  | 1000                    | 91.6  | 2     | 88.2  | 2   | 500                 | 612  | 1350  | 165.2                   | 2     | 161.8 | 2 |
|                   | EVMS(.)32 4-0/15   | 500 | 612  | 1000                    | 80.6  | 2     | 77.2  | 2   | 500                 | 617  | 1540  | 194.7                   | 2     | 191.3 | 2 |
|                   | EVMS(.)32 5-2/15   | 500 | 612  | 1000                    | 83.9  | 2     | 80.5  | 2   | 500                 | 617  | 1540  | 198                     | 2     | 194.6 | 2 |
|                   | EVMS(.)32 5-0/15   | 500 | 612  | 1000                    | 83.9  | 2     | 80.5  | 2   | 500                 | 617  | 1540  | 198                     | 2     | 194.6 | 2 |
|                   | EVMS(.)32 6-2/18.5 | 500 | 612  | 1200                    | 93    | 2     | 89.6  | 2   | 500                 | 617  | 1540  | 213.3                   | 2     | 209.9 | 2 |
|                   | EVMS(.)32 6-0/18.5 | 500 | 612  | 1200                    | 93    | 2     | 89.6  | 2   | 500                 | 617  | 1540  | 213.3                   | 2     | 209.9 | 2 |
|                   | EVMS(.)32 7-2/22   | 500 | 612  | 1200                    | 93    | 2     | 89.9  | 2   | 610                 | 617  | 1750  | 247.5                   | 2     | 244.1 | 2 |
|                   | EVMS(.)32 7-0/22   | 500 | 612  | 1200                    | 93    | 2     | 89.9  | 2   | 610                 | 617  | 1750  | 247.5                   | 2     | 244.1 | 2 |
|                   | EVMS(.)32 8-2/22   | 500 | 612  | 1200                    | 98.3  | 2     | 94.8  | 2   | 610                 | 617  | 1750  | 252.5                   | 2     | 249   | 2 |
|                   | EVMS(.)32 8-0/30   | 500 | 612  | 1200                    | 90.6  | 2     | 87.2  | 2   | 610                 | 617  | 1750  | 277.8                   | 2     | 274.4 | 2 |
|                   | EVMS(.)32 9-2/30   | 500 | 612  | 1350                    | 94.1  | 2     | 99.2  | 2   | 720                 | 715  | 1970  | 312.5                   | 3     | 309.1 | 3 |
| EVMS(.)32 9-0/30  | 500                | 612 | 1350 | 94.1                    | 2     | 99.2  | 2     | 720 | 715                 | 1970 | 312.5 | 3                       | 309.1 | 3     |   |
| EVMS(.)32 10-0/30 | 500                | 612 | 1350 | 97.5                    | 2     | 102.6 | 2     | 720 | 715                 | 1970 | 315.9 | 3                       | 312.5 | 3     |   |
| 45                | EVMS(.)45 1-1/5.5  | 420 | 512  | 800                     | 86    | 2     | 80.8  | 2   | 500                 | 612  | 1200  | 132.9                   | 2     | 127.7 | 2 |
|                   | EVMS(.)45 1-0/7.5  | 420 | 512  | 800                     | 86    | 2     | 80.8  | 2   | 500                 | 612  | 1200  | 139.9                   | 2     | 134.7 | 2 |
|                   | EVMS(.)45 2-2/11   | 500 | 612  | 1000                    | 103.6 | 2     | 98.4  | 2   | 500                 | 612  | 1350  | 177.2                   | 2     | 172   | 2 |
|                   | EVMS(.)45 2-1/11   | 500 | 612  | 1000                    | 103.6 | 2     | 98.5  | 2   | 500                 | 612  | 1350  | 177.2                   | 2     | 172.1 | 2 |
|                   | EVMS(.)45 2-0/15   | 500 | 612  | 1000                    | 92.6  | 2     | 87.5  | 2   | 500                 | 612  | 1350  | 204.7                   | 2     | 199.6 | 2 |
|                   | EVMS(.)45 3-2/15   | 500 | 612  | 1000                    | 97.6  | 2     | 92.5  | 2   | 500                 | 612  | 1540  | 211.7                   | 2     | 206.6 | 2 |
|                   | EVMS(.)45 3-1/18.5 | 500 | 612  | 1000                    | 101.8 | 2     | 96.7  | 2   | 500                 | 612  | 1540  | 223.9                   | 2     | 218.8 | 2 |
|                   | EVMS(.)45 3-0/18.5 | 500 | 612  | 1000                    | 101.8 | 2     | 96.7  | 2   | 500                 | 612  | 1540  | 223.9                   | 2     | 218.8 | 2 |
|                   | EVMS(.)45 4-2/22   | 500 | 612  | 1000                    | 103.9 | 2     | 98.8  | 2   | 500                 | 612  | 1540  | 252                     | 2     | 246.9 | 2 |
|                   | EVMS(.)45 4-1/30   | 500 | 612  | 1000                    | 96.2  | 2     | 91.1  | 2   | 500                 | 612  | 1540  | 277.3                   | 2     | 272.2 | 2 |
|                   | EVMS(.)45 4-0/30   | 500 | 612  | 1000                    | 96.2  | 2     | 91.1  | 2   | 500                 | 612  | 1540  | 277.3                   | 2     | 272.2 | 2 |
|                   | EVMS(.)45 5-2/30   | 500 | 612  | 1200                    | 103.3 | 2     | 98.2  | 2   | 610                 | 617  | 1750  | 290.5                   | 2     | 285.4 | 2 |
|                   | EVMS(.)45 5-1/30   | 500 | 612  | 1200                    | 103.3 | 2     | 98.2  | 2   | 610                 | 617  | 1750  | 290.5                   | 2     | 285.4 | 2 |
|                   | EVMS(.)45 5-0/37   | 500 | 612  | 1200                    | 133.3 | 2     | 128.2 | 2   | 720                 | 715  | 1970  | 443.7                   | 3     | 438.6 | 3 |
|                   | EVMS(.)45 6-2/37   | 500 | 612  | 1200                    | 140.1 | 2     | 135   | 2   | 720                 | 715  | 1970  | 450.5                   | 3     | 445.4 | 3 |
|                   | EVMS(.)45 6-1/37   | 500 | 612  | 1200                    | 140.1 | 2     | 135   | 2   | 720                 | 715  | 1970  | 450.5                   | 3     | 445.4 | 3 |
|                   | EVMS(.)45 6-0/37   | 500 | 612  | 1200                    | 140.1 | 2     | 135   | 2   | 720                 | 715  | 1970  | 450.5                   | 3     | 445.4 | 3 |
|                   | EVMS(.)45 7-2/45   | 500 | 612  | 1200                    | 156.9 | 2     | 151.8 | 2   | 720                 | 715  | 2170  | 587.3                   | 3     | 582.2 | 3 |
| EVMS(.)45 7-1/45  | 500                | 612 | 1200 | 156.9                   | 2     | 151.8 | 2     | 720 | 715                 | 2170 | 587.3 | 3                       | 582.2 | 3     |   |
| EVMS(.)45 7-0/45  | 500                | 612 | 1200 | 156.9                   | 2     | 151.8 | 2     | 720 | 715                 | 2170 | 587.3 | 3                       | 582.2 | 3     |   |

### PACKING DATA EVMS(.)64-90

| Pump type        | Pumps              |     |      |                         |       |       |       | Pumps with motor ~3 |     |      |                         |       |       |       |   |
|------------------|--------------------|-----|------|-------------------------|-------|-------|-------|---------------------|-----|------|-------------------------|-------|-------|-------|---|
|                  | Packing [mm]       |     |      | Weight [kg] + Pack Type |       |       |       | Packing [mm]        |     |      | Weight [kg] + Pack Type |       |       |       |   |
|                  | X                  | Y   | Z    | EVMS(L)                 |       | EVMSG |       | X                   | Y   | Z    | EVMS(L)                 |       | EVMSG |       |   |
| 64               | EVMS(.)64 1-1/7,5  | 420 | 512  | 800                     | 87.7  | 2     | 85    | 2                   | 500 | 612  | 1200                    | 141.6 | 2     | 138.9 | 2 |
|                  | EVMS(.)64 1-0/11   | 420 | 512  | 800                     | 94.8  | 2     | 92.1  | 2                   | 500 | 612  | 1200                    | 165.2 | 2     | 162.5 | 2 |
|                  | EVMS(.)64 2-2/15   | 420 | 512  | 800                     | 88.9  | 2     | 86.3  | 2                   | 500 | 612  | 1350                    | 206.5 | 2     | 203.9 | 2 |
|                  | EVMS(.)64 2-1/18,5 | 420 | 512  | 800                     | 93    | 2     | 90.5  | 2                   | 500 | 612  | 1350                    | 218.6 | 2     | 216.1 | 2 |
|                  | EVMS(.)64 2-0/18,5 | 420 | 512  | 800                     | 93    | 2     | 90.5  | 2                   | 500 | 612  | 1350                    | 218.6 | 2     | 216.1 | 2 |
|                  | EVMS(.)64 3-2/22   | 500 | 612  | 1000                    | 100.6 | 2     | 98.2  | 2                   | 500 | 617  | 1540                    | 248.7 | 2     | 246.3 | 2 |
|                  | EVMS(.)64 3-1/30   | 500 | 612  | 1000                    | 93    | 2     | 90.6  | 2                   | 500 | 617  | 1540                    | 274.1 | 2     | 271.7 | 2 |
|                  | EVMS(.)64 3-0/30   | 500 | 612  | 1000                    | 93    | 2     | 90.6  | 2                   | 500 | 617  | 1540                    | 274.1 | 2     | 271.7 | 2 |
|                  | EVMS(.)64 4-2/37   | 500 | 612  | 1000                    | 138   | 2     | 137.3 | 2                   | 720 | 715  | 1970                    | 450.2 | 3     | 449.5 | 3 |
|                  | EVMS(.)64 4-1/37   | 500 | 612  | 1000                    | 138   | 2     | 137.3 | 2                   | 720 | 715  | 1970                    | 450.2 | 3     | 449.5 | 3 |
|                  | EVMS(.)64 4-0/37   | 500 | 612  | 1000                    | 138   | 2     | 137.3 | 2                   | 720 | 715  | 1970                    | 450.2 | 3     | 449.5 | 3 |
|                  | EVMS(.)64 5-2/45   | 500 | 612  | 1200                    | 156.4 | 2     | 155.9 | 2                   | 720 | 715  | 1970                    | 580.8 | 3     | 580.3 | 3 |
| EVMS(.)64 5-1/45 | 500                | 612 | 1200 | 156.4                   | 2     | 155.9 | 2     | 720                 | 715 | 1970 | 580.8                   | 3     | 580.3 | 3     |   |
| EVMS(.)64 5-0/45 | 500                | 612 | 1200 | 156.4                   | 2     | 155.9 | 2     | 720                 | 715 | 1970 | 580.8                   | 3     | 580.3 | 3     |   |
| 90               | EVMS(.)90 1-1/11   | 420 | 512  | 800                     | 95    | 2     | 92.2  | 2                   | 500 | 612  | 1200                    | 165.4 | 2     | 162.6 | 2 |
|                  | EVMS(.)90 1-0/15   | 420 | 512  | 800                     | 84.1  | 2     | 81.2  | 2                   | 500 | 612  | 1350                    | 201.7 | 2     | 198.8 | 2 |
|                  | EVMS(.)90 2-2/18,5 | 500 | 612  | 1000                    | 102   | 2     | 99.2  | 2                   | 500 | 612  | 1350                    | 222.1 | 2     | 219.3 | 2 |
|                  | EVMS(.)90 2-1/22   | 500 | 612  | 1000                    | 99    | 2     | 96.2  | 2                   | 500 | 617  | 1540                    | 247.1 | 2     | 244.3 | 2 |
|                  | EVMS(.)90 2-0/30   | 500 | 612  | 1000                    | 91.4  | 2     | 88.5  | 2                   | 500 | 617  | 1540                    | 272.5 | 2     | 269.6 | 2 |
|                  | EVMS(.)90 3-2/37   | 500 | 612  | 1000                    | 123.8 | 2     | 120.9 | 2                   | 720 | 715  | 1970                    | 436   | 3     | 433.1 | 3 |
|                  | EVMS(.)90 3-1/37   | 500 | 612  | 1000                    | 123.8 | 2     | 120.9 | 2                   | 720 | 715  | 1970                    | 436   | 3     | 433.1 | 3 |
|                  | EVMS(.)90 3-0/37   | 500 | 612  | 1000                    | 123.8 | 2     | 120.9 | 2                   | 720 | 715  | 1970                    | 436   | 3     | 433.1 | 3 |
| EVMS(.)90 4-2/45 | 500                | 612 | 1200 | 146.1                   | 2     | 139.9 | 2     | 720                 | 715 | 1970 | 570.5                   | 3     | 564.3 | 3     |   |

## GENERAL

Various regulatory authorities in many countries have introduced or are planning legislation to encourage the manufacture and use of higher efficiency motors, as part of a concerted effort worldwide to reduce energy consumption. Indeed, the International Electrotechnical Commission (IEC) has introduced a new standards relating to energy efficient motors. **IEC 60034-30** defines new efficiency classes for motors and harmonizes the currently different requirements for induction motor efficiency levels around the world.

|              |                          | MOTOR  |                                   |
|--------------|--------------------------|--|-----------------------------------|
| Power Source | Frequency                | 60 Hz  |                                   |
|              | Phase                    | Three Phase  |                                   |
|              | Power rating             | 0.37 ÷ 4.0 kW<br>0.5 ÷ 5.5 HP  | 5.5 ÷ 45 kW<br>7.5 ÷ 60 HP        |
|              | Voltage                  | 460V ± 10%<br>220/380V +10% / -5%  | 460V ± 10%<br>380/660V +10% / -5% |
| Type         | Type                     | IC411 - TEFC   |                                   |
|              | Efficiency Level         | IE2 : from 0.37 kW up to 0.55 kW<br>IE3 : for 0.75 kW and from 4.0 kW up to 11 kW<br>IE3* : from 1.1 kW up to 3.0 kW and above 15 kW |                                   |
|              | No° of poles             | 2  |                                   |
|              | Protection degree        | IP55 : up to 11 kW<br>IP56 : above 15 kW   |                                   |
|              | Insulation Class         | F (temperature rise class B)   |                                   |
| Others       | Thermal Protection       | PTC sensor pre-installed for motors of 1.5 kW and above  |                                   |
|              | Casing Material          | Aluminium : up to 30 KW<br>Cast Iron : above 37 KW   |                                   |
|              | Flange mount (IEC motor) | IM B14 : up to 4.0 kW  | IM B5 : above 5.5 kW              |
|              | Terminal Box fixing      | Unlosable screw and sealing from 0.75 kW to 45 kW  |                                   |

\* : only for 460V

## NOISE DATA

| Motor Size | Power |      | Noise<br>LpA - dB(A) * |
|------------|-------|------|------------------------|
|            | [kW]  | [HP] |                        |
| 71         | 0,4   | 0,5  | 57                     |
|            | 0,6   | 0,8  |                        |
| 80         | 0,8   | 1    | 57                     |
|            | 1,1   | 1,5  |                        |
| 90         | 1,5   | 2    | 65                     |
|            | 2,2   | 3    |                        |
| 100        | 3,0   | 4    | 67                     |
| 112        | 4,0   | 5,5  | 71                     |
| 132        | 5,5   | 7,5  | 73                     |
|            | 7,5   | 10   |                        |
| 160        | 11    | 15   | 78                     |
| 160        | 15    | 20   | 75                     |
|            | 18,5  | 25   |                        |
| 180        | 22    | 30   | 74                     |
| 200        | 30    | 40   | 75                     |
|            | 37    | 50   | 77                     |
| 225        | 45    | 60   | 79                     |

\* Noise values were measured with a tolerance of ± 2.5 dB (A).



### TECHNICAL MOTOR DATA EVMS 1-3-5-10-15-20-32-45-64-90

#### Three Phase Motor at 60Hz, 2 poles

| Motor Size | Power |      | Efficiency | Load efficiency and power-factor (460V) |            |      |               | Input [kW] | Full load current [A] |      |      |      | Locked rotor current [A] |       |       |       |
|------------|-------|------|------------|---|------------|------|---------------|------------|-----------------------|------|------|------|--------------------------|-------|-------|-------|
|            | [kW]  | [HP] |            | 50%                                     | η %<br>75% | 100% | cos-φ<br>100% |            | 220V                  | 380V | 460V | 660V | 220V                     | 380V  | 460V  | 660V  |
| 71         | 0.37  | 0.5  | IE2        | 58.0                                    | 63.4       | 67.2 | 0.8           | 0.55       | 1.7                   | 1.0  | 0.9  | -    | 8.0                      | 4.6   | 5.6   | -     |
|            | 0.55  | 0.75 | IE2        | 72.2                                    | 76.7       | 77.9 | 0.8           | 0.71       | 2.1                   | 1.2  | 1.2  | -    | 12.4                     | 7.2   | 8.7   | -     |
| 80         | 0.75  | 1    | IE3        | 77.4                                    | 81.9       | 83.1 | 0.7           | 0.90       | 2.8                   | 1.6  | 1.5  | -    | 16.9                     | 9.7   | 11.8  | -     |
|            | 1.1   | 1.5  | IE3*       | 82.4                                    | 84.2       | 84.5 | 0.8           | 1.30       | 4.0                   | 2.3  | 2.2  | -    | 24.6                     | 14.2  | 17.2  | -     |
| 90         | 1.5   | 2    | IE3*       | 83.2                                    | 84.7       | 85.7 | 0.8           | 1.75       | 5.3                   | 3.1  | 2.9  | -    | 36.3                     | 21.0  | 25.4  | -     |
|            | 2.2   | 3    | IE3*       | 86.9                                    | 87.8       | 87.4 | 0.8           | 2.52       | 7.5                   | 4.3  | 4.1  | -    | 51.5                     | 29.7  | 36.0  | -     |
| 100        | 3.0   | 4    | IE3*       | 87.0                                    | 87.9       | 88.5 | 0.8           | 3.39       | 10.2                  | 5.9  | 5.6  | -    | 72.4                     | 41.8  | 50.6  | -     |
| 112        | 4.0   | 5.5  | IE3        | 88.7                                    | 88.9       | 88.5 | 0.8           | 4.52       | 13.5                  | 7.8  | 7.6  | -    | 107.1                    | 61.8  | 74.9  | -     |
| 132        | 5.5   | 7.5  | IE3        | 88.7                                    | 90.5       | 91.0 | 0.9           | 6.04       | -                     | 10.1 | 8.9  | 5.8  | -                        | 94.5  | 114.3 | 66.0  |
|            | 7.5   | 10   | IE3        | 88.1                                    | 90.3       | 90.8 | 0.9           | 8.26       | -                     | 13.6 | 11.9 | 7.8  | -                        | 118.0 | 143.0 | 82.6  |
| 160        | 11    | 15   | IE3        | 88.9                                    | 91.4       | 91.3 | 0.8           | 12.05      | -                     | 20.3 | 18.5 | 11.7 | -                        | 153.0 | 185.0 | 106.8 |
| 160        | 15    | 20   | IE3*       | 90.7                                    | 91.2       | 91   | 0.9           | 16.48      | -                     | 27.5 | 23.2 | 15.9 | -                        | 176   | 213   | 102   |
| 160        | 18.5  | 25   | IE3*       | 90.4                                    | 91.3       | 91.7 | 0.9           | 20.17      | -                     | 33.7 | 28.7 | 19.4 | -                        | 251   | 304   | 145   |
| 180        | 22    | 30   | IE3*       | 91.5                                    | 91.9       | 91.7 | 0.9           | 24.00      | -                     | 39.6 | 33.8 | 22.9 | -                        | 270   | 327   | 156   |
| 200        | 30    | 40   | IE3*       | 92                                      | 92.4       | 92.4 | 0.9           | 32.47      | -                     | 53.1 | 44.8 | 30.6 | -                        | 352   | 426   | 203   |
| 200        | 37    | 50   | IE3*       | 91                                      | 92.5       | 93   | 0.9           | 39.78      | -                     | 66.8 | 56.1 | 38.6 | -                        | 440   | 533   | 254   |
| 225        | 45    | 60   | IE3*       | 92                                      | 93.1       | 93.6 | 0.9           | 48.08      | -                     | 79.9 | 67.0 | 46.1 | -                        | 470   | 570   | 272   |

♦ MOTOR DATA ETM

\* ONLY FOR 460V

60 Hz

## VERTICAL MULTISTAGE PUMPS

NOTE

---

**VERTICAL MULTISTAGE PUMPS**

---

**60 Hz**

NOTE

60 Hz

## VERTICAL MULTISTAGE PUMPS

NOTE





**EBARA Pumps Europe S.p.A.**

Via Torri di Confine 2/1 int. C  
36053 Gambellara (Vicenza), Italy  
Tel. +39 0444 706811  
Fax +39 0444 405811  
ebara\_pumps@ebaraeurope.com  
www.ebaraeurope.com

**EBARA Corporation**

11-1, Haneda Asahi-cho, Ohta-ku,  
Tokyo 144-8510  
Japan  
Tel +81 3 6275 7598  
Fax +81 3 5736 3193  
www.ebara.com

