



**EBARA**

|   | <b>Page</b>    |
|---|----------------|
| <b>- SPECIFICATIONS</b>                                   | <b>200-201</b> |
| SELECTION CHART   | 202÷204        |
| TYPE KEY AND CURVE SPECIFICATIONS                         | 205÷207        |
| PERFORMANCE CURVE EVM(.) 3                                | 208÷211        |
| PERFORMANCE CURVE EVM(.) 5                                | 212÷216        |
| PERFORMANCE CURVE EVM(.) 10                               | 217÷220        |
| PERFORMANCE CURVE EVM(.) 18                               | 221÷224        |
| PERFORMANCE CURVE EVM(.) 32                               | 225÷231        |
| PERFORMANCE CURVE EVM(.) 45                               | 232÷236        |
| PERFORMANCE CURVE EVM(.) 64                               | 237÷243        |
| <br>  |                |
| <b>- CONSTRUCTION</b>                                     | <b>300</b>     |
| SECTIONAL VIEW DRAWING EVM(.) 3 without ball bearing      | 300            |
| SECTIONAL VIEW DRAWING EVM(.) 3 with single ball bearing  | 301            |
| SECTIONAL VIEW DRAWING EVMG 3 without ball bearing        | 302            |
| SECTIONAL VIEW DRAWING EVMG 3 with single ball bearing    | 303            |
| SECTIONAL VIEW DRAWING EVM(.) 5 without ball bearing      | 304            |
| SECTIONAL VIEW DRAWING EVM(.) 5 with single ball bearing  | 305            |
| SECTIONAL VIEW DRAWING EVMG 5 without ball bearing        | 306            |
| SECTIONAL VIEW DRAWING EVMG 5 with single ball bearing    | 307            |
| SECTIONAL VIEW DRAWING EVM(.) 10 without ball bearing     | 308            |
| SECTIONAL VIEW DRAWING EVM(.) 10 with single ball bearing | 309            |
| SECTIONAL VIEW DRAWING EVMG 10 without ball bearing       | 311            |
| SECTIONAL VIEW DRAWING EVMG 10 with single ball bearing   | 312            |
| SECTIONAL VIEW DRAWING EVM(.) 18 without ball bearing     | 314            |
| SECTIONAL VIEW DRAWING EVM(.) 18 with single ball bearing | 315            |
| SECTIONAL VIEW DRAWING EVMG 18 without ball bearing       | 317            |
| SECTIONAL VIEW DRAWING EVMG 18 with single ball bearing   | 318            |
| SECTIONAL VIEW DRAWING EVM(.) 32 without bearing          | 320            |
| SECTIONAL VIEW DRAWING EVM(.) 32 with single bearing      | 321            |
| SECTIONAL VIEW DRAWING EVM(.) 32 with double bearing      | 323            |
| SECTIONAL VIEW DRAWING EVMG 32 without bearing            | 324            |
| SECTIONAL VIEW DRAWING EVMG 32 with single bearing        | 325            |
| SECTIONAL VIEW DRAWING EVMG 32 with double bearing        | 327            |
| SECTIONAL VIEW DRAWING EVM(.) 45 without bearing          | 328            |
| SECTIONAL VIEW DRAWING EVM(.) 45 with single bearing      | 329            |
| SECTIONAL VIEW DRAWING EVM(.) 45 with double bearing      | 331            |
| SECTIONAL VIEW DRAWING EVMG 45 without bearing            | 332            |
| SECTIONAL VIEW DRAWING EVMG 45 with single bearing        | 333            |
| SECTIONAL VIEW DRAWING EVMG 45 with double bearing        | 335            |
| SECTIONAL VIEW DRAWING EVM(.) 64 without bearing          | 336            |
| SECTIONAL VIEW DRAWING EVM(.) 64 with single bearing      | 337            |
| SECTIONAL VIEW DRAWING EVM(.) 64 with double bearing      | 339            |
| SECTIONAL VIEW DRAWING EVMG 64 without bearing            | 340            |
| SECTIONAL VIEW DRAWING EVMG 64 with single bearing        | 341            |
| SECTIONAL VIEW DRAWING EVMG 64 with double bearing        | 343            |

|                                 | <b>Page</b> |
|---------------------------------|-------------|
| SECTIONAL VIEW TABLE EVM(.) 3-5 | 344-345     |
| SECTIONAL VIEW TABLE EVM(.) 10  | 346-347     |
| SECTIONAL VIEW TABLE EVM(.) 18  | 348-349     |
| SECTIONAL VIEW TABLE EVM(.) 32  | 350-351     |
| SECTIONAL VIEW TABLE EVM(.) 45  | 352-353     |
| SECTIONAL VIEW TABLE EVM(.) 64  | 354-355     |
| QUANTITY FOR MODEL EVM(.) 3-5   | 356         |
| QUANTITY FOR MODEL EVM(.) 10-18 | 357         |
| QUANTITY FOR MODEL EVM(.) 32    | 358         |
| QUANTITY FOR MODEL EVM(.) 45    | 359         |
| QUANTITY FOR MODEL EVM(.) 64    | 360         |
| BEARINGS                        | 361         |
| MECHANICAL SEAL                 | 362-363     |
| <br>                            |             |
| <b>- DIMENSIONS AND WEIGHT</b>  | <b>400</b>  |
| DIMENSION DRAWING EVM(.) 3-18   | 400         |
| DIMENSION TABLE EVM(.) 3-5      | 401         |
| DIMENSIONS TABLE EVM(.) 10-18   | 402         |
| DIMENSIONS DRAWING EVM(.) 32-64 | 403         |
| DIMENSIONS TABLE EVM(.) 32      | 404         |
| DIMENSIONS TABLE EVM(.) 45      | 405         |
| DIMENSIONS TABLE EVM(.) 64      | 406         |
| PACKING DRAWINGS                | 407         |
| PACKING TABLE EVM(.) 3-5        | 408         |
| PACKING TABLE EVM(.) 10-18      | 409         |
| PACKING TABLE EVM(.) 32         | 410         |
| PACKING TABLE EVM(.) 45         | 411         |
| PACKING TABLE EVM(.) 64         | 412         |
| <br>                            |             |
| <b>- TECHNICAL DATA</b>         | <b>500</b>  |
| MOTOR DATA EVM(.) 3-18          | 500         |
| MOTOR DATA EVM(.) 32            | 501         |
| MOTOR DATA EVM(.) 45            | 502         |
| MOTOR DATA EVM(.) 64            | 503         |

## SPECIFICATIONS

50Hz

Rev. K

### EVM(.) 3-18

| PUMP                        |                          |   |  |   |
|-----------------------------|--------------------------|---|--|---|
| Version                     |                          | EVMG  | EVM  | EVML  |
| Liquid Handled              | Type of liquid           | Clean water, water contains glycol and moderately aggressive fluids | *Drinking water, Clean water, water contains glycol and moderately aggressive fluids | Clean water, water contains glycol and moderately aggressive fluids |
|                             | Temperature [°C]         | min. -15<br>max. +120   |  |   |
|                             | Max solid content        | 50 ppm (particle size 0.1-0.25 mm or less)                          |  |   |
|                             | Max chlorine ion density | 500 ppm   |  |   |
| Maximum working pressure    |                          | [MPa]   | 1.6 / 2.5  |   |
|                             |                          | [bar]   | 16 / 25  |   |
| Construction                | Impeller                 | Closed centrifugal type   |  |   |
|                             | Shaft seal type          | Mechanical seal   |  |   |
|                             | Bearing                  | Sealed ball bearing with permanent grease                           |  |   |
| Pipe Connection             | Suction                  | See dimension table   |  |   |
|                             | Discharge                |   |  |   |
| Material                    | Impeller                 | EN 1.4301 (AISI 304)  |  | EN 1.4401 (AISI 316)  |
|                             | Intermediate casing      | EN 1.4301 (AISI 304)  |  | EN 1.4401 (AISI 316)  |
|                             | Bottom casing            | Cast iron   | EN 1.4301 (AISI 304)   | EN 1.4401 (AISI 316)  |
|                             | Casing cover             | Cast iron   | EN 1.4301 (AISI 304)   | EN 1.4401 (AISI 316)  |
|                             | Outer casing             | EN 1.4301 (AISI 304)  |  | EN 1.4401 (AISI 316)  |
|                             | Shaft                    | EN 1.4401 (AISI 316)  |  |   |
|                             | Liner ring               | PTFE / EN 1.4301 (AISI 304)   |  | PTFE / EN 1.4401 (AISI 316)   |
|                             | Motor bracket            | Cast iron   | Cast iron / EN 1.4301 (AISI 304)   | Cast iron / EN 1.4401 (AISI 316)                                    |
|                             | Mechanical seal          | Silicon Carbide/Carbon/EPDM   |  | Silicon Carbide/Carbon/FPM  |
|                             | O-ring                   | EPDM  |  | FPM   |
| Applicable standard of test |                          | ISO 9906 – Annex A  |  |   |

\* Approval for drinking water application  
WRAS Approved product  
DM174/2004



| MOTOR                               |  |  |
|-------------------------------------|--|--|
| Type                                | Electric - TEFC  |  |
|                                     | Single Phase   | Three Phase  |
| Efficiency level (Reg. 640/2009)    | -  | - from 0.37 kW to 0.55 kW<br>IE2 from 0.75 kW to 5.5 kW<br>IE3 from 0.75 kW to 15 kW |
| No. of Poles                        | 2  |  |
| Rotation speed [min <sup>-1</sup> ] | ≈ 2900   |  |
| Insulation Class                    | F (temperature rise class B)                             |  |
| Protection degree (CEI EN 60034-5)  | IP 55  |  |
| Power rating                        | [kW]   | 0.37 ÷ 2.2   |
|                                     | [HP]   | 0.5 ÷ 3.0  |
| Frequency [Hz]                      | 50   |  |
| Voltage [V]                         | 230 ±10%   |  |
|                                     | 230/400 ±10% (up to 4 kW)<br>400/690 ±10% (above 5.5 kW) |  |
| Over load protection                | Provided by the user                                     |  |
| Casing material                     | Aluminium  |  |
| Flange mount (IEC motor)            | IM B14 (up to 4 kW)                                      |  |
|                                     | IM B5 (above 5.5 kW)                                     |  |

### EVM(.) 32-64

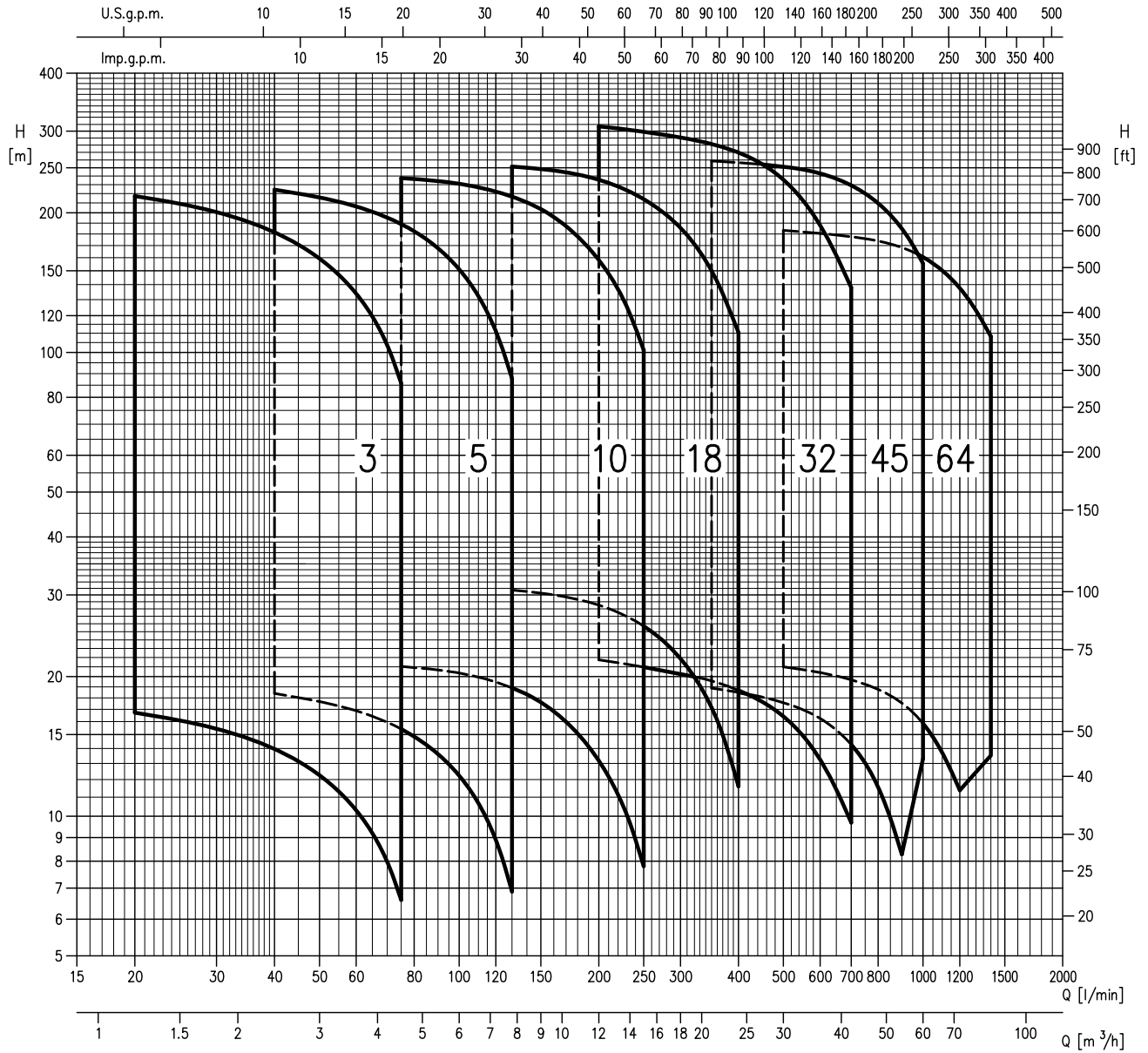
| PUMP                        |                          |   |                                     |                                     |                                |
|-----------------------------|--------------------------|---|-------------------------------------|-------------------------------------|--------------------------------|
| Version                     |                          | EVMG  | EVM                                 | EVML                                |                                |
| Liquid Handled              | Type of liquid           | Clean water, water contains glycol and moderately aggressive fluids |                                     |                                     |                                |
|                             | Temperature [°C]         | min. -15<br>max. +120   |                                     |                                     |                                |
|                             | Max solid content        | 50 ppm (particle size 0.1-0.25 mm or less)                          |                                     |                                     |                                |
|                             | Max chlorine ion density | 500 ppm   |                                     |                                     |                                |
| Maximum working pressure    | [MPa]                    | 1.6 / 3.0   |                                     |                                     |                                |
|                             | [bar]                    | 16 / 30   |                                     |                                     |                                |
| Construction                | Impeller                 | Closed centrifugal type   |                                     |                                     |                                |
|                             | Shaft seal type          | Mechanical seal   |                                     |                                     |                                |
|                             | Bearing                  | Sealed ball bearing with permanent grease                           |                                     |                                     |                                |
| Pipe Connection             | Suction                  | See dimension table   |                                     |                                     |                                |
|                             | Discharge                |   |                                     |                                     |                                |
| Material                    | Impeller                 | EN 1.4301 (AISI 304)  |                                     | EN 1.4401 (AISI 316)                |                                |
|                             | Intermediate casing      | EN 1.4301 (AISI 304)  |                                     | EN 1.4401 (AISI 316)                |                                |
|                             | Bottom casing            | Cast iron   | ASTMCF8                             | ASTMCF8M                            |                                |
|                             | Casing cover             | Cast iron   | Cast iron +<br>EN 1.4301 (AISI 304) | Cast iron +<br>EN 1.4401 (AISI 316) |                                |
|                             | Outer casing             | EN 1.4301 (AISI 304)  |                                     | EN 1.4401 (AISI 316)                |                                |
|                             | Shaft                    | EN 1.4401 (AISI 316)  |                                     |                                     |                                |
|                             | Liner ring               | EVM 32  | PTFE / EN 1.4301 (AISI 304)         |                                     | PTFE /<br>EN 1.4401 (AISI 316) |
|                             |                          | EVM 45, 64  | PTFE / EN 1.4401 (AISI 316)         |                                     |                                |
|                             | Motor bracket            | Cast iron   |                                     |                                     |                                |
|                             | Mechanical seal          | Silicon Carbide/Carbon/FPM  |                                     |                                     |                                |
| O-ring                      | EPDM                     |   | FPM                                 |                                     |                                |
| Applicable standard of test |                          | ISO 9906 – Annex A  |                                     |                                     |                                |

| MOTOR                               |   |          |
|-------------------------------------|---|----------|
| Type                                | Electric - TEFC<br>Three Phase                        |          |
| Efficiency level (Reg. 640/2009)    | IE2 from 2.2 kW to 5.5 kW<br>IE3 from 2.2 kW to 37 kW |          |
| No. of Poles                        | 2   |          |
| Rotation speed [min <sup>-1</sup> ] | ≈ 2900  |          |
| Insulation Class                    | F (temperature rise class B)                          |          |
| Protection degree (CEI EN 60034-5)  | IP 55   |          |
| Power rating                        | [kW]  | 2.2 ÷ 37 |
|                                     | [HP]  | 3.0 ÷ 50 |
| Frequency [Hz]                      | 50  |          |
| Voltage [V]                         | 230/400 ±10% (up to 4kW)                              |          |
|                                     | 400/690 ±10% (above 5.5 kW)                           |          |
| Over load protection                | Provided by the user                                  |          |
| Casing material                     | Aluminium   |          |
| Flange mount (IEC motor)            | IM B14 (up to 4 kW)                                   |          |
|                                     | IM B5 (above 5.5 kW)                                  |          |

SELECTION CHART

50Hz

Rev. K



SELECTION CHART

50Hz

Rev. K

EVM(.) 3-18

| Pump Type<br>EVM(.)               |             | Motor |      |      | Maximum<br>working<br>pressure<br>(MPa) | Q=Capacity |       |       |       |       |       |       |       |       |       |       |       |      |     |
|-----------------------------------|-------------|-------|------|------|---|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|
| Single phase                      | Three phase | kW    | HP   | Size |   | l/min      | 0     | 20    | 40    | 60    | 75    | 100   | 130   | 150   | 200   | 250   | 300   | 350  | 400 |
|                                   |             |       |      |      |   | m³/h       | 0     | 1.2   | 2.4   | 3.6   | 4.5   | 6.0   | 7.8   | 9     | 12    | 15    | 18    | 21   | 24  |
| H=Total manometric head in meters |             |       |      |      |   |            |       |       |       |       |       |       |       |       |       |       |       |      |     |
| 3 2N5/0.37 M                      | 3 2N5/0.37  | 0.37  | 0.5  | 71   | 1.6                                     | 18.6       | 16.7  | 14.0  | 10.3  | 6.6   | -     | -     | -     | -     | -     | -     | -     | -    |     |
| 3 3N5/0.37 M                      | 3 3N5/0.37  | 0.37  | 0.5  | 71   |   | 27.9       | 25.1  | 20.9  | 15.5  | 9.9   | -     | -     | -     | -     | -     | -     | -     | -    | -   |
| 3 4N5/0.55 M                      | 3 4N5/0.55  | 0.55  | 0.75 | 71   |   | 37.2       | 33.4  | 27.9  | 20.6  | 13.2  | -     | -     | -     | -     | -     | -     | -     | -    | -   |
| 3 5N5/0.55 M                      | 3 5N5/0.55  | 0.55  | 0.75 | 71   |   | 46.5       | 42.0  | 34.9  | 25.8  | 16.5  | -     | -     | -     | -     | -     | -     | -     | -    | -   |
| 3 6N5/0.75 M                      | 3 6N5/0.75  | 0.75  | 1    | 80   |   | 56.0       | 50.0  | 42.0  | 30.9  | 19.8  | -     | -     | -     | -     | -     | -     | -     | -    | -   |
| 3 7N5/0.75 M                      | 3 7N5/0.75  | 0.75  | 1    | 80   |   | 65.0       | 58.5  | 49.0  | 36.1  | 23.1  | -     | -     | -     | -     | -     | -     | -     | -    | -   |
| 3 9N5/1.1 M                       | 3 9N5/1.1   | 1.1   | 1.5  | 80   |   | 84.0       | 75.0  | 63.0  | 46.5  | 29.7  | -     | -     | -     | -     | -     | -     | -     | -    | -   |
| 3 11N5/1.1 M                      | 3 11N5/1.1  | 1.1   | 1.5  | 80   |   | 102.0      | 92.0  | 77.0  | 56.5  | 36.3  | -     | -     | -     | -     | -     | -     | -     | -    | -   |
| 3 13N5/1.5 M                      | 3 13N5/1.5  | 1.5   | 2    | 90S  |   | 121.0      | 109.0 | 90.5  | 67.0  | 43.0  | -     | -     | -     | -     | -     | -     | -     | -    | -   |
| 3 15N5/1.5 M                      | 3 15N5/1.5  | 1.5   | 2    | 90S  |   | 140.0      | 125.0 | 105.0 | 77.5  | 49.5  | -     | -     | -     | -     | -     | -     | -     | -    | -   |
| 3 18F5/2.2 M                      | 3 18F5/2.2  | 2.2   | 3    | 90L  | 167.0                                   | 151.0      | 126.0 | 92.5  | 59.5  | -     | -     | -     | -     | -     | -     | -     | -     | -    |     |
| 3 22F5/2.2 M                      | 3 22F5/2.2  | 2.2   | 3    | 90L  | 205.0                                   | 184.0      | 154.0 | 113.0 | 72.5  | -     | -     | -     | -     | -     | -     | -     | -     | -    |     |
| -                                 | 3 26F5/3.0  | 3     | 4    | 100  | 242.0                                   | 217.0      | 182.0 | 134.0 | 86.0  | -     | -     | -     | -     | -     | -     | -     | -     | -    |     |
| 5 2N5/0.37 M                      | 5 2N5/0.37  | 0.37  | 0.5  | 71   | 1.6                                     | 20.2       | -     | 18.4  | 16.9  | 15.4  | 12.2  | 6.9   | -     | -     | -     | -     | -     | -    |     |
| 5 3N5/0.55 M                      | 5 3N5/0.55  | 0.55  | 0.75 | 71   |   | 30.2       | -     | 27.6  | 25.3  | 23.1  | 18.4  | 10.3  | -     | -     | -     | -     | -     | -    | -   |
| 5 4N5/0.75 M                      | 5 4N5/0.75  | 0.75  | 1    | 80   |   | 40.5       | -     | 36.8  | 33.8  | 30.8  | 24.5  | 13.8  | -     | -     | -     | -     | -     | -    | -   |
| 5 5N5/1.1 M                       | 5 5N5/1.1   | 1.1   | 1.5  | 80   |   | 50.5       | -     | 46.0  | 42.0  | 38.6  | 30.6  | 17.2  | -     | -     | -     | -     | -     | -    | -   |
| 5 6N5/1.1 M                       | 5 6N5/1.1   | 1.1   | 1.5  | 80   |   | 60.5       | -     | 55.0  | 50.5  | 46.5  | 36.7  | 20.6  | -     | -     | -     | -     | -     | -    | -   |
| 5 7N5/1.5 M                       | 5 7N5/1.5   | 1.5   | 2    | 90S  |   | 70.5       | -     | 64.5  | 59.0  | 54.0  | 43.0  | 24.1  | -     | -     | -     | -     | -     | -    | -   |
| 5 8N5/1.5 M                       | 5 8N5/1.5   | 1.5   | 2    | 90S  |   | 80.5       | -     | 73.5  | 67.5  | 61.5  | 49.0  | 27.5  | -     | -     | -     | -     | -     | -    | -   |
| 5 10N5/2.2 M                      | 5 10N5/2.2  | 2.2   | 3    | 90L  |   | 102.0      | -     | 93.5  | 86.0  | 79.0  | 63.0  | 36.6  | -     | -     | -     | -     | -     | -    | -   |
| 5 11N5/2.2 M                      | 5 11N5/2.2  | 2.2   | 3    | 90L  |   | 113.0      | -     | 103.0 | 94.5  | 86.5  | 69.5  | 40.5  | -     | -     | -     | -     | -     | -    | -   |
| 5 12N5/2.2 M                      | 5 12N5/2.2  | 2.2   | 3    | 90L  |   | 123.0      | -     | 112.0 | 103.0 | 94.5  | 75.5  | 44.0  | -     | -     | -     | -     | -     | -    | -   |
| -                                 | 5 14N5/3.0  | 3     | 4    | 100  | 143.0                                   | -          | 131.0 | 120.0 | 110.0 | 88.0  | 51.0  | -     | -     | -     | -     | -     | -     | -    |     |
| -                                 | 5 16N5/3.0  | 3     | 4    | 100  | 164.0                                   | -          | 150.0 | 138.0 | 126.0 | 101.0 | 58.5  | -     | -     | -     | -     | -     | -     | -    |     |
| -                                 | 5 18F5/4.0  | 4     | 5.5  | 112  | 184.0                                   | -          | 168.0 | 155.0 | 142.0 | 113.0 | 66.0  | -     | -     | -     | -     | -     | -     | -    |     |
| -                                 | 5 19F5/4.0  | 4     | 5.5  | 112  | 194.0                                   | -          | 178.0 | 163.0 | 150.0 | 120.0 | 69.5  | -     | -     | -     | -     | -     | -     | -    |     |
| -                                 | 5 22F5/4.0  | 4     | 5.5  | 112  | 225.0                                   | -          | 206.0 | 189.0 | 173.0 | 139.0 | 80.5  | -     | -     | -     | -     | -     | -     | -    |     |
| -                                 | 5 24F5/5.5  | 5.5   | 7.5  | 132S | 246.0                                   | -          | 224.0 | 206.0 | 189.0 | 151.0 | 88.0  | -     | -     | -     | -     | -     | -     | -    |     |
| 10 2N5/0.75 M                     | 10 2N5/0.75 | 0.75  | 1    | 80   | 1.6                                     | 22.0       | -     | -     | -     | 21.0  | 20.4  | 18.9  | 17.6  | 13.2  | 7.8   | -     | -     | -    |     |
| 10 3N5/1.1 M                      | 10 3N5/1.1  | 1.1   | 1.5  | 80   |   | 33.0       | -     | -     | -     | 31.6  | 30.5  | 28.4  | 26.4  | 19.8  | 11.7  | -     | -     | -    | -   |
| 10 4N5/1.5 M                      | 10 4N5/1.5  | 1.5   | 2    | 90S  |   | 44.0       | -     | -     | -     | 42.0  | 40.5  | 37.8  | 35.2  | 26.4  | 15.6  | -     | -     | -    | -   |
| 10 5N5/2.2 M                      | 10 5N5/2.2  | 2.2   | 3    | 90L  |   | 55.0       | -     | -     | -     | 52.5  | 51.0  | 47.5  | 44.0  | 33.0  | 19.5  | -     | -     | -    | -   |
| 10 6N5/2.2 M                      | 10 6N5/2.2  | 2.2   | 3    | 90L  |   | 66.0       | -     | -     | -     | 63.0  | 61.0  | 57.0  | 53.0  | 39.5  | 23.4  | -     | -     | -    | -   |
| -                                 | 10 8N5/3.0  | 3     | 4    | 100  |   | 88.0       | -     | -     | -     | 84.0  | 81.5  | 75.5  | 70.5  | 52.5  | 31.2  | -     | -     | -    | -   |
| -                                 | 10 10N5/4.0 | 4     | 5.5  | 112  |   | 110.0      | -     | -     | -     | 105.0 | 102.0 | 94.5  | 88.0  | 66.0  | 39.0  | -     | -     | -    | -   |
| -                                 | 10 11N5/4.0 | 4     | 5.5  | 112  |   | 121.0      | -     | -     | -     | 116.0 | 112.0 | 104.0 | 97.0  | 72.5  | 43.0  | -     | -     | -    | -   |
| -                                 | 10 12N5/5.5 | 5.5   | 7.5  | 132S |   | 134.0      | -     | -     | -     | 130.0 | 126.0 | 118.0 | 111.0 | 86.5  | 55.0  | -     | -     | -    | -   |
| -                                 | 10 14N5/5.5 | 5.5   | 7.5  | 132S |   | 157.0      | -     | -     | -     | 151.0 | 147.0 | 138.0 | 130.0 | 101.0 | 64.5  | -     | -     | -    | -   |
| -                                 | 10 15F5/5.5 | 5.5   | 7.5  | 132S | 168.0                                   | -          | -     | -     | 162.0 | 158.0 | 148.0 | 139.0 | 108.0 | 69.0  | -     | -     | -     | -    |     |
| -                                 | 10 16F5/7.5 | 7.5   | 10   | 132S | 179.0                                   | -          | -     | -     | 173.0 | 168.0 | 158.0 | 148.0 | 115.0 | 73.5  | -     | -     | -     | -    |     |
| -                                 | 10 18F5/7.5 | 7.5   | 10   | 132S | 202.0                                   | -          | -     | -     | 194.0 | 189.0 | 177.0 | 167.0 | 129.0 | 83.0  | -     | -     | -     | -    |     |
| -                                 | 10 20F5/7.5 | 7.5   | 10   | 132S | 224.0                                   | -          | -     | -     | 216.0 | 210.0 | 197.0 | 185.0 | 144.0 | 92.0  | -     | -     | -     | -    |     |
| -                                 | 10 22F5/11  | 11    | 15   | 160M | 246.0                                   | -          | -     | -     | 238.0 | 231.0 | 217.0 | 204.0 | 158.0 | 101.0 | -     | -     | -     | -    |     |
| 18 2F5/2.2 M                      | 18 2F5/2.2  | 2.2   | 3    | 90L  | 1.6                                     | 32.0       | -     | -     | -     | -     | 31.0  | 30.3  | 28.5  | 25.7  | 21.9  | 17.2  | 11.6  | -    |     |
| -                                 | 18 3F5/3.0  | 3     | 4    | 100  |   | 48.0       | -     | -     | -     | -     | -     | 46.0  | 45.5  | 43.0  | 38.6  | 32.8  | 25.7  | 17.4 | -   |
| -                                 | 18 4F5/4.0  | 4     | 5.5  | 112  |   | 64.0       | -     | -     | -     | -     | -     | 61.5  | 60.5  | 57.0  | 51.5  | 44.0  | 34.3  | 23.2 | -   |
| -                                 | 18 5F5/5.5  | 5.5   | 7.5  | 132S |   | 80.0       | -     | -     | -     | -     | -     | 77.0  | 75.5  | 71.5  | 64.5  | 54.5  | 43.0  | 29.0 | -   |
| -                                 | 18 6F5/5.5  | 5.5   | 7.5  | 132S |   | 96.0       | -     | -     | -     | -     | -     | 92.0  | 91.0  | 85.5  | 77.0  | 65.5  | 51.5  | 34.8 | -   |
| -                                 | 18 7F5/7.5  | 7.5   | 10   | 132S |   | 112.0      | -     | -     | -     | -     | -     | 108.0 | 106.0 | 100.0 | 90.0  | 76.5  | 60.0  | 40.5 | -   |
| -                                 | 18 8F5/7.5  | 7.5   | 10   | 132S |   | 128.0      | -     | -     | -     | -     | -     | 123.0 | 121.0 | 114.0 | 103.0 | 87.5  | 68.5  | 46.5 | -   |
| -                                 | 18 10F5/11  | 11    | 15   | 160M |   | 162.0      | -     | -     | -     | -     | -     | 157.0 | 155.0 | 147.0 | 134.0 | 116.0 | 93.5  | 69.0 | -   |
| -                                 | 18 12F5/11  | 11    | 15   | 160M |   | 194.0      | -     | -     | -     | -     | -     | 189.0 | 186.0 | 177.0 | 160.0 | 139.0 | 112.0 | 83.0 | -   |
| -                                 | 18 14F5/15  | 15    | 20   | 160M |   | 227.0      | -     | -     | -     | -     | -     | 220.0 | 217.0 | 206.0 | 187.0 | 162.0 | 131.0 | 96.5 | -   |
| -                                 | 18 15F5/15  | 15    | 20   | 160M | 243.0                                   | -          | -     | -     | -     | -     | 236.0 | 233.0 | 221.0 | 201.0 | 174.0 | 141.0 | 104.0 | -    |     |
| -                                 | 18 16F5/15  | 15    | 20   | 160M | 259.0                                   | -          | -     | -     | -     | -     | 252.0 | 249.0 | 236.0 | 214.0 | 186.0 | 150.0 | 110.0 | -    |     |

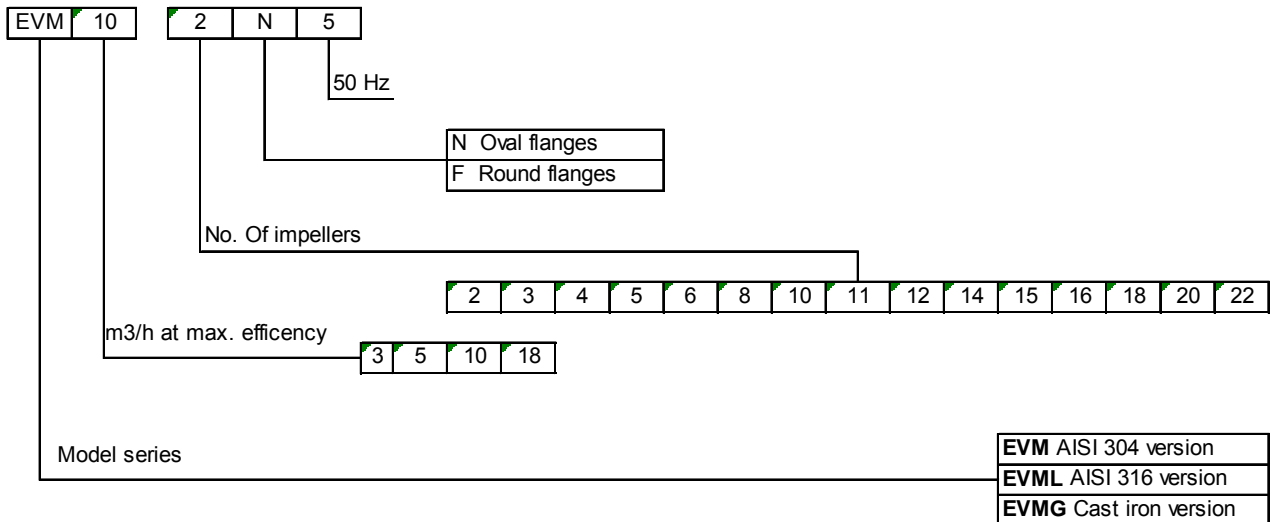
1.6 MPa=16 bar ; 2.5 MPa=25 bar



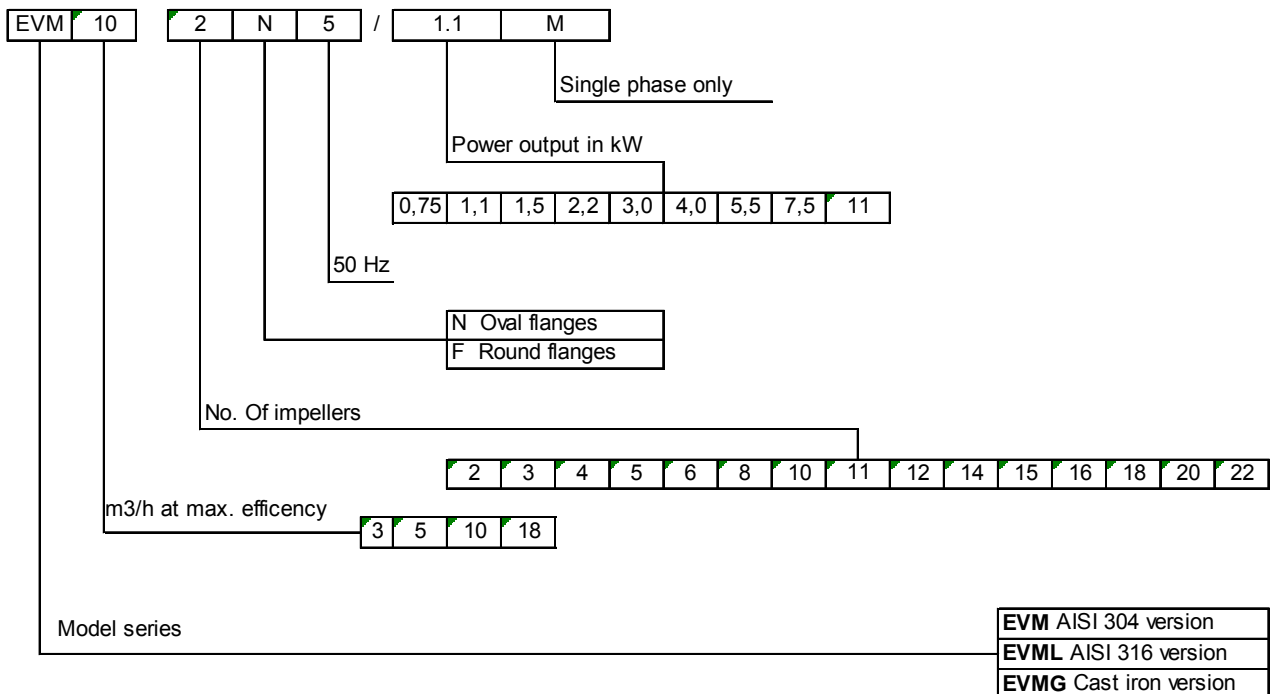


**TYPE KEY**  
**EVM(.) 3-18**

*Example for pump without motor*



*Example for pump with motor*



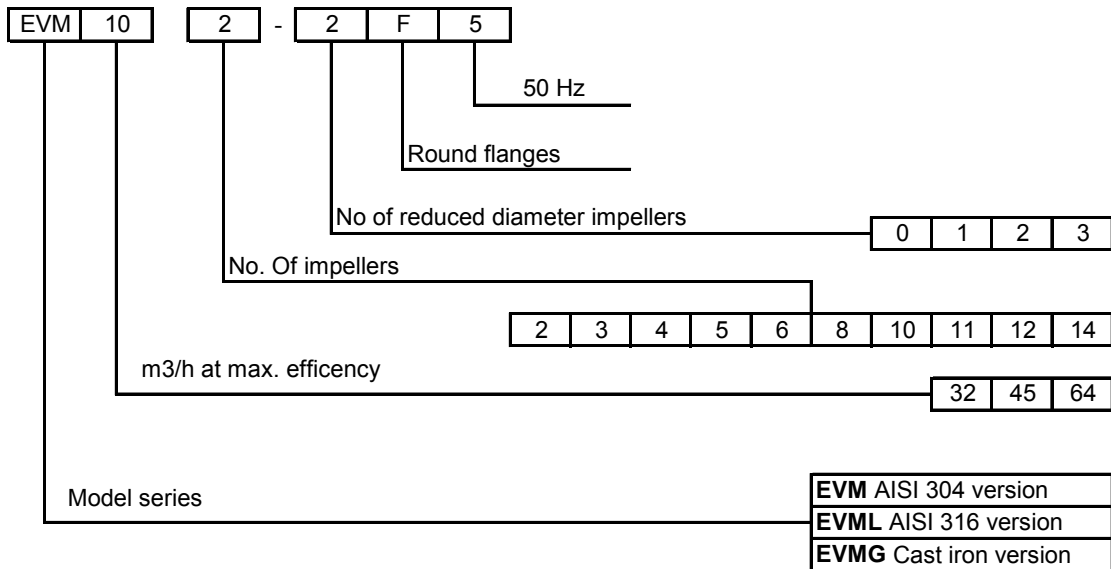
**TYPE KEY AND CURVE SPECIFICATIONS**

50Hz

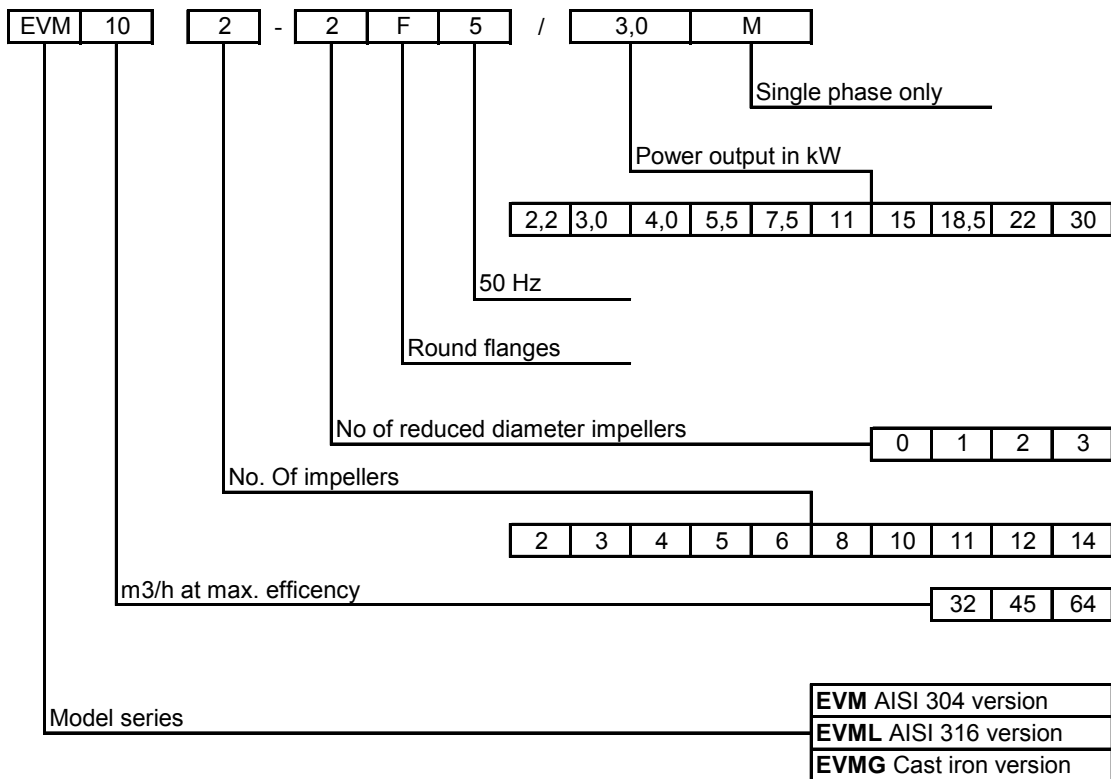
Rev. K

**EVM(.) 32-64**

*Example for pump without motor*



*Example for pump with motor*



### PERFORMANCE CURVE SPECIFICATIONS

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

Tolerances according to ISO 9906 Annex A

The curves refer to effective speed of asynchronous motors at 50 Hz

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:

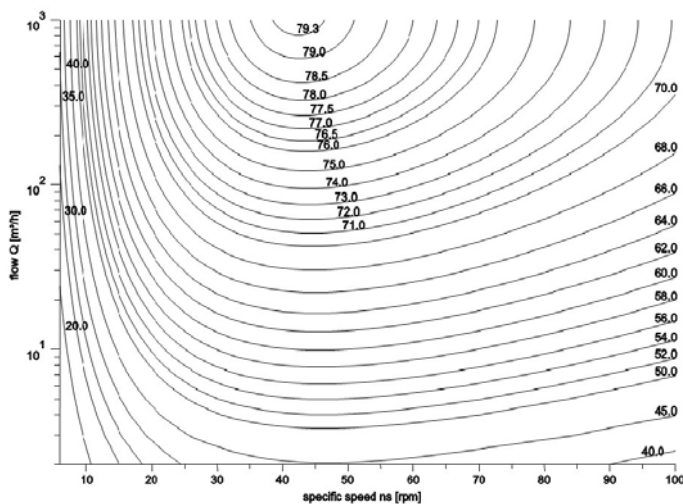
- Q = volume flow rate
- H = total head
- $P_2$  = pump power input (shaft power)
- $\eta$  = pump efficiency
- NPSH = net positive suction head required by the pump
- MEI = minimum efficiency index

The minimum efficiency index (MEI) is a measure of the quality of a pump size in respect to its mean efficiency. The minimum efficiency index is based on the hydraulic efficiency and on the head at the best efficiency point.

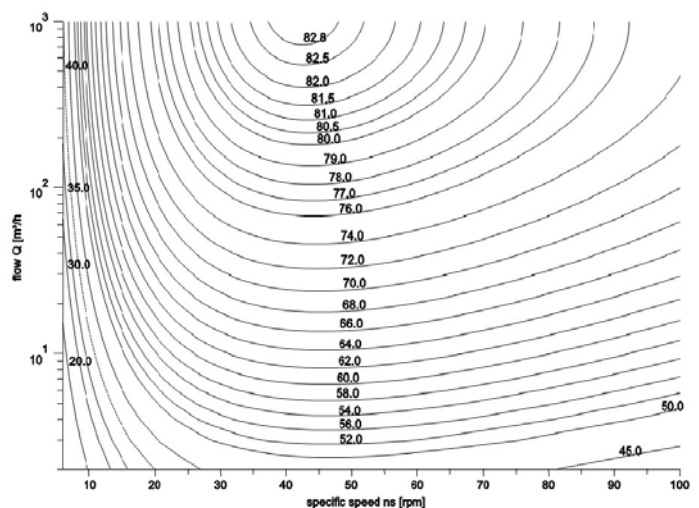
The efficiency of a pump with trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to a reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.

The operation of these water pumps with variable duty points may be more efficient and economical when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system

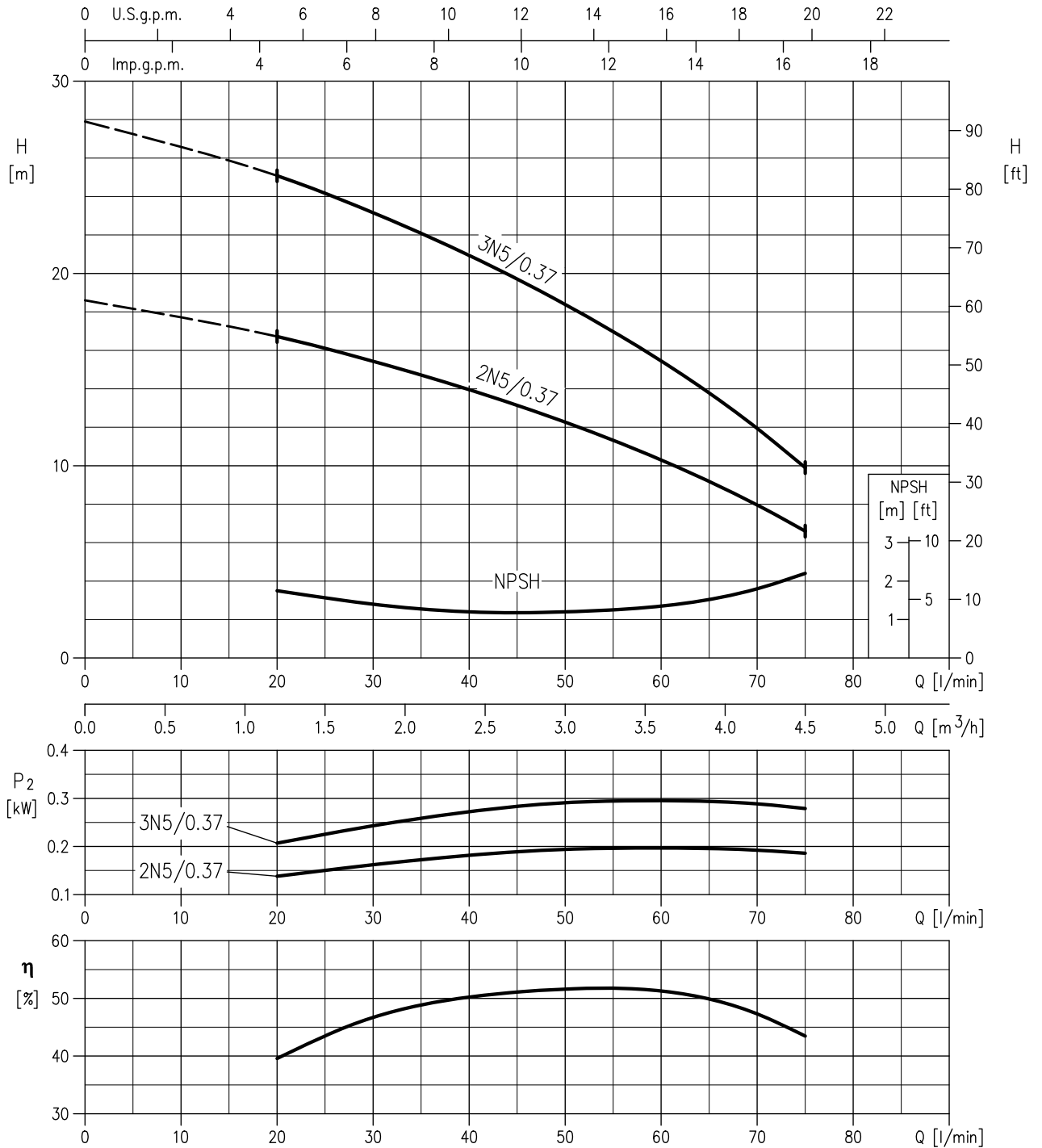
MEI = 0.4 for Multistage Vertical 2900rpm



MEI=0.7 for Mutistage Vertical 2900 rpm

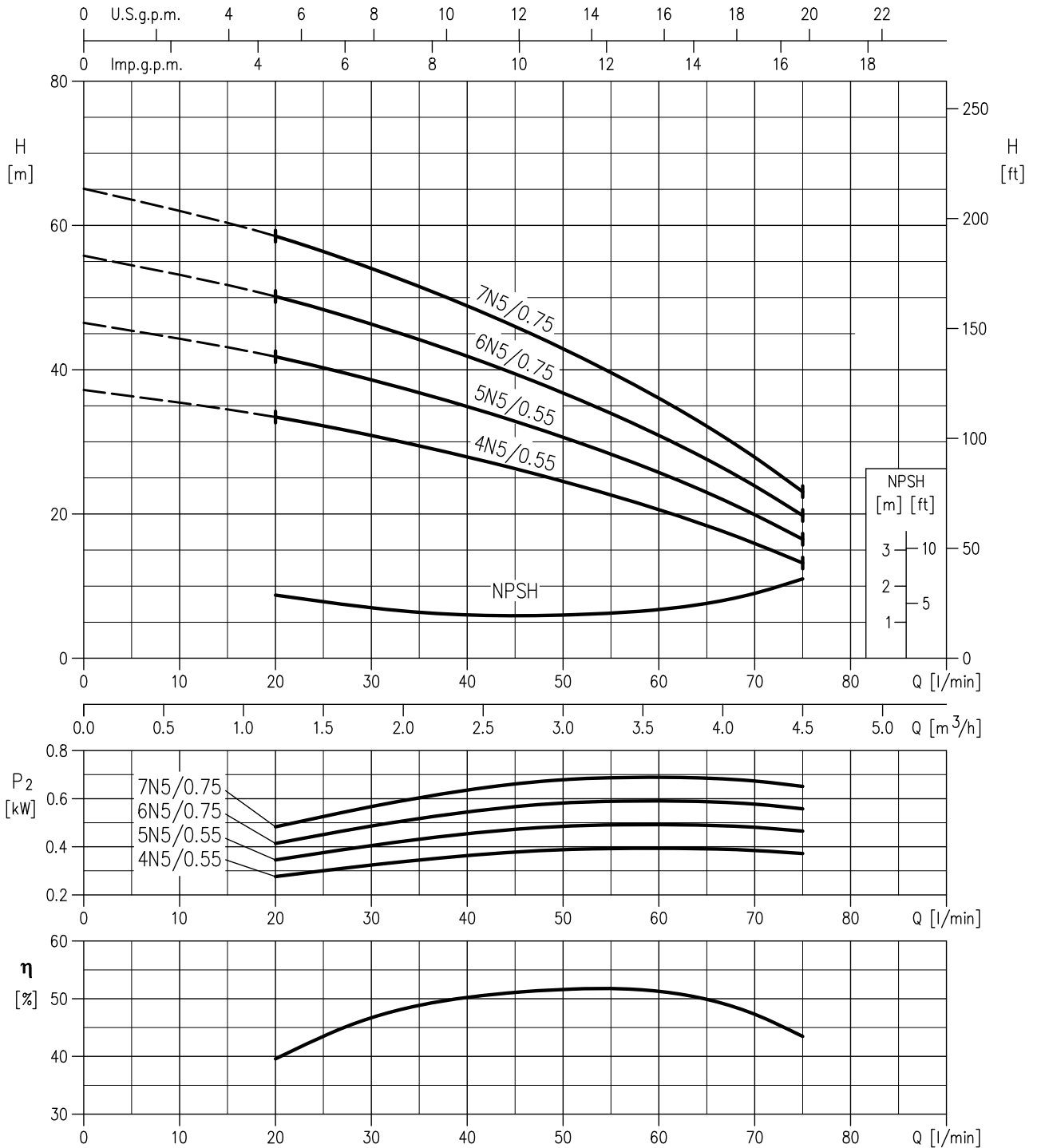


EVM(.)3 MEI > 0.70 - Impeller diameter =89 mm



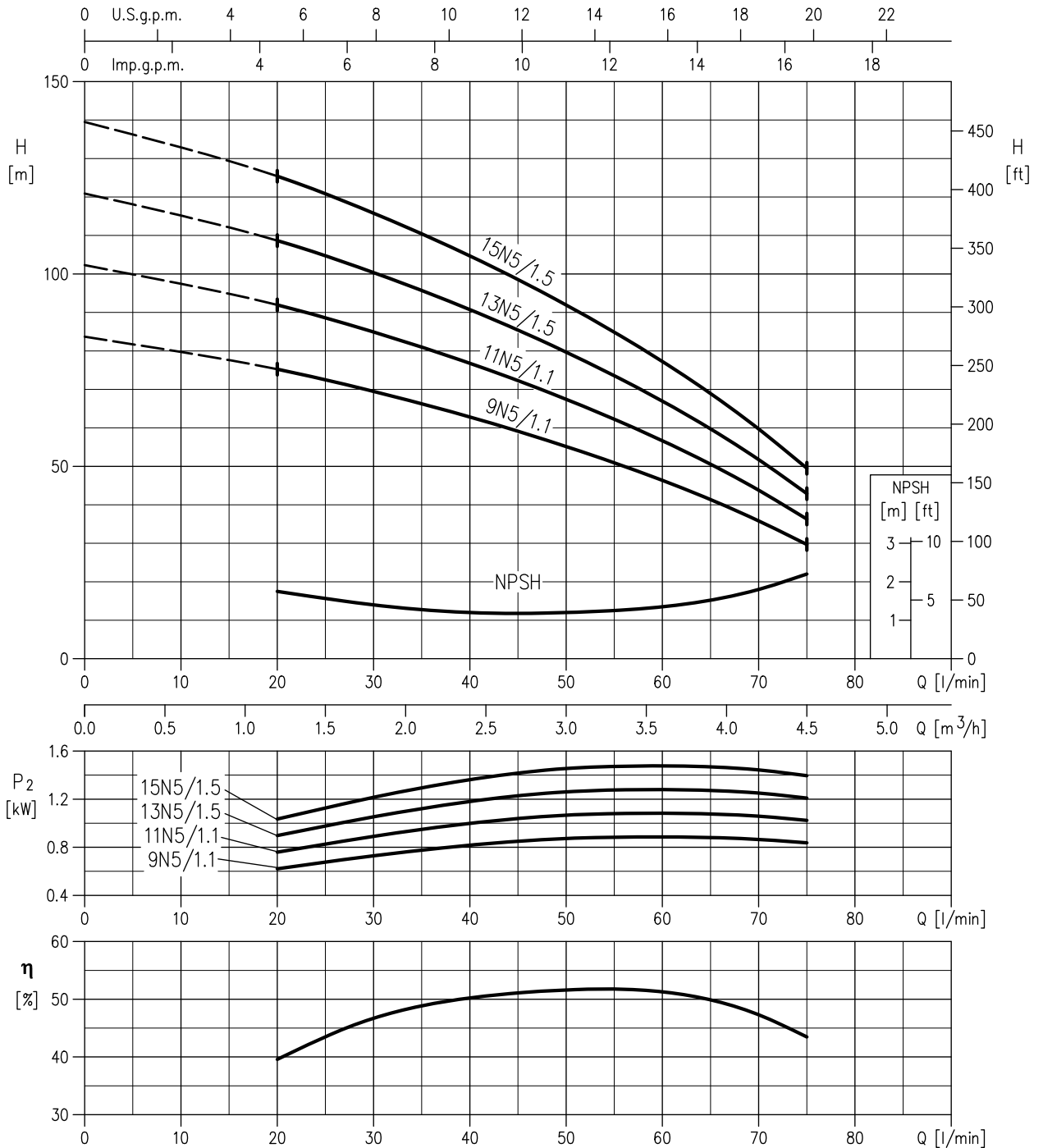
Rotation speed ≈ 2850 min<sup>-1</sup>  
 Test standard: ISO 9906-Annex A

EVM(.)3 MEI > 0.70 - Impeller diameter =89 mm



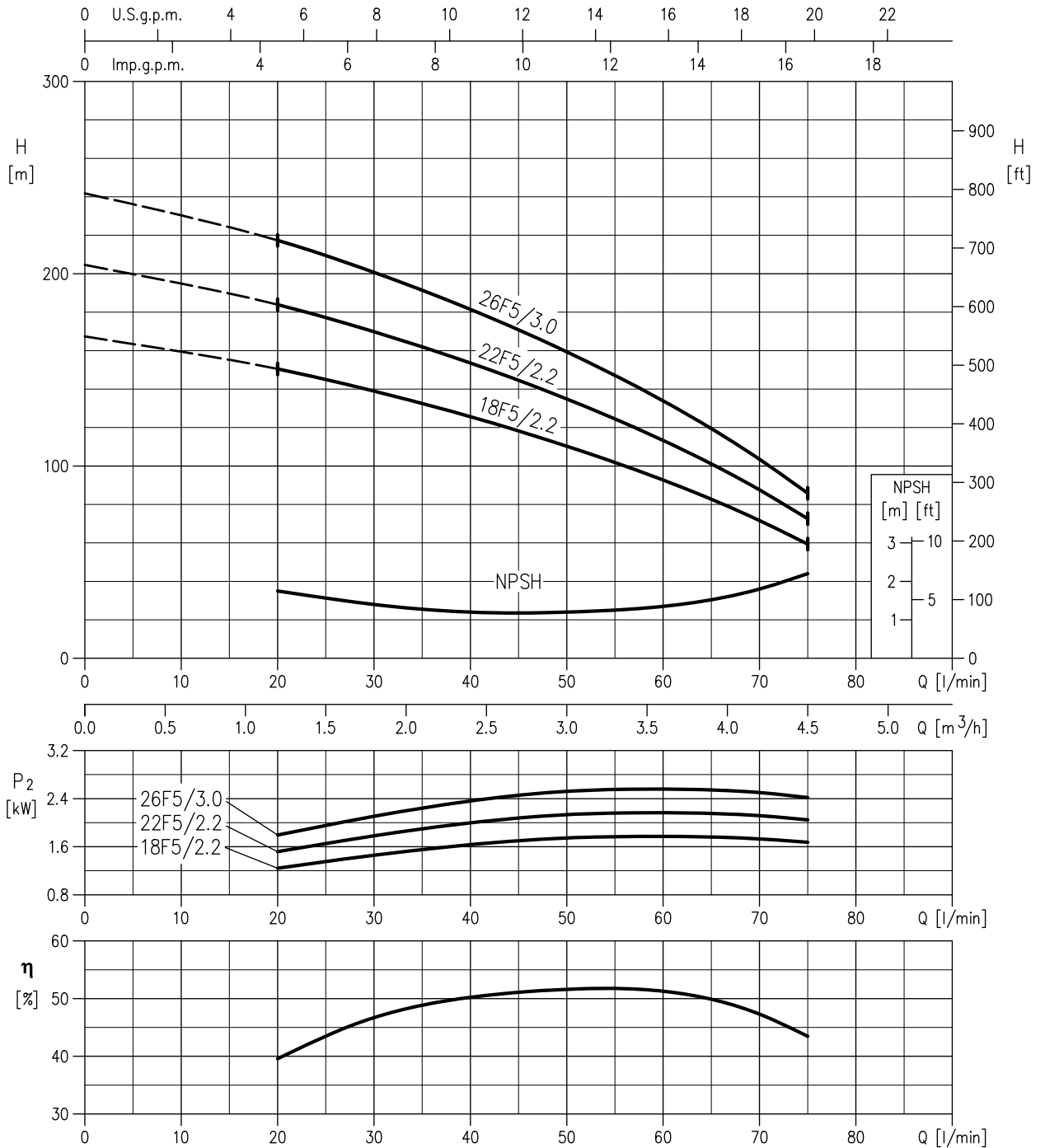
Rotation speed  $\approx 2850 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

EVM(.)3 MEI > 0.70 - Impeller diameter =89 mm



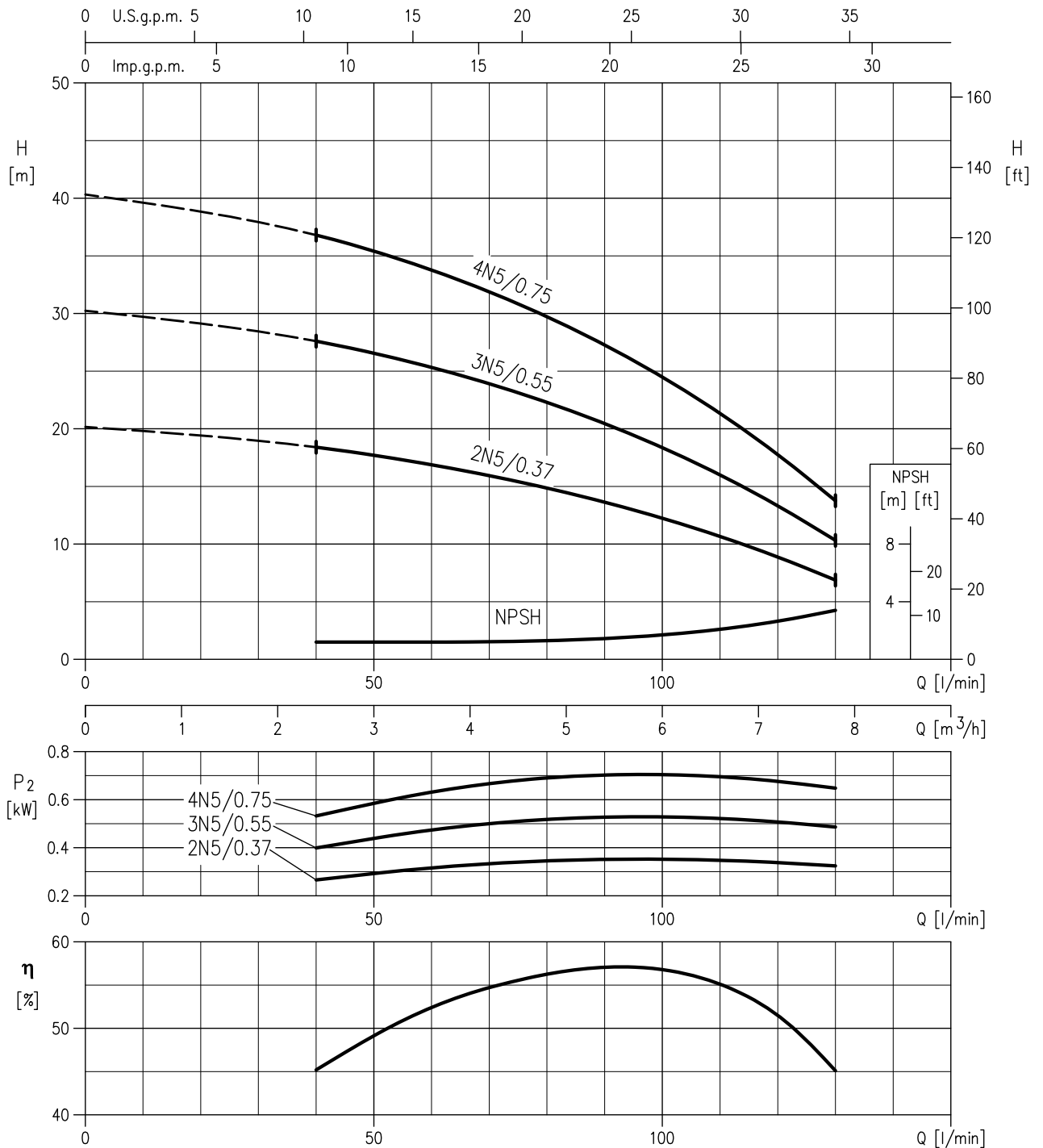
Rotation speed ≈ 2850 min<sup>-1</sup>  
 Test standard: ISO 9906-Annex A

EVM(.)3 MEI > 0.70 - Impeller diameter =89 mm



Rotation speed ≈ 2850 min<sup>-1</sup>  
 Test standard: ISO 9906-Annex A

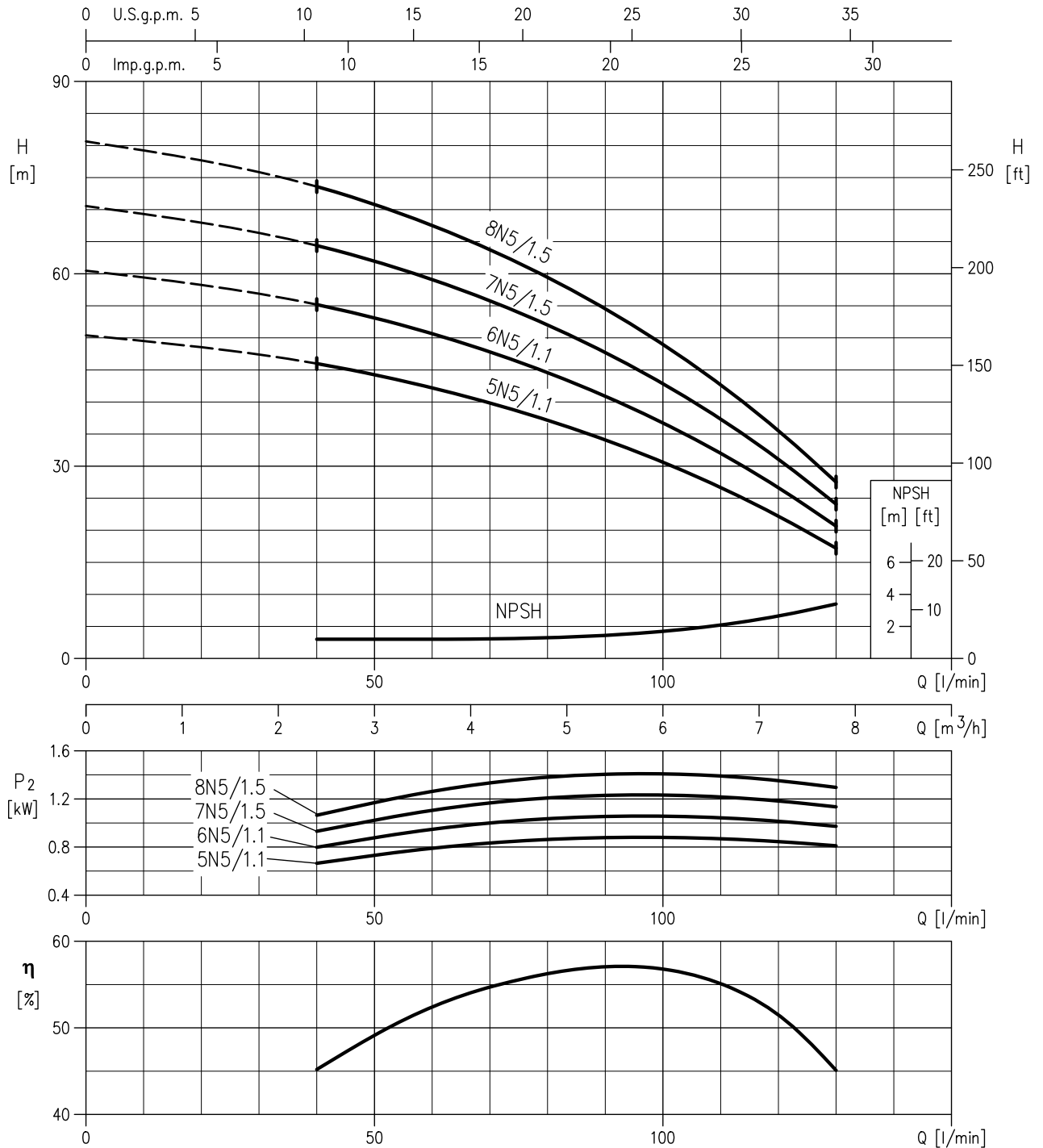
EVM(.)5 MEI > 0.70 - Impeller diameter =95 mm



Rotation speed ≈ 2850 min<sup>-1</sup>  
 Test standard: ISO 9906-Annex A

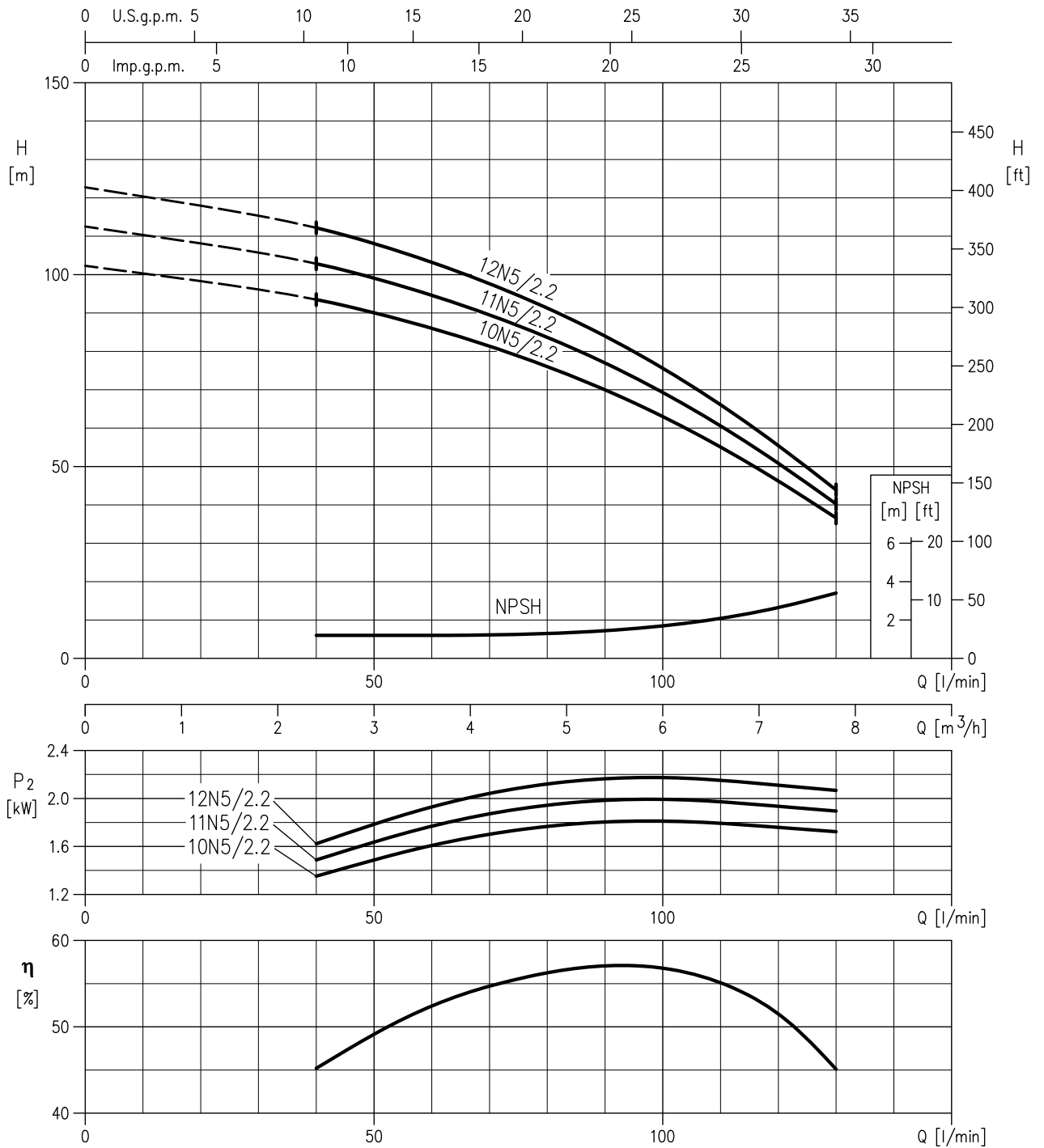


EVM(.)5 MEI > 0.70 - Impeller diameter =95 mm



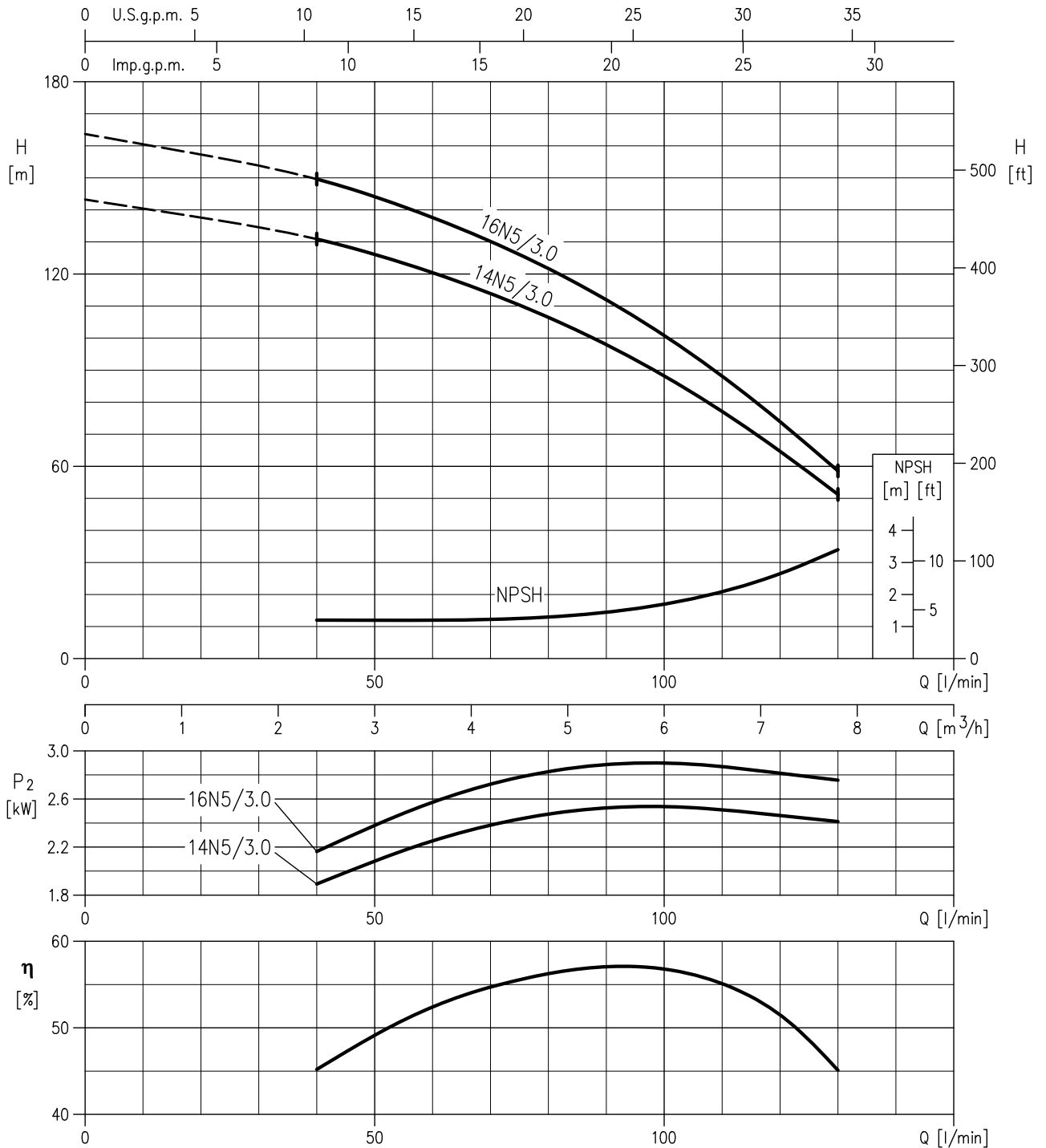
Rotation speed  $\approx 2850 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

EVM(.).5 MEI > 0.70 - Impeller diameter =95 mm



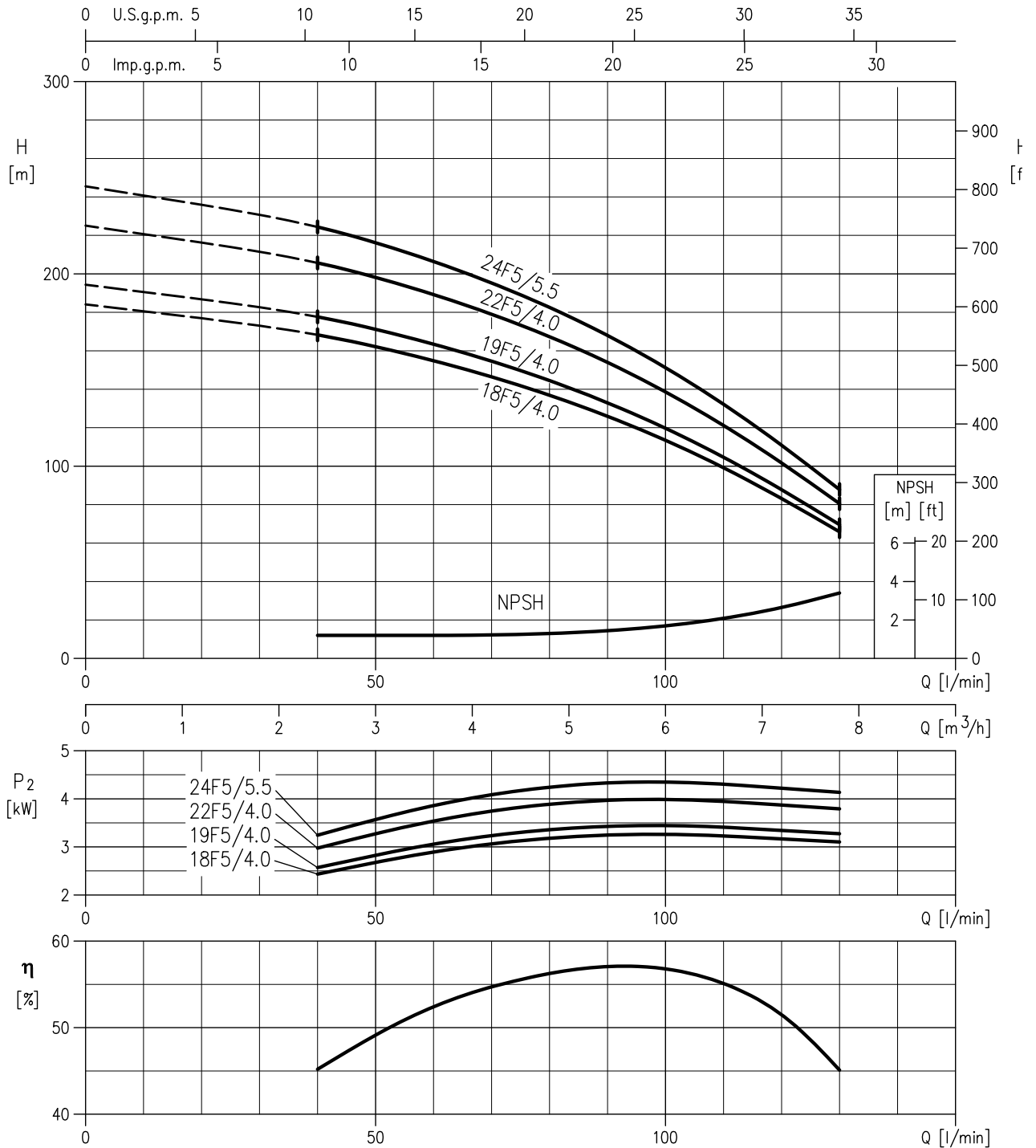
Rotation speed  $\approx 2850 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

EVM(.).5 MEI > 0.70 - Impeller diameter =95 mm



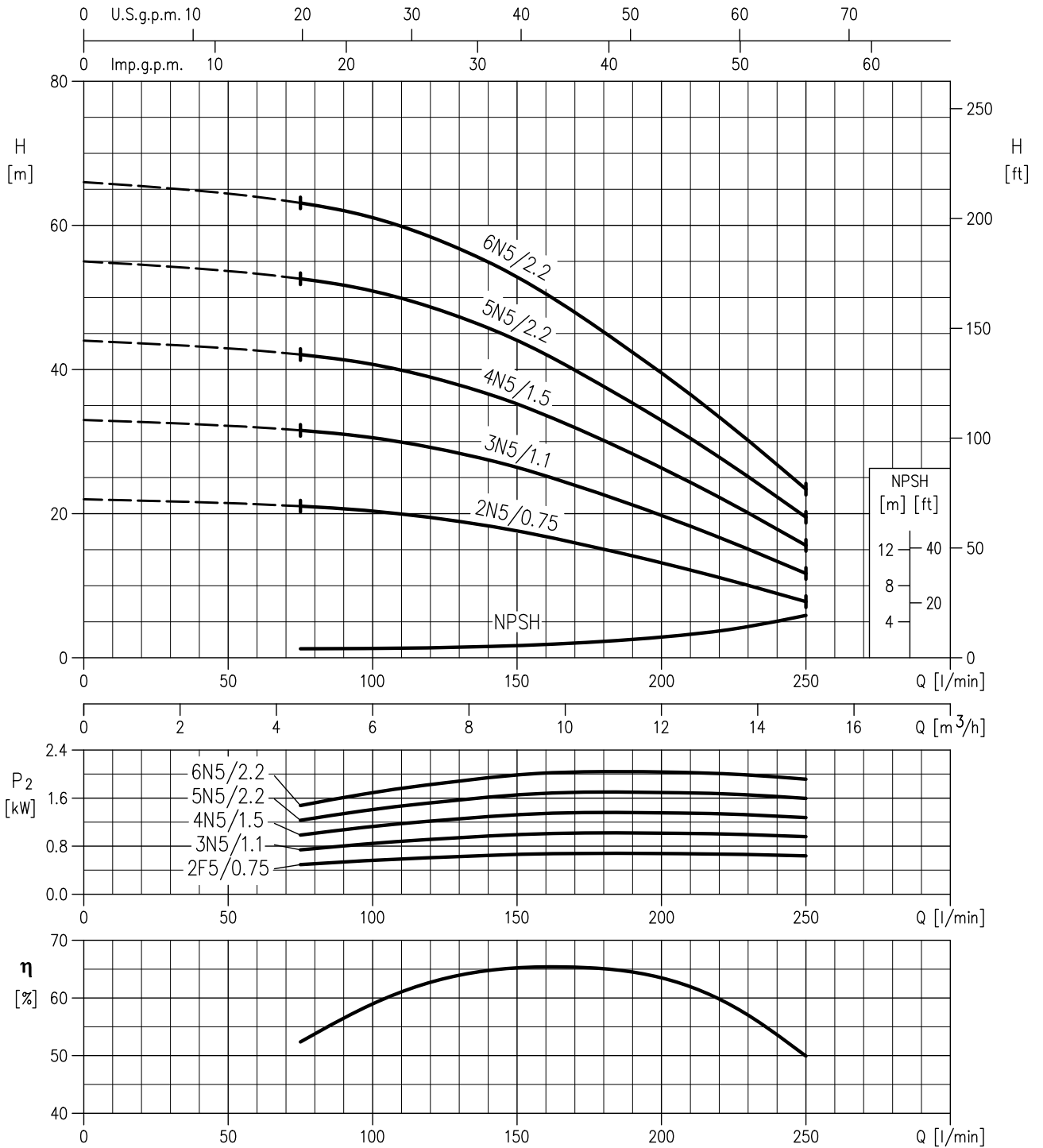
Rotation speed  $\approx 2850 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

EVM(.)5 MEI > 0.70 - Impeller diameter =95 mm



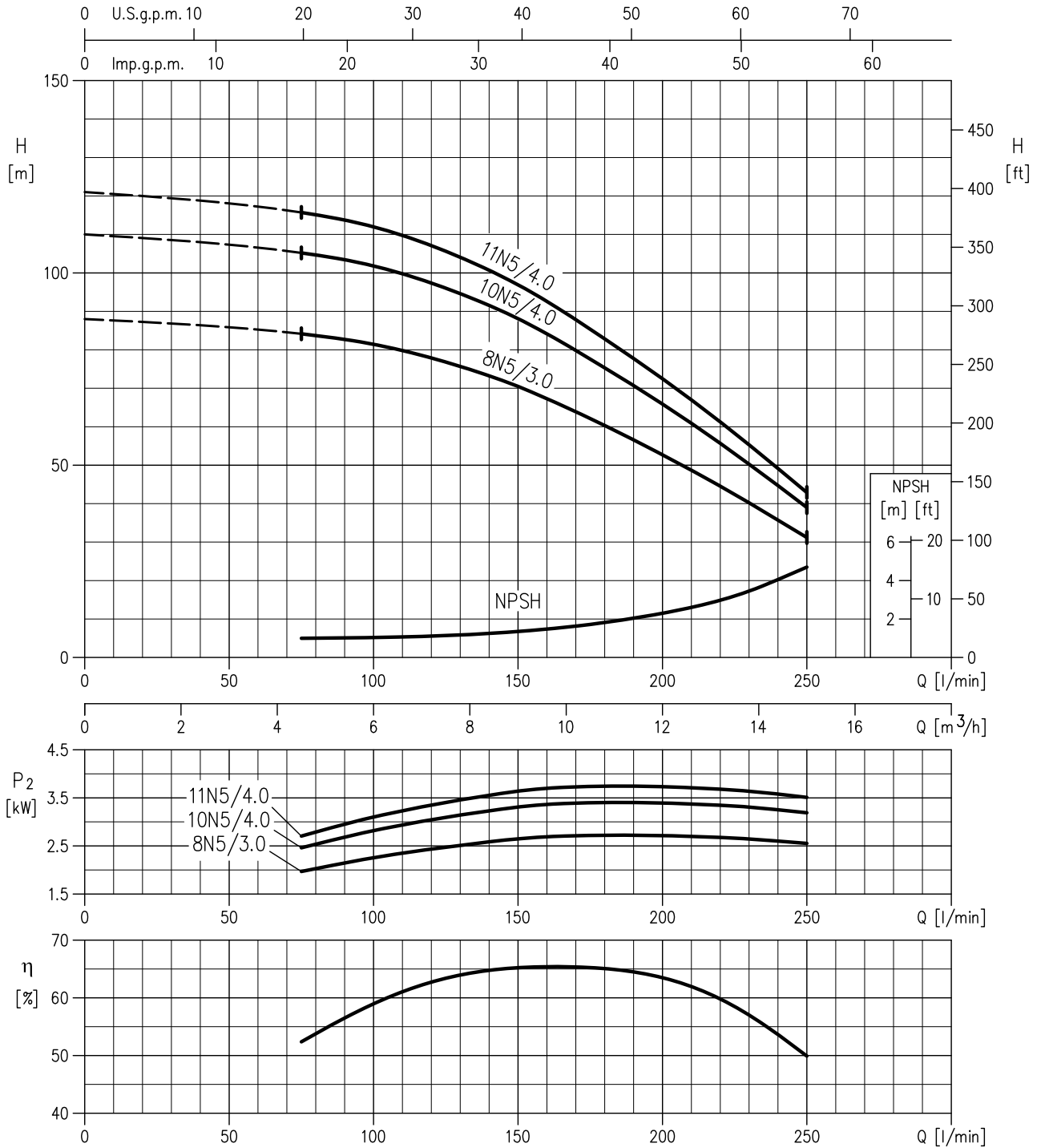
Rotation speed  $\approx 2850 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

EVM(.)10 MEI > 0.70 - Impeller diameter =96 mm



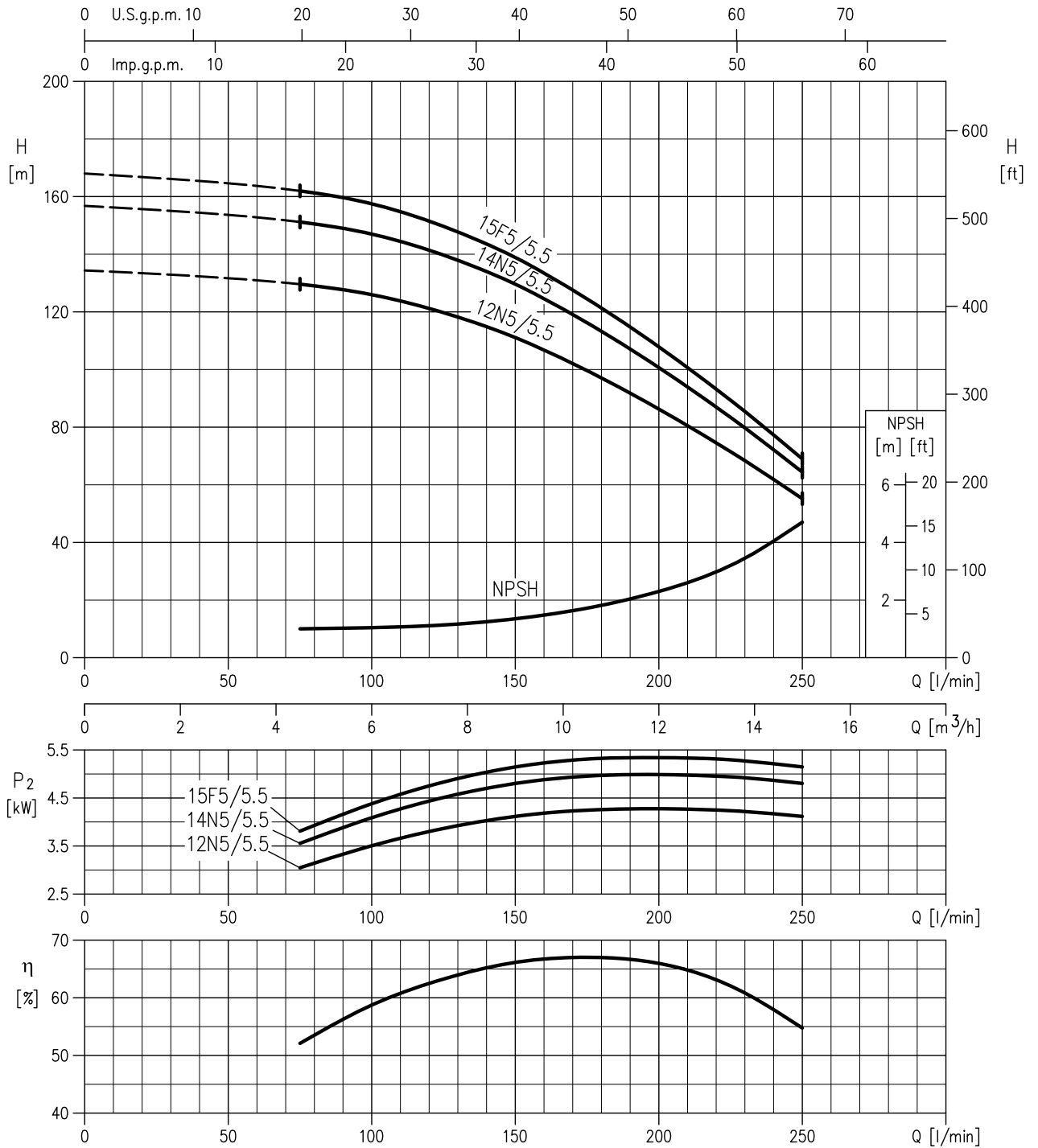
Rotation speed  $\approx 2850 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

EVM(.)10 MEI > 0.70 - Impeller diameter =96 mm



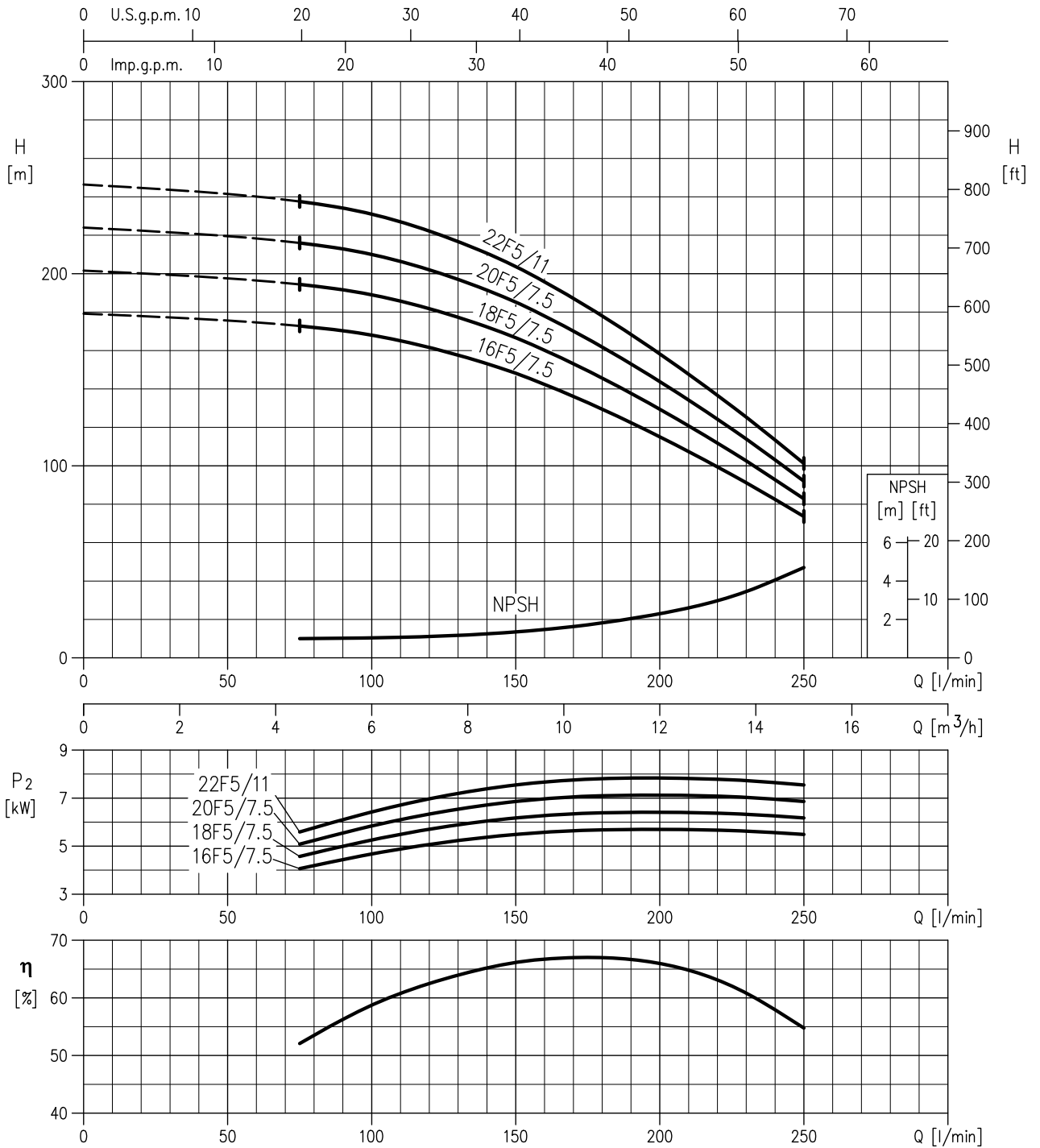
Rotation speed ≈ 2850 min<sup>-1</sup>  
 Test standard: ISO 9906-Annex A

EVM(.)10 MEI > 0.70- Impeller diameter =96 mm



Rotation speed ≈ 2850 min<sup>-1</sup>  
 Test standard: ISO 9906-Annex A

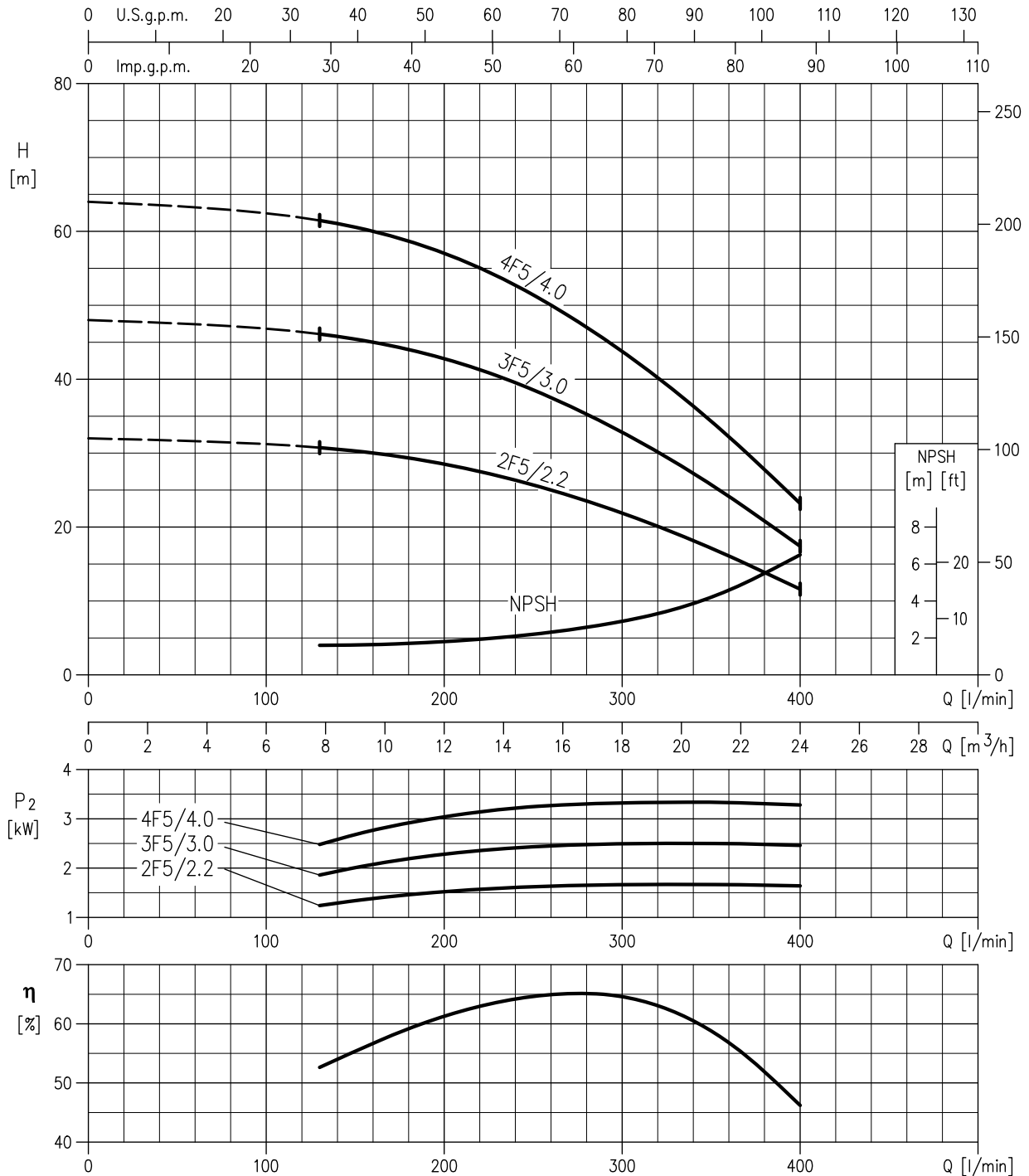
EVM(.)10 MEI > 0.70 - Impeller diameter =96 mm



Rotation speed ≈ 2850 min<sup>-1</sup>  
 Test standard: ISO 9906-Annex A

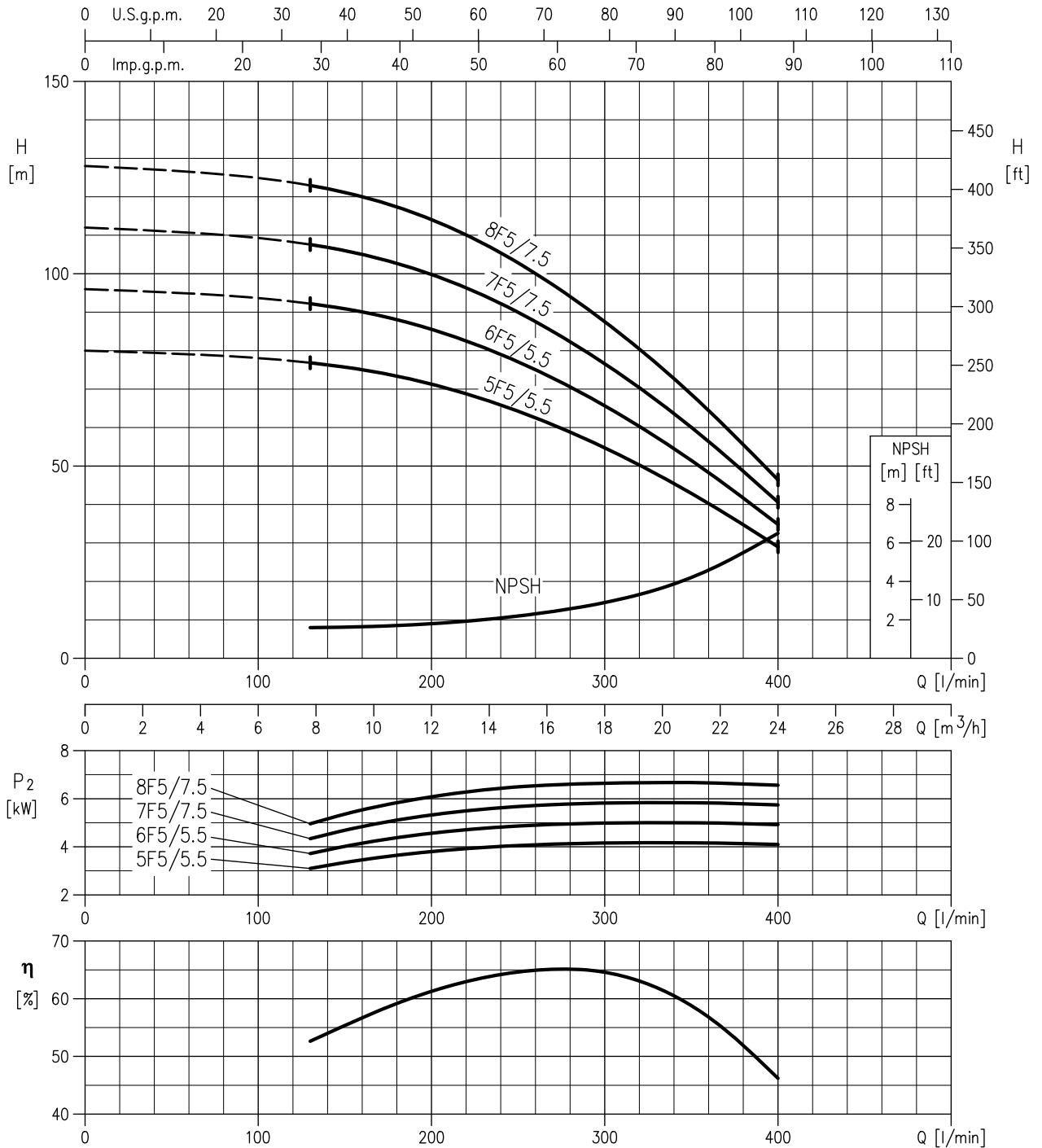


EVM(.)18 MEI > 0.60 - Impeller diameter =115 mm



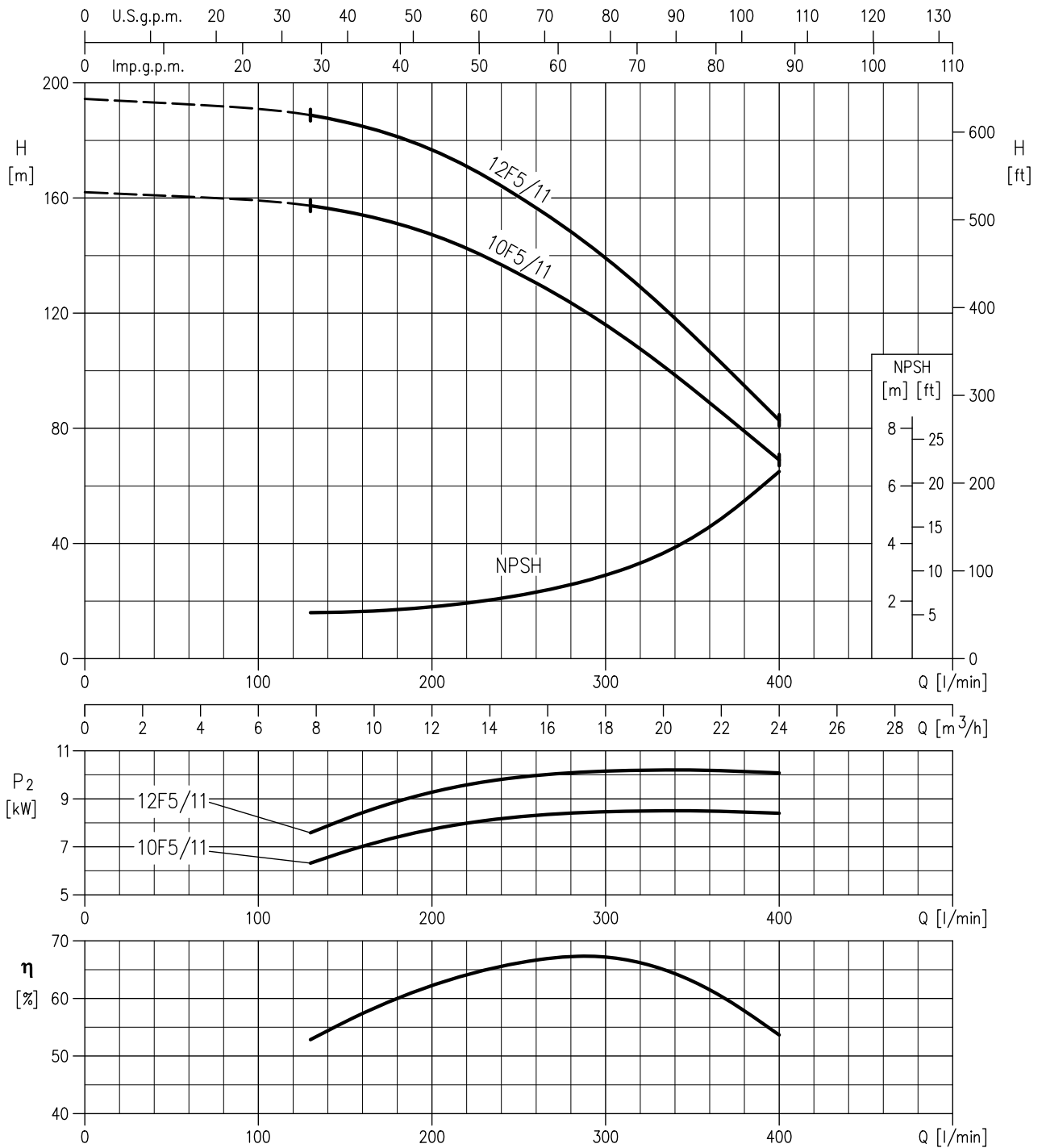
Rotation speed ≈ 2850 min<sup>-1</sup>  
 Test standard: ISO 9906-Annex A

EVM(.)18 MEI > 0.60 - Impeller diameter =115 mm



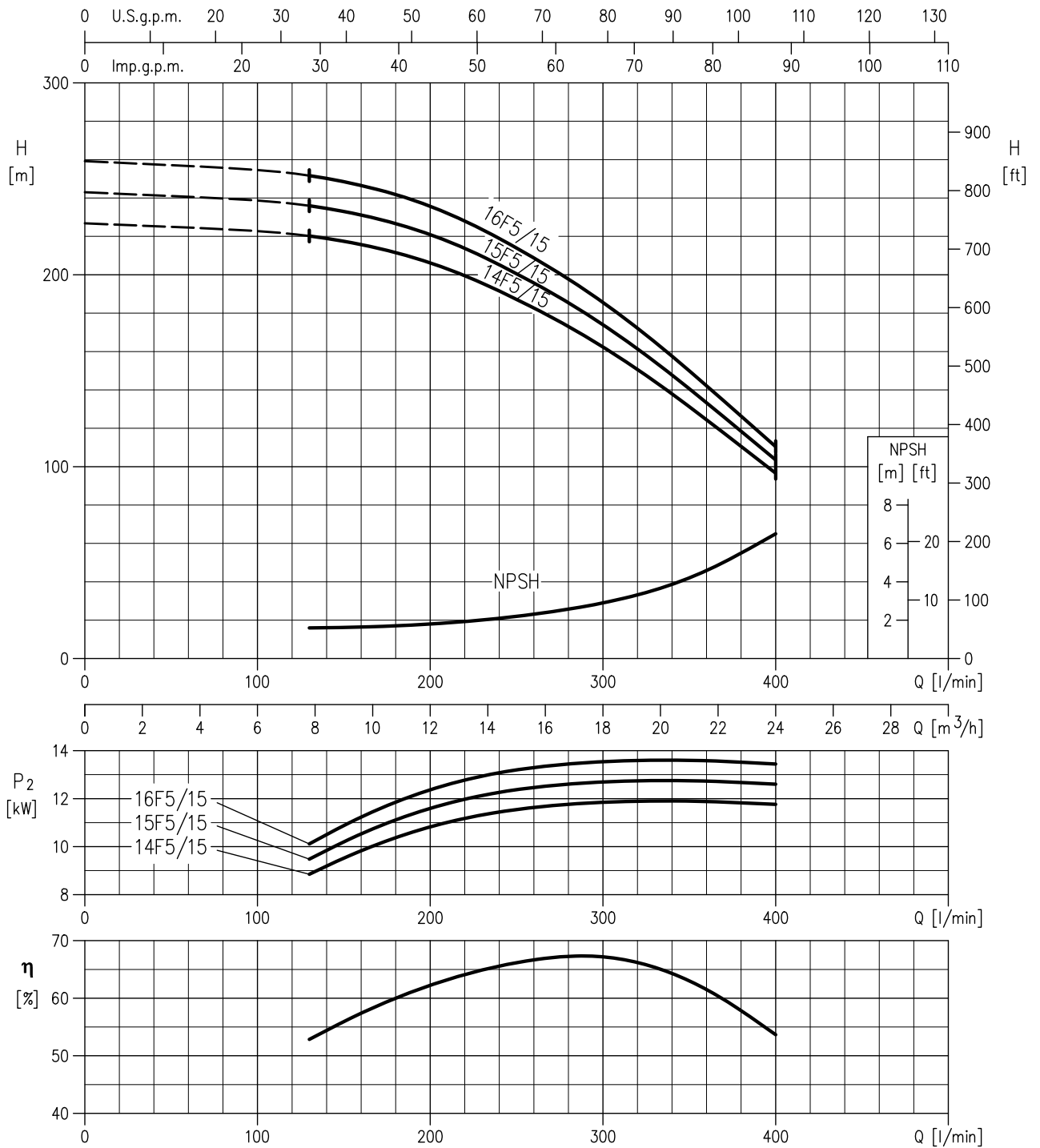
Rotation speed ≈ 2850 min<sup>-1</sup>  
 Test standard: ISO 9906-Annex A

EVM(.)18 MEI > 0.60 - Impeller diameter =115 mm



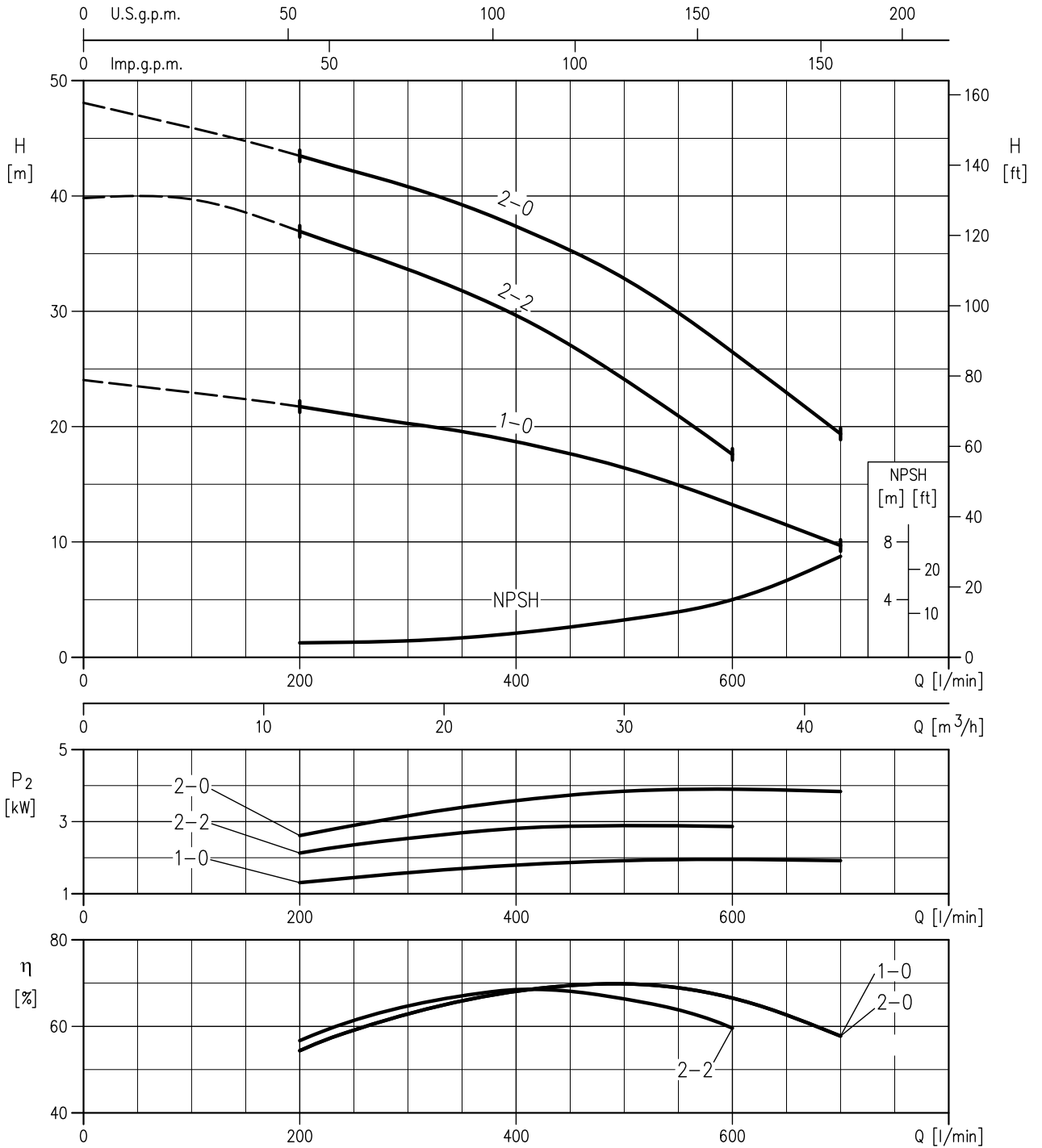
Rotation speed  $\approx 2850 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

EVM(.)18 MEI > 0.60 - Impeller diameter =115 mm



Rotation speed ≈ 2850 min<sup>-1</sup>  
 Test standard: ISO 9906-Annex A

EVM32 1-0 F5 2.2 (2.2kW) MEI > 0.60 no.1 impeller diameter = 136 mm  
 EVM32 2-2F5 3.0 (3.0 kW) MEI > 0.60 no.2 impellers diameter = 125 mm  
 EVM32 2-0 F5 4.0 (4.0kW) MEI > 0.60 no.2 impellers diameter = 136 mm



Rotation speed ≈ 2900 min<sup>-1</sup>  
 Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

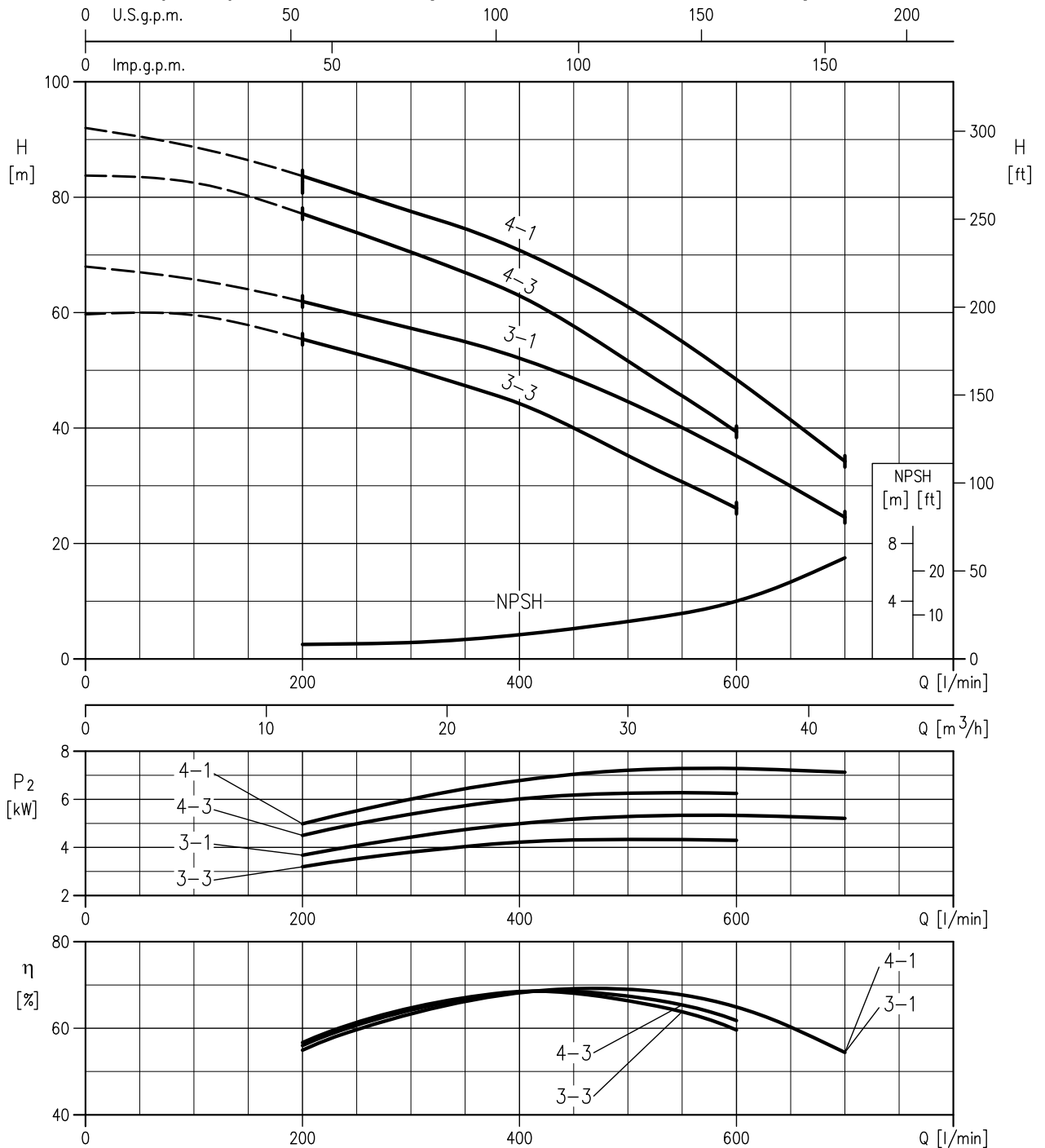
Rev. K

EVM32 3-3 F5 5.5 (5.5kW) MEI > 0.60 no.3 impellers diameter = 125 mm

EVM32 3-1 F5 5.5 (5.5kW) MEI > 0.60 no.2 impellers diameter = 136 mm / no. 1 impeller diameter = 125mm

EVM32 4-3 F5 7.5 (7.5kW) MEI > 0.60 no.1 impeller diameter = 136 mm / no. 3 impellers diameter= 125 mm

EVM32 4-1 F5 7.5 (7.5kW) MEI > 0.60 no.3 impellers diameter = 136 mm / no. 1 impeller diameter = 125 mm



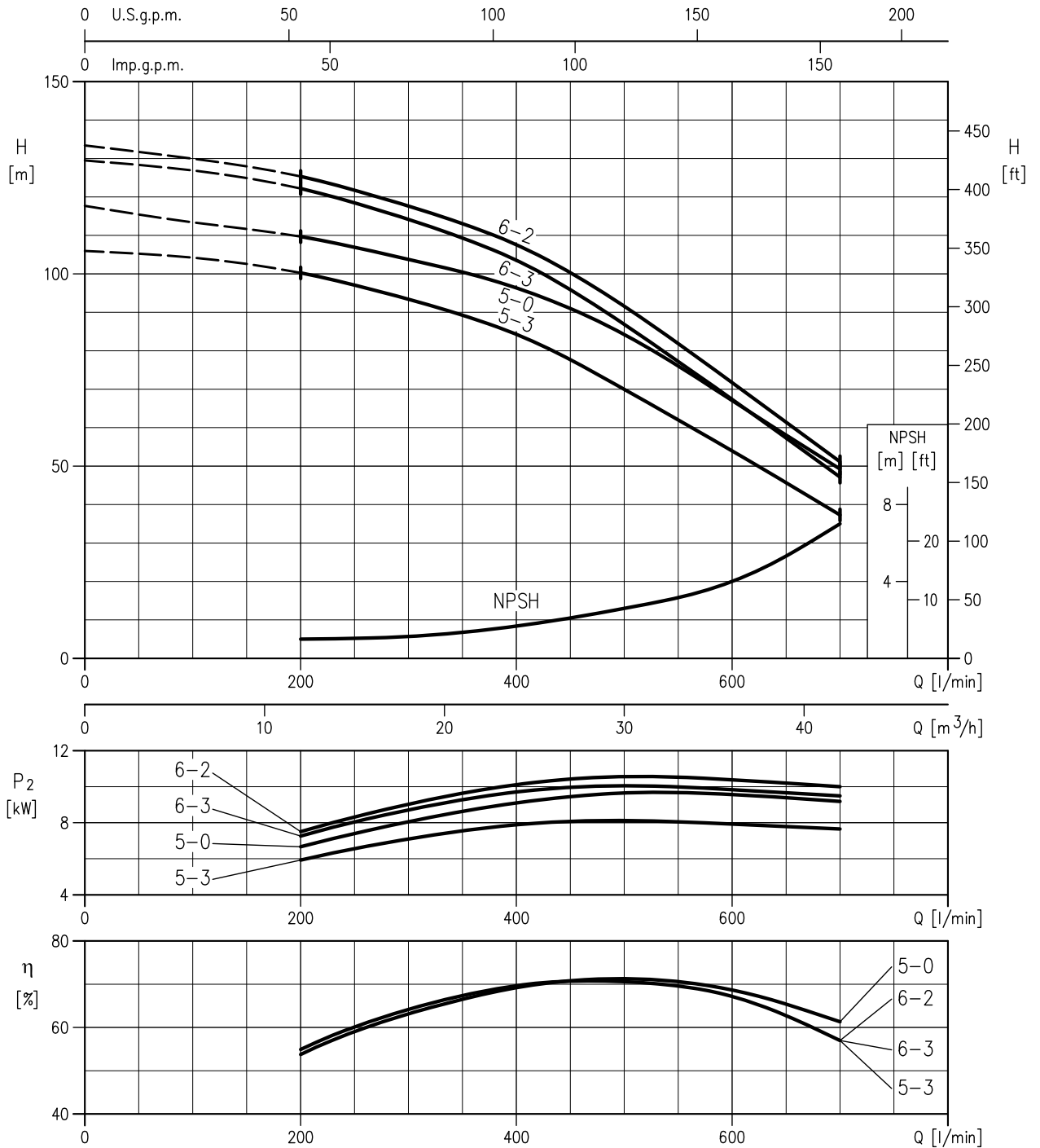
Rotation speed  $\approx 2900 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

Rev. K

EVM32 5-3 F5 11 (11kW) MEI > 0.60 no.2 impellers diameter = 136 mm / no.3 impellers diameter= 125 mm  
 EVM32 5-0 F5 11 (11kW) MEI > 0.60 no.5 impellers diameter = 136 mm  
 EVM32 6-3 F5 11 (11kW) MEI > 0.60 no.3 impellers diameter = 136 mm / no.3 impellers diameter= 125 mm  
 EVM32 6-2 F5 11 (11kW) MEI > 0.60 no. 6 impellers diameter = 136 mm / no.2 impellers diameter= 125mm



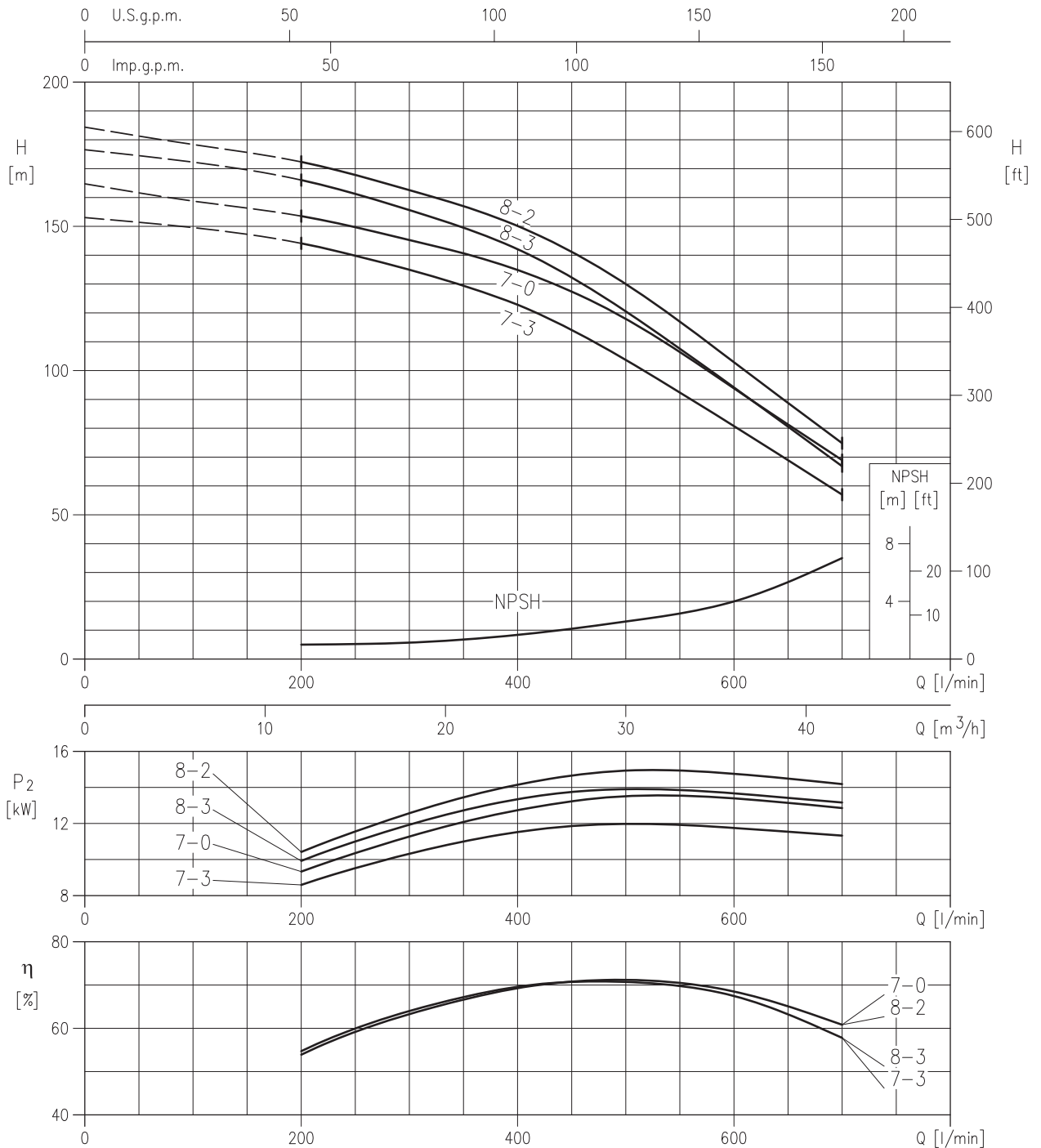
Rotation speed ≈ 2930 min<sup>-1</sup>  
 Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

Rev. K

EVM32 7-3 F5 15 (15kW) MEI > 0.60 no.4 impellers diameter = 136 mm / no.3 impellers diameter= 125 mm  
 EVM32 7-0 F5 15 (15kW) MEI > 0.60 no.7 impellers diameter = 136 mm  
 EVM32 8-3 F5 15 (15kW) MEI > 0.60 no.5 impellers diameter = 136 mm / no.3 impellers diameter= 125 mm  
 EVM32 8-2 F5 15 (15kW) MEI > 0.60 no.6 impellers diameter = 136 mm / no. 2 impeller diameter = 125 mm



Rotation speed  $\approx 2930 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

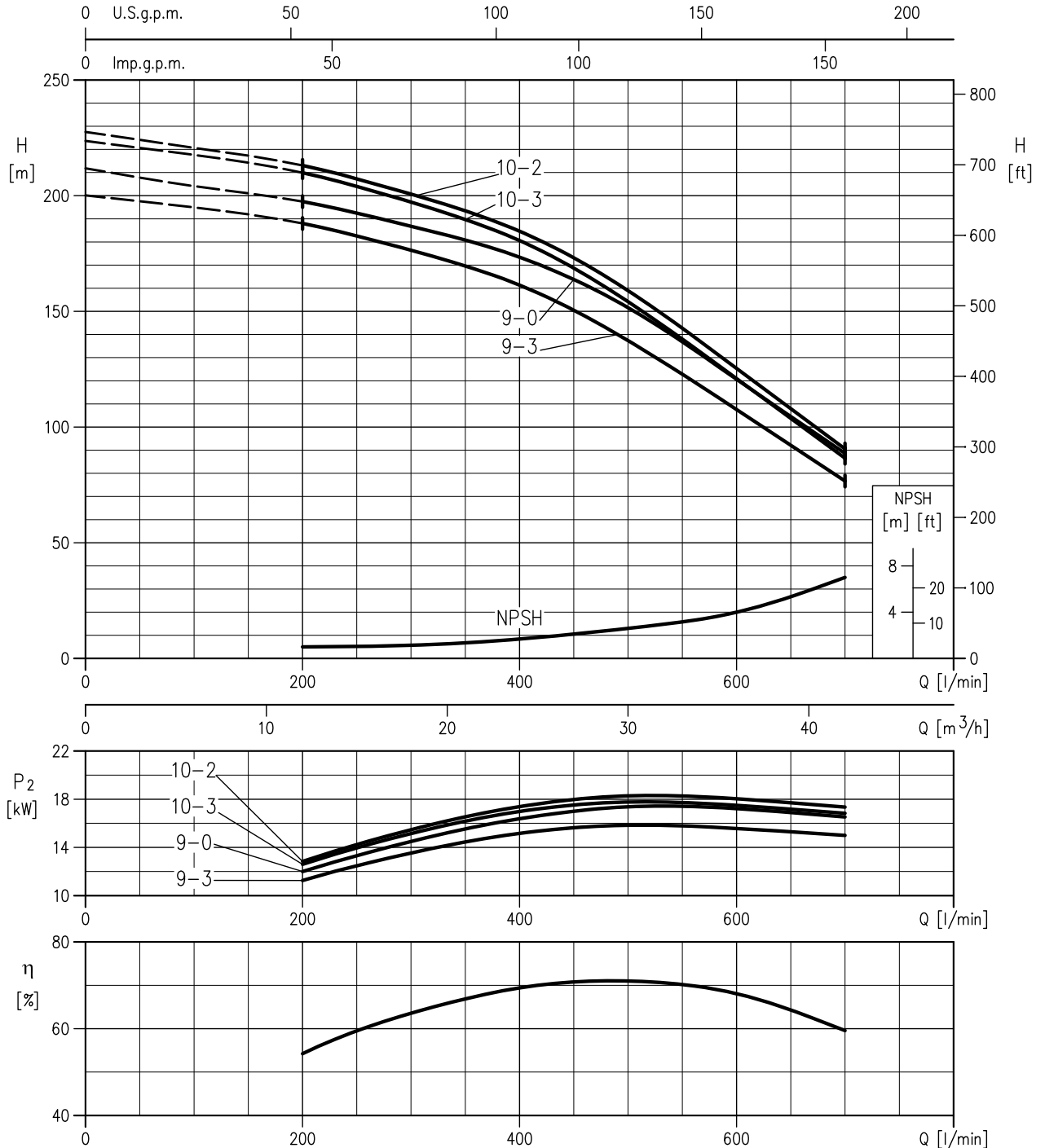


PERFORMANCE CURVE

50Hz

Rev. K

EVM32 9-3 F5 18.5 (18.5kW)MEI>0.60 no.6 impellers diameter= 136 mm / no.3 impellers diameter = 125 mm  
 EVM32 9-0 F5 18.5 (18.5kW)MEI > 0.60 no.9 impellers diameter= 136 mm  
 EVM32 10-3 F5 18.5 (18.5kW)MEI>0.60no.7 impellers diameter= 136 mm / no.3 impellers diameter = 125 mm  
 EVM32 10-2 F5 18.5 (18.5kW)MEI>0.60no.8 impellers diameter= 136 mm / no.2 impeller diameter = 125 mm



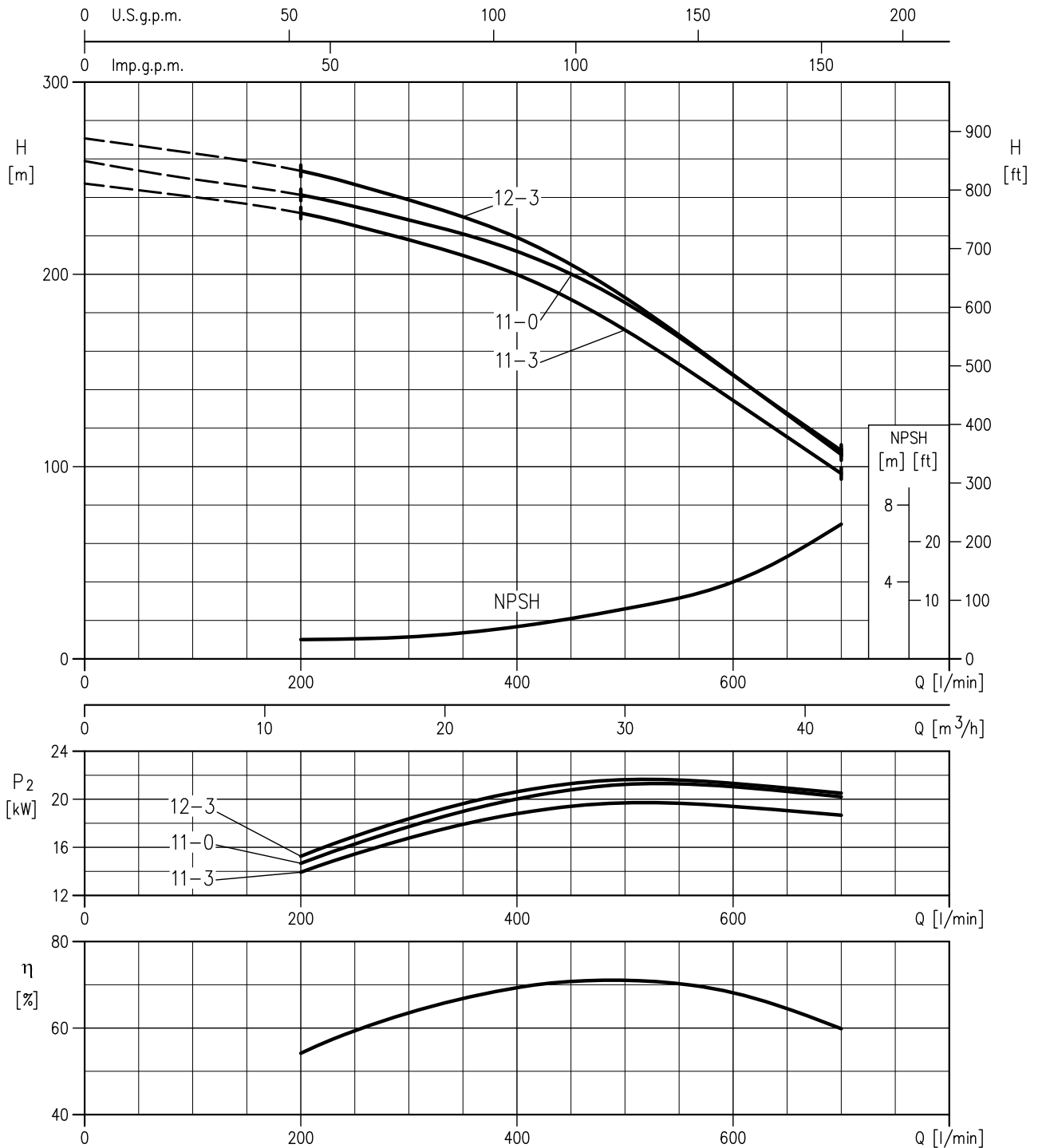
Rotation speed  $\approx 2930 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

Rev. K

EVM32 11-3 F5 22 (22kW) MEI>0.60 no. 8 impellers diameter= 136 mm / no.3 impellers diameter = 125 mm  
 EVM32 11-0 F5 22 (22kW) MEI>0.60 no.11 impellers diameter= 136 mm  
 EVM32 12-3 F5 22 (22kW) MEI >0.60 no. 9 impellers diameter= 136 mm / no.3 impellers diameter = 125 mm



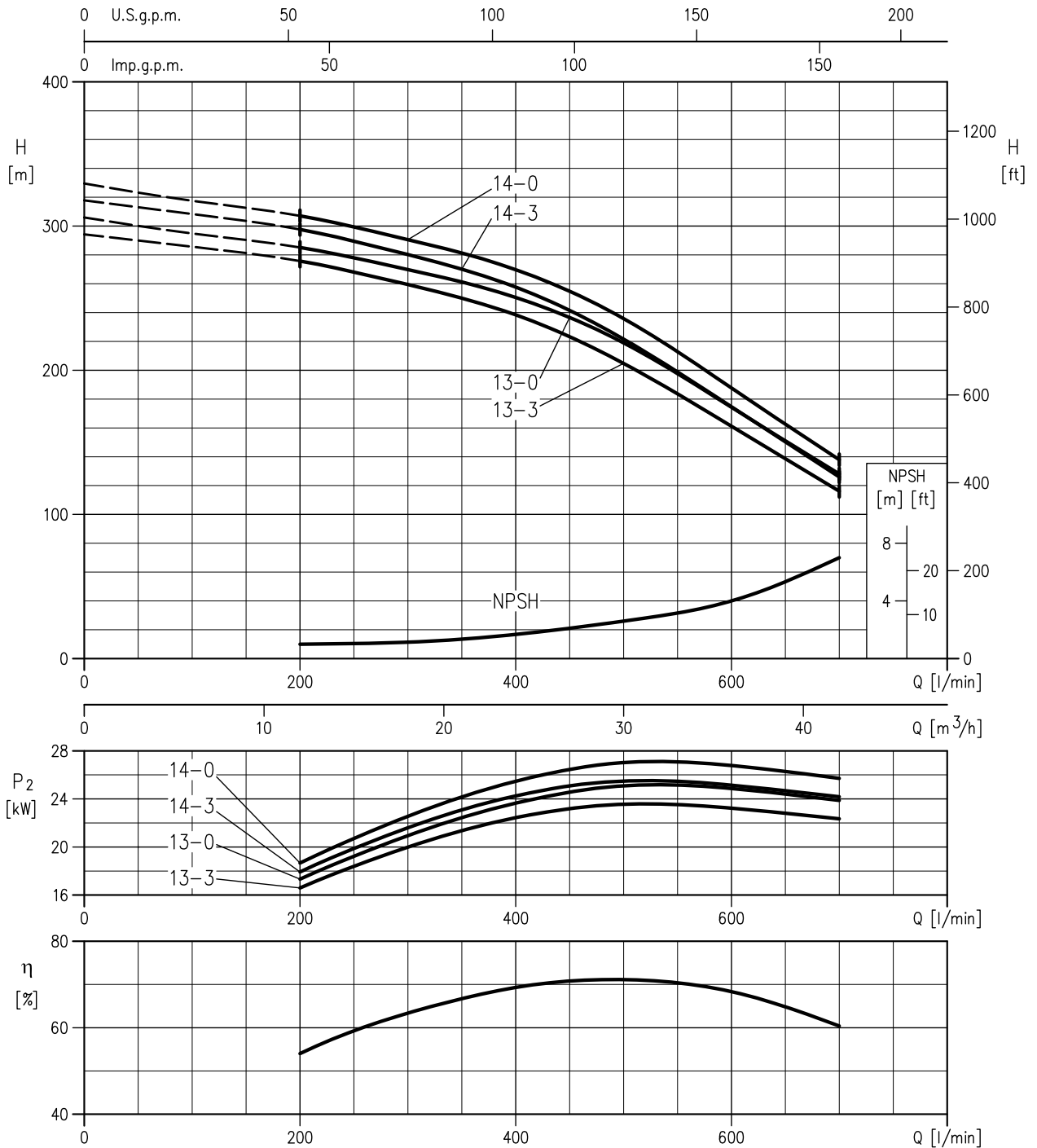
Rotation speed  $\approx 2930 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

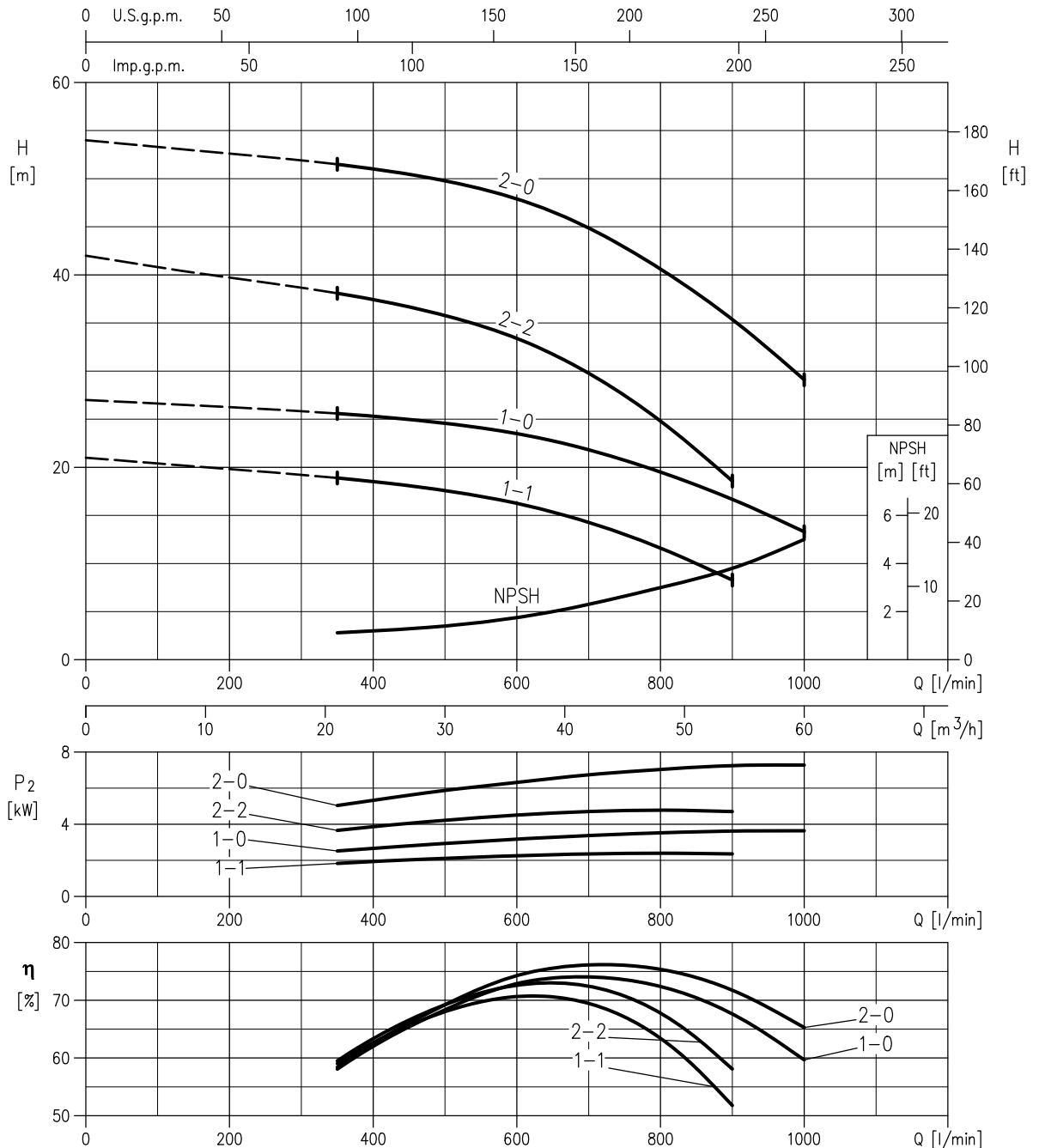
Rev. K

EVM32 13-3 F5 30 (30kW)MEI>0.60 no.10 impellers diameter= 136 mm / no.3 impellers diameter = 125 mm  
 EVM32 13-0 F5 30 (30kW)MEI>0.60 no.13 impellers diameter= 136 mm  
 EVM32 14-3 F5 30 (30kW)MEI>0.60 no.11 impellers diameter= 136 mm / no.3 impellers diameter = 125 mm  
 EVM32 14-0 F5 30 (30kW)MEI>0.60 no.14 impellers diameter= 136 mm /no.1 impellers diameter = 125 mm



Rotation speed  $\approx 2960 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

EVM45 1-1 F5 3.0 (3.0kW) MEI > 0.70 no.1 impeller diameter = 127 mm  
 EVM45 1-0 F5 4.0 (4.0kW) MEI > 0.70 no.1 impeller diameter = 143 mm  
 EVM45 2-2 F5 5.5 (5.5kW) MEI > 0.70 no.2 impellers diameter = 127 mm  
 EVM45 2-0 F5 7.5 (7.5kW) MEI > 0.70 no.2 impellers diameter = 143 mm



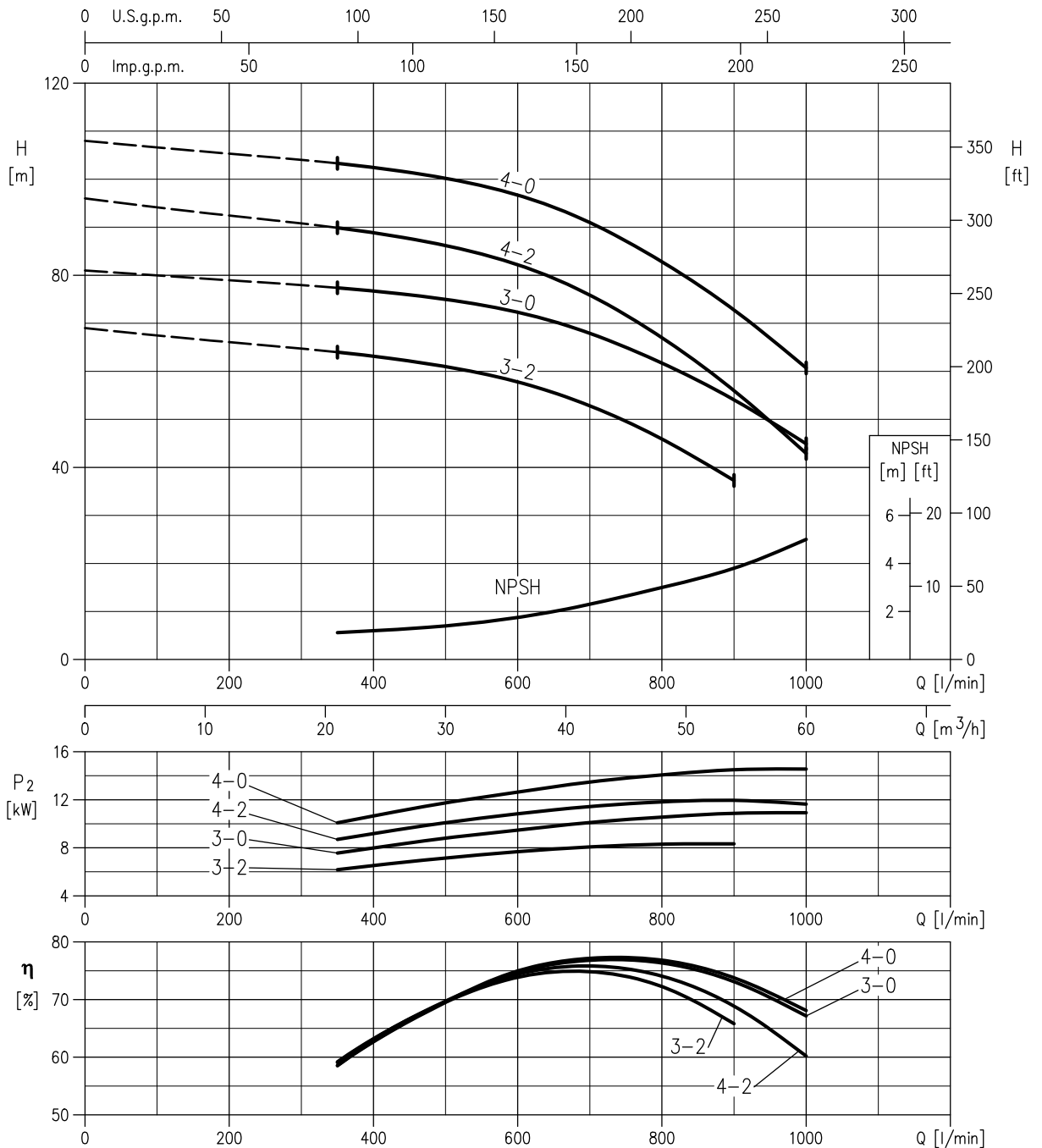
Rotation speed  $\approx 2900 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

Rev. K

EVM45 3-2 F5 11 (11kW) MEI > 0.70 no.1 impeller diameter = 143 mm / no.2 impellers diameter= 127 mm  
 EVM45 3-0 F5 11 (11kW) MEI > 0.70 no.3 impellers diameter = 143 mm  
 EVM45 4-2 F5 15 (15kW) MEI > 0.70 no.2 impellers diameter = 143 mm / no.2 impellers diameter= 127 mm  
 EVM45 4-0 F5 15 (15kW) MEI > 0.70 no.4 impellers diameter = 143 mm



Rotation speed  $\approx 2930 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

## PERFORMANCE CURVE

50Hz

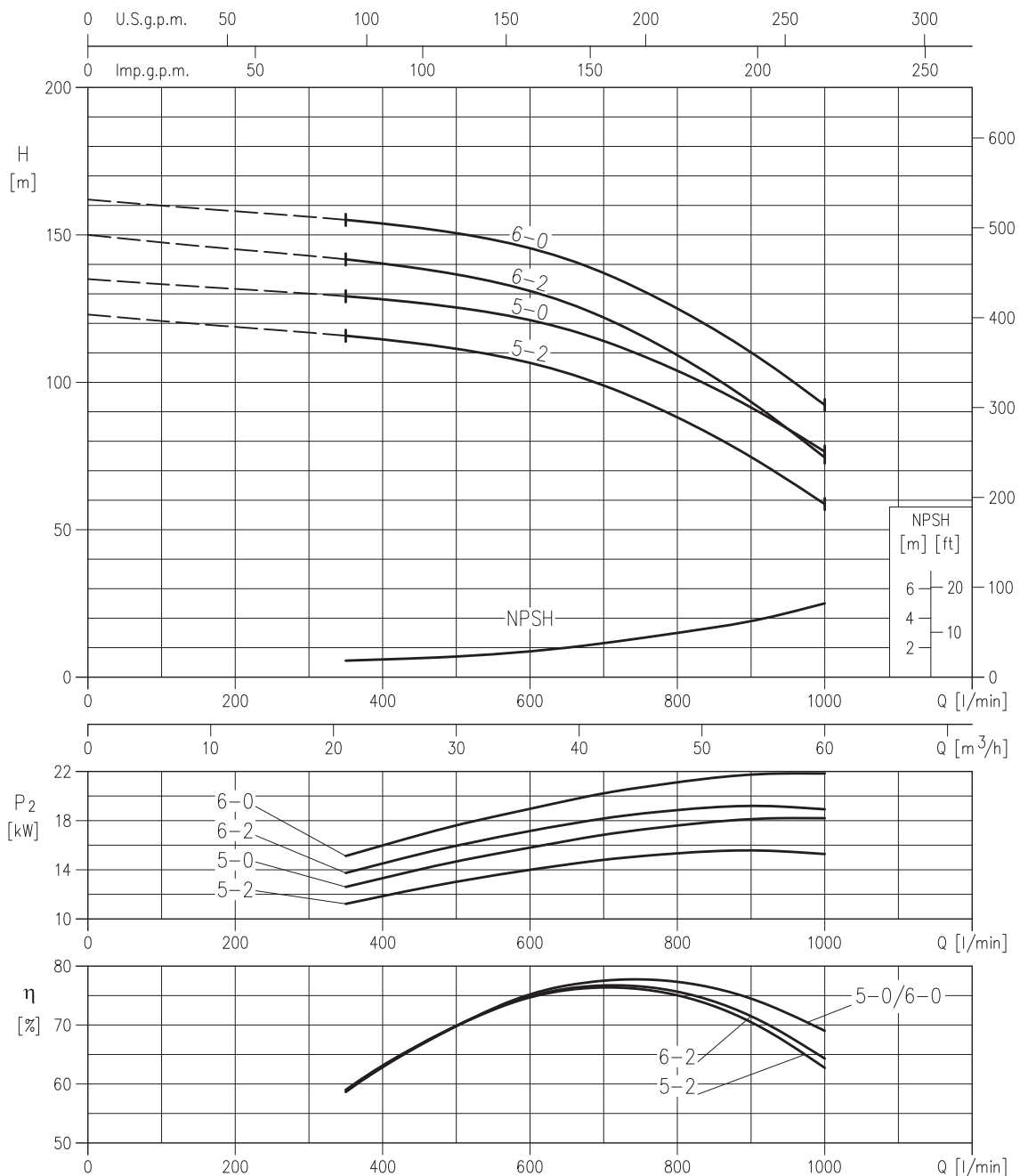
Rev. K

**EVM45 5-2 F5 18.5 (18.5kW) MEI>0.70 no.3 impellers diameter = 143 mm/no.2 impellers diameter= 127 mm**

**EVM45 5-0 F5 18.5 (18.5kW) MEI > 0.70 no.5 impellers diameter = 143 mm**

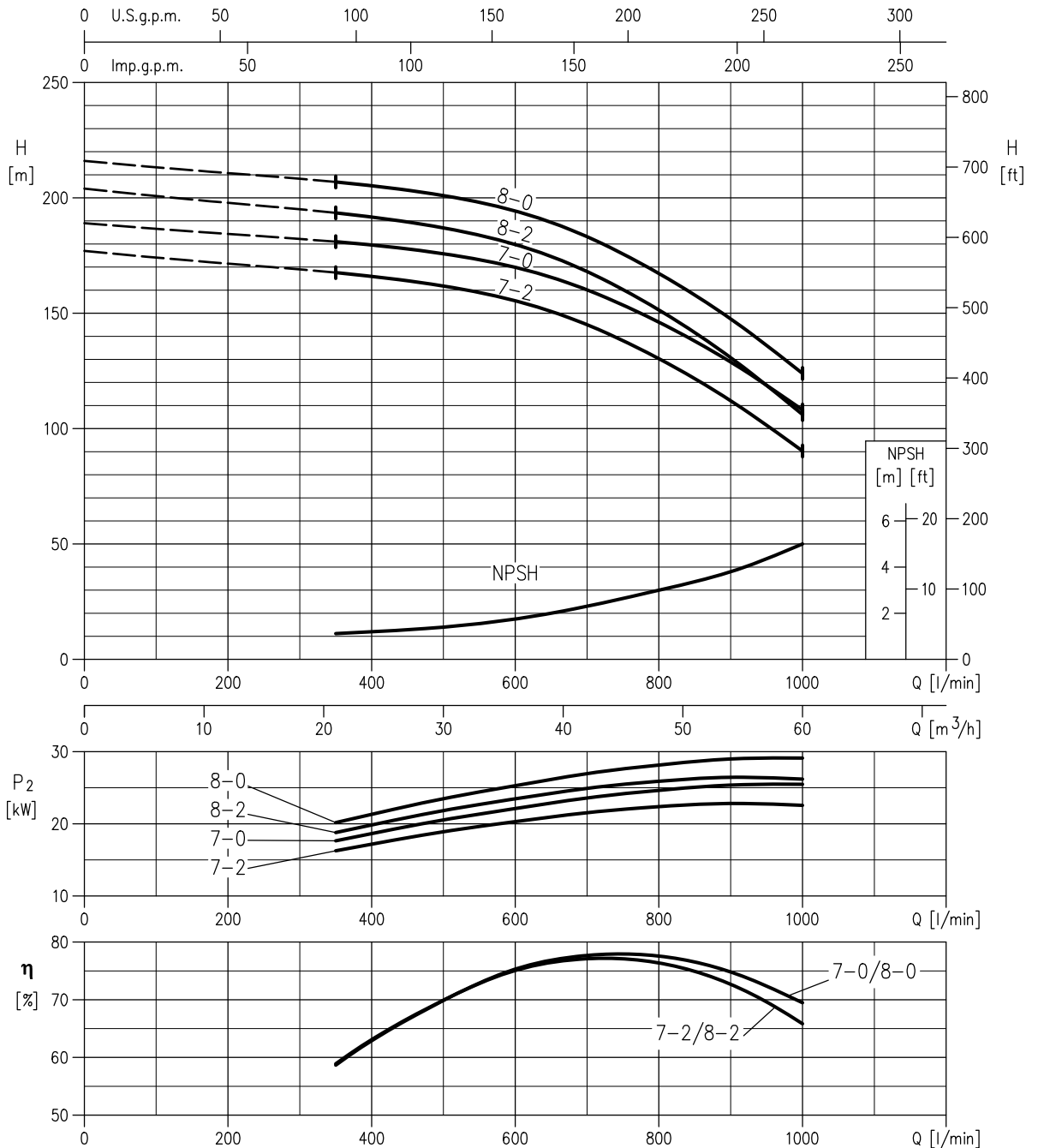
**EVM45 6-2 F5 22 (22kW) MEI > 0.70 no.4 impellers diameter = 143 mm / no.2 impellers diameter= 127 mm**

**EVM45 6-0 F5 22 (22kW) MEI > 0.70 no.6 impellers diameter = 143 mm**



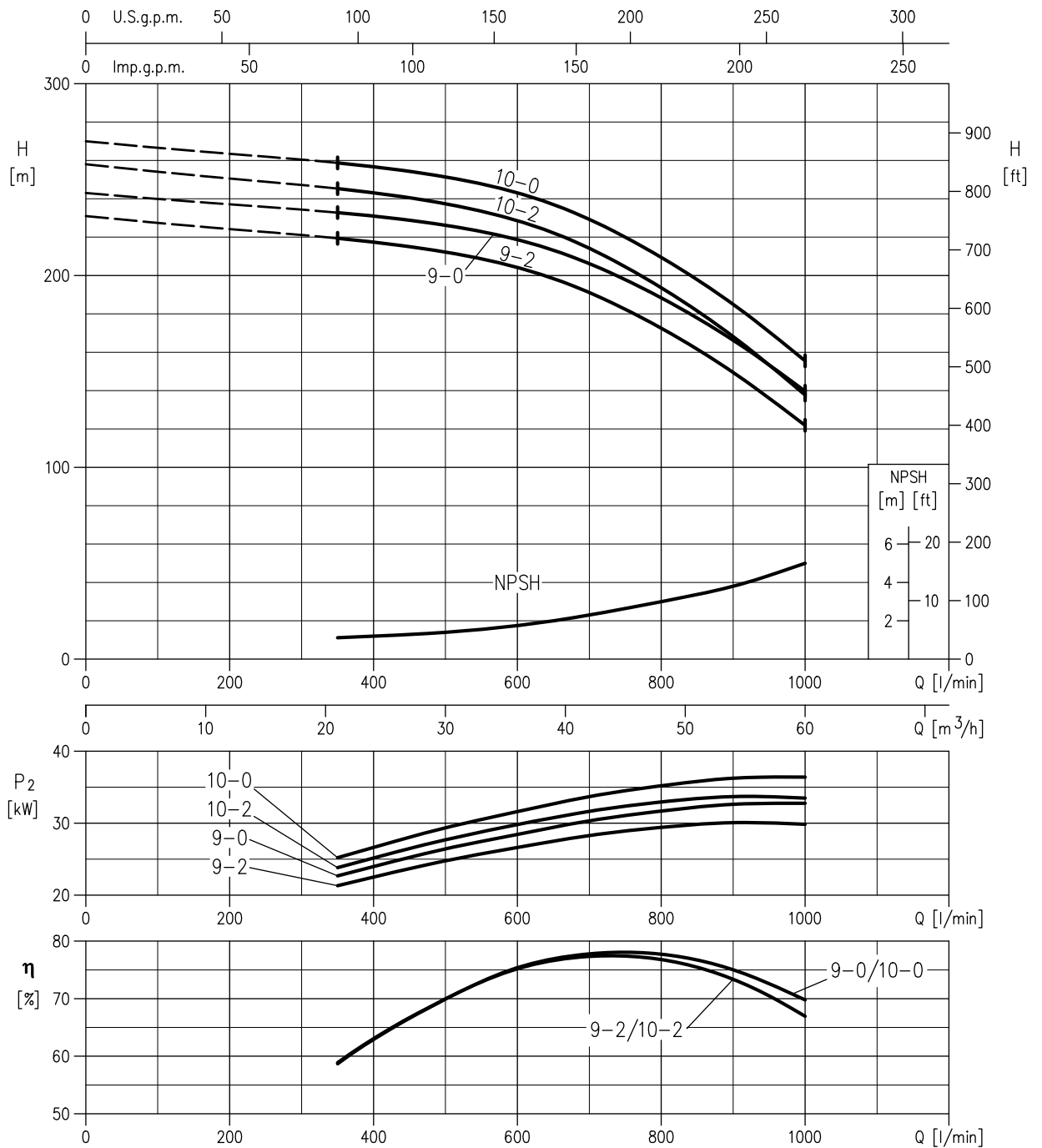
Rotation speed  $\approx 2940 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

EVM45 7-2 F5 30 (30kW) MEI > 0.70 no.5 impellers diameter = 143 mm / no.2 impellers diameter = 127 mm  
 EVM45 7-0 F5 30 (30kW) MEI > 0.70 no.7 impellers diameter = 143 mm  
 EVM45 8-2 F5 30 (30kW) MEI > 0.70 no.6 impellers diameter = 143 mm / no.2 impellers diameter = 127 mm  
 EVM45 8-0 F5 30 (30kW) MEI > 0.70 no.8 impellers diameter = 143 mm



Rotation speed  $\approx 2960 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

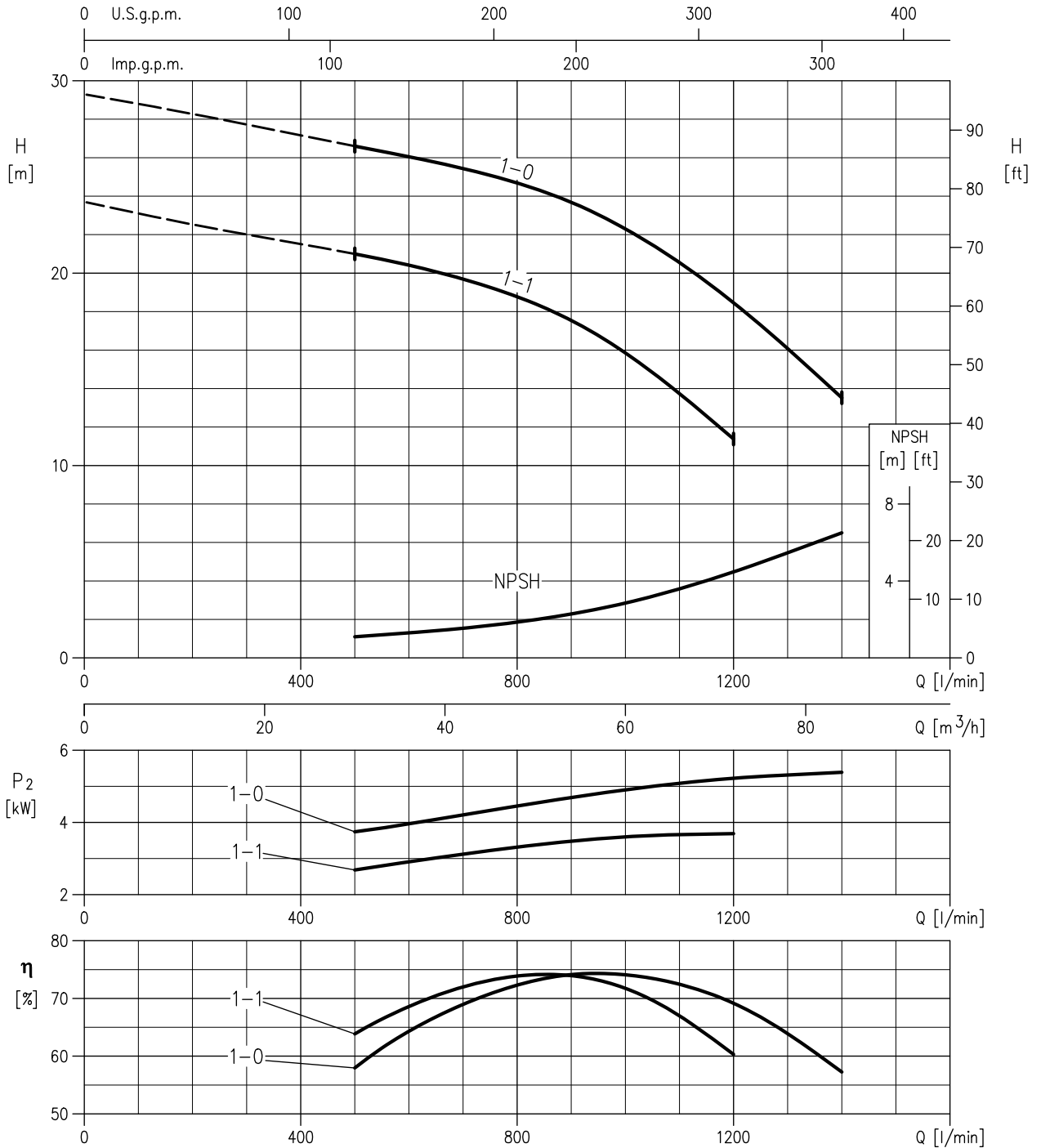
EVM45 9-2 F5 30 (30kW) MEI > 0.70 no.7 impellers diameter = 143 mm / no.2 impellers diameter = 127 mm  
 EVM45 9-0 F5 37 (37kW) MEI > 0.70 no.9 impellers diameter = 143 mm  
 EVM45 10-2 F5 37 (37kW) MEI > 0.70 no.8 impellers diameter = 143 mm / no.2 impellers diameter = 127 mm  
 EVM45 10-0 F5 37 (37kW) MEI > 0.70 no.10 impellers diameter = 143 mm



Rotation speed  $\approx 2960 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

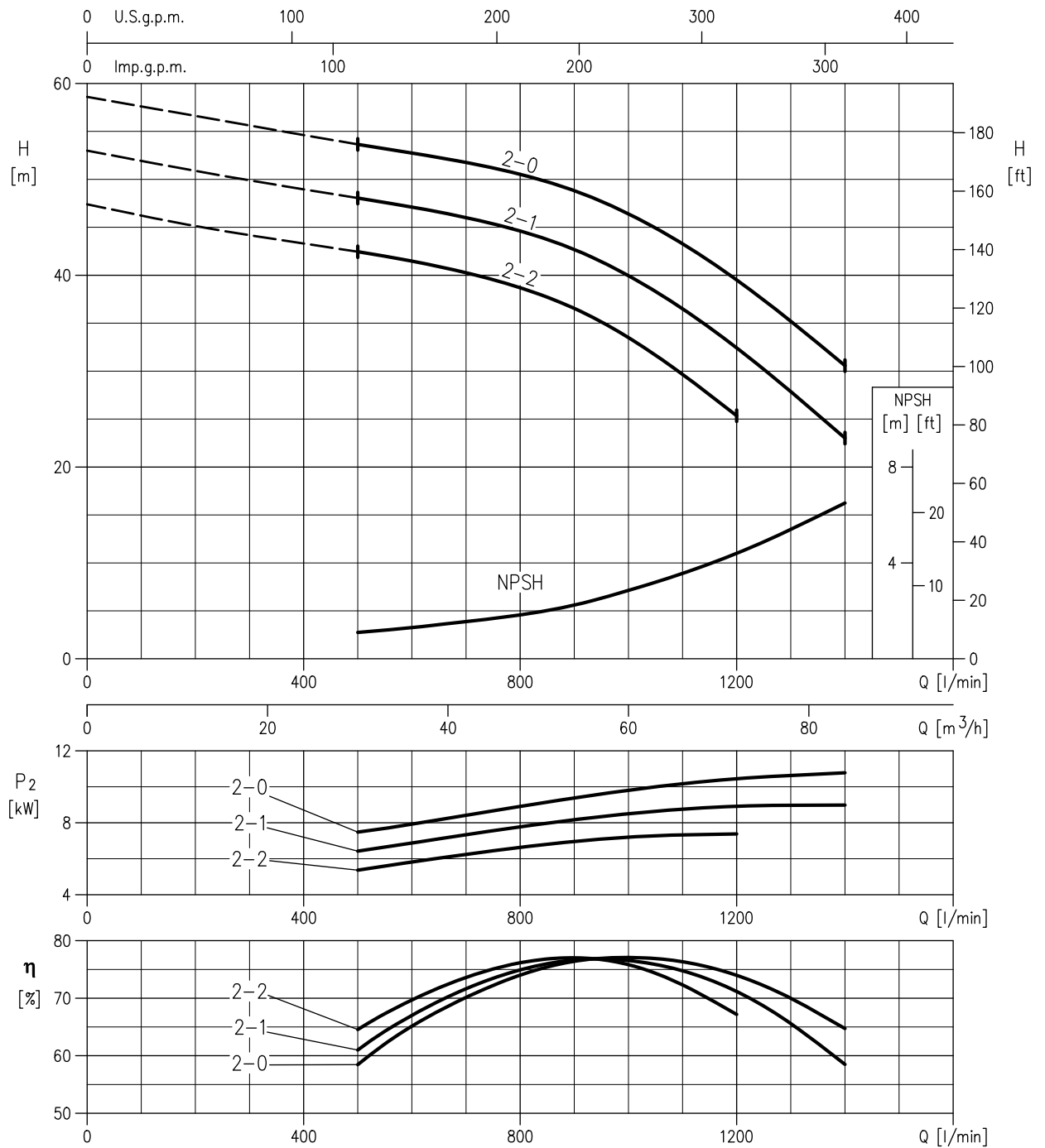


EVM64 1-1 F5 4.0 (4.0kW) MEI > 0.70 no.1 impeller diameter= 131 mm  
 EVM64 1-0 F5 5.5 (5.5kW) MEI > 0.70 no.1 impeller diameter= 143 mm



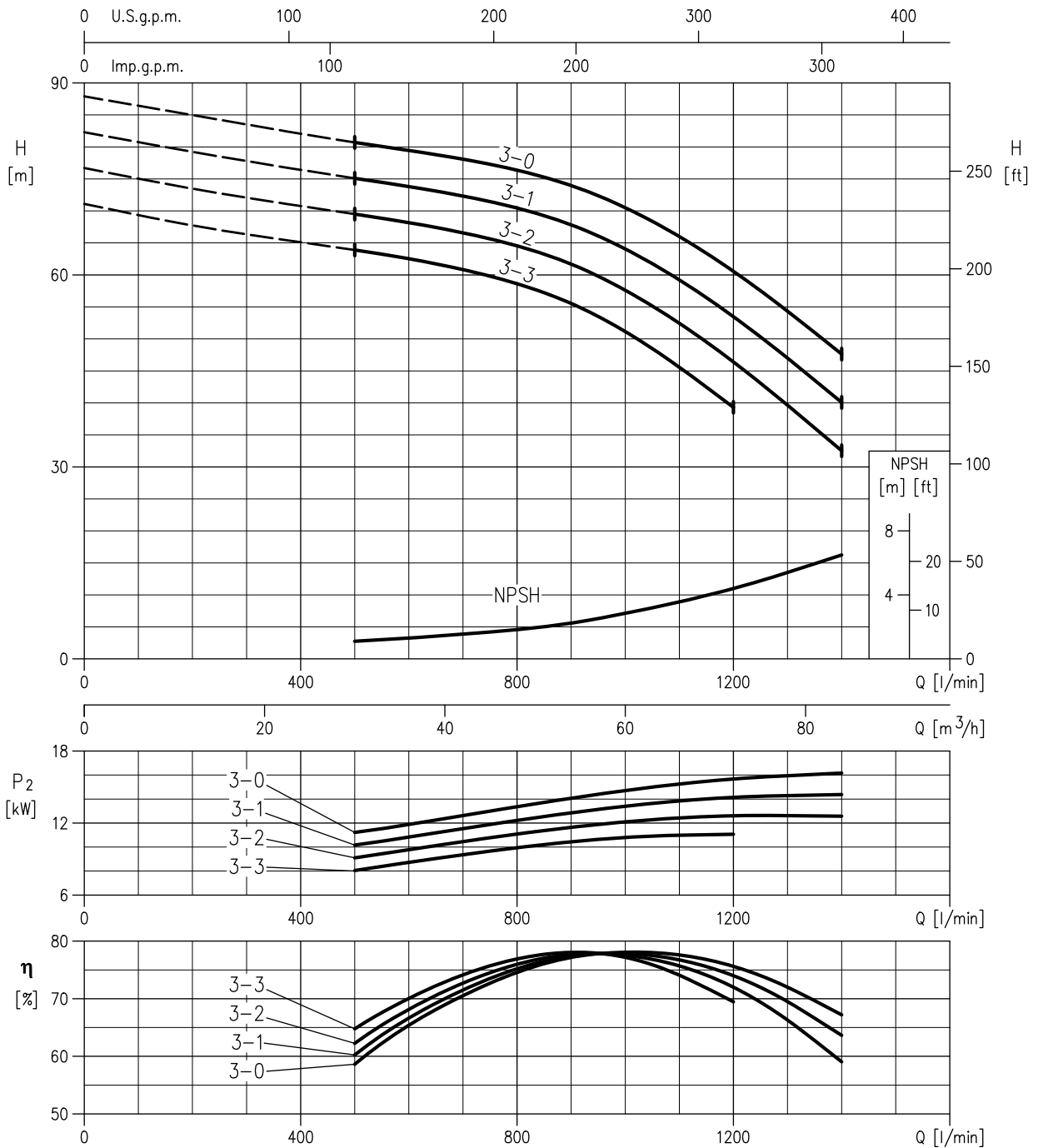
Rotation speed ≈ 2900 min<sup>-1</sup>  
 Test standard: ISO 9906-Annex A

EVM64 2-2 F5 7.5 (7.5kW) MEI > 0.70 no.2 impellers diameter = 131 mm  
 EVM64 2-1 F5 11 (11kW) MEI > 0.70 no.1 impeller diameter = 143 mm / no.1 impeller diameter = 131mm  
 EVM64 2-0 F5 11 (11kW) MEI > 0.70 no.2 impellers diameter = 143 mm



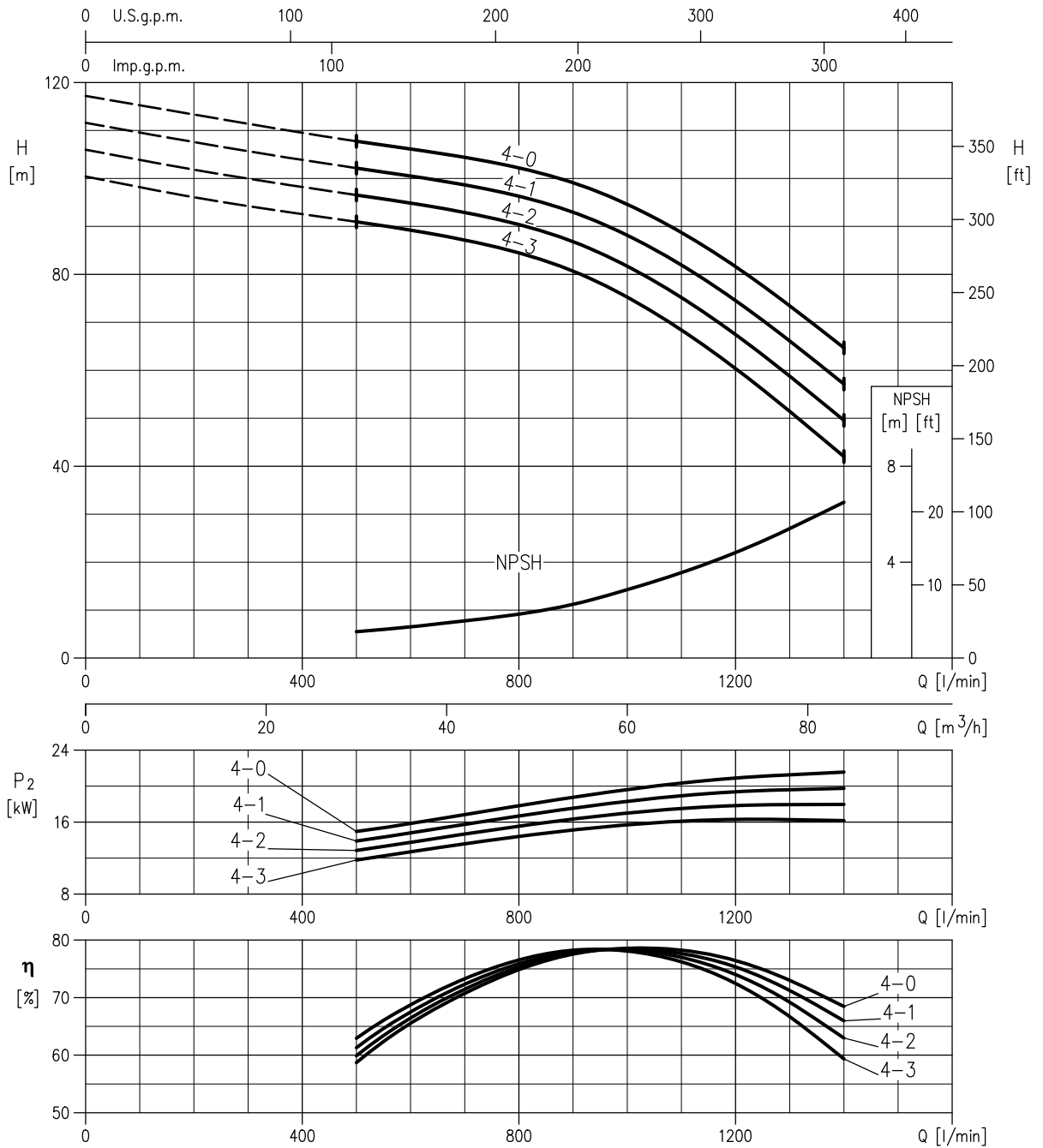
Rotation speed  $\approx 2930 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

EVM64 3-3 F5 15 (15kW) MEI > 0.70 no.3 impellers diameter = 131 mm  
 EVM64 3-2 F5 15 (15kW) MEI > 0.70 no.1 impeller diameter = 143 mm / no.2 impellers diameter = 131mm  
 EVM64 3-1 F5 15 (15kW) MEI > 0.70 no.2 impellers diameter = 143 mm / no.1 impeller diameter = 131mm  
 EVM64 3-0 F5 18.5 (18.5kW) MEI > 0.70 no.3 impellers diameter = 143 mm



Rotation speed  $\approx 2940 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

EVM64 4-3 F5 18.5 (18.5kW) MEI > 0.70 no.1 impeller diameter = 143 mm/no.3 impellers diameter = 131mm  
 EVM64 4-2 F5 18.5 (18.5kW) MEI > 0.70 no.2 impellers diameter = 143 mm/no.2 impellers diameter=131mm  
 EVM64 4-1 F5 22 (22kW) MEI > 0.70 no.3 impellers diameter = 143 mm / no.1 impeller diameter = 131mm  
 EVM64 4-0 F5 22 (22.5kW) MEI > 0.70 no.4 impellers diameter = 143 mm



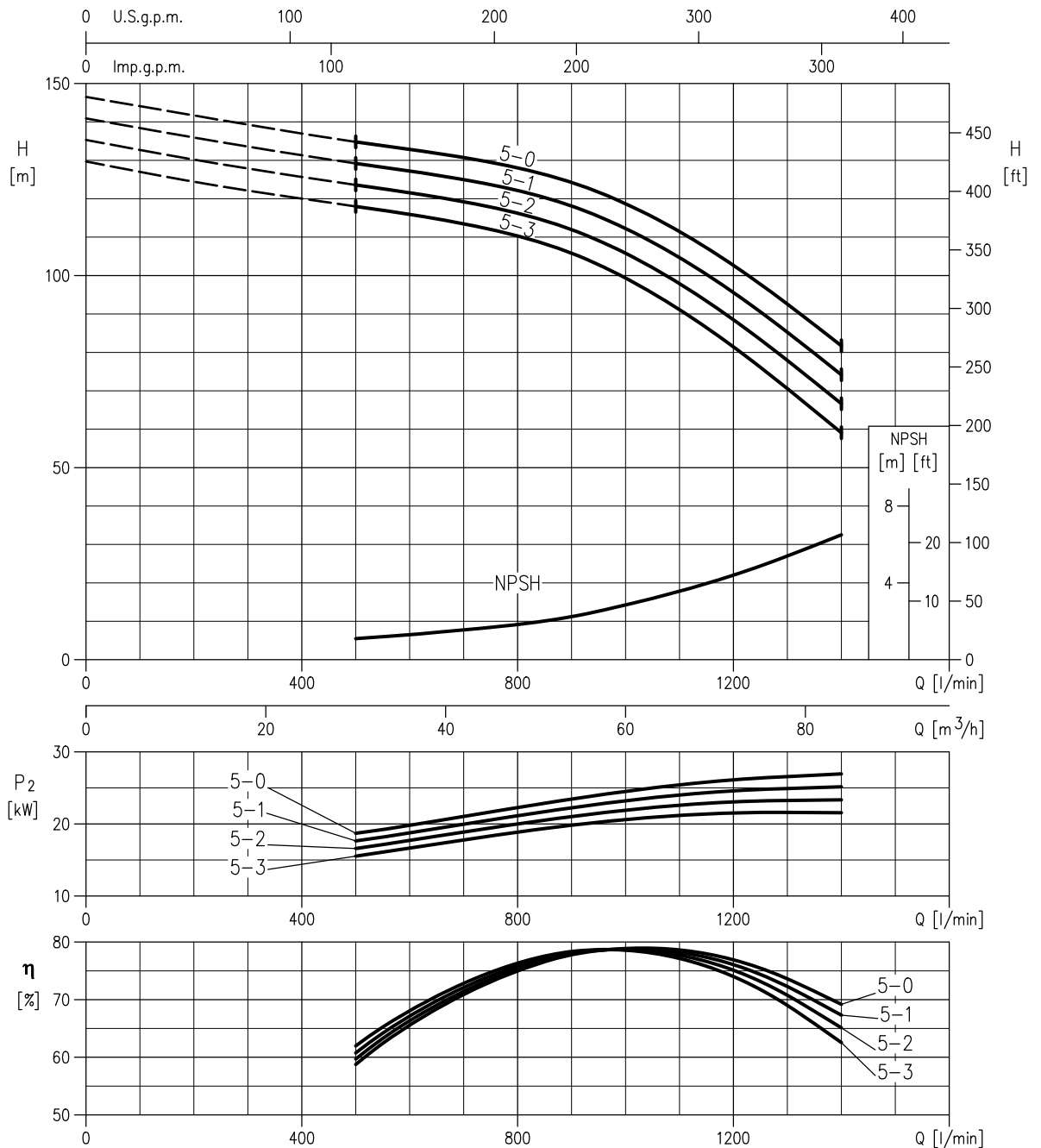
Rotation speed  $\approx 2940 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

Rev. K

EVM64 5-3 F5 30 (30kW) MEI > 0.70 no.2 impellers diameter = 143 mm / no.3 impellers diameter = 131mm  
 EVM64 5-2 F5 30 (30kW) MEI > 0.70 no.3 impellers diameter = 143 mm / no.2 impellers diameter = 131mm  
 EVM64 5-1 F5 30 (30kW) MEI > 0.70 no.4 impellers diameter = 143 mm / no.1 impeller diameter = 131mm  
 EVM64 5-0 F5 30 (30kW) MEI > 0.70 no.5 impellers diameter = 143 mm



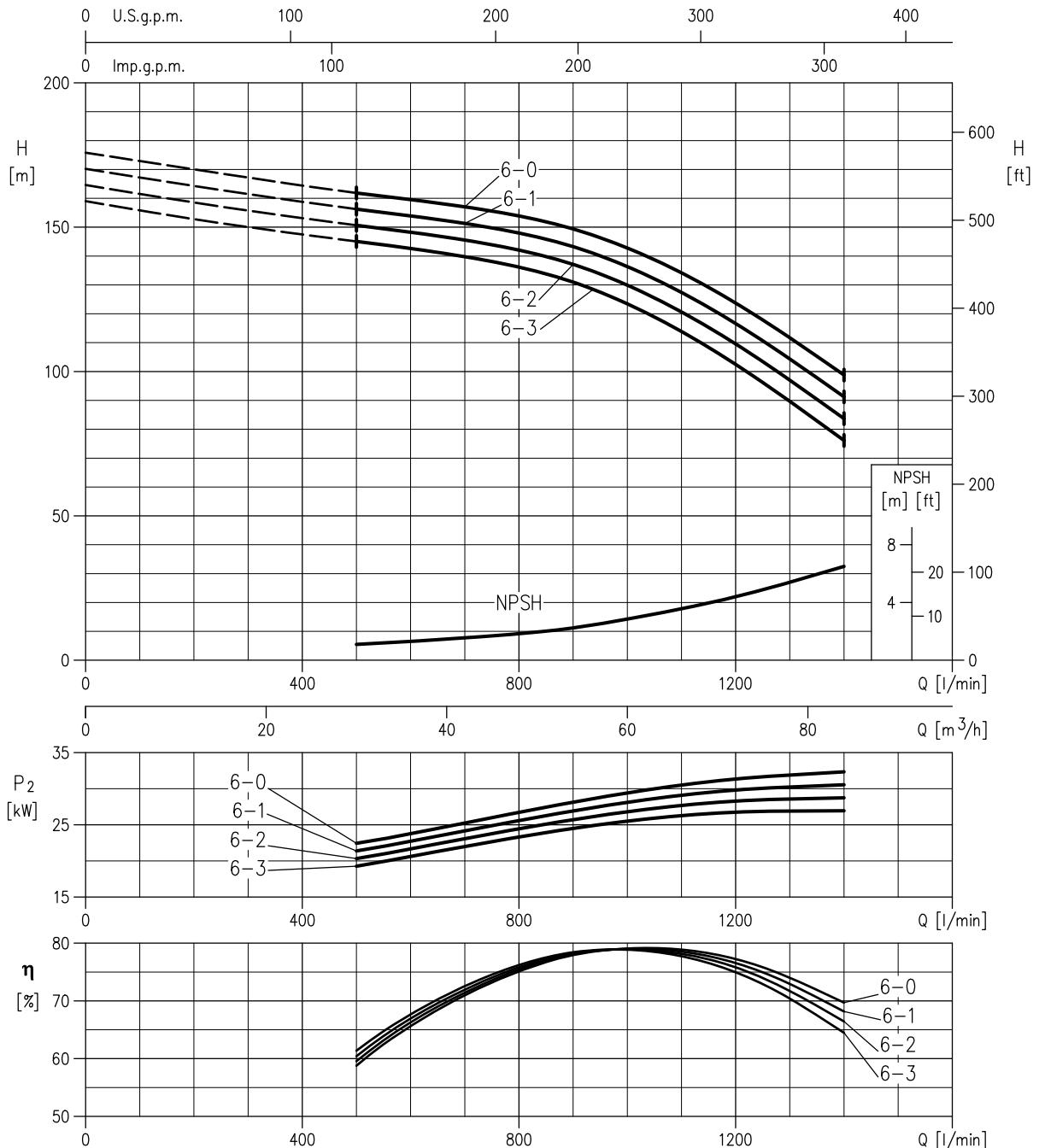
Rotation speed  $\approx 2960 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

Rev. K

EVM64 6-3 F5 30 (30kW) MEI > 0.70 no.3 impellers diameter = 143 mm / no.3 impellers diameter = 131mm  
 EVM64 6-2 F5 30 (30kW) MEI > 0.70 no.4 impellers diameter = 143 mm / no.2 impellers diameter = 131mm  
 EVM64 6-1 F5 37 (37kW) MEI > 0.70 no.5 impellers diameter = 143 mm / no.1 impeller diameter = 131mm  
 EVM64 6-0 F5 37 (37kW) MEI > 0.70 no.6 impellers diameter = 143 mm



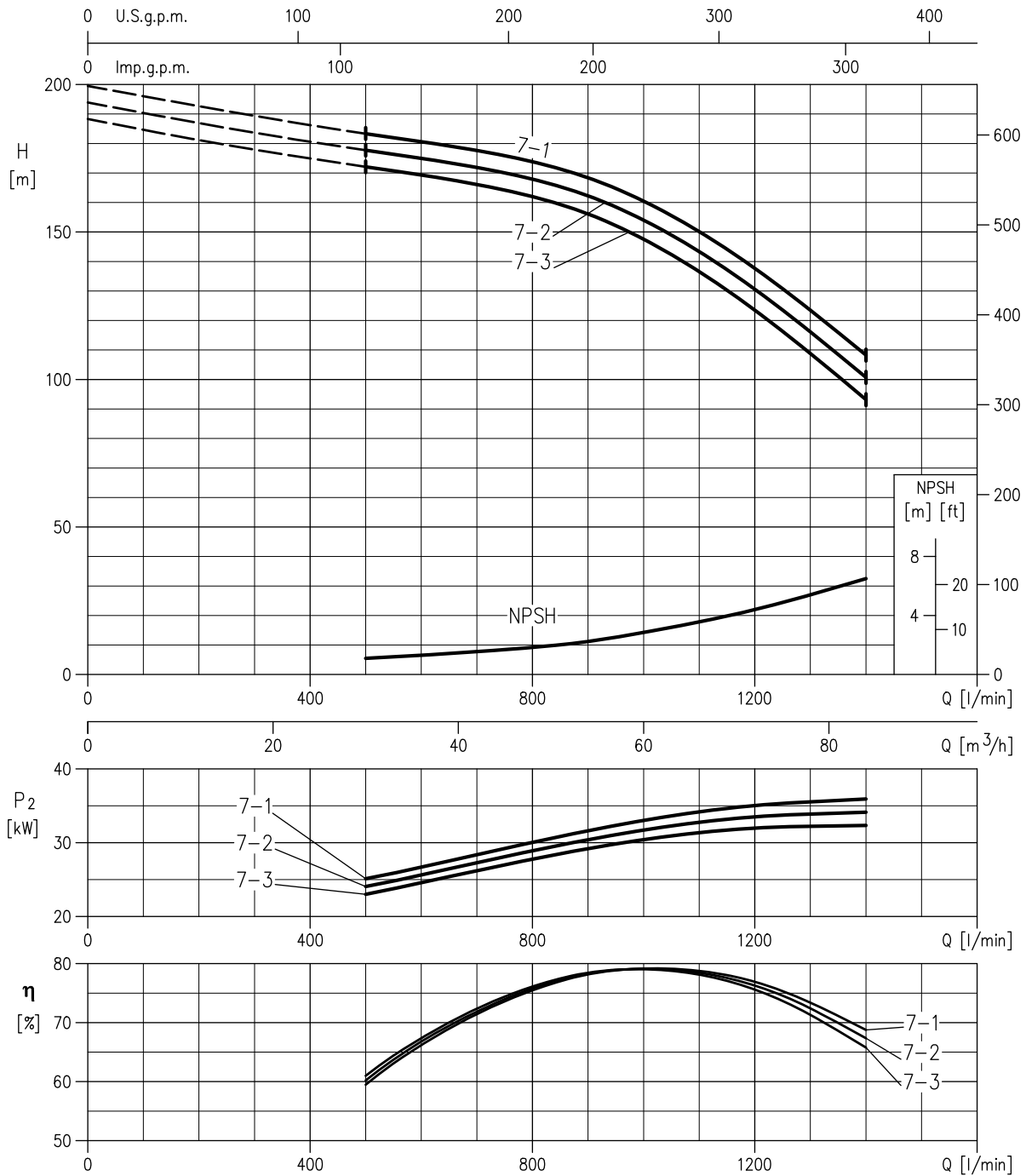
Rotation speed  $\approx 2960 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

PERFORMANCE CURVE

50Hz

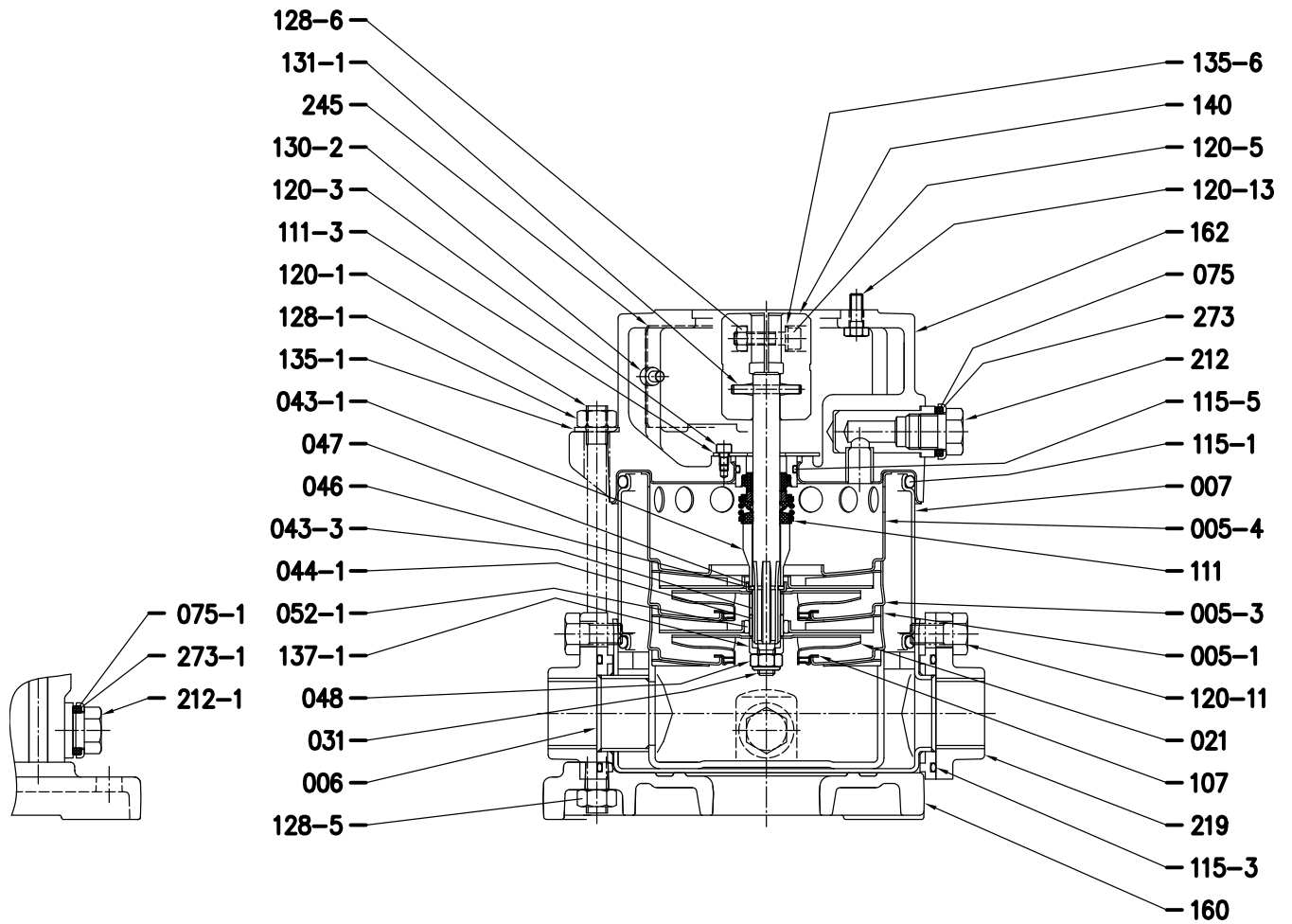
Rev. K

EVM64 7-3 F5 37 (37kW) MEI > 0.70 no.4 impellers diameter = 143 mm / no.3 impellers diameter = 131mm  
 EVM64 7-2 F5 37 (37kW)MEI > 0.70 no.5 impellers diameter = 143 mm / no.2 impellers diameter = 131mm  
 EVM64 7-1 F5 37 (37kW) MEI > 0.70 no.6 impellers diameter = 143 mm / no.1 impeller diameter = 131mm



Rotation speed  $\approx 2960 \text{ min}^{-1}$   
 Test standard: ISO 9906-Annex A

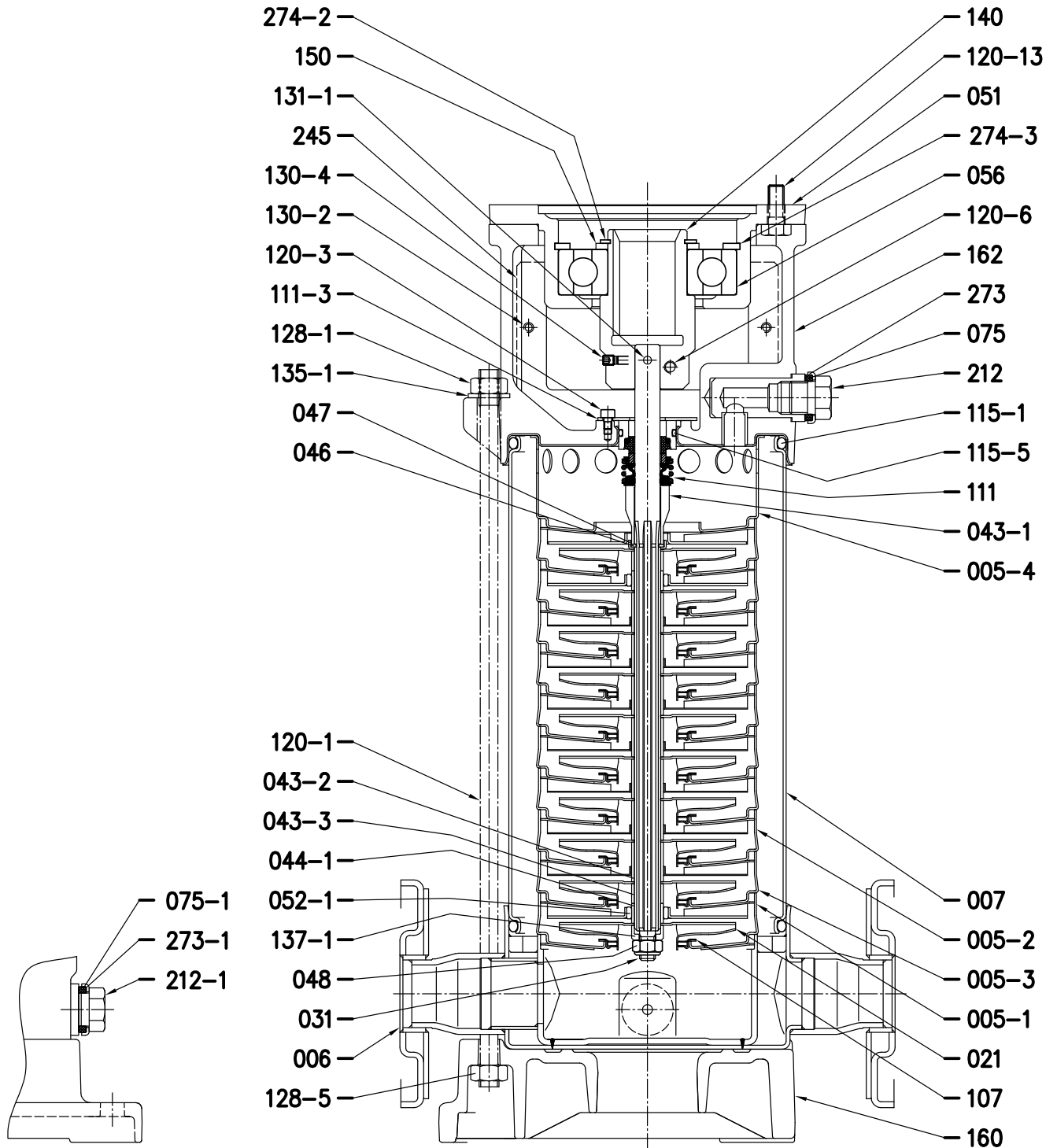
SECTIONAL VIEW  
EVM(.) 3  
Pump without ball bearing



See dimensions page 401

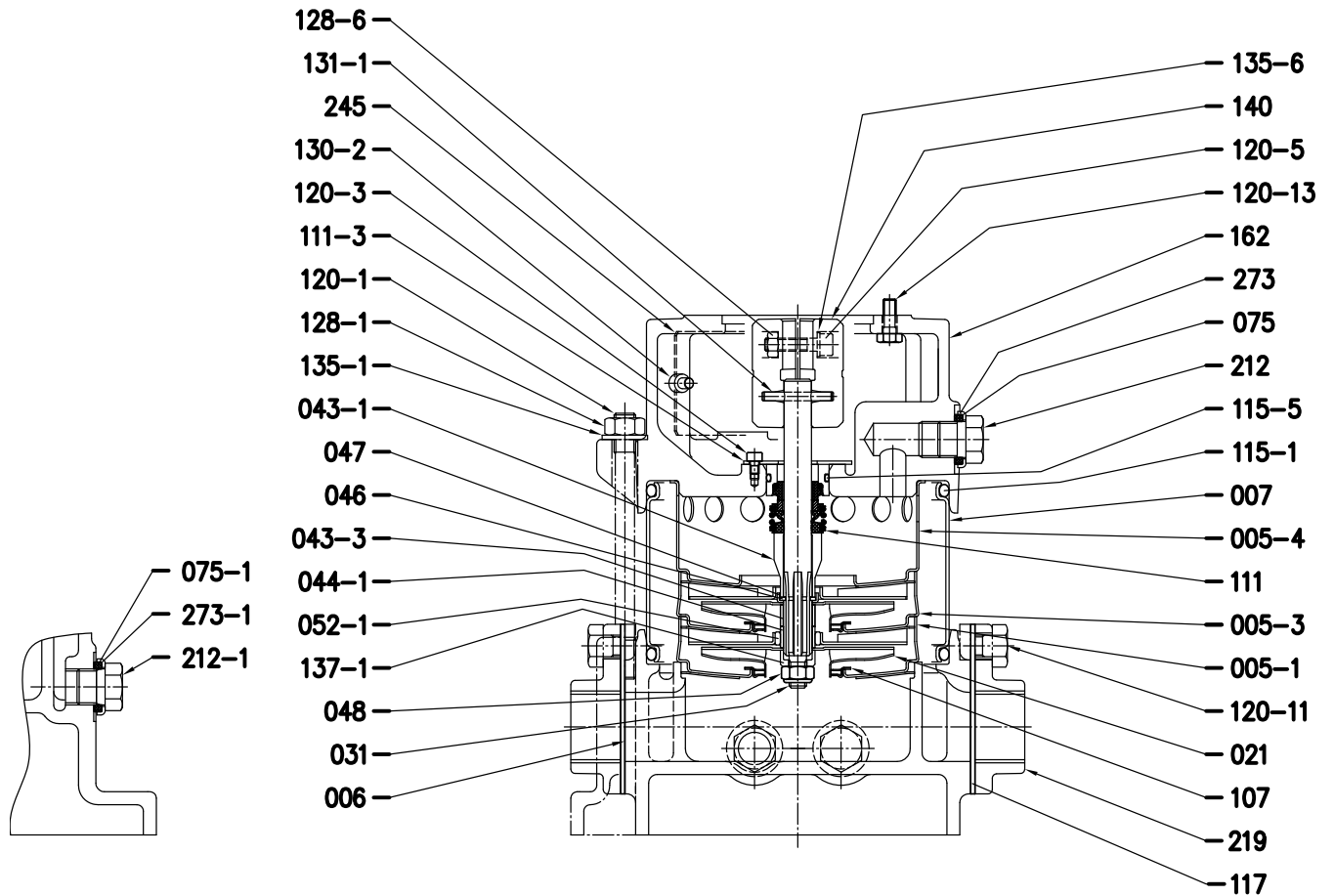


**EVM(.) 3**  
**Pump with single ball bearing**



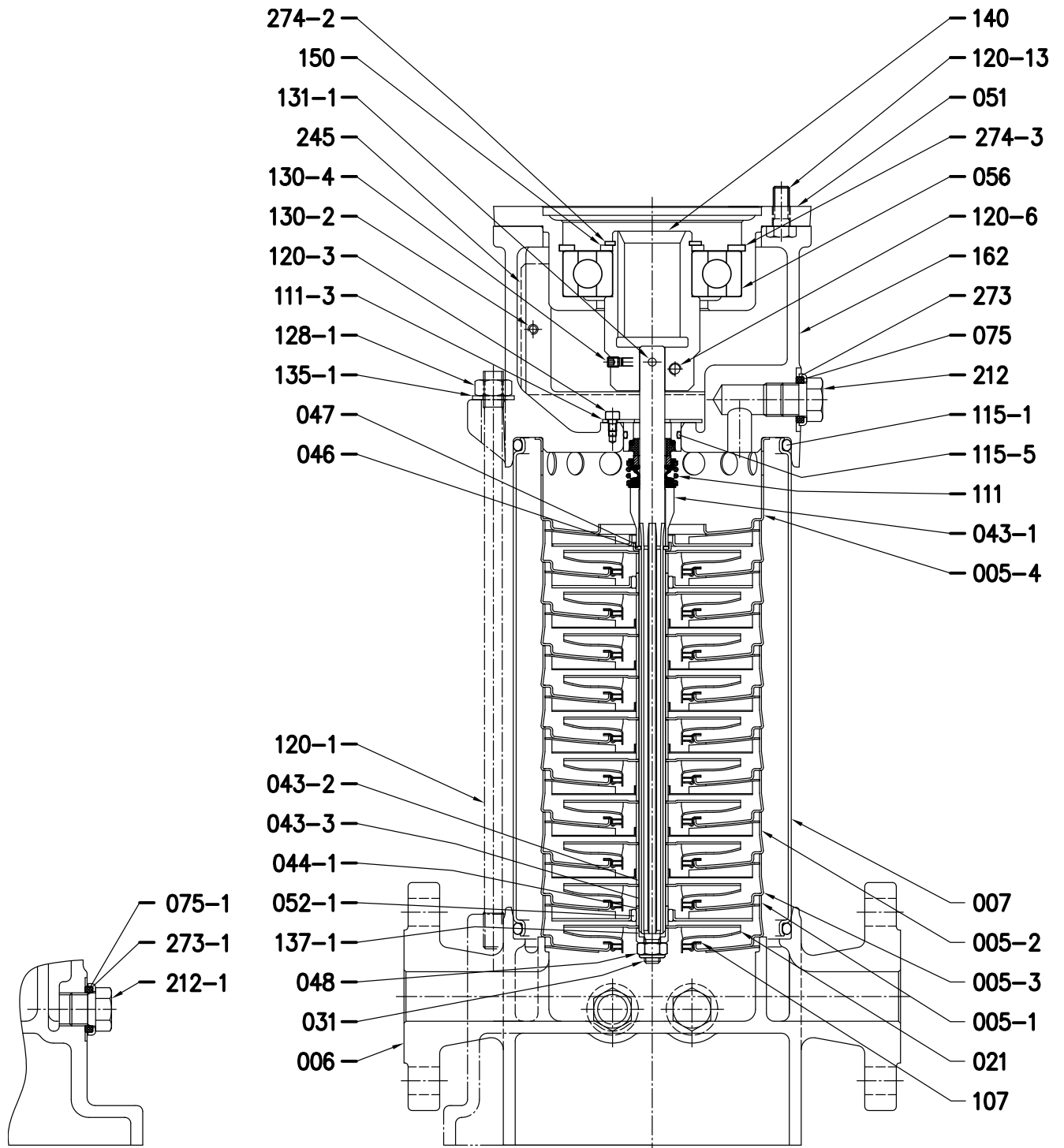
See dimensions page 401

**EVMG 3**  
**Pump without ball bearing**



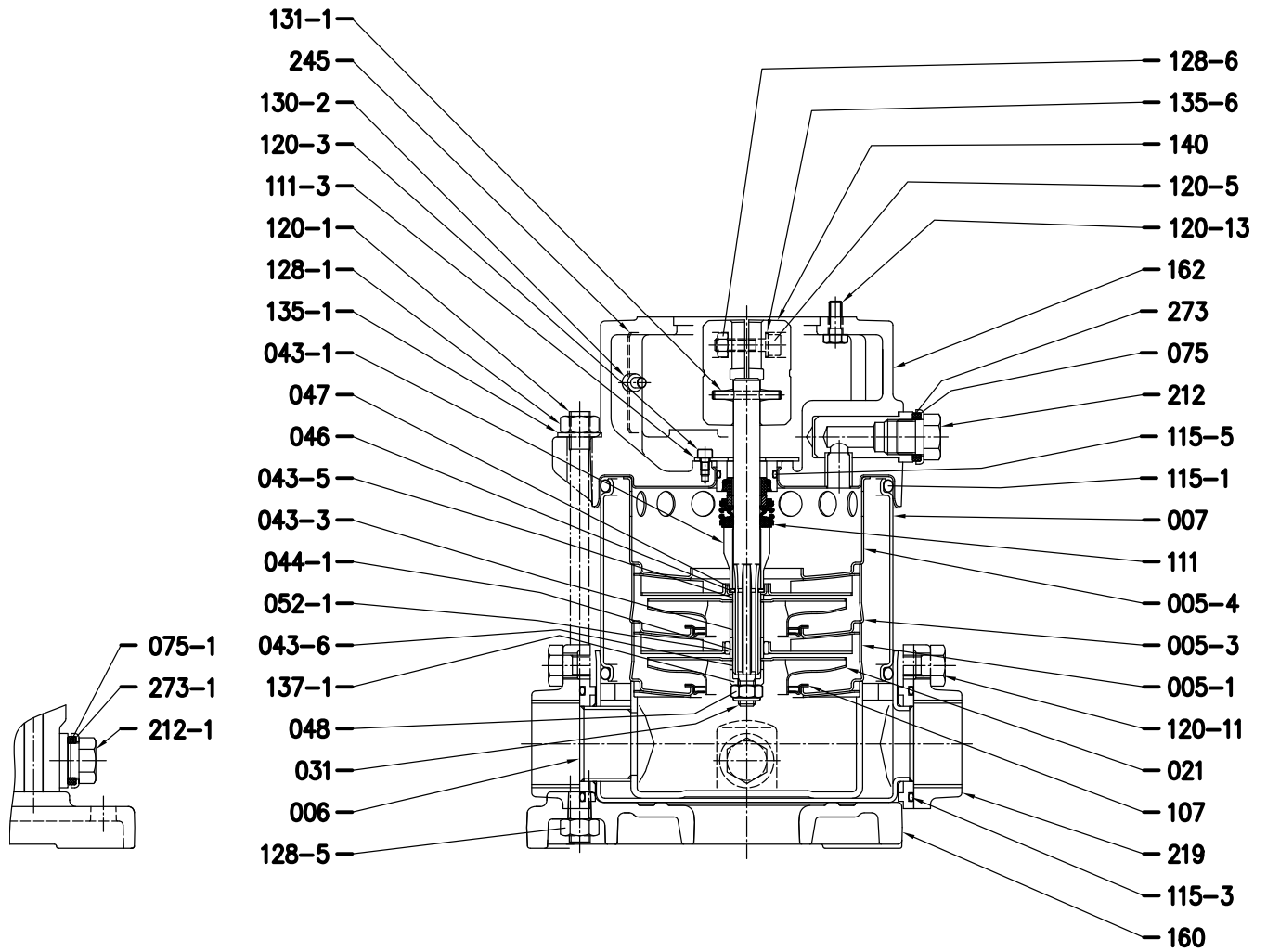
See dimensions page 401.

**EVMG 3**  
**Pump with single ball bearing**



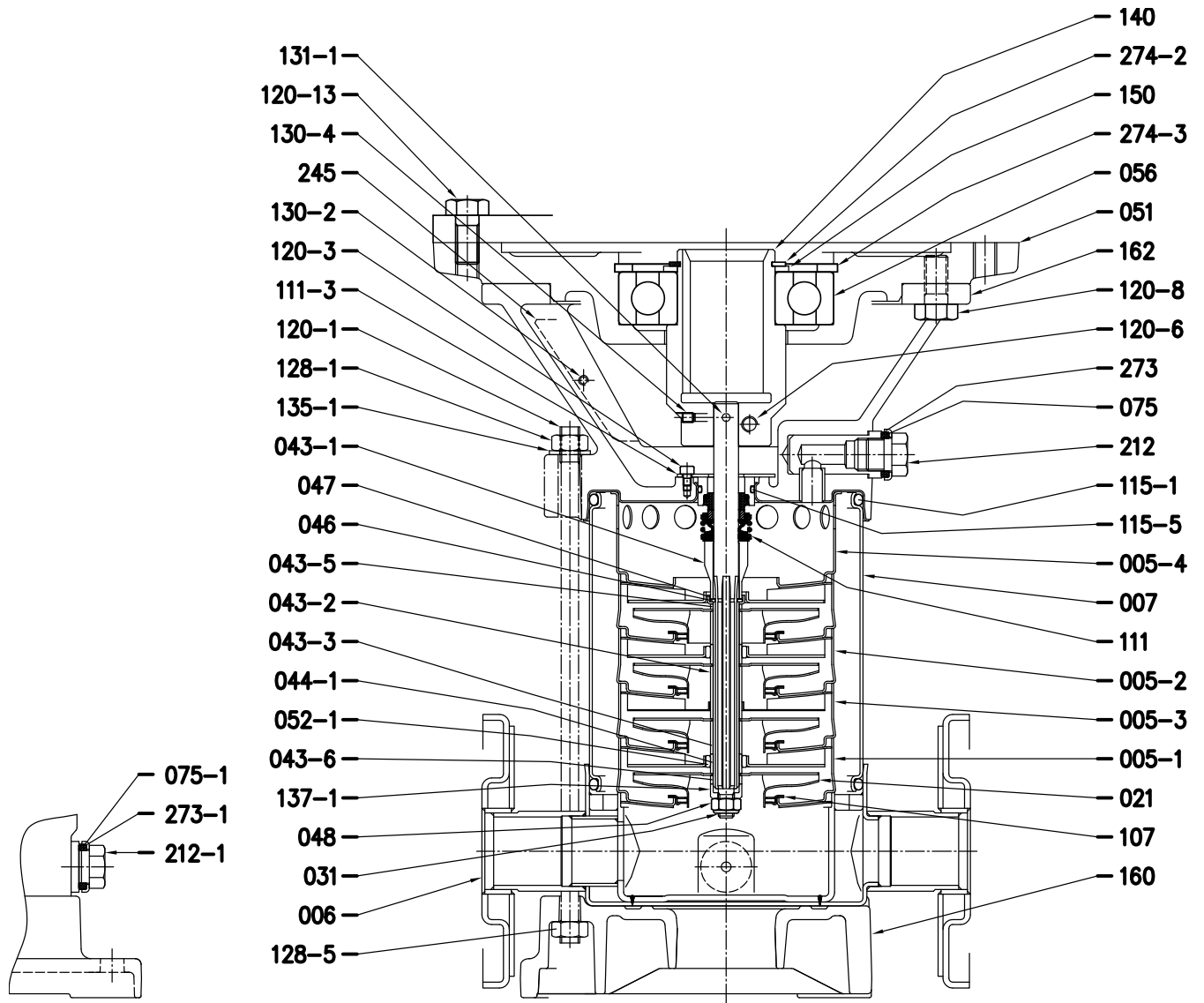
See dimensions page 401.

**EVM(.) 5**  
**Pump without ball bearing**



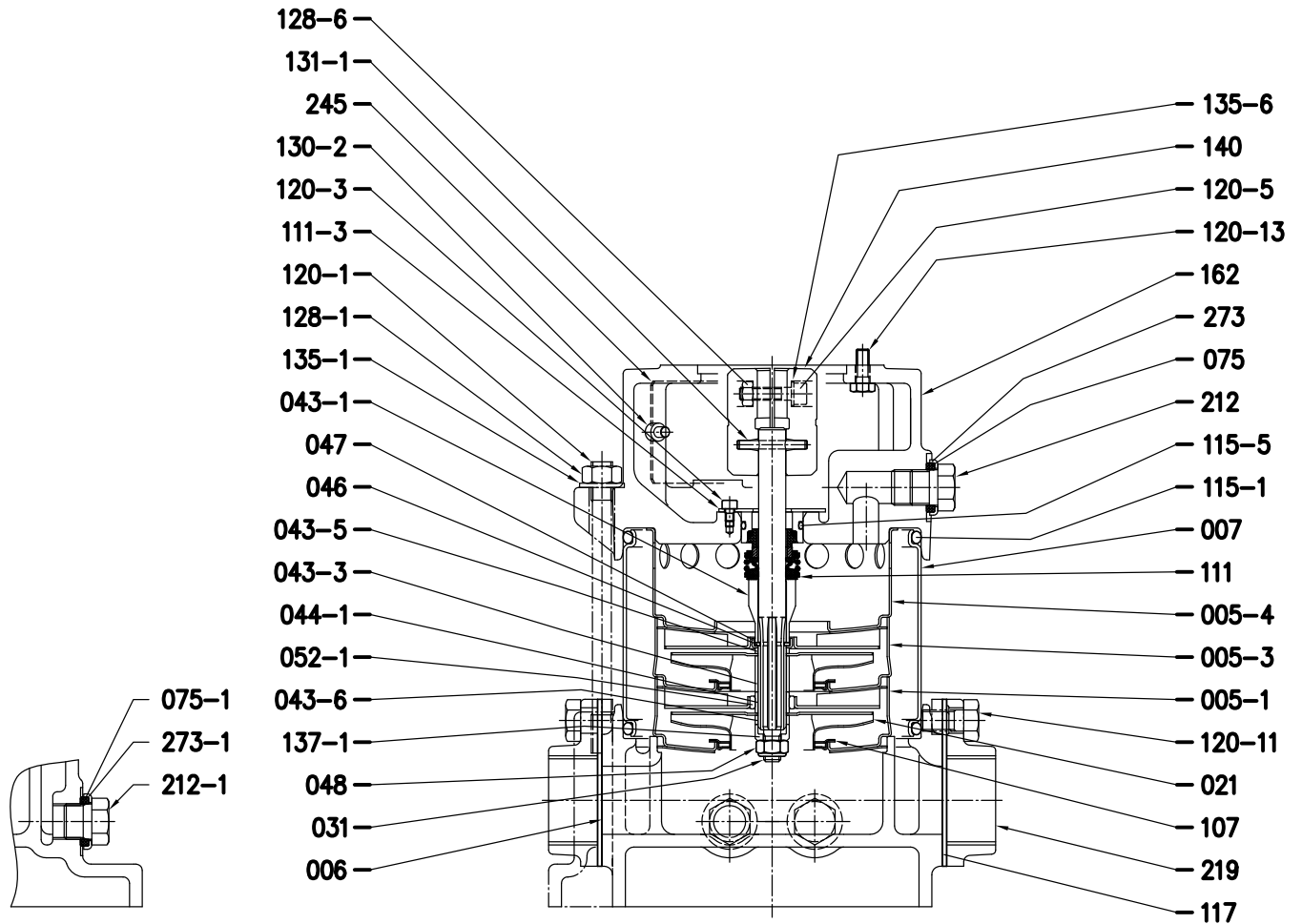
See dimensions page 401

**EVM(.) 5**  
**Pump with single ball bearing**



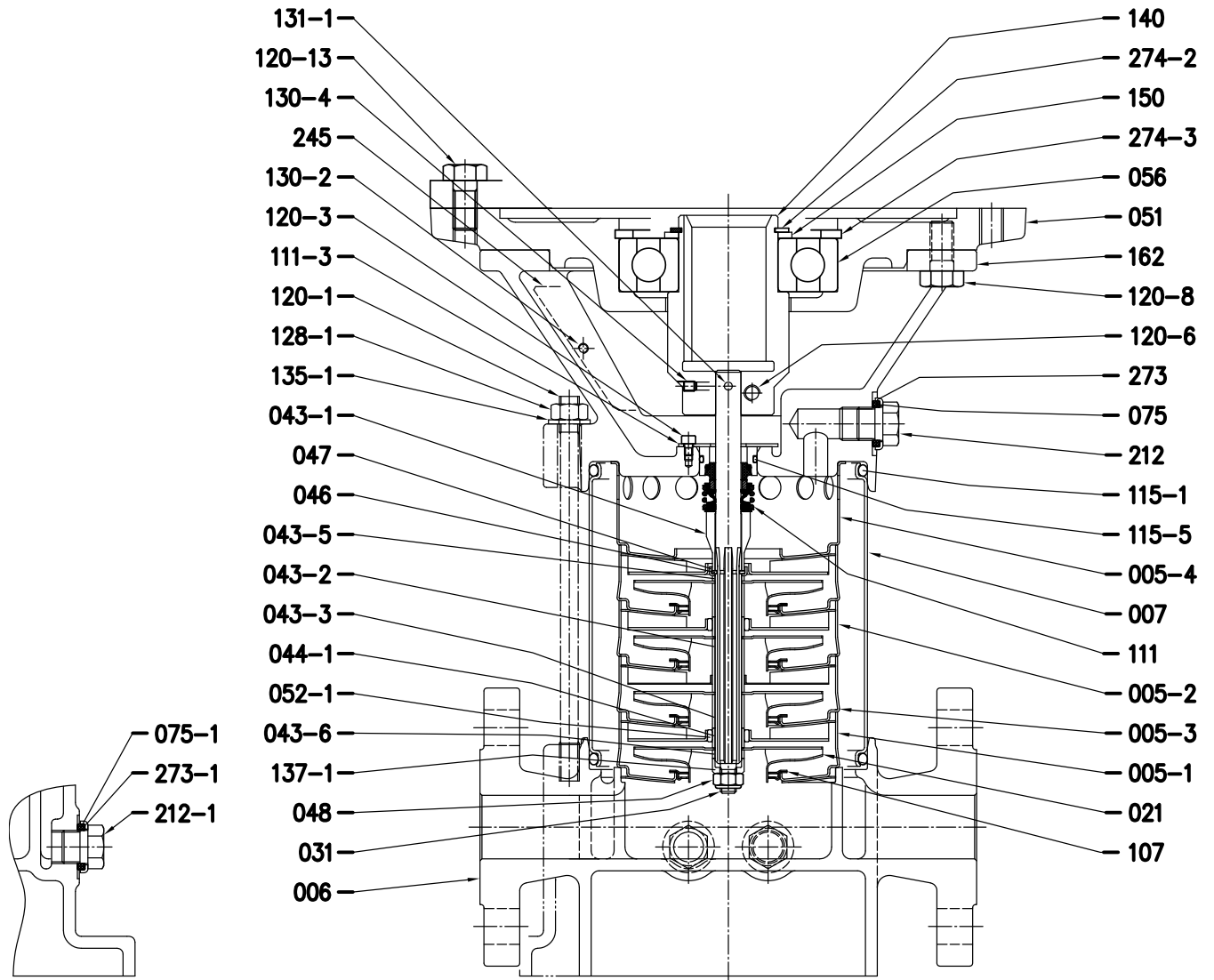
See dimensions page 401

**EVMG 5**  
**Pump without ball bearing**



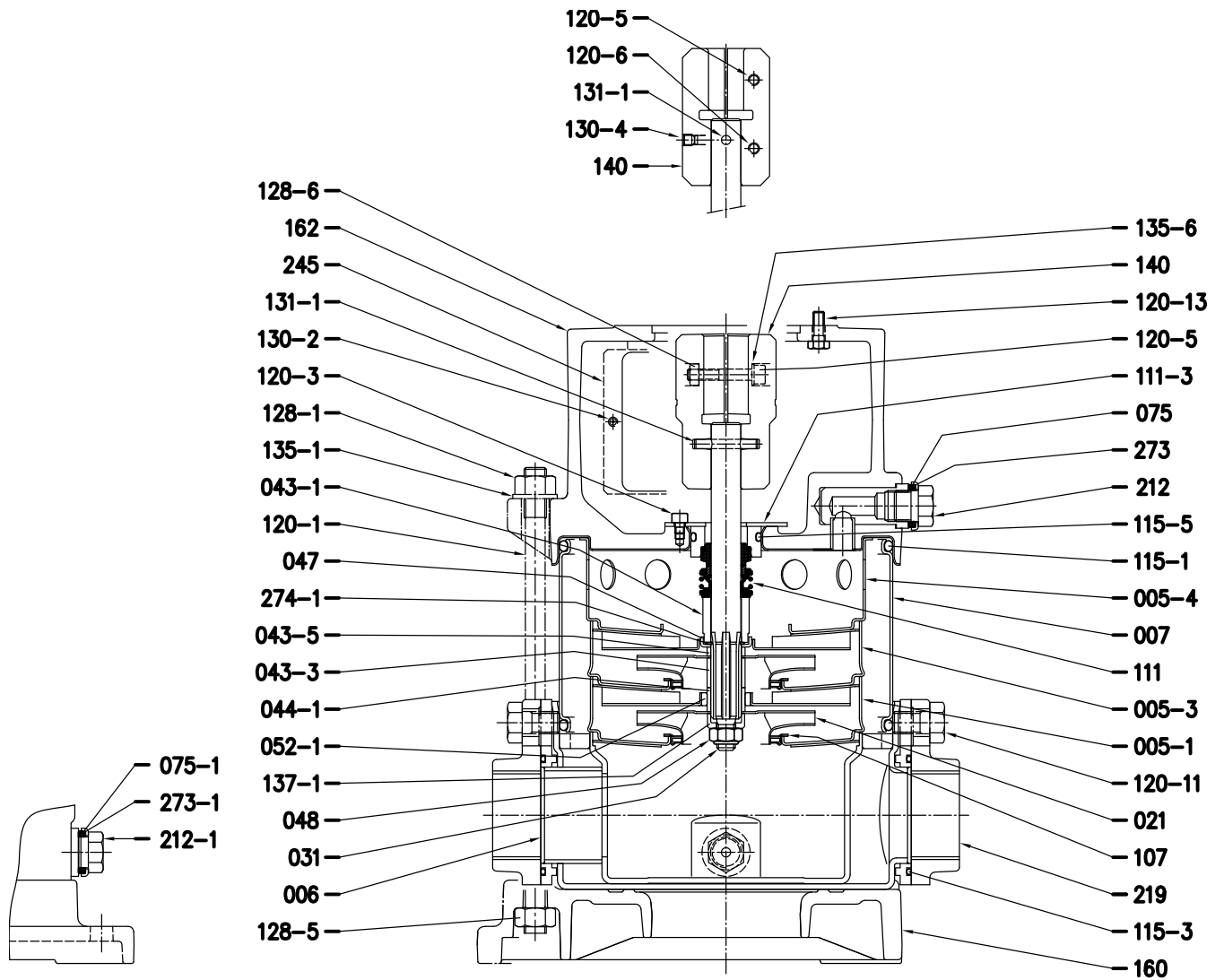
See dimensions page 401

**EVMG 5**  
**Pump with single ball bearing**



See dimensions page 401

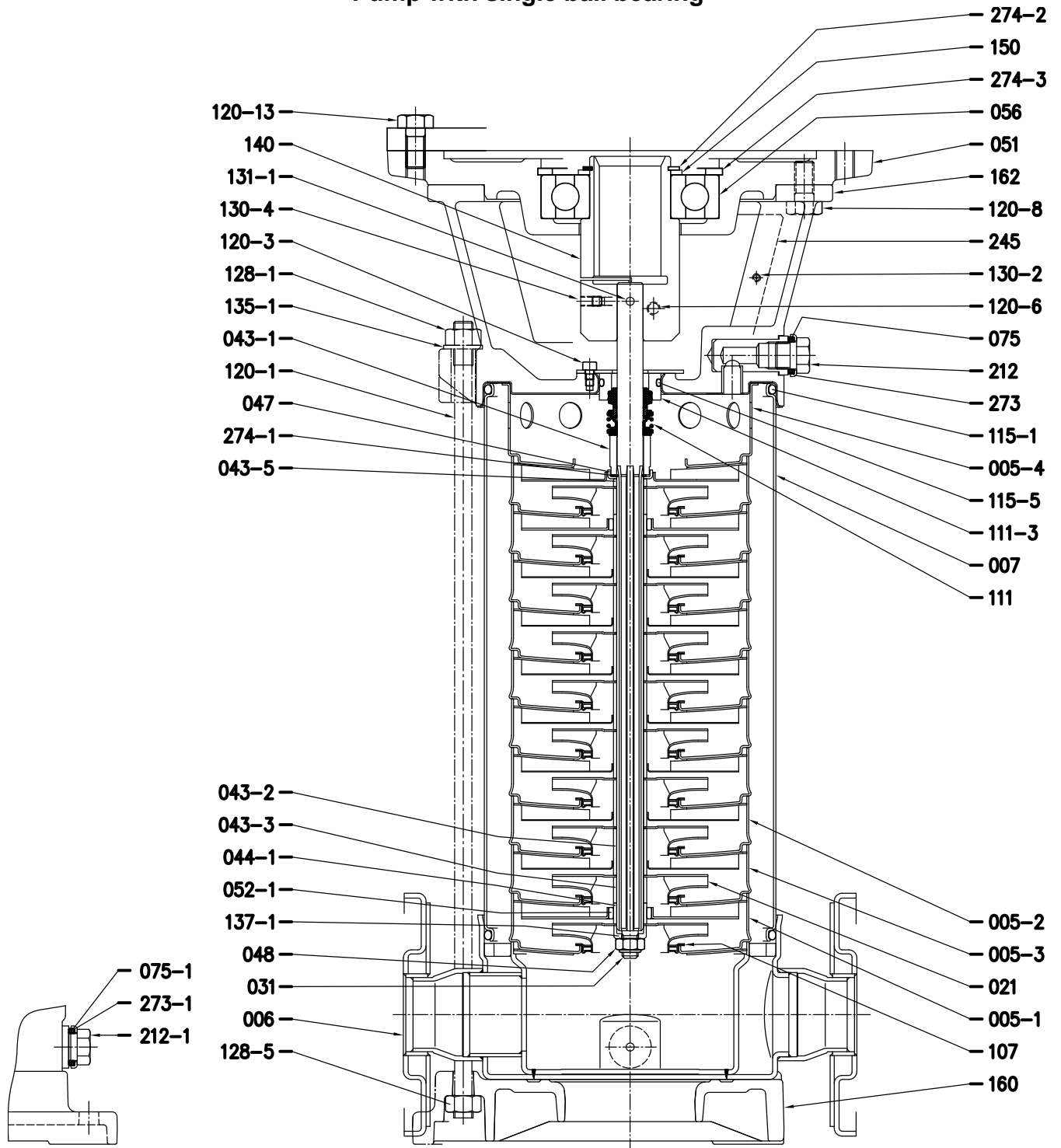
**EVM(.) 10**  
**Pump without ball bearing**



See dimensions page 402

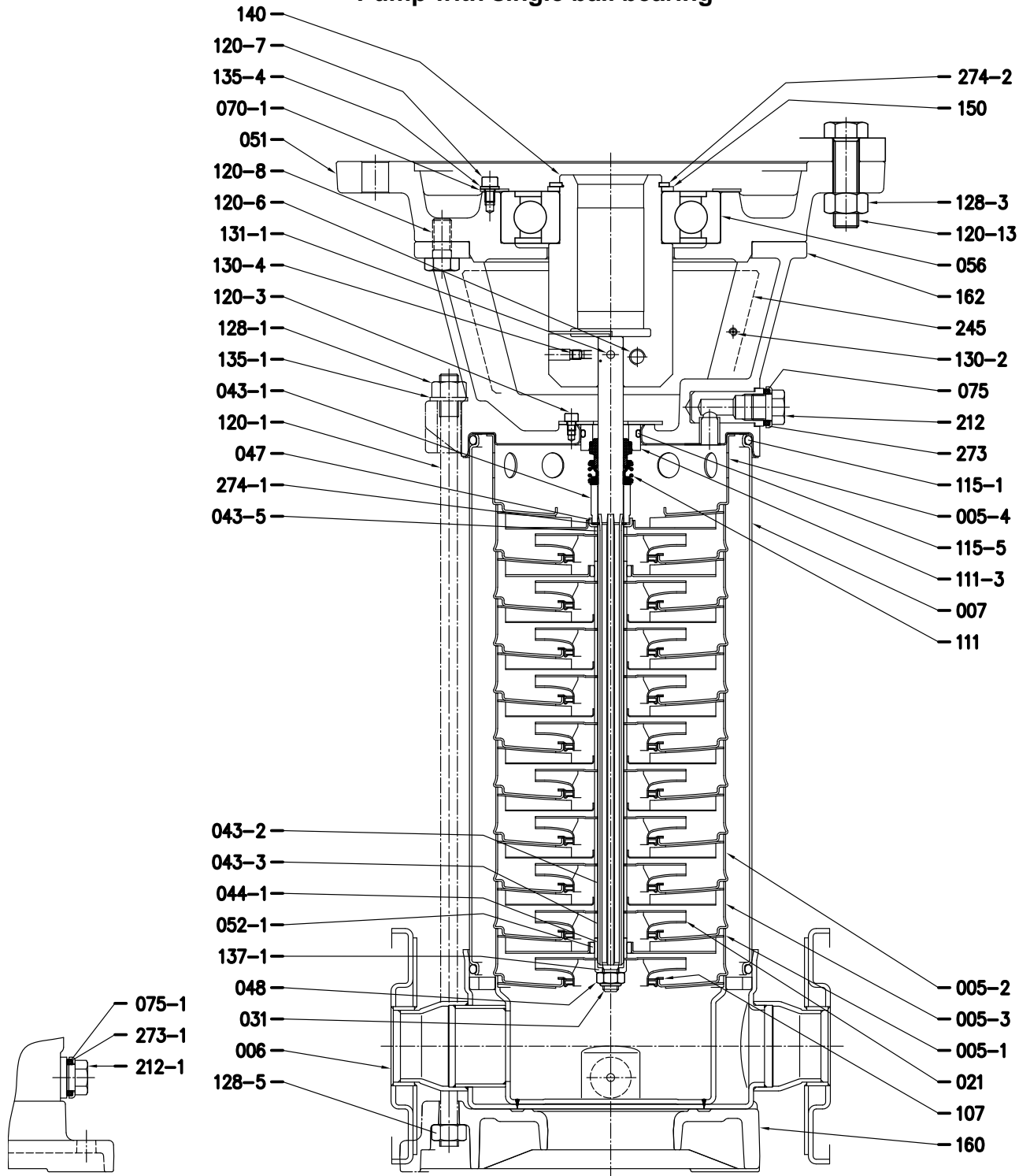


**EVM(.) 10**  
**Pump with single ball bearing**



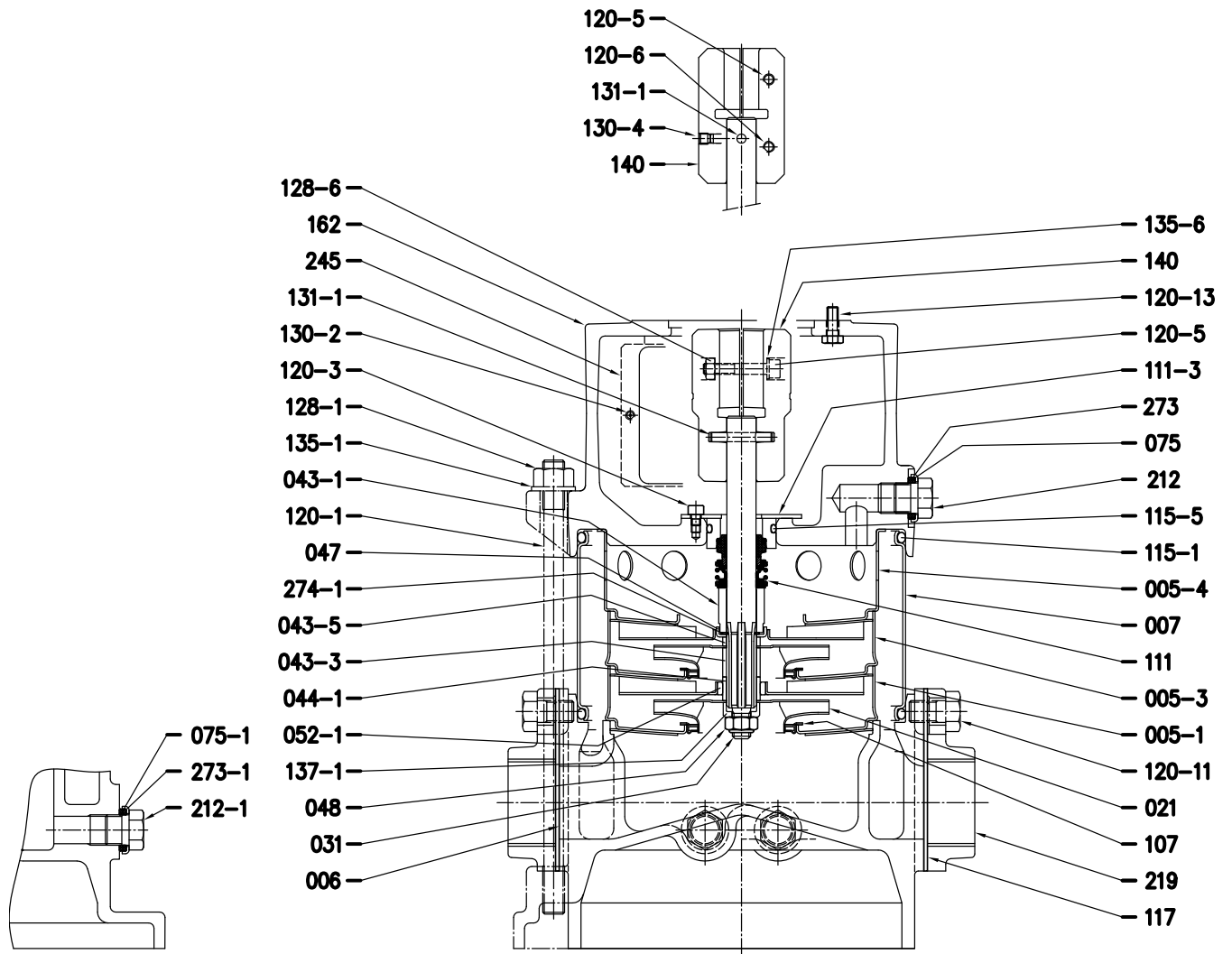
See dimensions page 402

**EVM(.) 10**  
**Pump with single ball bearing**



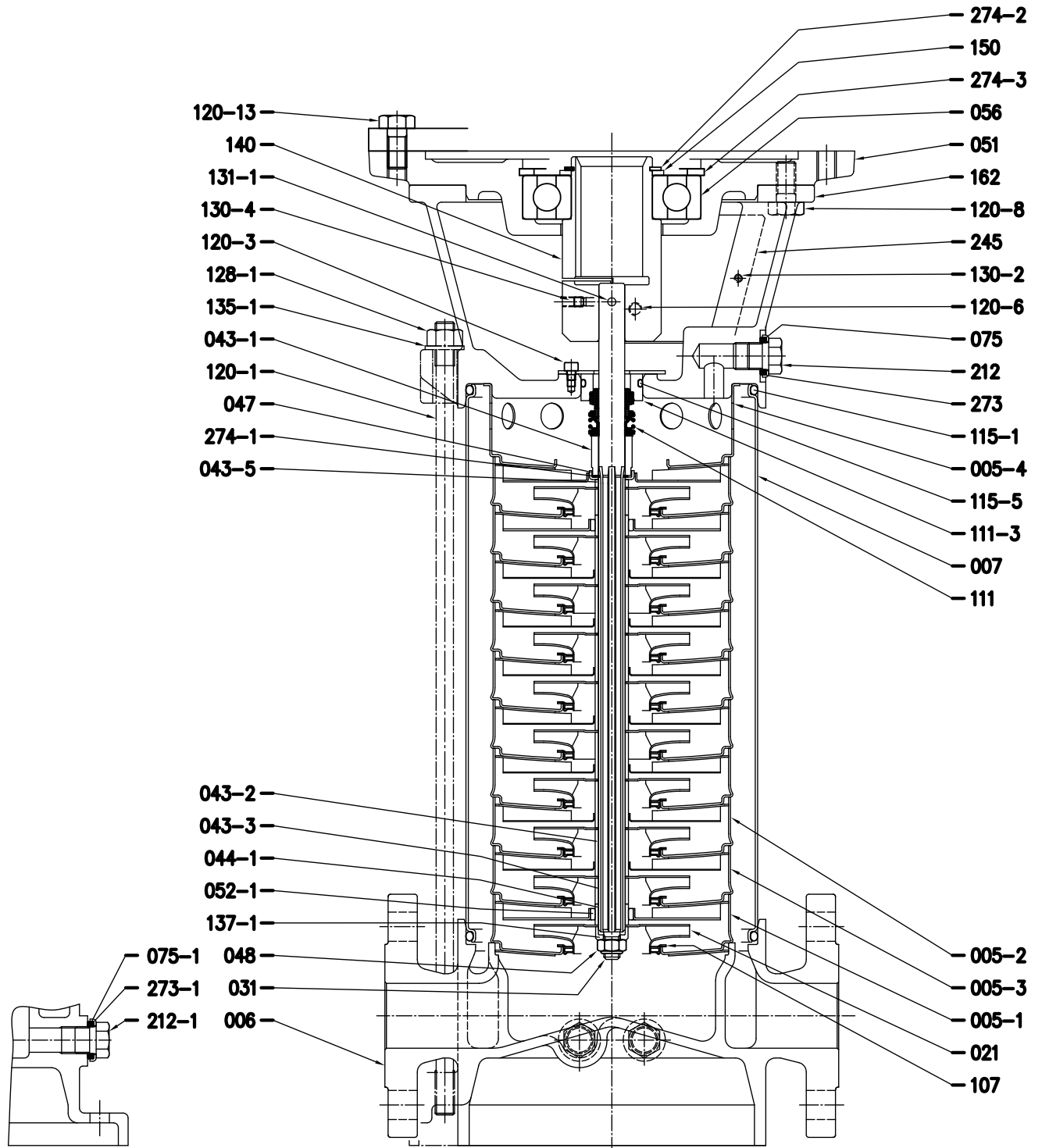
See dimensions page 402

**EVMG 10**  
**Pump without ball bearing**



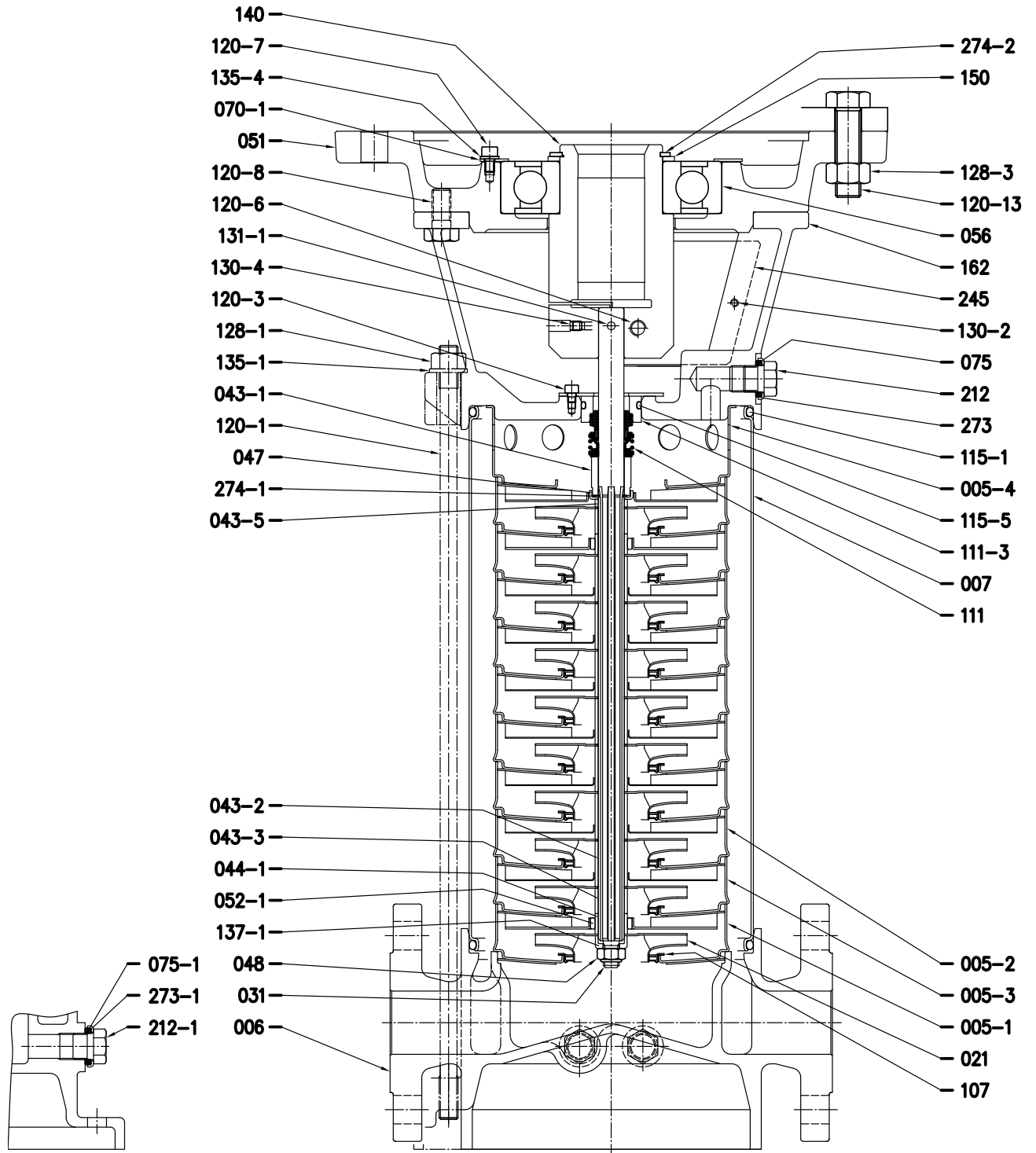
See dimensions page 402

**EVMG 10**  
 Pump with single ball bearing



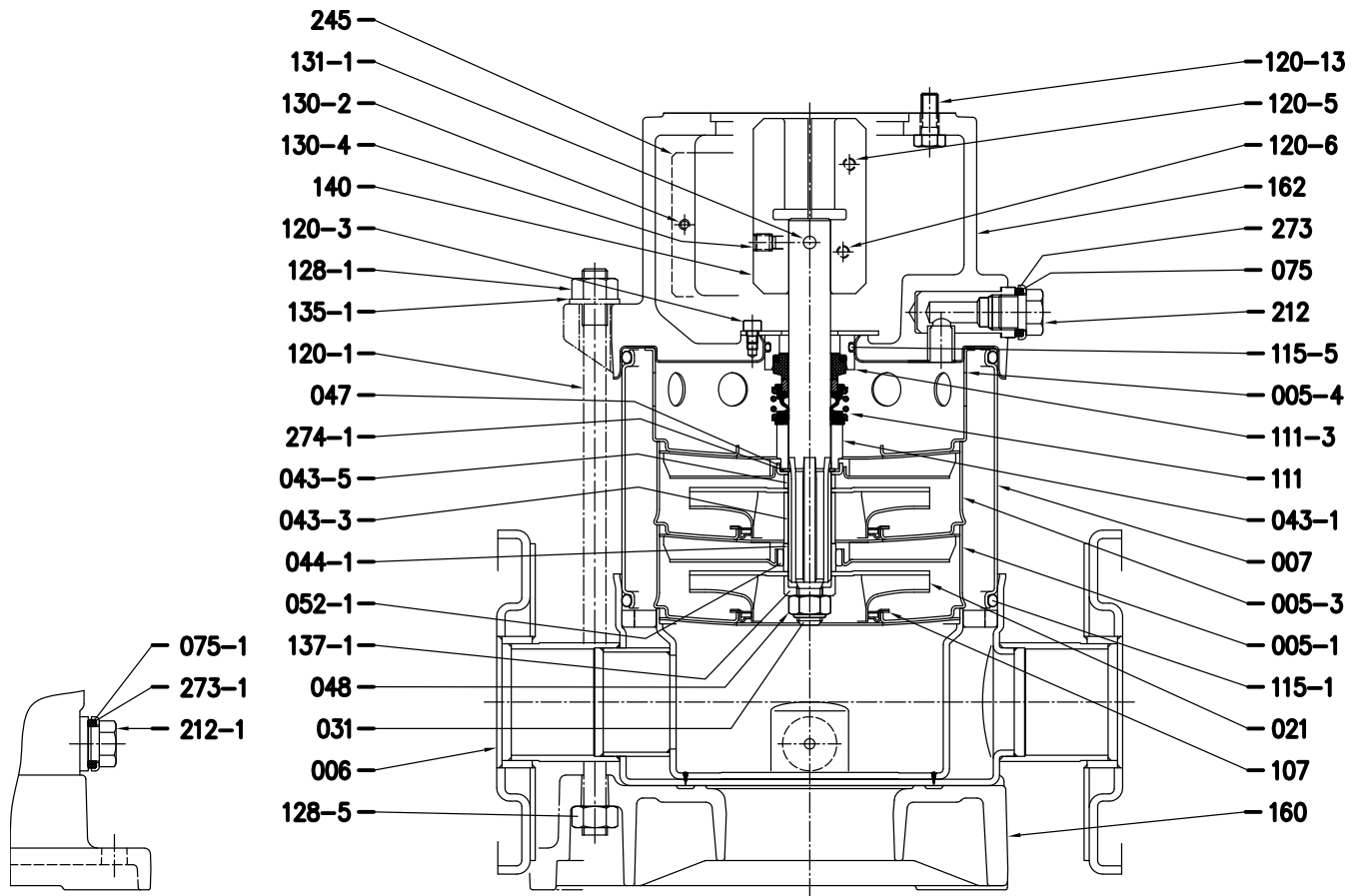
See dimensions page 402

**EVMG 10**  
**Pump with single ball bearing**



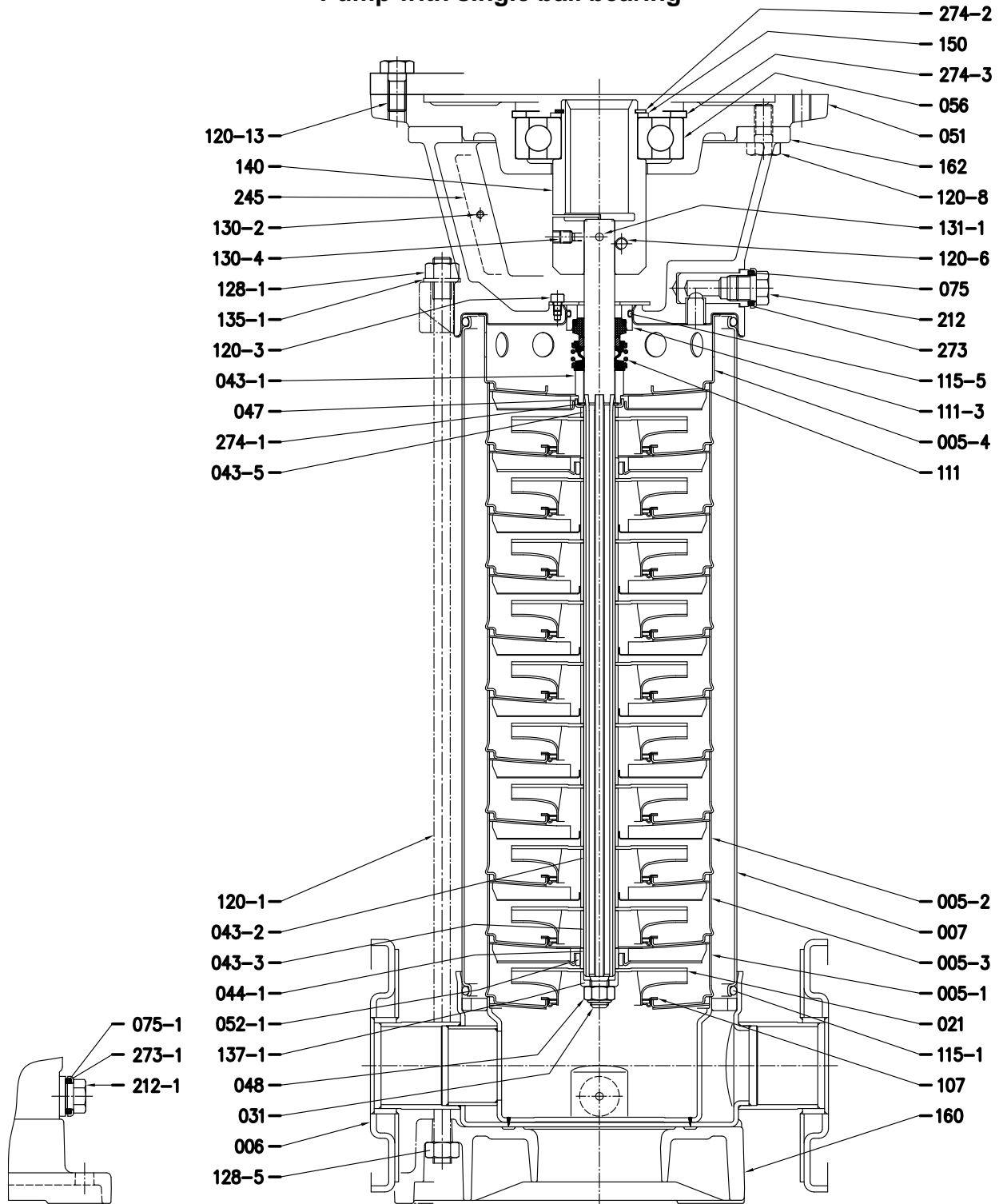
See dimensions page 402

**EVM(.) 18**  
**Pump without ball bearing**



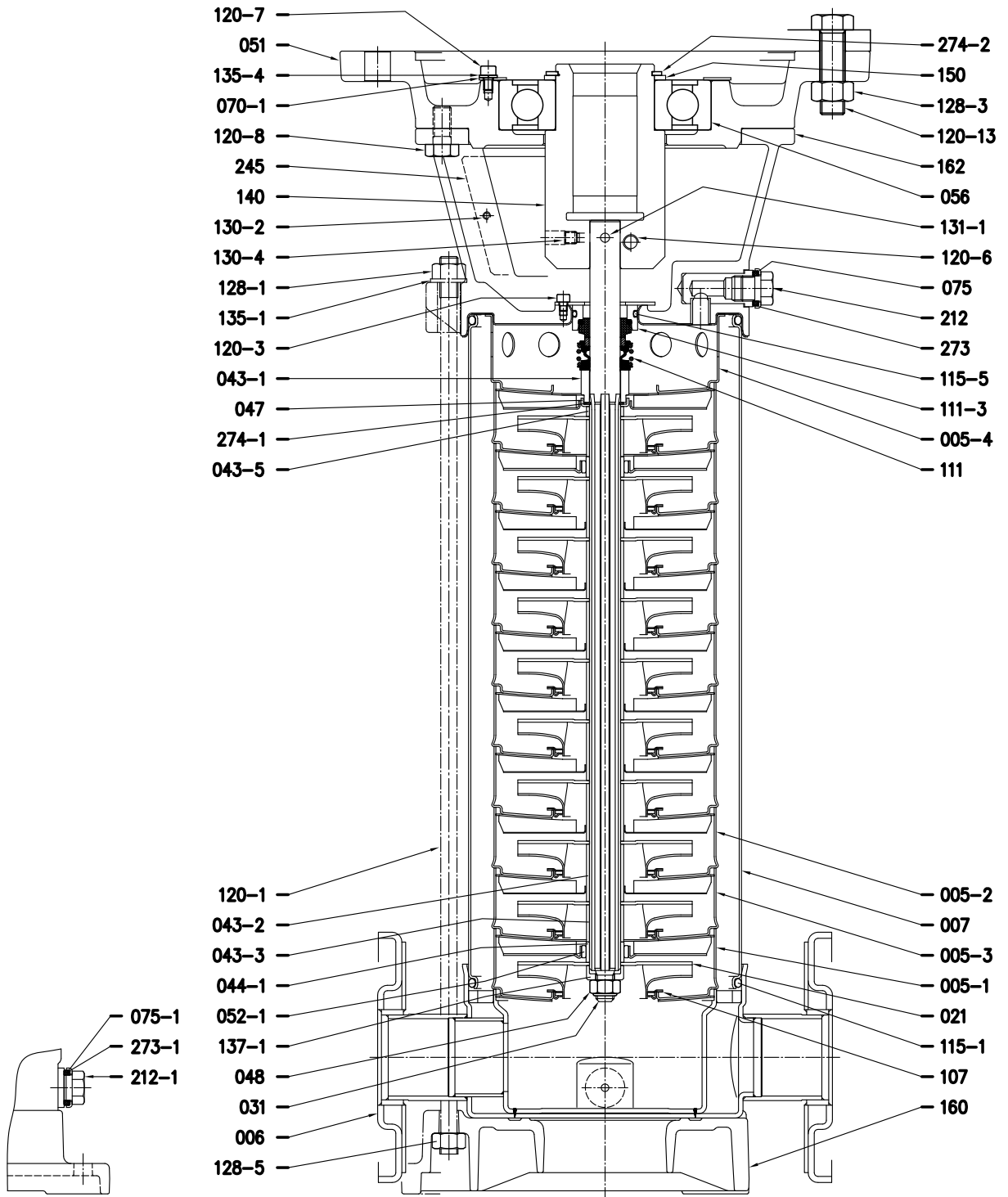
See dimensions page 402

**EVM(.) 18**  
**Pump with single ball bearing**



See dimensions page 402

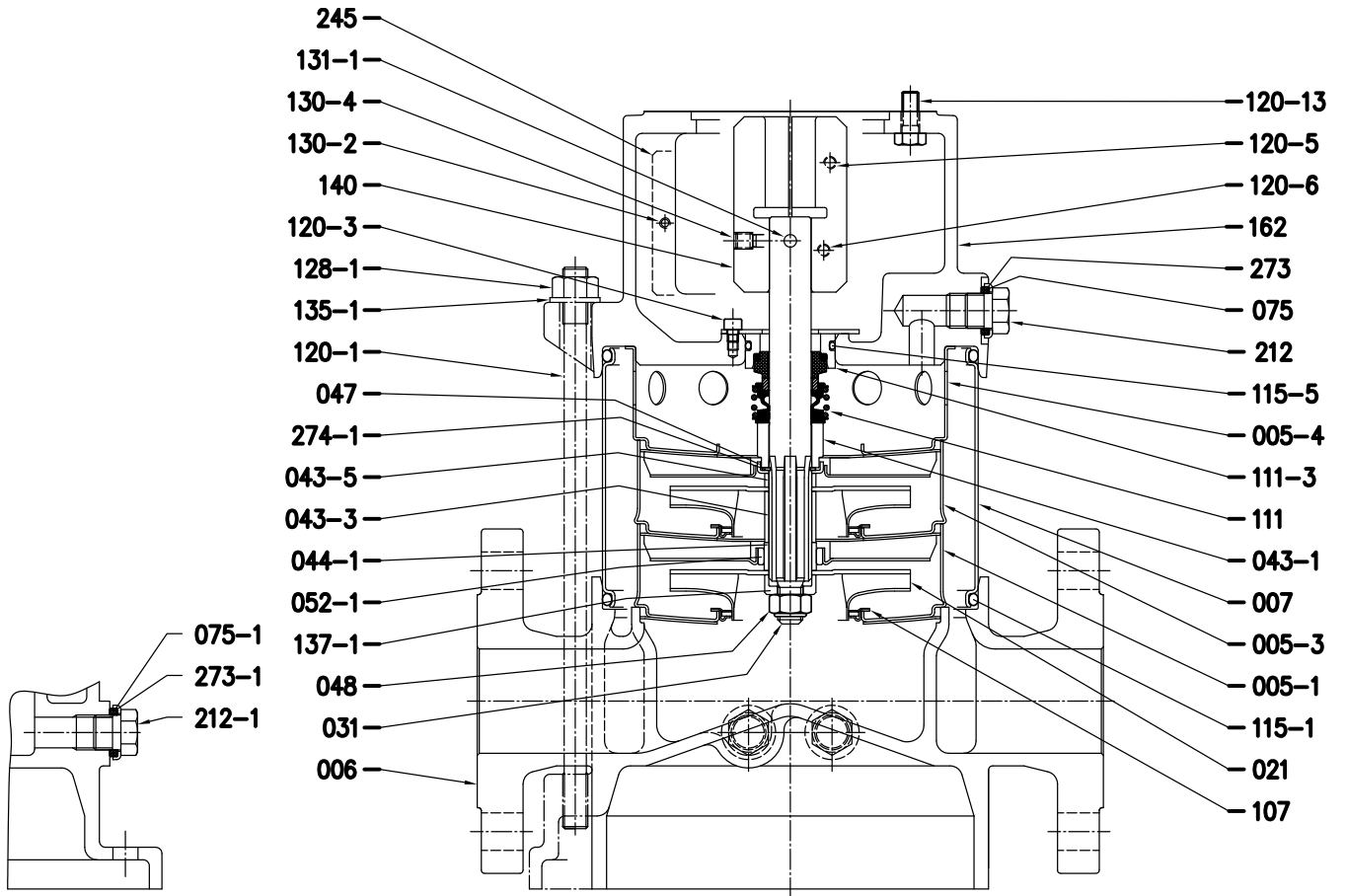
**EVM(.) 18**  
**Pump with single ball bearing**



See dimensions page 402

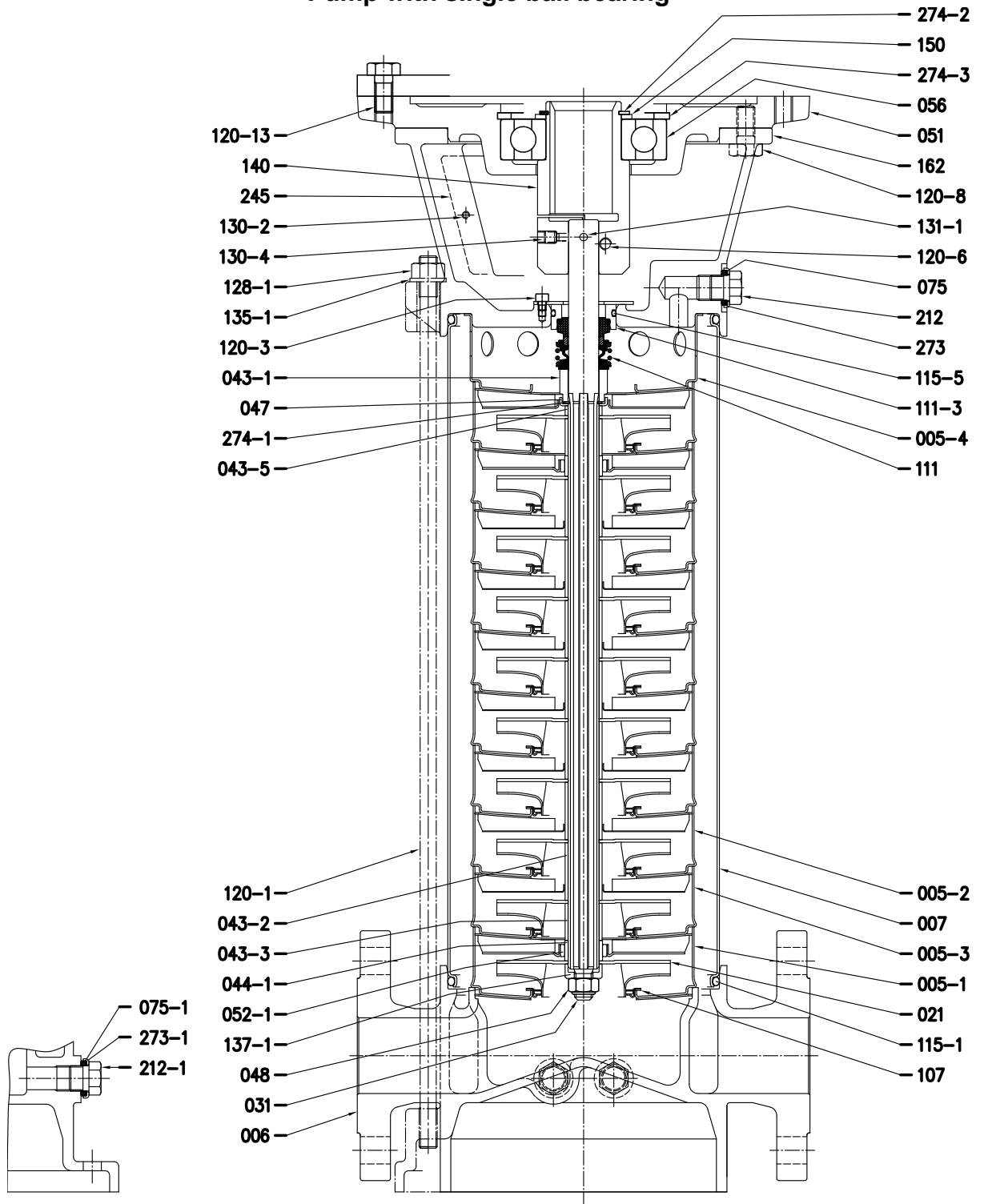


**EVMG 18**  
**Pump without ball bearing**



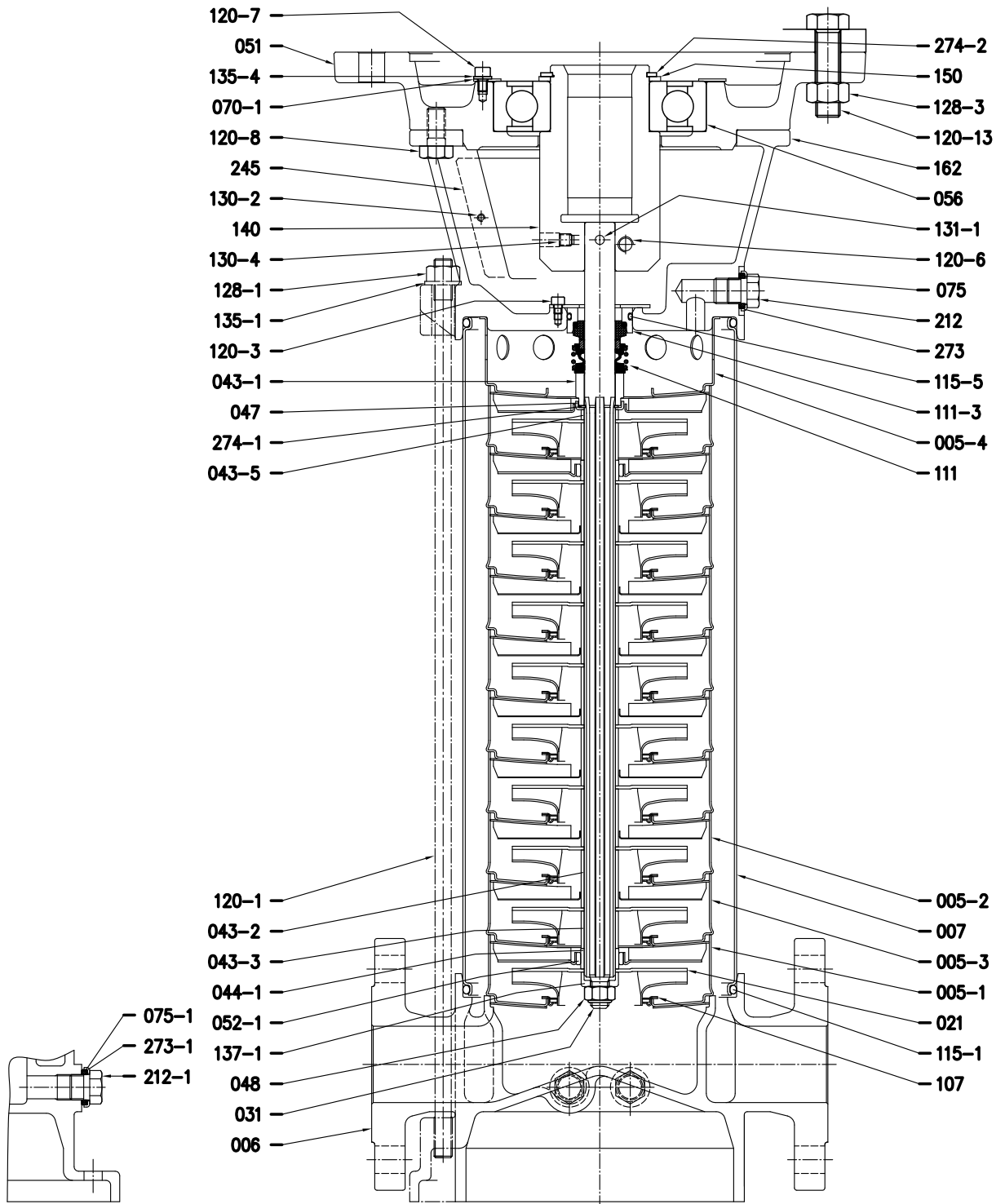
See dimensions page 402

**EVMG 18**  
**Pump with single ball bearing**



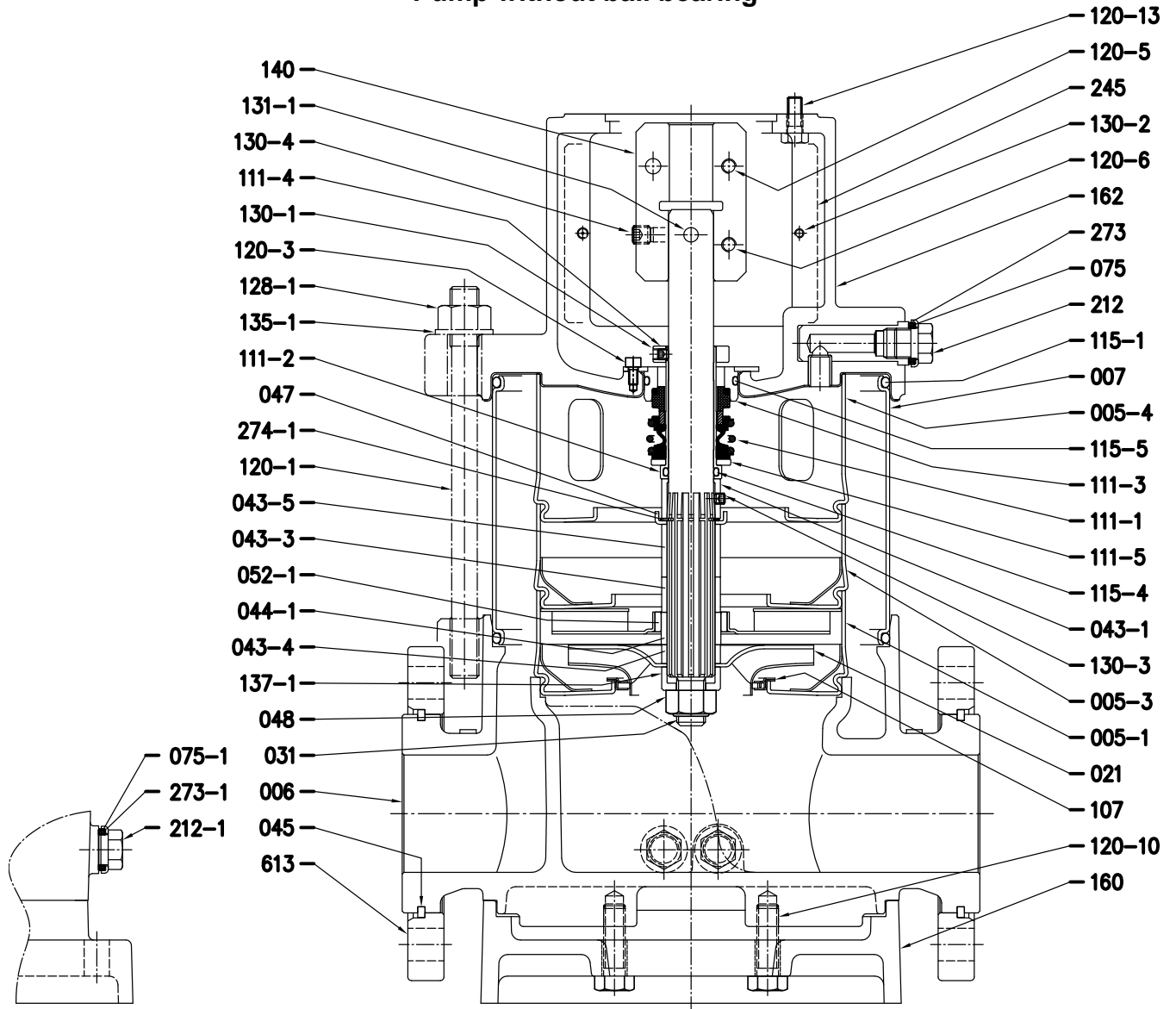
See dimensions page 402

**EVMG 18**  
**Pump with single ball bearing**



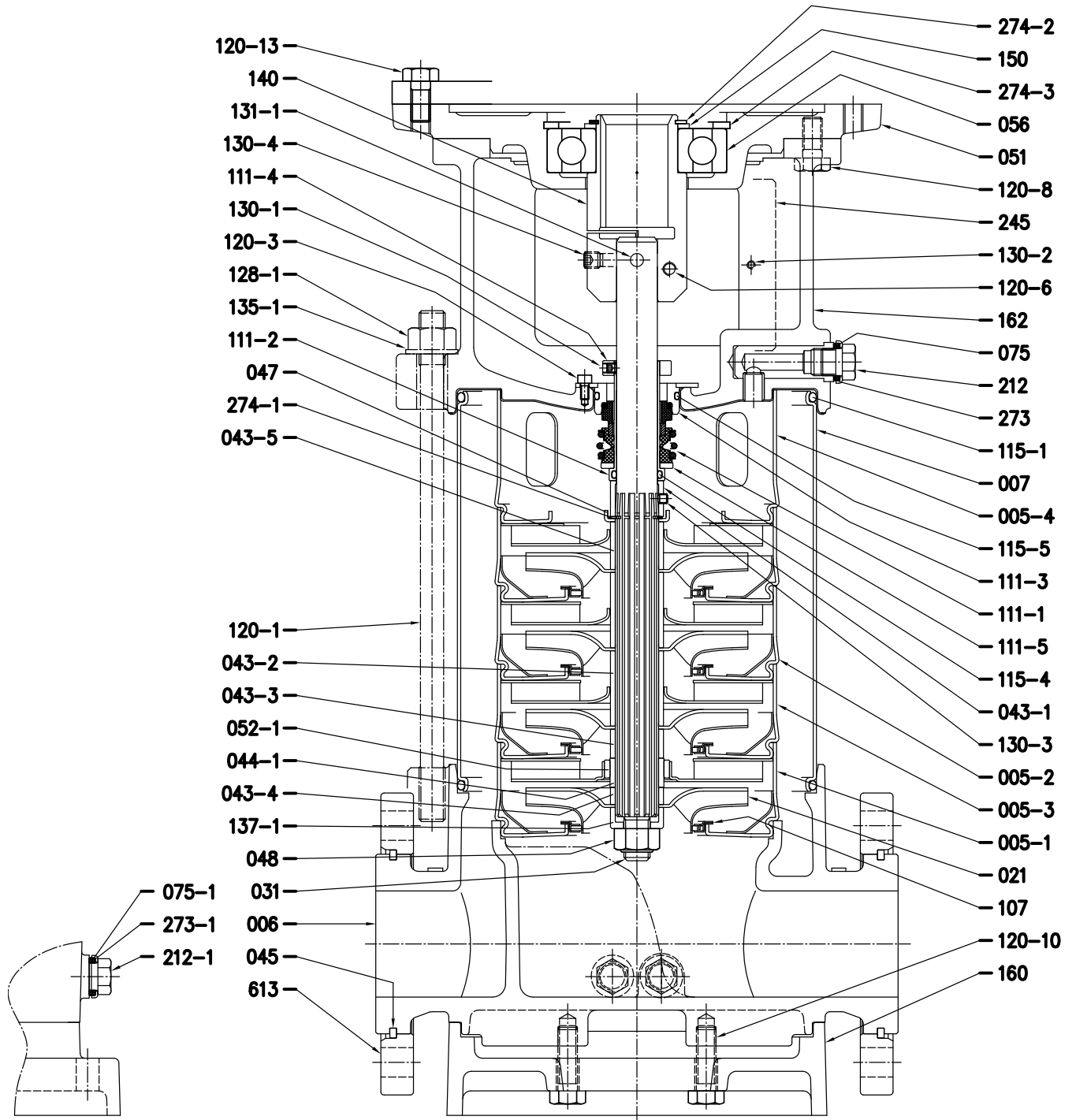
See dimensions page 402

**EVM(.) 32**  
**Pump without ball bearing**



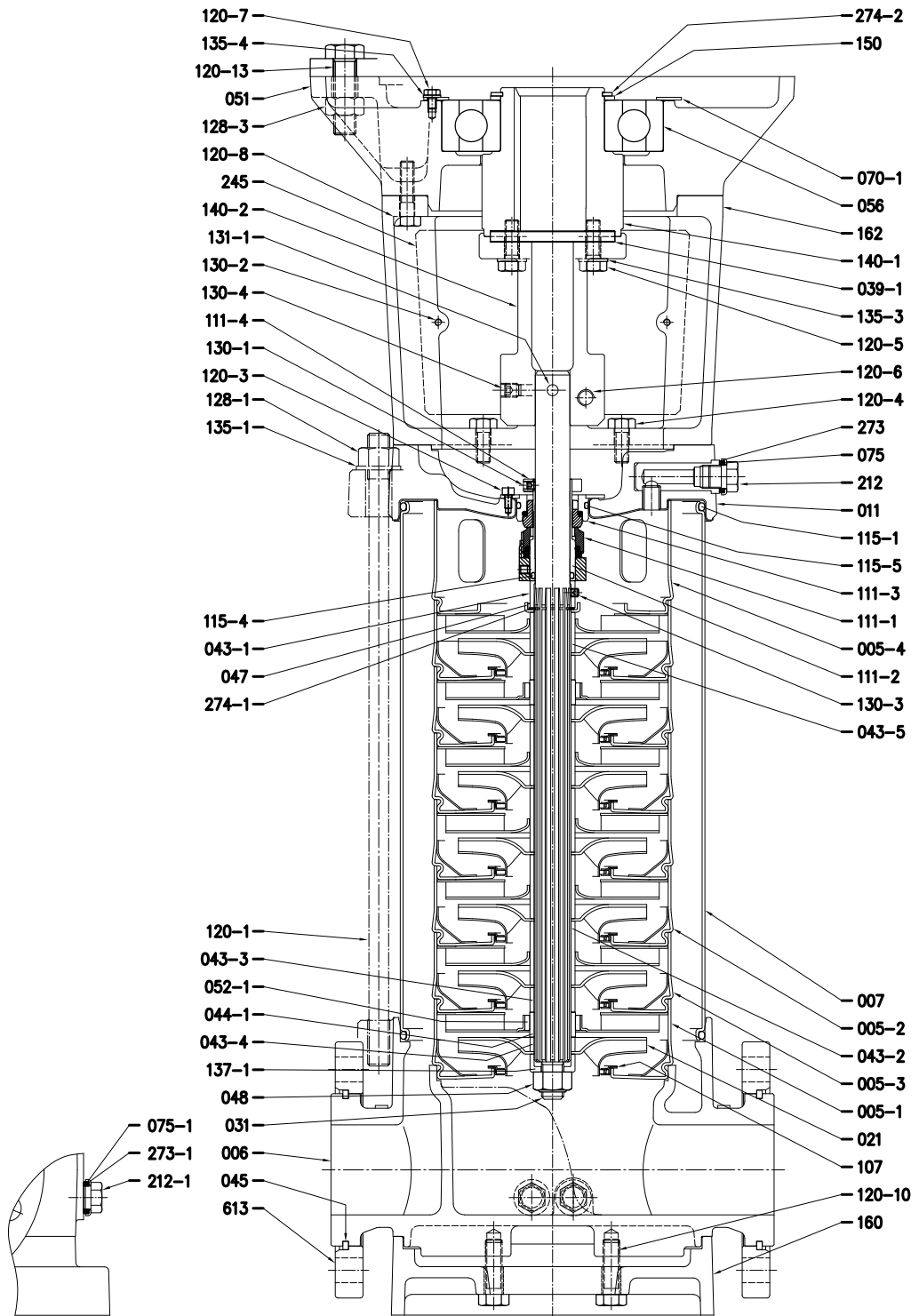
See dimensions page 404

**EVM(.) 32**  
**Pump with single ball bearing**



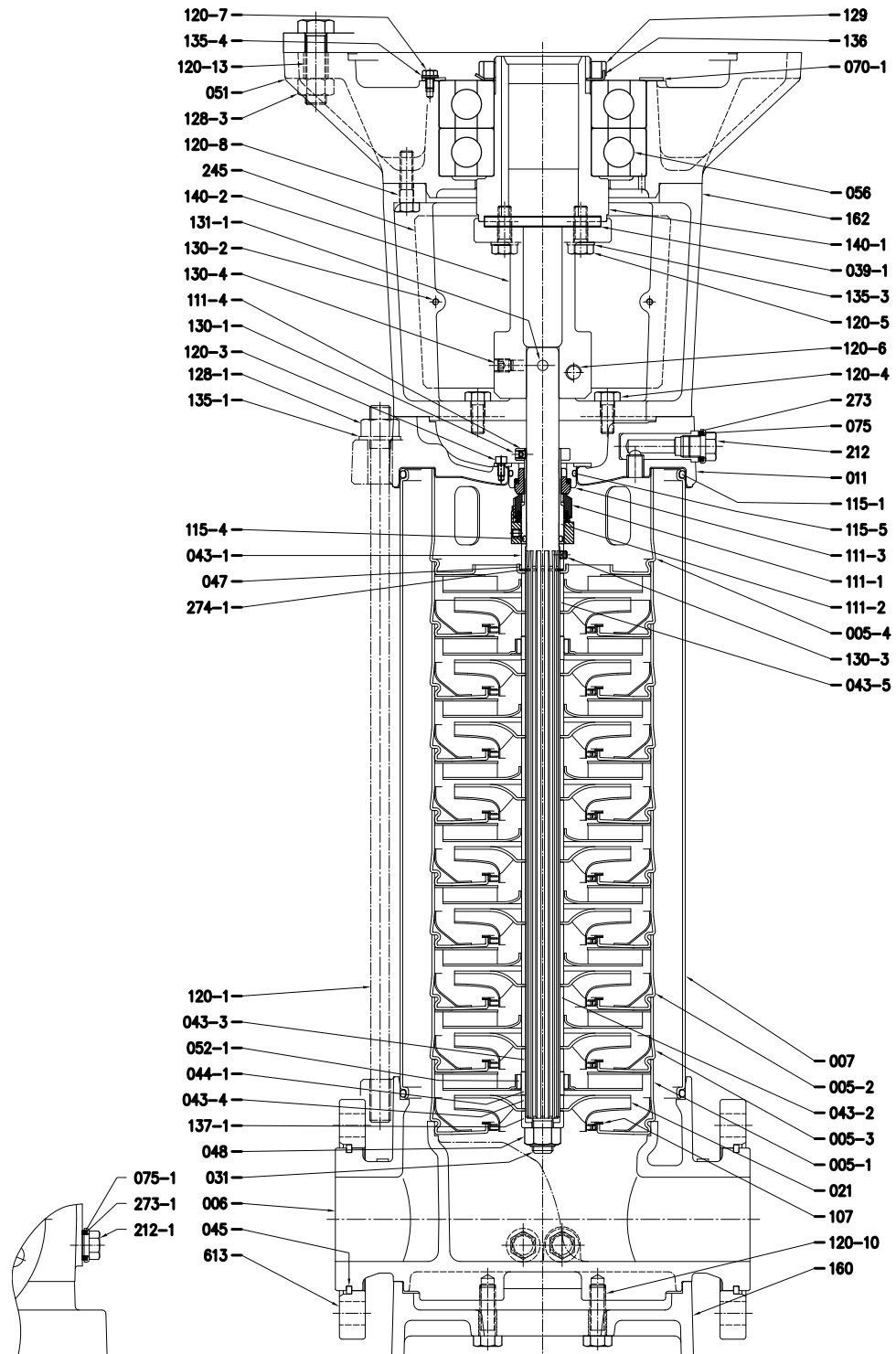
See dimensions pages 404

EVM(.) 32  
Pump with single ball bearing



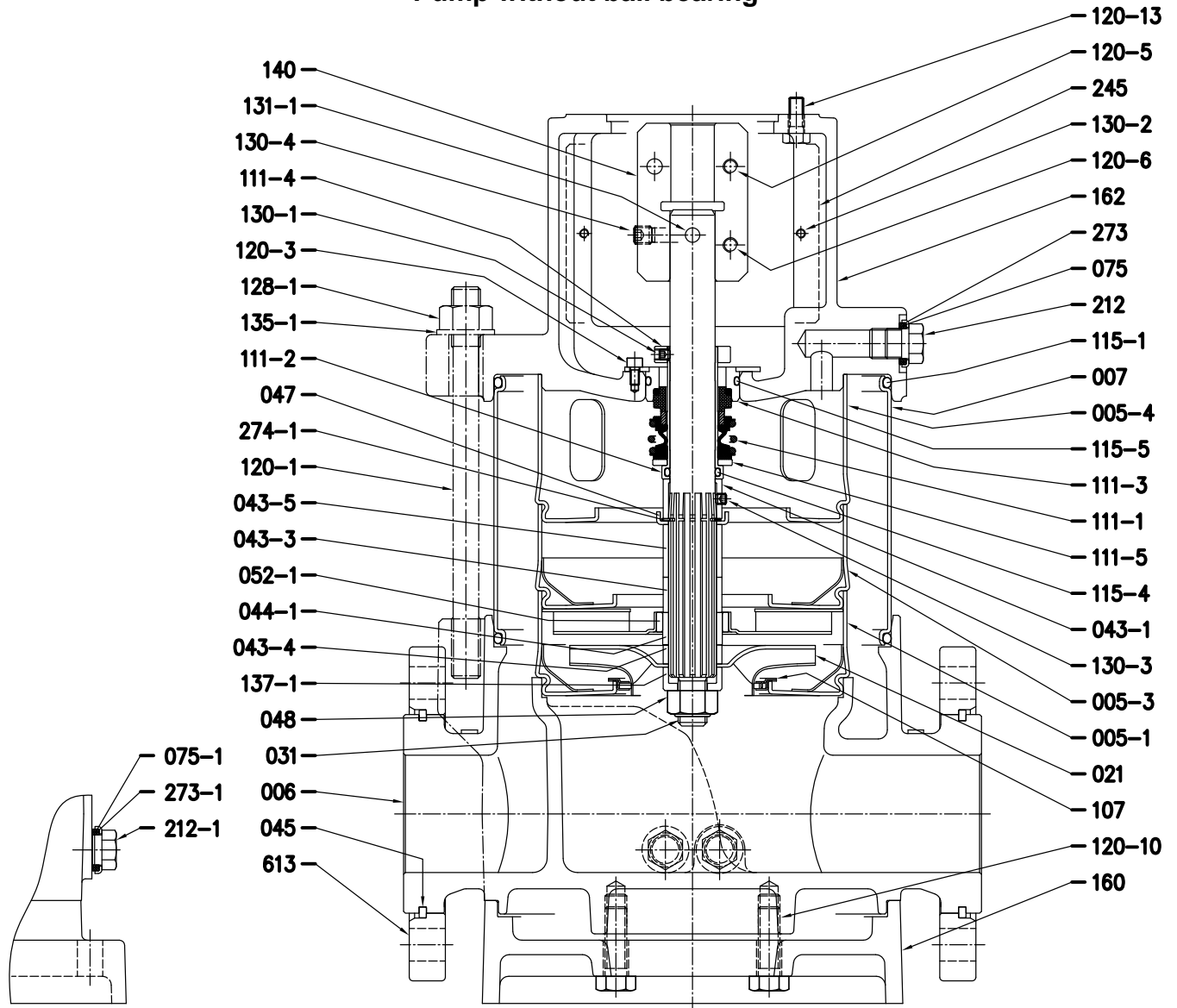
See dimensions page 404

**EVM(.) 32**  
**Pump with double ball bearing**



See dimensions page 404

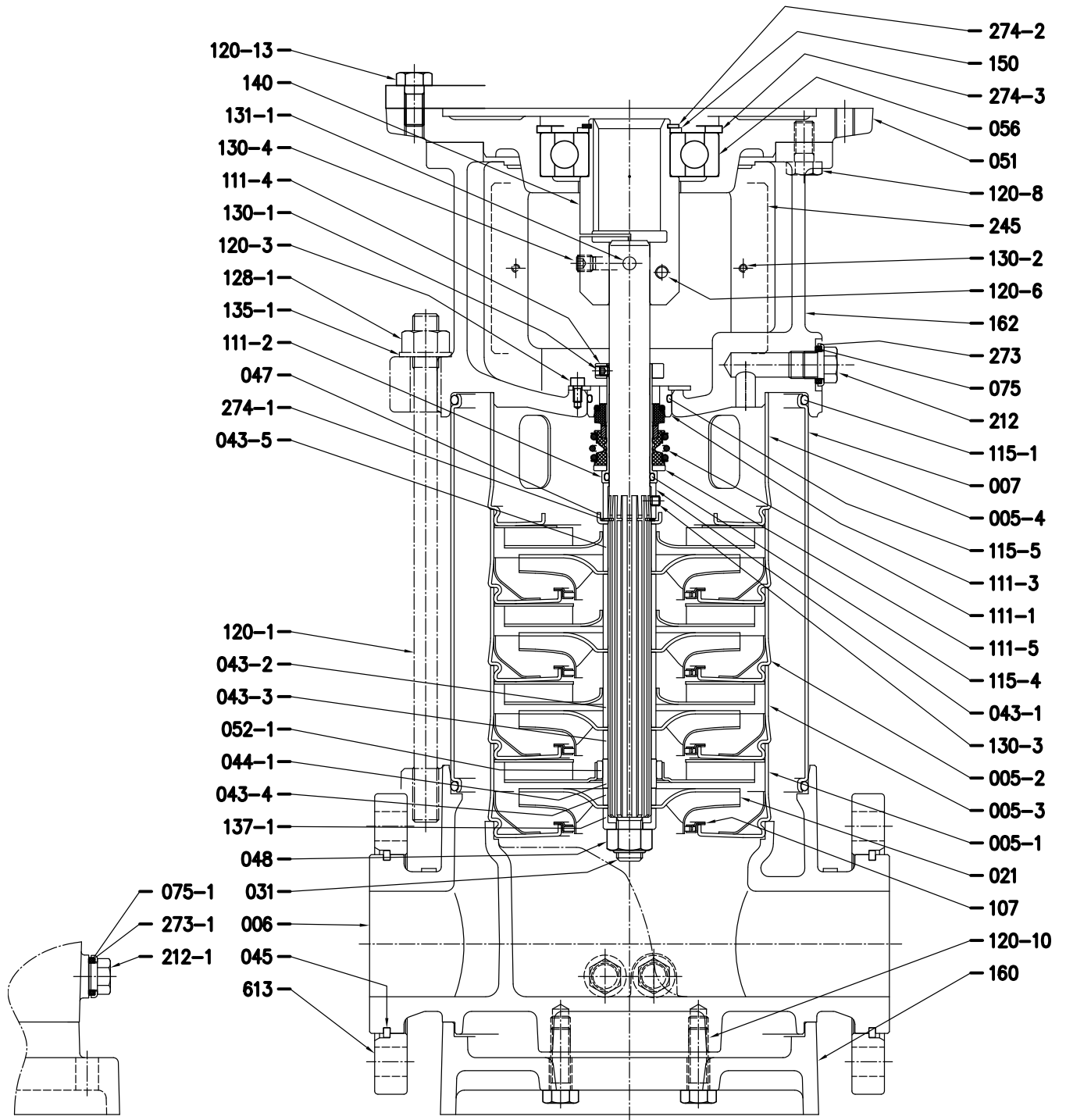
**EVMG 32**  
**Pump without ball bearing**



See dimensions page 404

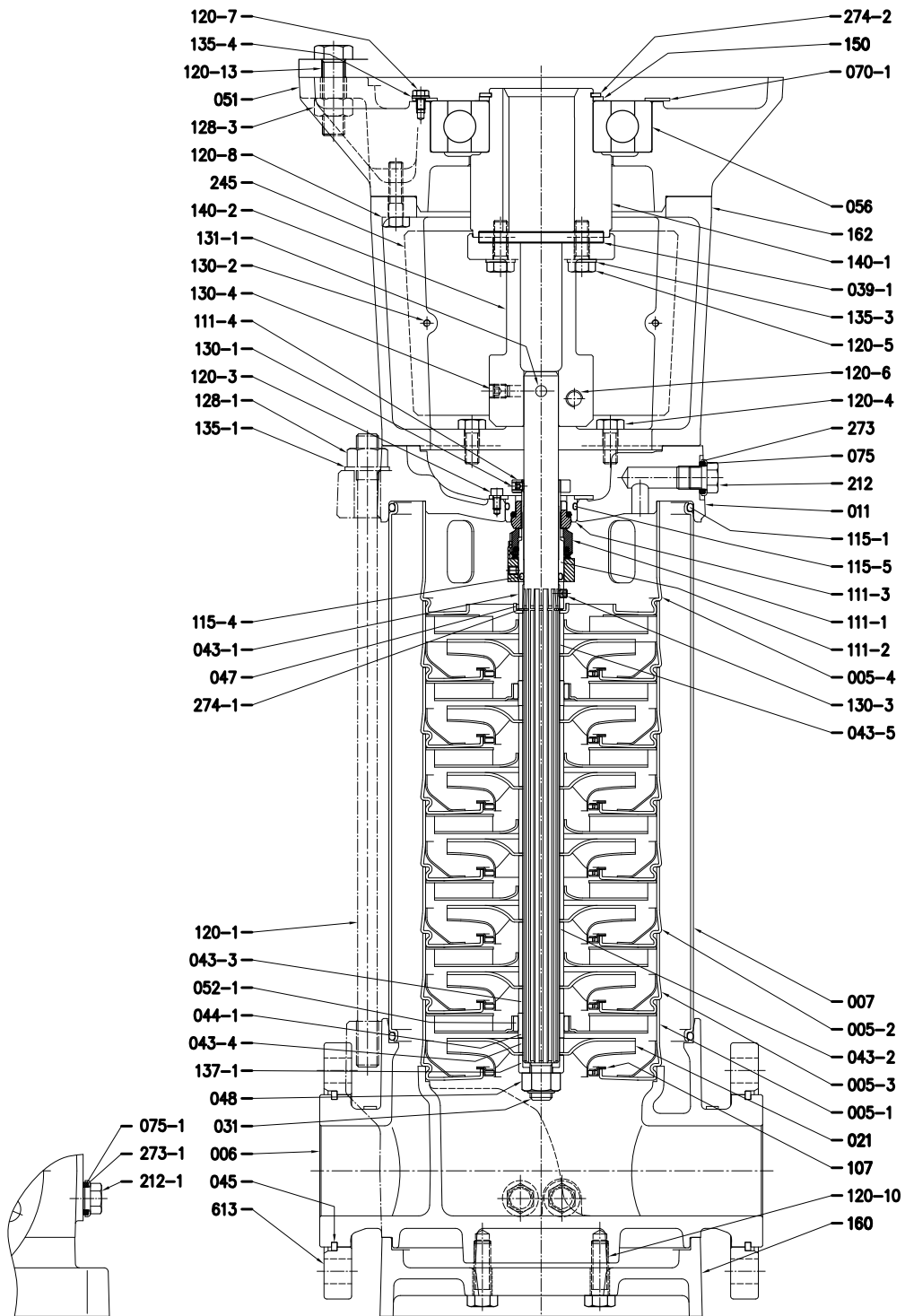


**EVMG 32**  
Pump with single ball bearing



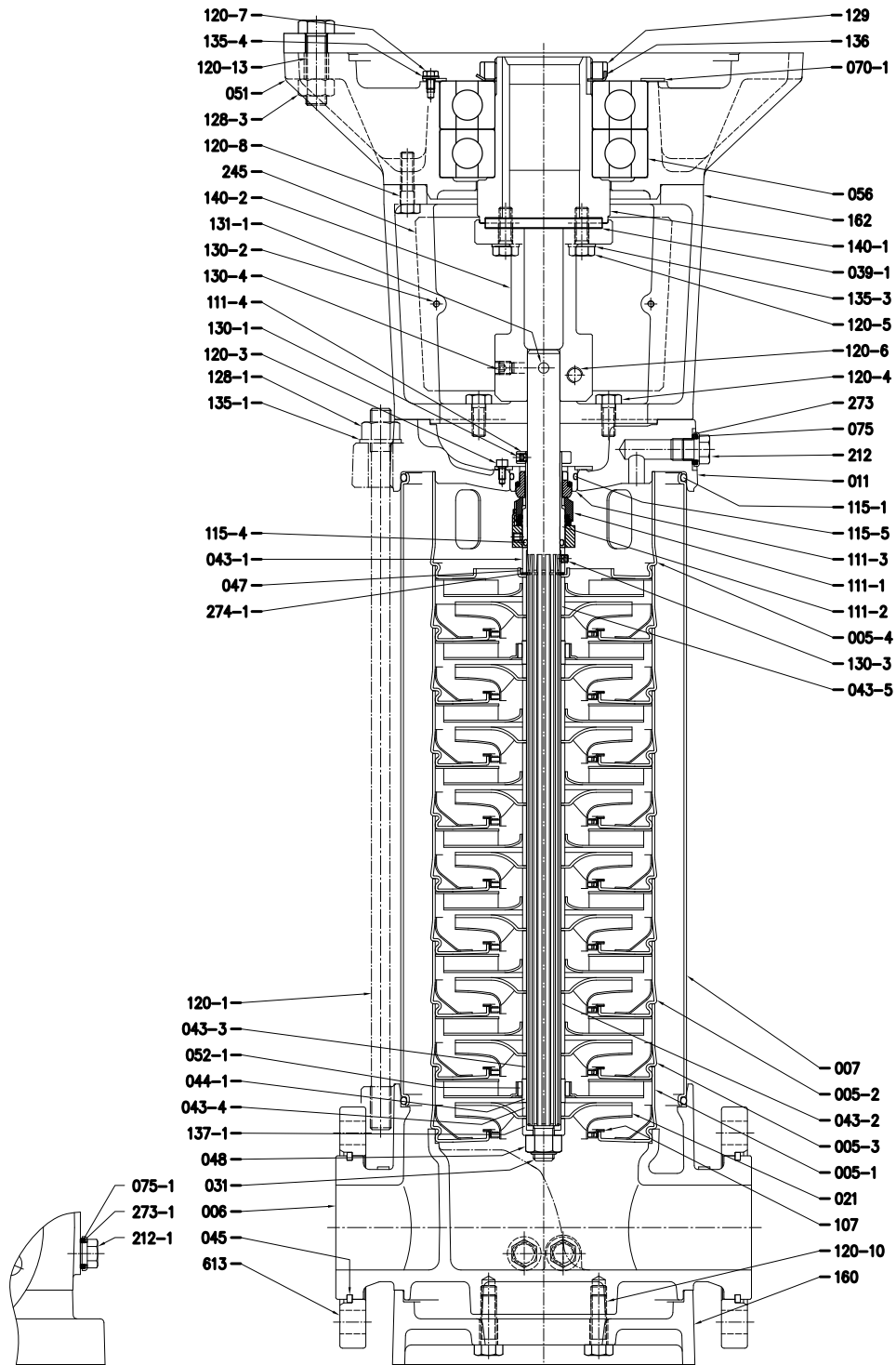
See dimensions page 404

**EVMG 32**  
**Pump with single ball bearing**



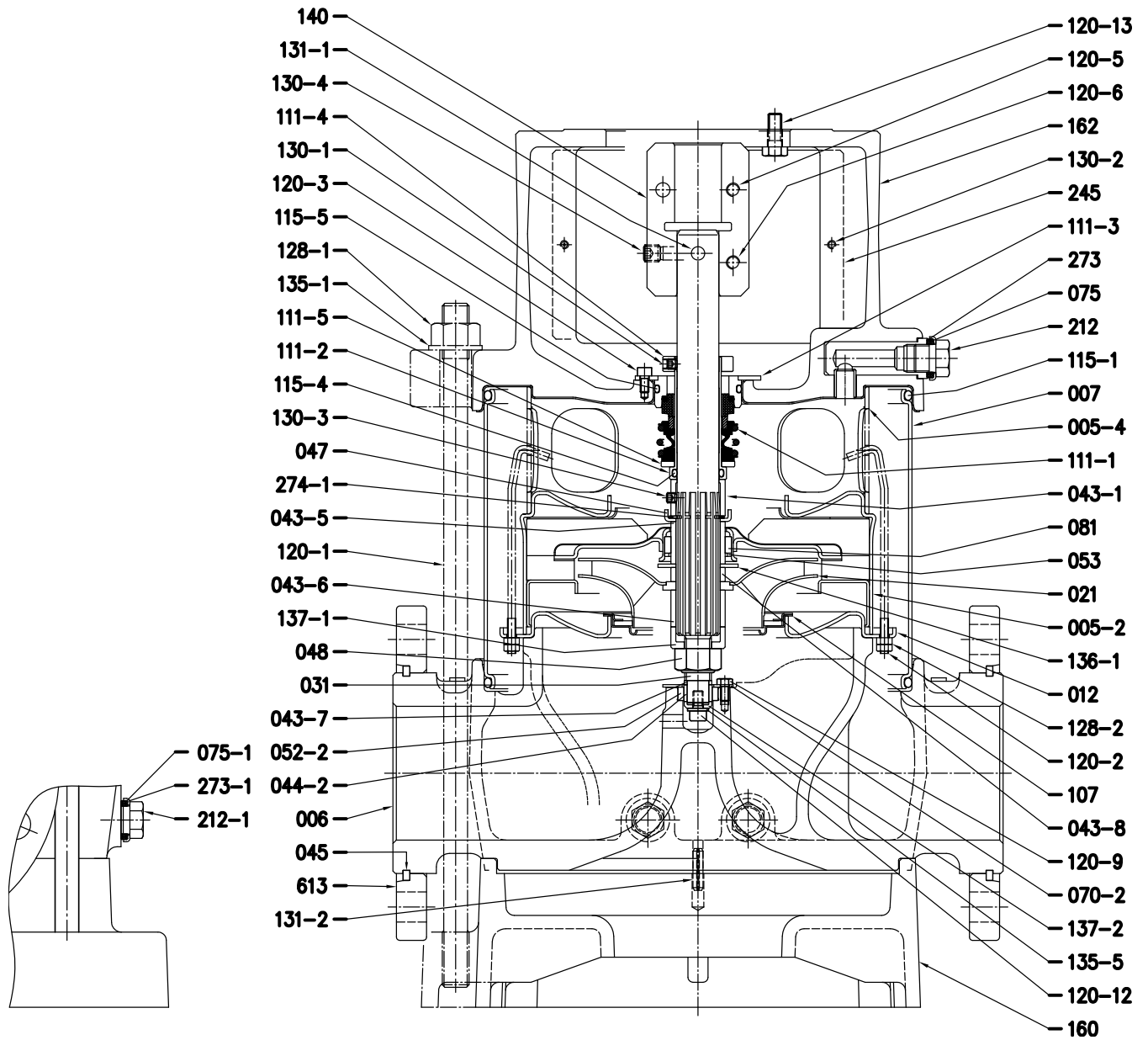
See dimensions page 404

**EVMG 32**  
**Pump with double ball bearing**



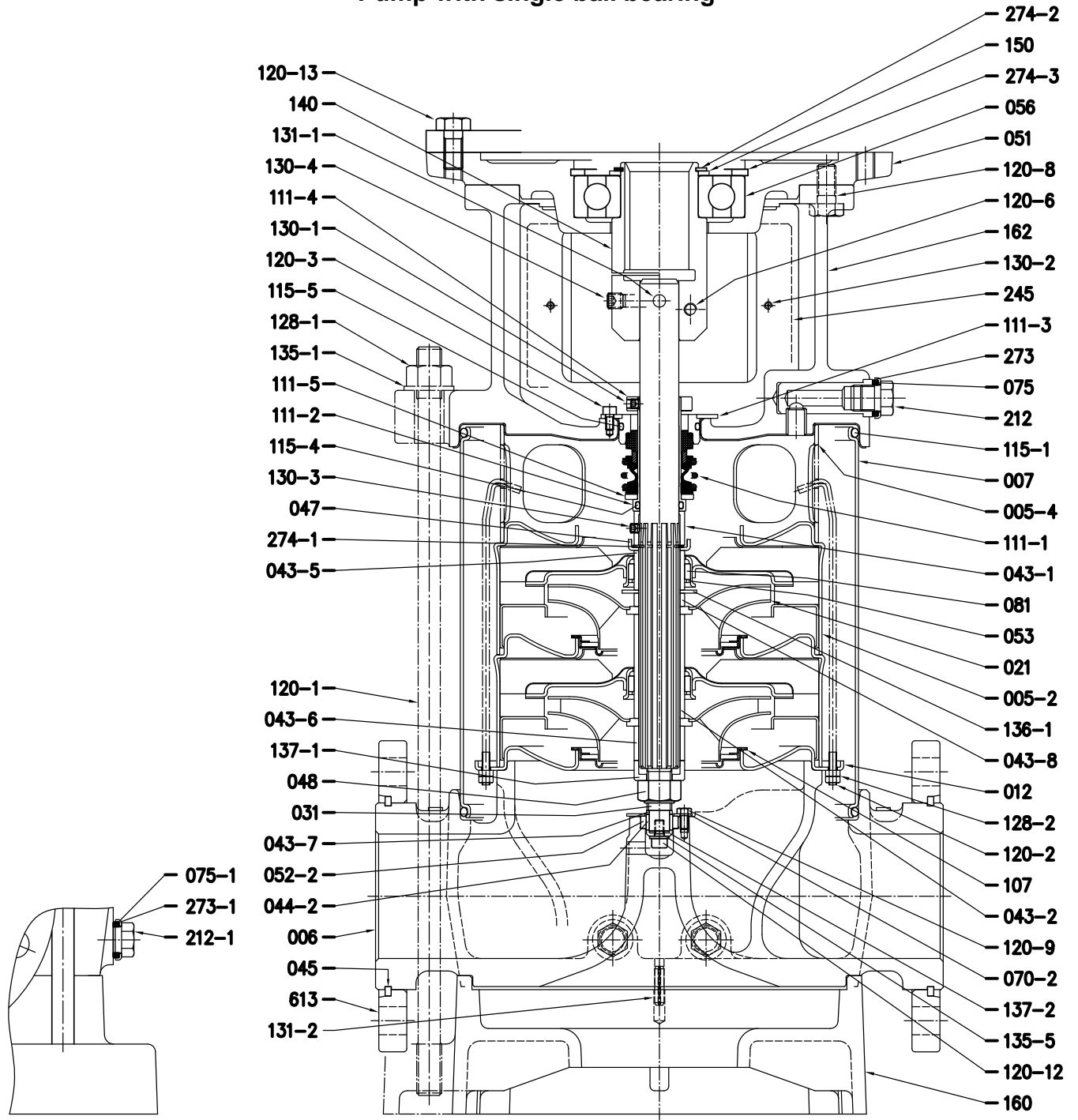
See dimensions page 404

**EVM(.) 45**  
**Pump without ball bearing**



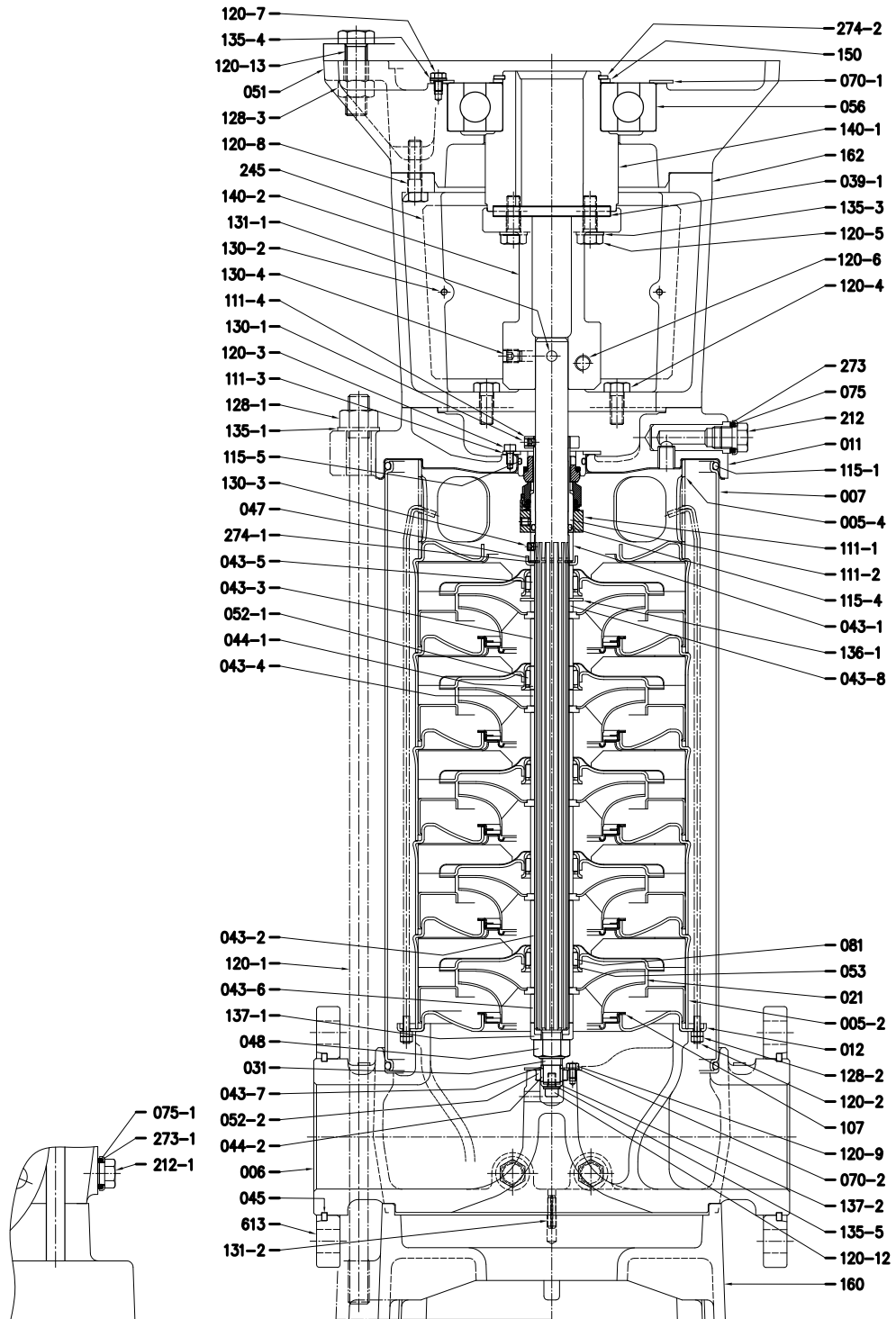
See dimensions page 405

**EVM(.) 45**  
**Pump with single ball bearing**



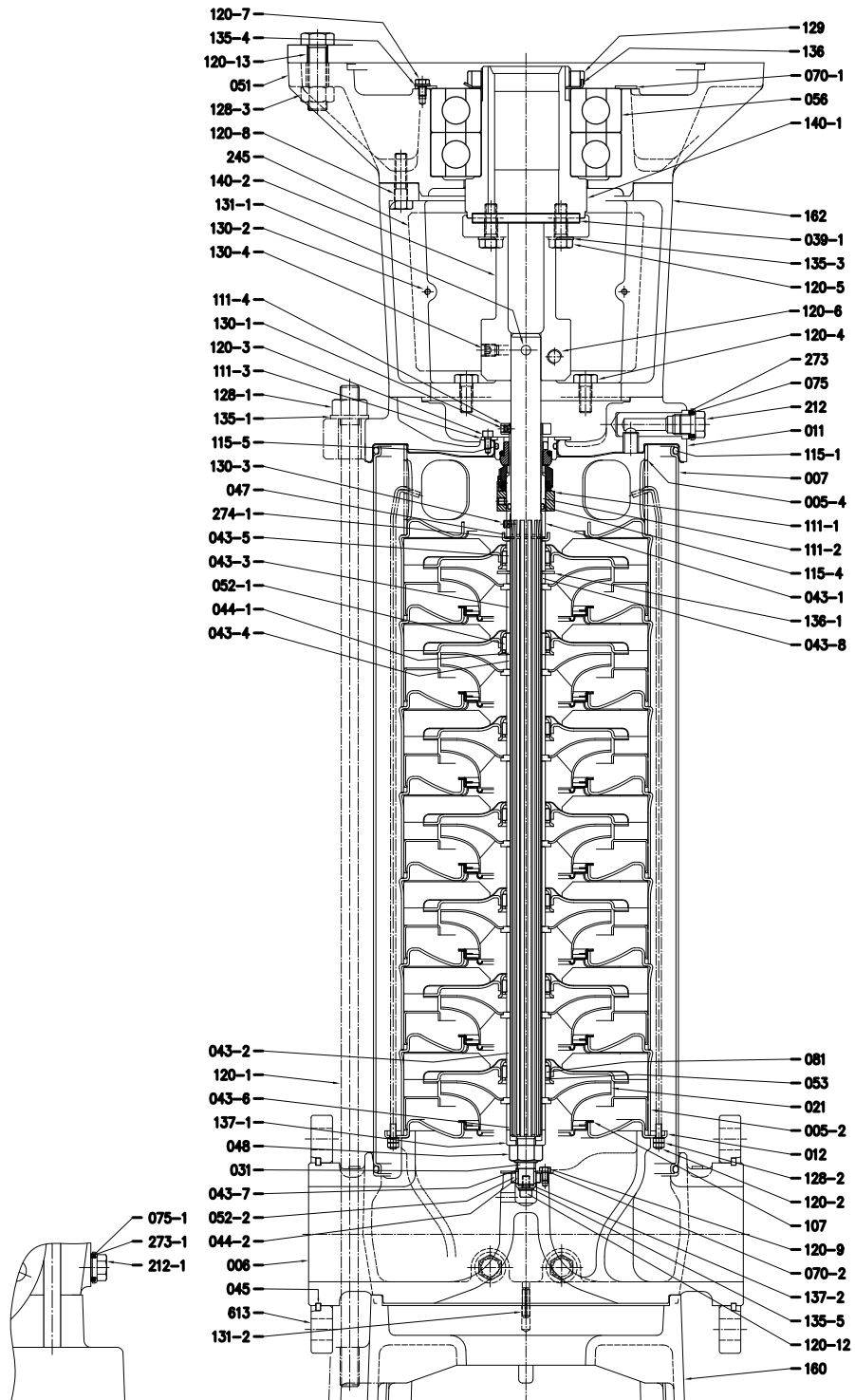
See dimensions page 405

**EVM(.) 45**  
**Pump with single ball bearing**



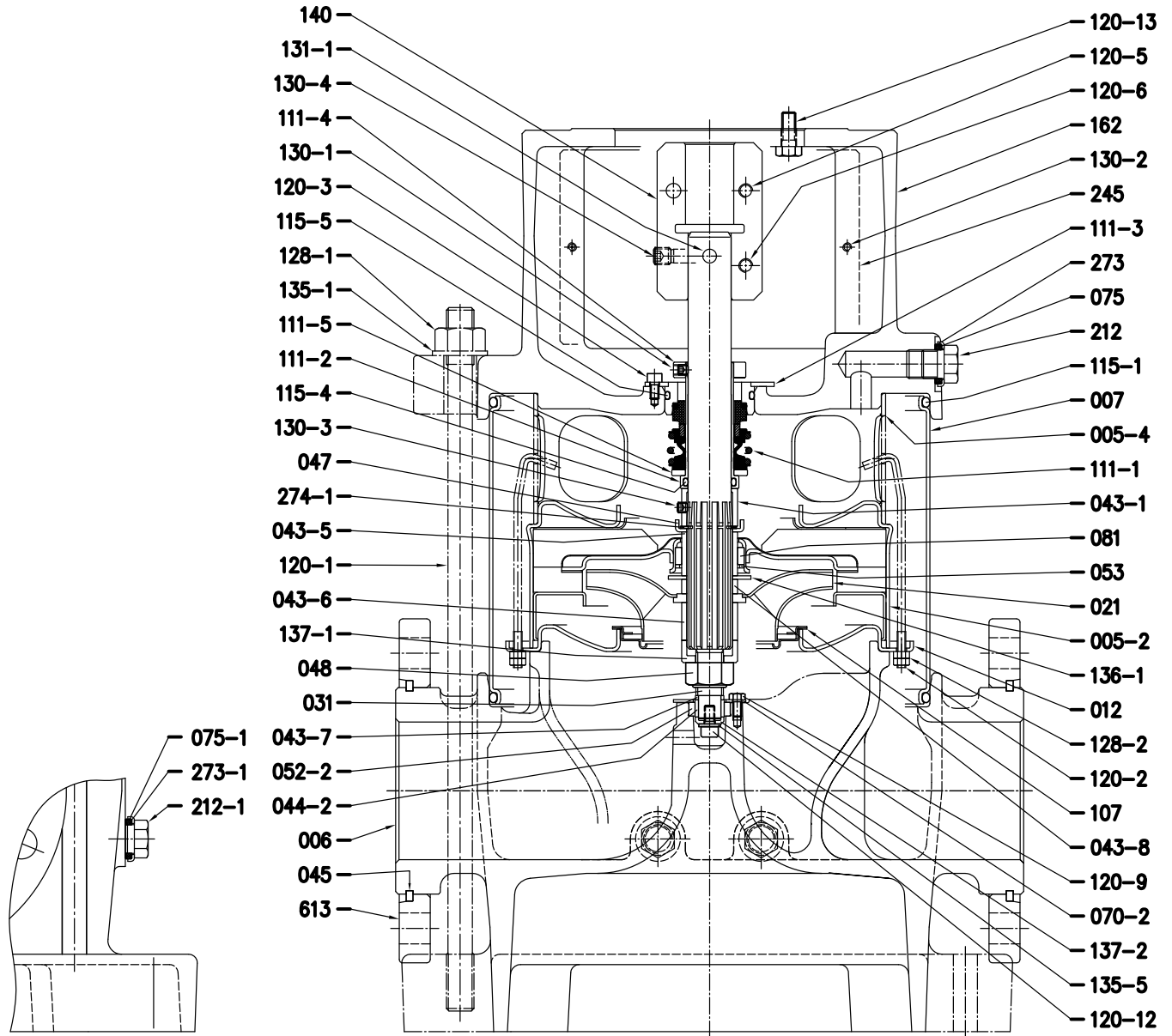
See dimensions page 405

EVM(.) 45  
Pump with double ball bearing



See dimensions page 405

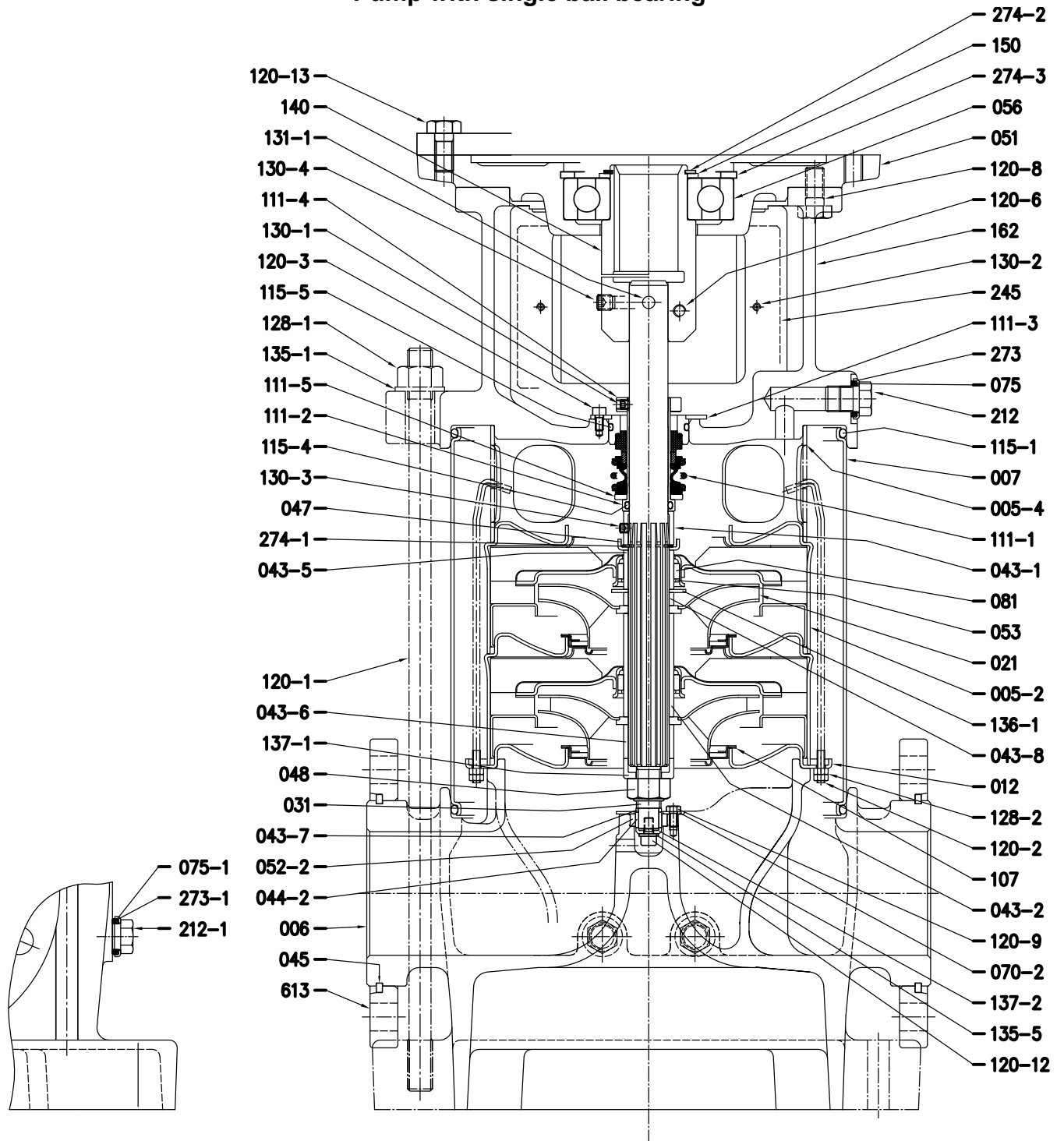
**EVMG 45**  
**Pump without ball bearing**



See dimensions page 405

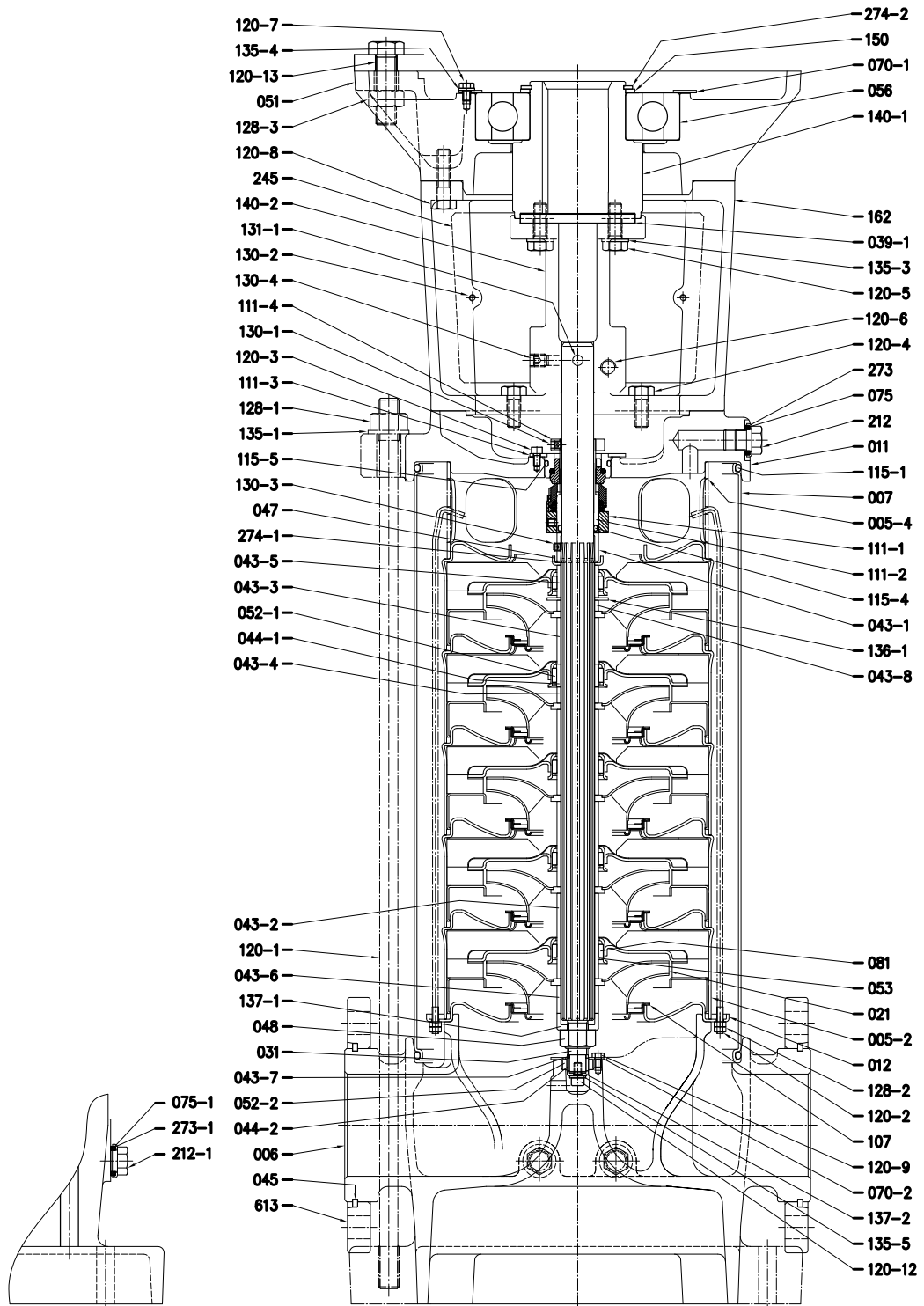


**EVMG 45**  
**Pump with single ball bearing**



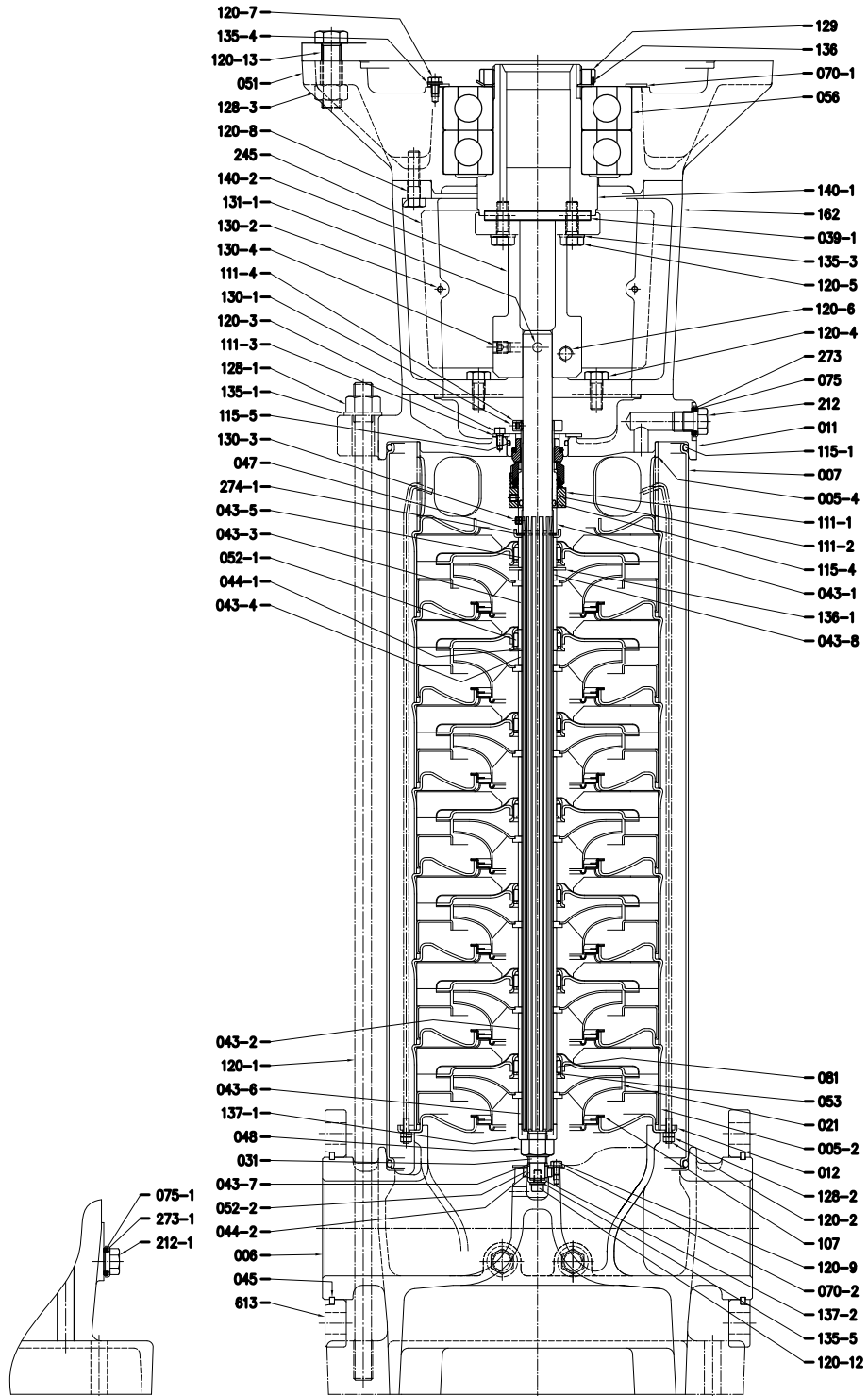
See dimensions page 405

**EVMG 45**  
**Pump with single ball bearing**



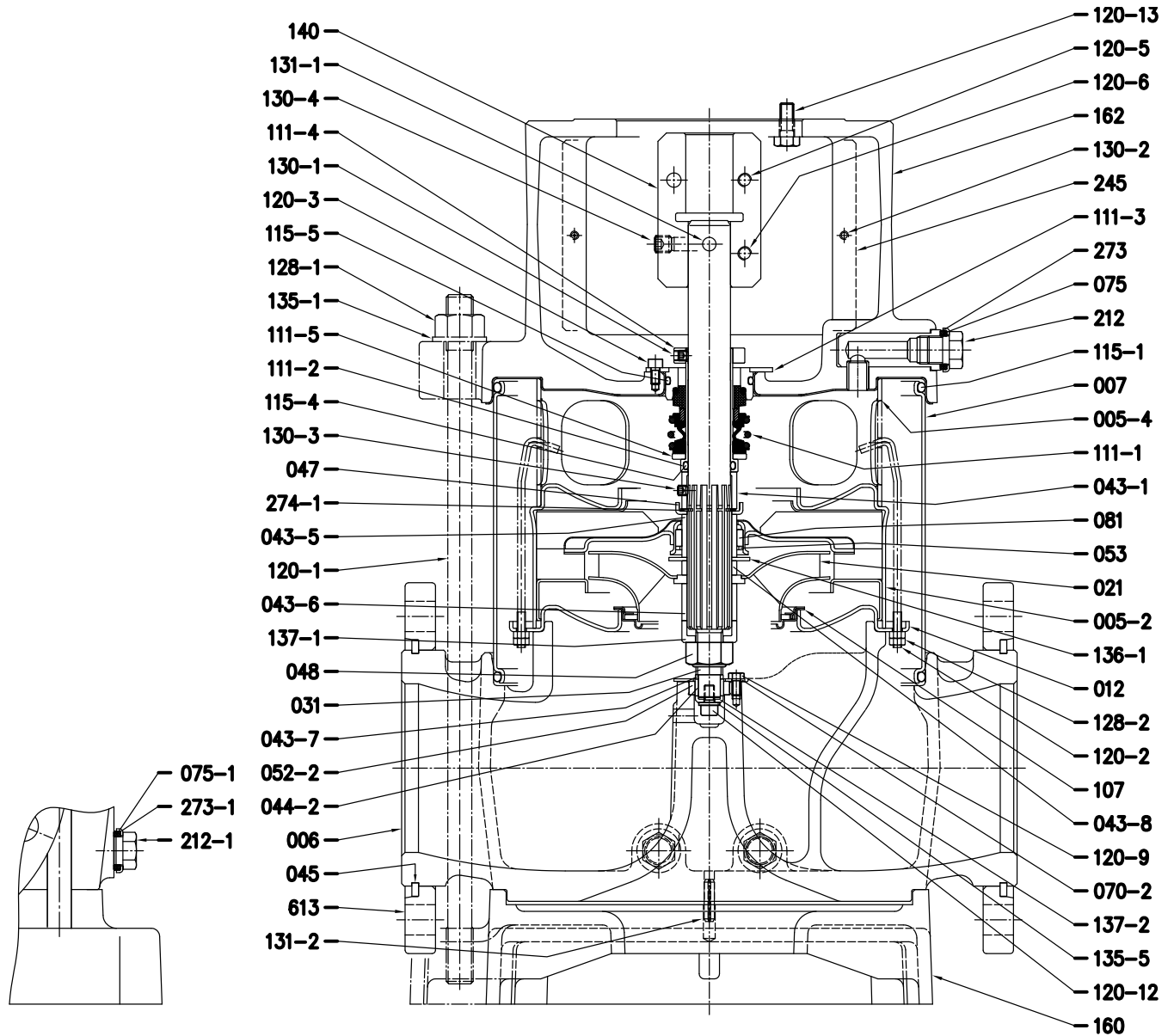
See dimensions page 405

**EVMG 45**  
**Pump with double ball bearing**



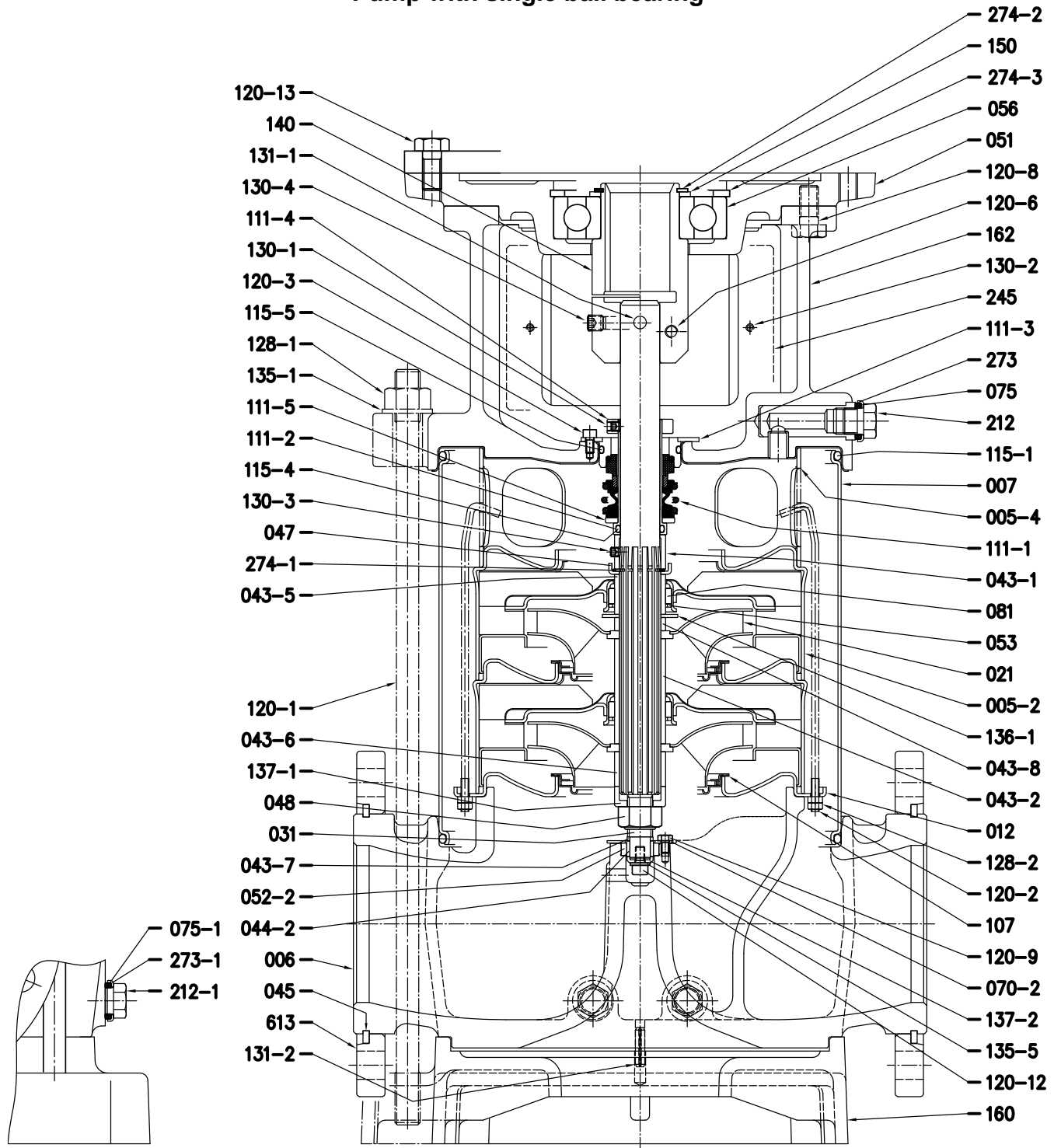
See dimensions page 405

**EVM(.) 64**  
**Pump without ball bearing**



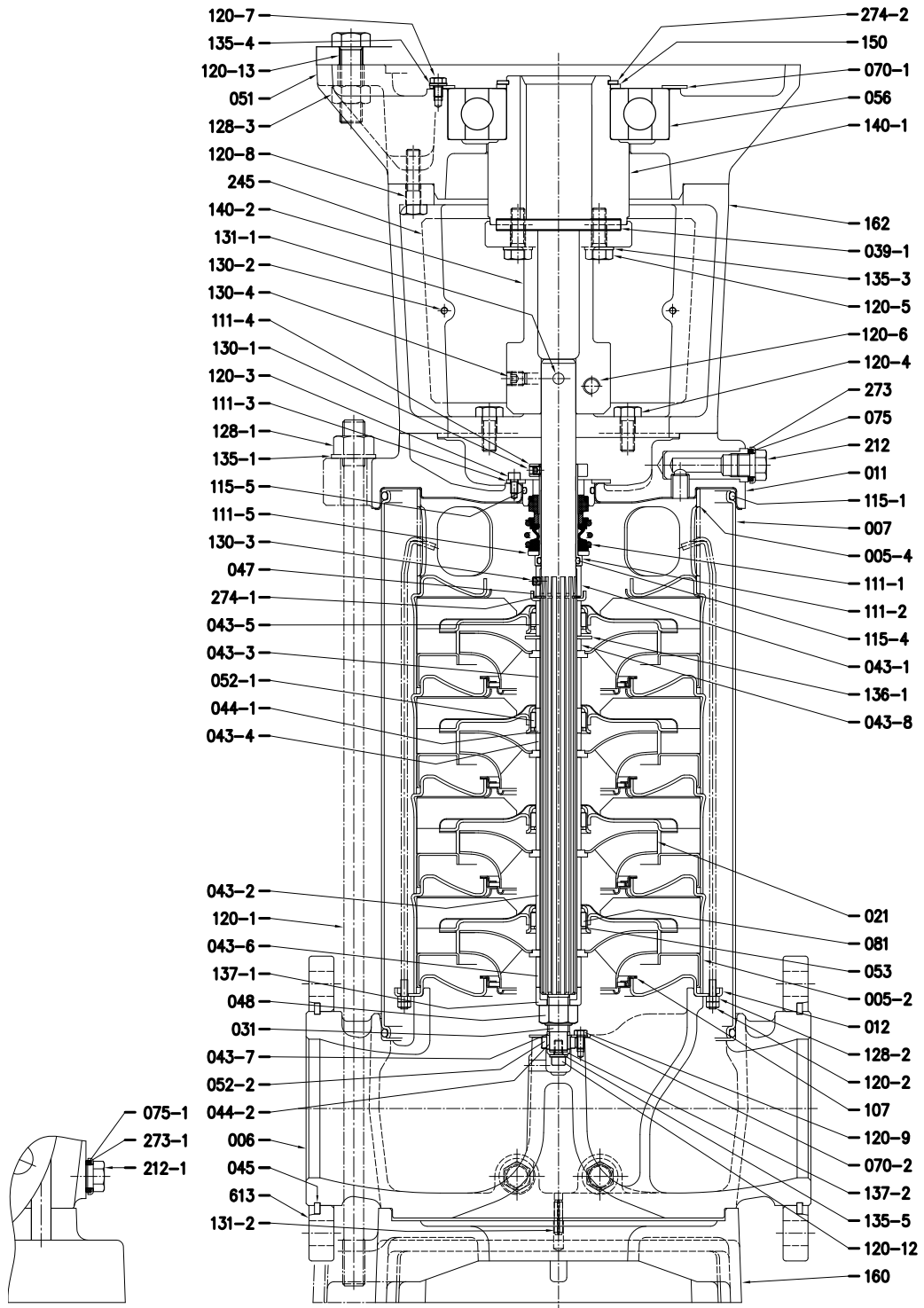
See dimensions page 406

EVM(.) 64  
Pump with single ball bearing



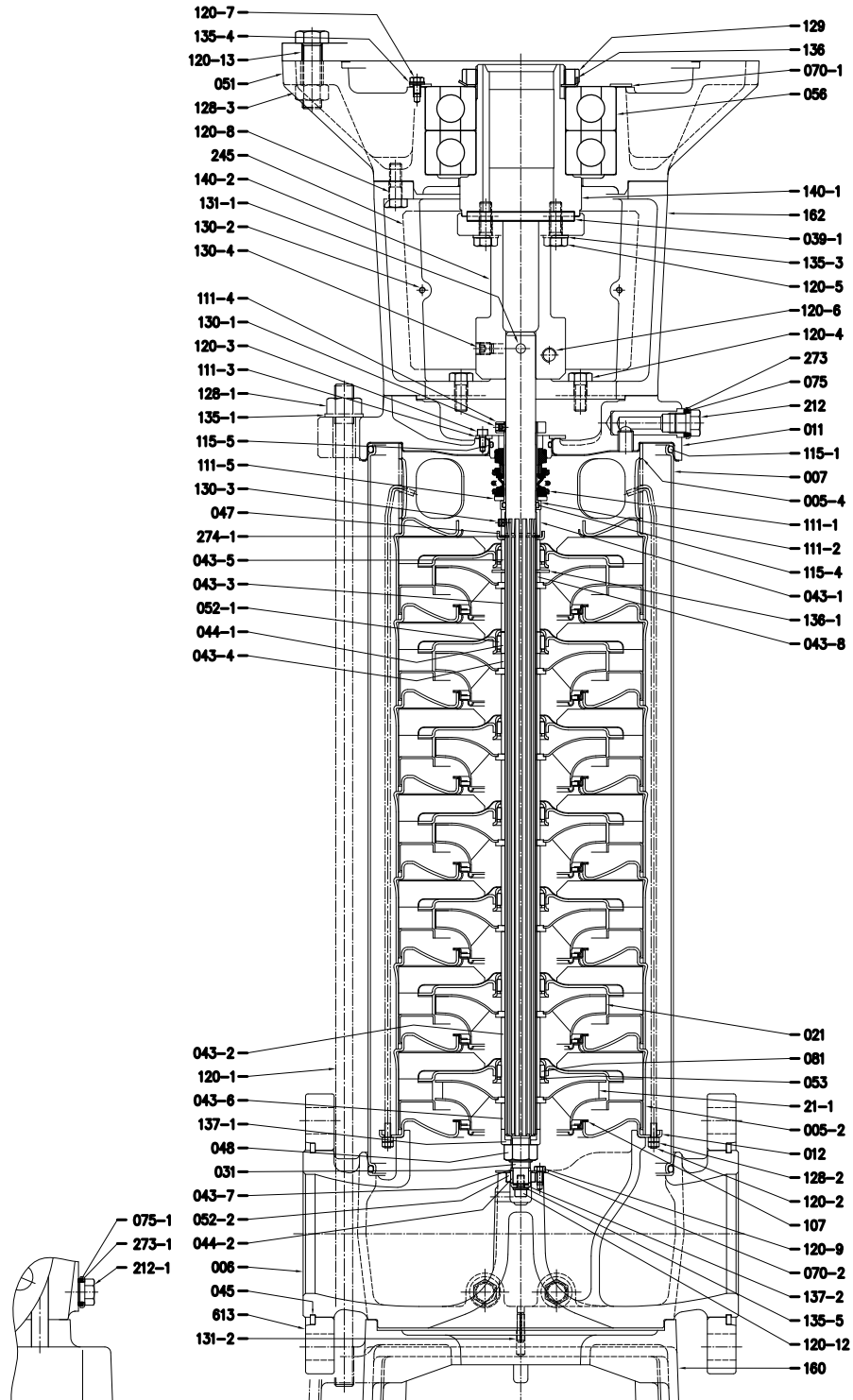
See dimensions page 406

**EVM(.) 64**  
**Pump with single ball bearing**



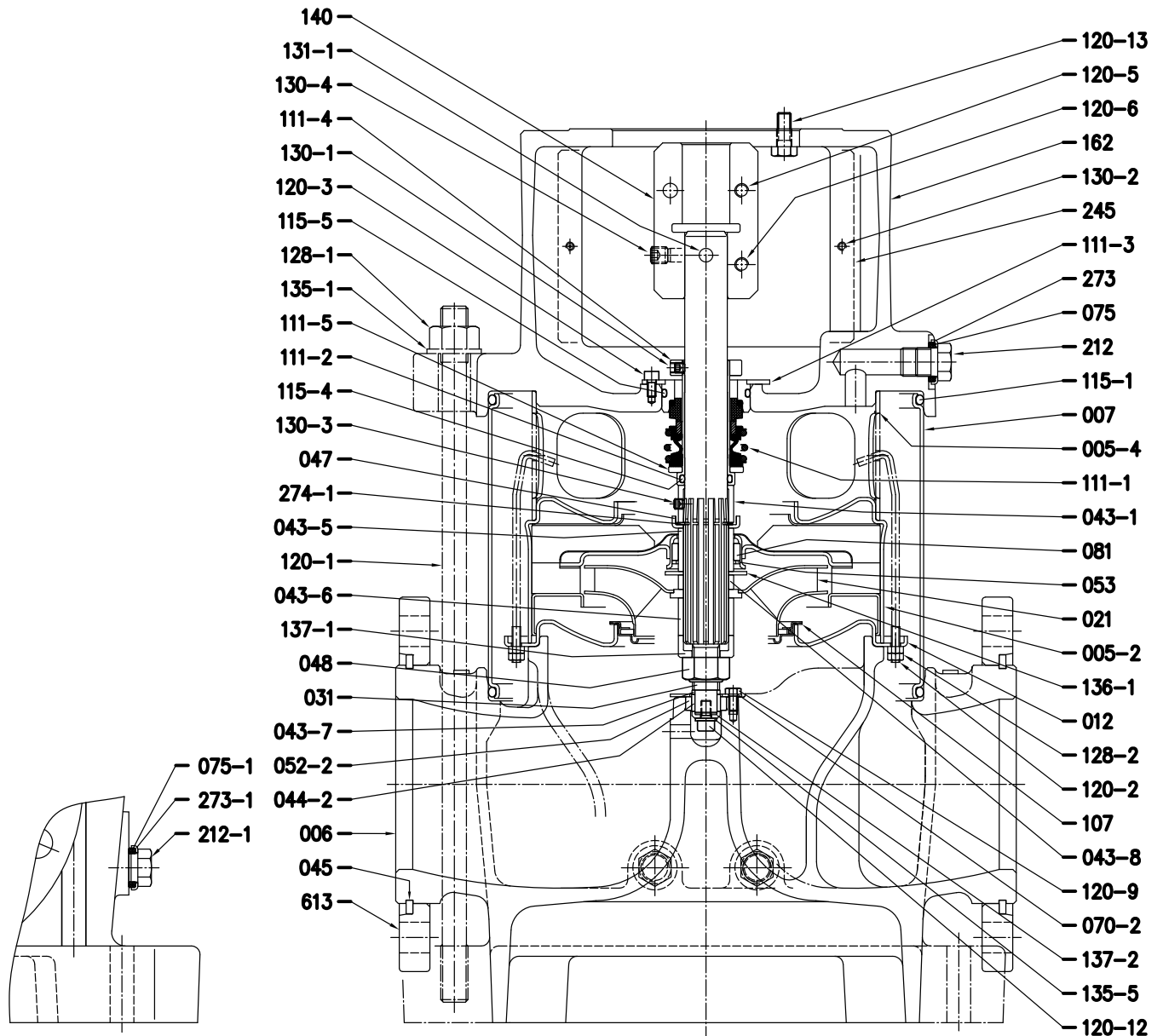
See dimensions page 406

**EVM(.) 64**  
**Pump with double ball bearing**



See dimensions page 406

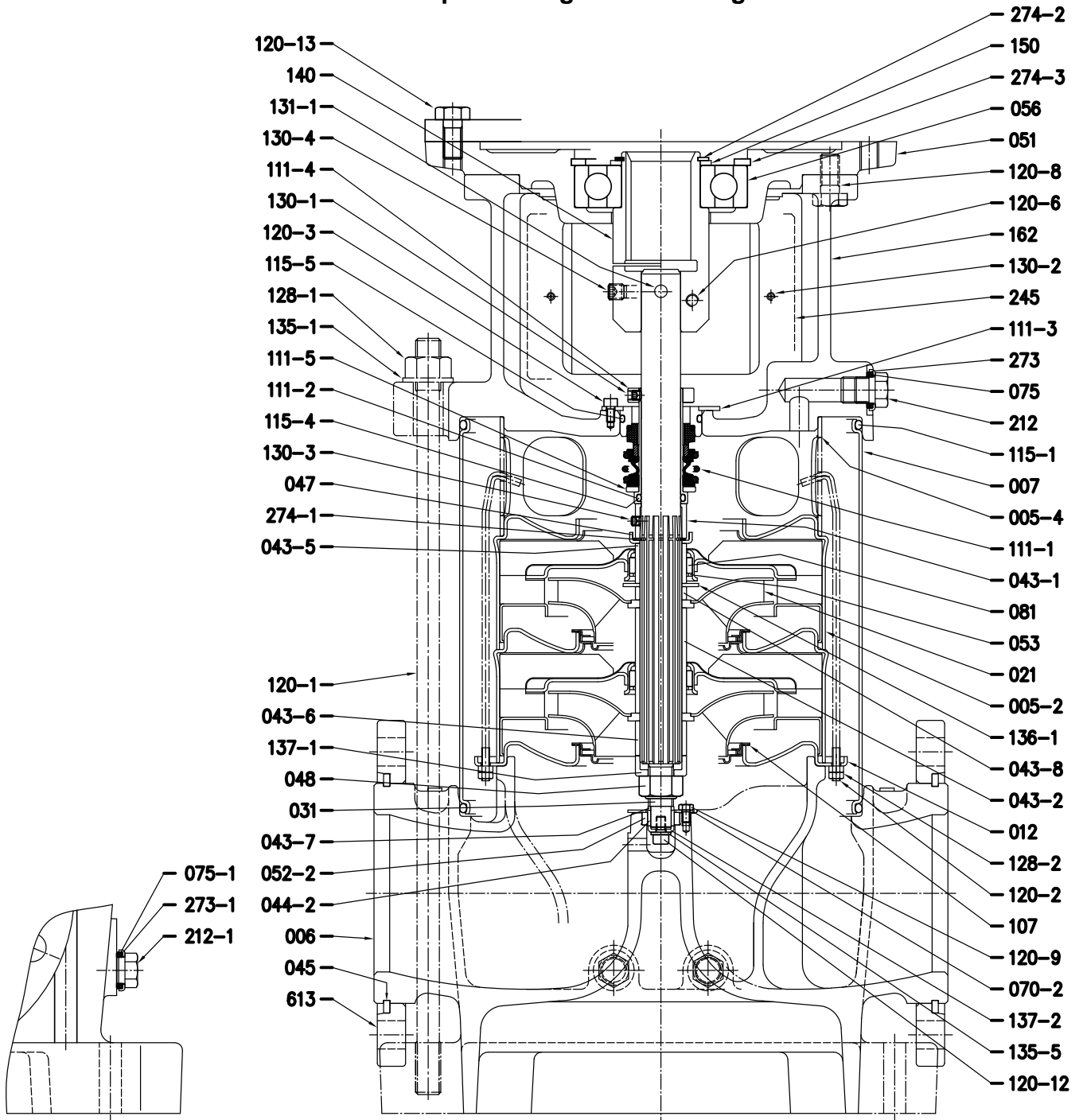
**EVMG 64**  
**Pump without ball bearing**



See dimensions page 406

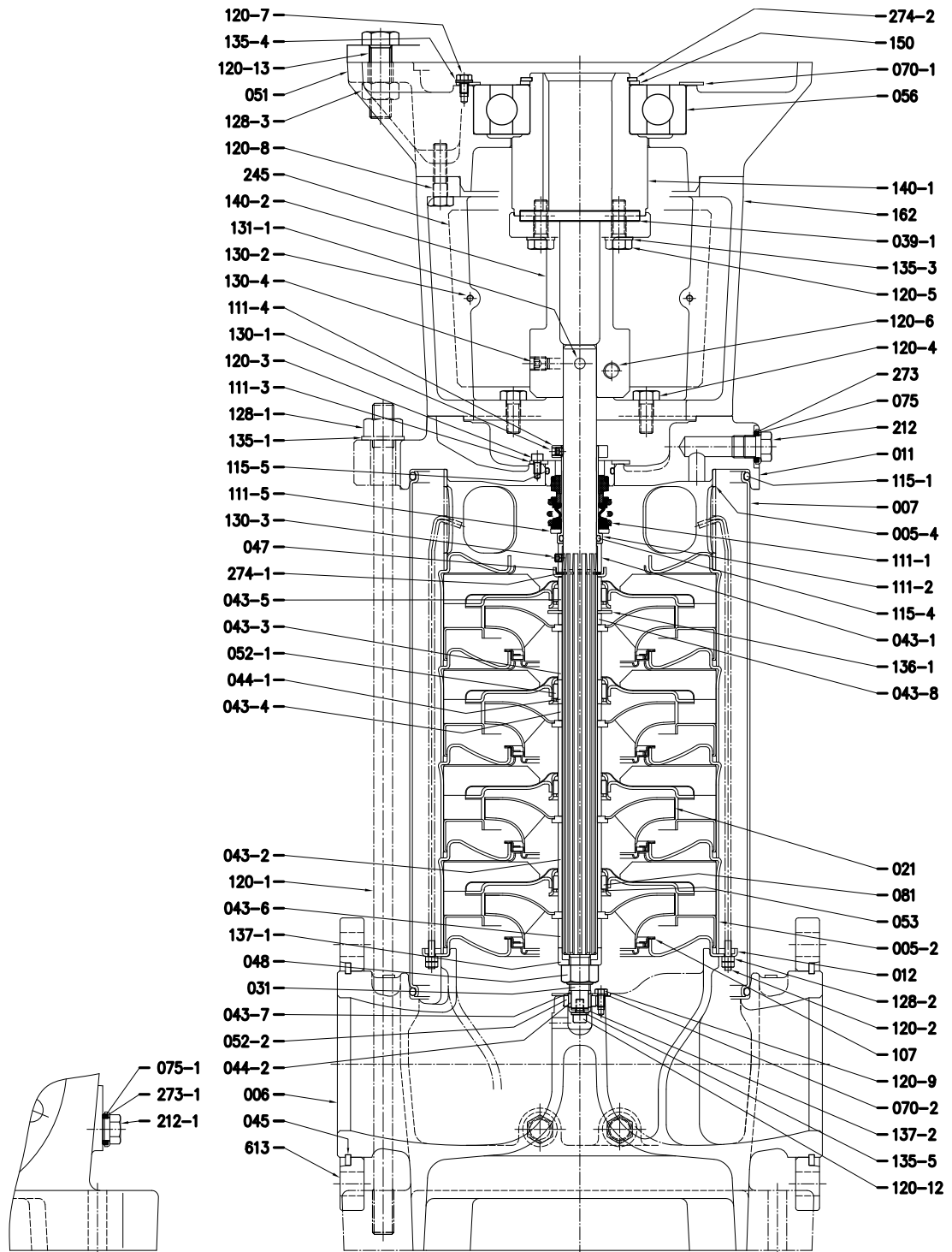


**EVMG 64**  
**Pump with single ball bearing**



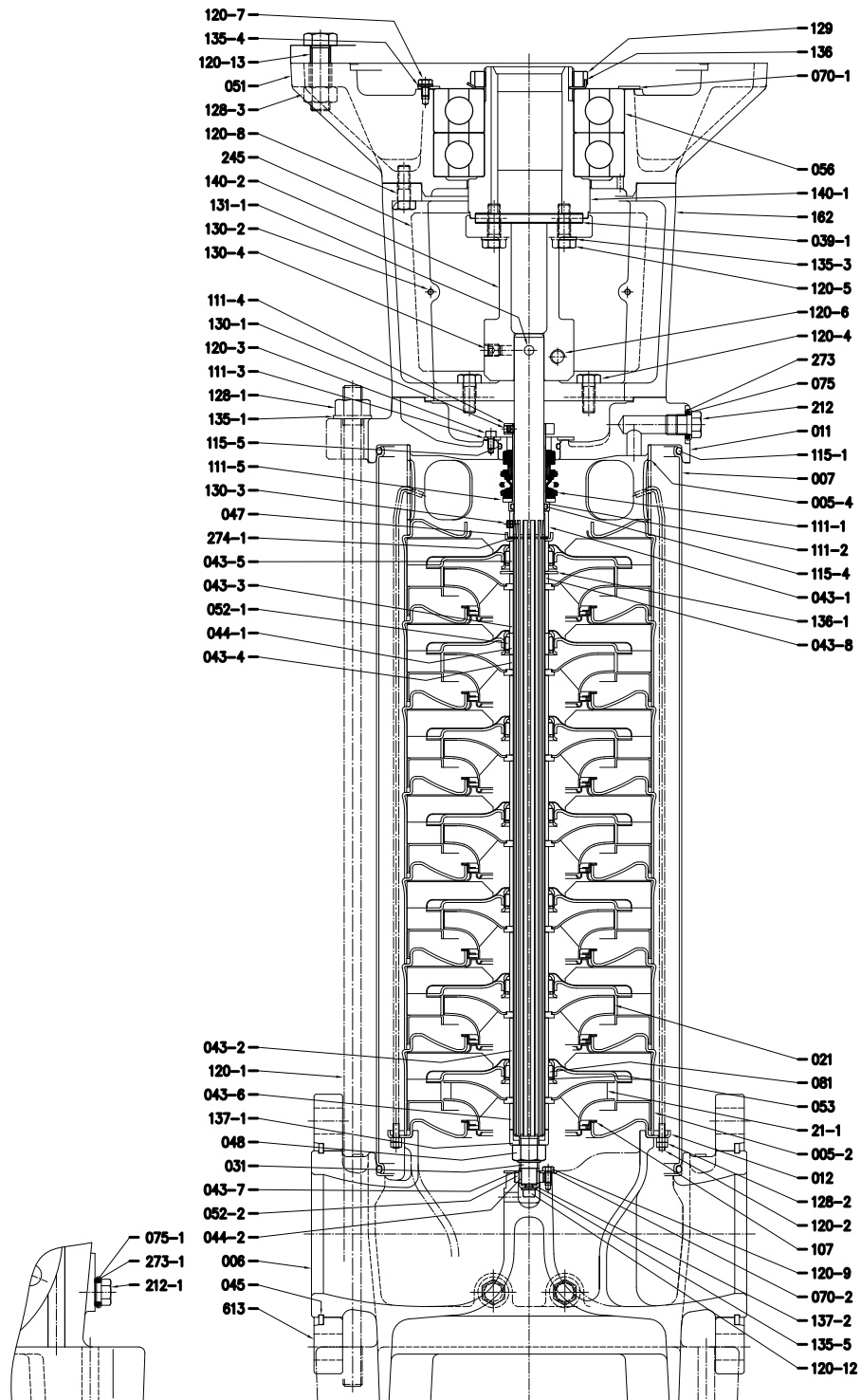
See dimensions page 406

**EVMG 64**  
**Pump with single ball bearing**



See dimensions pages 406

**EVMG 64**  
**Pump with double ball bearing**



See dimensions page 406.

**SECTIONAL VIEW TABLE  
EVM(.) 3-5**

| N°    | PART NAME                      | MATERIAL                                   |                     |      | DIMENSIONS                      | STANDARD    | Q.TY     |     |
|-------|--------------------------------|--|---------------------|------|---------------------------------|-------------|----------|-----|
|       |                                | EVMG                                       | EVM                 | EVML |                                 |             |          |     |
| 005-1 | Suction casing                 | EN 1.4301(AISI 304)                        |                     |      | EN 1.4401 (AISI 316)            |             | 1        |     |
| 005-2 | Intermediate casing            | EN 1.4301(AISI 304)                        |                     |      | EN 1.4401 (AISI 316)            |             | [1]      |     |
| 005-3 | Intermediate casing bearing    | EN 1.4301(AISI 304)                        |                     |      | EN 1.4401 (AISI 316)            |             | [1]      |     |
| 005-4 | Discharge casing               | EN 1.4301(AISI 304)                        |                     |      | EN 1.4401 (AISI 316)            |             | 1        |     |
| 006   | Bottom casing                  | Cast iron EN-GJL-200-EN 1561               | EN 1.4301(AISI 304) |      | EN 1.4401 (AISI 316)            |             | 1        |     |
| 007   | Outer casing                   | EN 1.4301(AISI 304)                        |                     |      | EN 1.4401 (AISI 316)            |             | 1        |     |
| 021   | Impeller                       | EN 1.4301(AISI 304)                        |                     |      | EN 1.4401 (AISI 316)            |             | [1]      |     |
| 031   | Shaft                          | EN 1.4401 (AISI 316)                       |                     |      |                                 |             | 1        |     |
| 043-1 | Shaft sleeve (mechanical seal) | EN 1.4301(AISI 304)                        |                     |      | EN 1.4401 (AISI 316)            |             | 1        |     |
| 043-2 | Shaft sleeve (intermediate)    | EN 1.4301(AISI 304)                        |                     |      | EN 1.4401 (AISI 316)            |             | [1]      |     |
| 043-3 | Shaft sleeve (bearing)         | EN 1.4301(AISI 304)                        |                     |      | EN 1.4401 (AISI 316)            |             | [1]      |     |
| 043-5 | Shaft sleeve (last stage)      | EN 1.4301(AISI 304)                        |                     |      | EN 1.4401 (AISI 316)            |             | [1]      |     |
| 043-6 | Shaft sleeve (adjustment)      | EN 1.4301(AISI 304)                        |                     |      | EN 1.4401 (AISI 316)            |             | [1]      |     |
| 044-1 | Shaft sleeve bearing           | Tungsten carbide                           |                     |      |                                 |             | [1]      |     |
| 046   | Split ring (mechanical seal)   | EN 1.4301(AISI 304)                        |                     |      | EN 1.4401 (AISI 316)            |             | [1]      |     |
| 047   | Ring holder                    | EN 1.4301(AISI 304)                        |                     |      | EN 1.4401 (AISI 316)            |             | 1        |     |
| 048   | Impeller nut                   | A2-70 UNI 7323 with inox insert            |                     |      | A4-70 UNI 7323 with inox insert | M8          | 1        |     |
| 051   | Motor adapter                  | Cast iron EN-GJL-200-EN 1561               |                     |      |                                 |             | [1]      |     |
| 052-1 | Bearing                        | Tungsten carbide                           |                     |      |                                 |             | [1]      |     |
| 056   | Ball bearing                   | See table pag.356                          |                     |      |                                 |             | [1]      |     |
| 075   | O-ring (plug)                  | EPDM                                       |                     |      | FPM                             |             | 1        |     |
| 075-1 | O-ring (plug)                  | EVM, EVML<br>EVMG                          | EPDM                |      |                                 | FPM         | 2        |     |
|       |                                |  | EPDM                |      |                                 | FPM         | 4        |     |
| 107   | Liner ring                     | PTFE / EN 1.4301 (AISI 304)                |                     |      | PTFE / EN 1.4401 (AISI 316)     |             | [1]      |     |
| 111   | Mechanical seal                | Silicon carbide/Carbon/EPDM                |                     |      | Silicon carbide/Carbon/FPM      |             | 1        |     |
| 111-3 | Mechanical seal seat           | EN 1.4301(AISI 304)                        |                     |      | EN 1.4401 (AISI 316)            |             | 1        |     |
| 115-1 | O-ring (outer casing)          | EPDM                                       |                     |      | FPM                             | 129.54x5.34 | OR 6510  | 2   |
| 115-3 | O-ring                         | /  | EPDM                |      | FPM                             | 50x3.1      |          | [1] |
| 115-5 | O-ring                         | EPDM                                       |                     |      | FPM                             | 23.47x2.62  | OR 3093  | 1   |
| 117   | Flange gasket                  | EPDM                                       | /                   |      | /                               |             |          | [1] |
| 120-1 | Tie rod                        | Zincate steel 6.8 strenght class ISO 898/1 |                     |      |                                 |             | 4        |     |
| 120-3 | Screw                          | A2-70 UNI 7323                             |                     |      |                                 | M4x6        | UNI 5931 | 4   |
| 120-5 | Screw for coupling             | Zincate steel 8.8 strenght class ISO 898/1 |                     |      |                                 | M6x25       | UNI 5931 | [1] |

[1] See table on page 356

SECTIONAL VIEW TABLE  
EVM(.) 3-5

| N°     | PART NAME   | MATERIAL                                   |   |                                  | DIMENSIONS | STANDARD | Q.TY |
|--------|---|--|---|----------------------------------|------------|----------|------|
|        |   | EVMG                                       | EVM                                     | EVML                             |            |          |      |
| 120-6  | Screw for coupling<br>EVM3, EVM5 2 to 22<br>EVM5 24   | Zincate steel                              |   |                                  | M6x16      | UNI 5931 | [1]  |
|        |   |  |   |                                  | M8x20      | UNI 5931 |      |
| 120-8  | Screw (motor adapter)   | Zincate steel 8.8 strenght class ISO 898/1 |   |                                  | M12x25     | UNI 5739 | [1]  |
| 120-11 | Screw for counterflange   | A2-70 UNI 7323                             |   |                                  | M10x20     | UNI 5739 | [1]  |
| 120-13 | Screw for motor<br>EVM3 2 to 11, EVM5 2 to 6<br>EVM3 13 to 15, EVM5 7 to 8<br>EVM3 18 to 26, EVM5 10 to 22<br>EVM5 24 | Zincate steel 8.8 strenght class ISO 898/1 |   |                                  | M6x16      | UNI 5739 | 4    |
|        |   |  |   |                                  | M8x20      | UNI 5739 |      |
|        |   |  |   |                                  | M8x30      | UNI 5739 |      |
|        |   |  |   |                                  | M12x25     | UNI 5739 |      |
| 128-1  | Nut for tie rod   | Zincate steel                              |   |                                  | M10        | UNI 5588 | 4    |
| 128-5  | Nut for tie rod   | /  | A2-70 UNI 7323                          |                                  | M10        | UNI 7474 | 4    |
| 128-6  | Nut for coupling  | Zincate steel                              |   |                                  | M6         | UNI 5588 | [1]  |
| 130-2  | Screw for coupling guard  | A2-70 UNI 7323                             |   |                                  | M5x6       | UNI 7687 | 4    |
| 130-4  | Set-screw   | Carbon steel                               |   |                                  | M5x6       | UNI 5929 | [1]  |
| 131-1  | Pin for shaft   | Carbon steel                               |   |                                  |            |          | 1    |
| 135-1  | Washer  | Zincate steel                              |   |                                  | 10.5x21x2  | UNI 6592 | 4    |
| 135-6  | Washer knurled  | Carbon steel                               |   |                                  | D6         |          | [1]  |
| 137-1  | Impeller spacer   | EN 1.4301(AISI 304)                        |   | EN 1.4401 (AISI 316)             |            |          | 1    |
| 140    | Coupling<br>UP TO 1.5 kW<br>2.2 kW AND ABOVE  | Die cast Aluminium EN AB-AISI11Cu2 (Fe)    |   |                                  |            |          | 2    |
|        |   | Brass OT 58 UNI 5705                       |   |                                  |            |          | 1    |
| 150    | Spacer  | Carbon steel                               |   |                                  |            |          | [1]  |
| 160    | Base  | /  | Die cast Aluminium EN AB-AISI11Cu2 (Fe) |                                  |            |          | 1    |
| 162    | Motor bracket   | Cast iron EN-GJL-200-EN 1561               | Cast iron + EN 1.4301(AISI 304)         | Cast iron + EN 1.4401 (AISI 316) |            |          | 1    |
| 212    | Plug  | EN 1.4301(AISI 304)                        |   | EN 1.4401 (AISI 316)             |            |          | 1    |
| 212-1  | Plug<br>EVM, EVML<br>EVMG   | EN 1.4301(AISI 304)                        |   | EN 1.4401 (AISI 316)             |            |          | 2    |
|        |   |  |   |                                  |            |          | 4    |
| 219    | Counter flange  | Zincate steel                              | EN 1.4301(AISI 304)                     | EN 1.4401 (AISI 316)             |            |          | [1]  |
| 245    | Coupling guard  | EN 1.4301(AISI 304)                        |   |                                  |            |          | 2    |
| 273    | Washer (plug)   | EN 1.4301(AISI 304)                        |   | EN 1.4401 (AISI 316)             |            |          | 1    |
| 273-1  | Washer (plug)<br>EVM, EVML<br>EVMG  | EN 1.4301(AISI 304)                        |   | EN 1.4401 (AISI 316)             |            |          | 2    |
|        |   |  |   |                                  |            |          | 4    |
| 274-2  | C-type snap ring (coupling)<br>EVM3 18, EVM 3 22, EVM 5 10 to 12<br>EVM3 26, EVM5 14 to 22,<br>EVM5 24                | Carbon steel TC 80                         |   |                                  | D35        | UNI 7435 | [1]  |
|        |   |  |   |                                  | D40        |          |      |
|        |   |  |   |                                  | D50        |          |      |
| 274-3  | C-type snap ring (bracket)<br>EVM3 18, EVM 3 22, EVM 5 10 to 12<br>EVM3 26, EVM5 14 to 22,<br>EVM5 24                 | Carbon steel TC 80                         |   |                                  | D72        | UNI 7437 | [1]  |
|        |   |  |   |                                  | D90        |          |      |
|        |   |  |   |                                  | D110       |          |      |

[1] See table on page 356

SECTIONAL VIEW TABLE  
EVM(.) 10

| N°    | PART NAME                      | MATERIAL                                   |  |                                    | DIMENSIONS  | STANDARD | Q.TY |
|-------|--------------------------------|--|--|------------------------------------|-------------|----------|------|
|       |                                | EVMG                                       | EVM  | EVML                               |             |          |      |
| 005-1 | Suction casing                 | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)               |             |          | 1    |
| 005-2 | Intermediate casing            | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)               |             |          | [1]  |
| 005-3 | Intermediate casing bearing    | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)               |             |          | [1]  |
| 005-4 | Discharge casing               | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)               |             |          | 1    |
| 006   | Bottom casing                  | Cast iron EN-GJL-200<br>-EN 1561           | EN 1.4301(AISI 304)                        | EN 1.4401 (AISI 316)               |             |          | 1    |
| 007   | Outer casing                   | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)               |             |          | 1    |
| 021   | Impeller                       | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)               |             |          | [1]  |
| 031   | Shaft                          | EN 1.4401 (AISI 316)                       |  |                                    |             |          | 1    |
| 043-1 | Shaft sleeve (mechanical seal) | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)               |             |          | 1    |
| 043-2 | Shaft sleeve (intermediate)    | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)               |             |          | [1]  |
| 043-3 | Shaft sleeve (bearing)         | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)               |             |          | [1]  |
| 043-5 | Shaft sleeve (last stage)      | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)               |             |          | [1]  |
| 044-1 | Shaft sleeve bearing           | Tungsten carbide                           |  |                                    |             |          | [1]  |
| 047   | Ring holder                    | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)               |             |          | 1    |
| 048   | Impeller nut                   | A2-70 UNI 7323 with inox insert            |  | A4-70 UNI 7323<br>with inox insert | M10         |          | 1    |
| 051   | Motor adapter                  | Cast iron EN-GJL-200-EN 1561               |  |                                    |             |          | [1]  |
| 052-1 | Bearing                        | Tungsten carbide                           |  |                                    |             |          | [1]  |
| 056   | Ball bearing                   | See table pag.357                          |  |                                    |             |          | [1]  |
| 070-1 | Ring for bearing               | EN 1.4301(AISI 304)                        |  |                                    |             |          | [1]  |
| 075   | O-ring (plug)                  | EPDM                                       |  | FPM                                |             |          | 1    |
| 075-1 | O-ring (plug)                  | EVM, EVML<br>EVMG                          | EPDM                                       |                                    | FPM         |          | 2    |
|       |                                |  | EPDM                                       |                                    | FPM         |          | 4    |
| 107   | Liner ring                     | PTFE/EN 1.4301(AISI 304)                   |  | PTFE/EN 1.4401 (AISI 316)          |             |          | [1]  |
| 111   | Mechanical seal                | EPDM                                       |  | Silicon carbide/Carbon/FPM         |             |          | 1    |
| 111-3 | Mechanical seal seat           | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)               |             |          | 1    |
| 115-1 | O-ring (outer casing)          | EPDM                                       |  | FPM                                | 164.46x5.34 | OR 6645  | 2    |
| 115-3 | O-ring                         | /  | EPDM                                       | FPM                                | 60x3.1      |          | [1]  |
| 115-5 | O-ring                         | EPDM                                       |  | FPM                                | 31.34x3.53  | OR 4125  | 1    |
| 117   | Flange Gasket                  | EPDM                                       | /  | /                                  |             |          | [1]  |
| 120-1 | Tie rod                        | Zincate steel 6.8 strenght class ISO 898/1 |  |                                    |             |          | 4    |
| 120-3 | Screw                          | A2-70 UNI 7323                             |  |                                    | M5x6        | UNI 5931 | 4    |
| 120-5 | Screw for coupling             | EVM10 2/3<br>EVM10 4                       | Zincate steel 8.8 strenght class ISO 898/1 |                                    | M6x16       | UNI 5931 | [1]  |
|       |                                |  | Zincate steel 8.8 strenght class ISO 898/1 |                                    | M6x25       |          |      |
| 120-6 | Screw for coupling             | EVM10 2/3/5/6<br>EVM10 8 to 20<br>EVM10 22 | Zincate steel                              |                                    | M6x16       | UNI 5931 | [1]  |
|       |                                |  | Zincate steel                              |                                    | M8x20       | UNI 5931 |      |
|       |                                |  | Zincate steel                              |                                    | M10x25      | UNI 5931 |      |
| 120-7 | Screw (bearing)                | Zincate steel 8.8 strenght class ISO 898/1 |  |                                    | 6x10        | UNI 5739 | [1]  |
| 120-8 | Screw (motor adapter)          | Zincate steel                              |  |                                    | M2x25       | UNI 5739 | [1]  |

[1] See table on page 357

**SECTIONAL VIEW TABLE  
EVM(.) 10**

| N°     | PART NAME                          | MATERIAL                         |  |                                     | DIMENSIONS           | STANDARD | Q.TY |
|--------|------------------------------------|----------------------------------|--|-------------------------------------|----------------------|----------|------|
|        |                                    | EVMG                             | EVM  | EVML                                |                      |          |      |
| 120-11 | Screw for counterflange            | A2-70 UNI 7323                   |  |                                     | M12x20               | UNI 5739 | [1]  |
| 120-13 | Screw for motor                    | EVM10 2 to3                      | Zincate steel 8.8 strenght class ISO 898/1 |                                     | M6x16                | UNI 5931 | 4    |
|        |                                    | EVM10 4                          |  |                                     | M8x20                | UNI 5739 |      |
|        |                                    | EVM10 5 to11                     |  |                                     | M8x30                | UNI 5739 |      |
|        |                                    | EVM10 12 to20                    |  |                                     | M12x25               | UNI 5739 |      |
|        |                                    | EVM10 22                         |  |                                     | M16x65               | UNI 5739 |      |
| 128-1  | Nut for tie rod                    | Zincate steel                    |  |                                     | M12                  | UNI 5588 | 4    |
| 128-3  | Nut (motor)                        | Zincate steel                    |  |                                     |                      |          | [1]  |
| 128-5  | Nut for tie rod                    | /                                | Zincate steel                              |                                     | M12                  | UNI 7474 | 4    |
| 128-6  | Nut for coupling                   | Zincate steel                    |  |                                     | M6                   | UNI 5588 | [1]  |
| 130-2  | Screw for coupling guard           | A2-70 UNI 7323                   |  |                                     | M5x6                 | UNI 7687 | 4    |
| 130-4  | Set-screw                          | Carbon steel                     |  |                                     | M6x6                 | UNI 5929 | [1]  |
| 131-1  | Pin for shaft                      | Carbon steel                     |  |                                     |                      |          | 1    |
| 135-1  | Washer                             | Zincate steel                    |  |                                     | 13x24x2.5            | UNI 6592 | 4    |
| 135-4  | Washer (bearing)                   | Carbon steel                     |  |                                     |                      |          | [1]  |
| 135-6  | Washer knurled                     | Carbon steel                     |  |                                     | D6                   |          | [1]  |
| 137-1  | Impeller spacer                    | EN 1.4301(AISI 304)              |  | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 140    | Coupling                           | Other models                     | Brass OT 58 UNI 5705                       |                                     |                      |          | 1    |
|        |                                    | EVM10 4                          | Die cast Aluminium EN AB-AISI11Cu2 (Fe)    |                                     |                      |          | 2    |
|        |                                    | EVM10 22                         | CF 35 SMn Pb10                             |                                     |                      |          | 1    |
| 150    | Spacer                             | Carbon steel                     |  |                                     |                      |          | [1]  |
| 160    | Base                               | /                                | Die cast Aluminium EN AB-AISI11Cu2 (Fe)    |                                     |                      |          | 1    |
| 162    | Motor bracket                      | Cast iron EN-GJL-200<br>-EN 1561 | Cast iron +<br>EN 1.4301(AISI 304)         | Cast iron +<br>EN 1.4401 (AISI 316) |                      |          | 1    |
| 212    | Plug                               | EN 1.4301(AISI 304)              |  | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 212-1  | Plug                               | EVM, EVML                        | EN 1.4301(AISI 304)                        |                                     | EN 1.4401 (AISI 316) |          | 2    |
|        |                                    | EVMG                             |  |                                     |                      |          | 4    |
| 219    | Counter flange                     | Zincate steel                    | EN 1.4301(AISI 304)                        | EN 1.4401 (AISI 316)                |                      |          | [1]  |
| 245    | Coupling guard                     | EN 1.4301(AISI 304)              |  |                                     |                      |          | 2    |
| 273    | Washer (plug)                      | EN 1.4301(AISI 304)              |  | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 273-1  | Washer (plug)                      | EVM, EVML                        | EN 1.4301(AISI 304)                        |                                     | EN 1.4401 (AISI 316) |          | 2    |
|        |                                    | EVMG                             |  |                                     |                      |          | 4    |
| 274-1  | C-type snap ring (mechanical seal) | EN 1.4301(AISI 304)              |  | EN 1.4401 (AISI 316)                | D.16 JIS B2804-1978  |          | 1    |
| 274-2  | C-type snap ring (coupling)        | EVM10 5, EVM 10 6                | Carbon steel TC 80                         |                                     | D35                  | UNI 7435 | [1]  |
|        |                                    | EVM10 8 to 11                    |  |                                     | D40                  |          |      |
|        |                                    | EVM10 12 to 20                   |  |                                     | D50                  |          |      |
|        |                                    | EVM10 22                         |  |                                     | D65                  |          |      |
| 274-3  | C-type snap ring (bracket)         | EVM 10 5, EVM 10 6               | Carbon steel TC 80                         |                                     | 72                   | UNI 7437 | [1]  |
|        |                                    | EVM 10 8 to 11                   |  |                                     | 90                   |          |      |
|        |                                    | EVM 10 12 to 20                  |  |                                     | 110                  |          |      |

[1] See table on page 357

SECTIONAL VIEW TABLE  
EVM(.) 18

| N°    | PART NAME                      | MATERIAL                                   |                     |                                    | DIMENSION   | STANDARD | Q.TY |
|-------|--------------------------------|--|---------------------|------------------------------------|-------------|----------|------|
|       |                                | EVMG                                       | EVM                 | EVML                               |             |          |      |
| 005-1 | Suction casing                 | EN 1.4301(AISI 304)                        |                     | EN 1.4401 (AISI 316)               |             |          | 1    |
| 005-2 | Intermediate casing            | EN 1.4301(AISI 304)                        |                     | EN 1.4401 (AISI 316)               |             |          | [1]  |
| 005-3 | Intermediate casing bearing    | EN 1.4301(AISI 304)                        |                     | EN 1.4401 (AISI 316)               |             |          | [1]  |
| 005-4 | Discharge casing               | EN 1.4301(AISI 304)                        |                     | EN 1.4401 (AISI 316)               |             |          | 1    |
| 006   | Bottom casing                  | Cast iron EN-GJL-200<br>-EN 1561           | EN 1.4301(AISI 304) | EN 1.4401 (AISI 316)               |             |          | 1    |
| 007   | Outer casing                   | EN 1.4301(AISI 304)                        |                     | EN 1.4401 (AISI 316)               |             |          | 1    |
| 021   | Impeller                       | EN 1.4301(AISI 304)                        |                     | EN 1.4401 (AISI 316)               |             |          | [1]  |
| 031   | Shaft                          | EN 1.4401 (AISI 316)                       |                     |                                    |             |          | 1    |
| 043-1 | Shaft sleeve (mechanical seal) | EN 1.4301(AISI 304)                        |                     | EN 1.4401 (AISI 316)               |             |          | 1    |
| 043-2 | Shaft sleeve (intermediate)    | EN 1.4301(AISI 304)                        |                     | EN 1.4401 (AISI 316)               |             |          | [1]  |
| 043-3 | Shaft sleeve (bearing)         | EN 1.4301(AISI 304)                        |                     | EN 1.4401 (AISI 316)               |             |          | [1]  |
| 043-5 | Shaft sleeve (last stage)      | EN 1.4301(AISI 304)                        |                     | EN 1.4401 (AISI 316)               |             |          | [1]  |
| 044-1 | Shaft sleeve bearing           | Tungsten carbide                           |                     |                                    |             |          | [1]  |
| 047   | Ring holder                    | EN 1.4301(AISI 304)                        |                     | EN 1.4401 (AISI 316)               |             |          | 1    |
| 048   | Impeller nut                   | A2-70 UNI 7323 with inox insert            |                     | A4-70 UNI 7323<br>with inox insert | M12         |          | 1    |
| 051   | Motor adapter                  | Cast iron EN-GJL-200-EN 1561               |                     |                                    |             |          | [1]  |
| 052-1 | Bearing                        | Tungsten carbide                           |                     |                                    |             |          | [1]  |
| 056   | Ball bearing                   | See table pag.357                          |                     |                                    |             |          | [1]  |
| 070-1 | Ring for bearing               | EN 1.4301(AISI 304)                        |                     |                                    |             |          | [1]  |
| 075   | O-ring (plug)                  | EPDM                                       |                     | FPM                                |             |          | 1    |
| 075-1 | O-ring (plug)                  | EVM, EVML<br>EVMG                          | EPDM                |                                    | FPM         |          | 2    |
|       |                                |  |                     |                                    |             |          | 4    |
| 107   | Liner ring                     | PTFE/EN 1.4301(AISI 304)                   |                     | PTFE/EN 1.4401 (AISI 316)          |             |          | [1]  |
| 111   | Mechanical seal                | EPDM                                       |                     | Silicon carbide/Carbon/FPM         |             |          | 1    |
| 111-3 | Mechanical seal seat           | EN 1.4301(AISI 304)                        |                     | EN 1.4401 (AISI 316)               |             |          | 1    |
| 115-1 | O-ring (outer casing)          | EPDM                                       |                     | FPM                                | 164.46x5.34 | OR 6645  | 2    |
| 115-5 | O-ring                         | EPDM                                       |                     | FPM                                | 36.1x3.53   | OR 4143  | 1    |
| 120-1 | Tie rod                        | Zincate steel 6.8 strenght class ISO 898/1 |                     |                                    |             |          | 4    |
| 120-3 | Screw                          | A2-70 UNI 7323                             |                     |                                    | M5x6        | UNI 5931 | 4    |
| 120-5 | Screw for coupling             | Zincate steel 8.8 strenght class ISO 898/1 |                     |                                    | M6x16       | UNI 5931 | [1]  |
| 120-6 | Screw for coupling             | EVM 18 2<br>EVM18 3 to8<br>EVM18 10 to 16  | Zincate steel       |                                    | M6x16       | UNI 5931 | [1]  |
|       |                                |  |                     |                                    | M8x20       | UNI 5931 |      |
|       |                                |  |                     |                                    | M10x25      | UNI 5931 |      |

[1] See table on page 357



**SECTIONAL VIEW TABLE  
EVM(.) 18**

| N°     | PART NAME                          | MATERIAL                                   |  |                                     | DIMENSIONS           | STANDARD | Q.TY |
|--------|------------------------------------|--|--|-------------------------------------|----------------------|----------|------|
|        |                                    | EVMG                                       | EVM  | EVML                                |                      |          |      |
| 120-7  | Screw (bearing)                    | Zincate steel 8.8 strenght class ISO 898/1 |  |                                     | 6x10                 | UNI 5739 | [1]  |
| 120-8  | Screw (motor adapter)              | Zincate steel 8.8 strenght class ISO 898/1 |  |                                     | M12x25               | UNI 5739 | [1]  |
| 120-13 | Screw for motor                    | EVM18 2 to 3                               | Zincate steel 8.8 strenght class ISO 898/1 |                                     | M8x20                | UNI 5739 | 4    |
|        |                                    | EVM18 4                                    |  |                                     | M8x30                | UNI 5739 |      |
|        |                                    | EVM18 5 to 8                               |  |                                     | M12x25               | UNI 5739 |      |
|        |                                    | EVM18 10 to 16                             |  |                                     | M16x65               | UNI 5739 |      |
| 128-1  | Nut for tie rod                    | Zincate steel                              |  |                                     | M12                  | UNI 5588 | 4    |
| 128-3  | Nut (motor)                        | Zincate steel                              |  |                                     |                      |          | [1]  |
| 128-5  | Nut for tie rod                    | /  | Zincate steel                              |                                     | M12                  | UNI 7474 | 4    |
| 130-2  | Screw for coupling guard           | A2-70 UNI 7323                             |  |                                     | M5x6                 | UNI 7687 | 4    |
| 130-4  | Set-screw                          | Carbon steel                               |  |                                     | M8x8                 | UNI 5929 | [1]  |
| 131-1  | Pin for shaft                      | Carbon steel                               |  |                                     |                      |          | 1    |
| 135-1  | Washer                             | Zincate steel                              |  |                                     | 13x24x2,5            | UNI 6512 | 4    |
| 135-4  | Washer (bearing)                   | Carbon steel                               |  |                                     |                      |          | [1]  |
| 137-1  | Impeller spacer                    | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 140    | Coupling                           | Other models                               | Brass OT 58 UNI 5705                       |                                     |                      |          | 1    |
|        |                                    | EVM18 10 to 16                             | CF 35 SMn Pb10                             |                                     |                      |          |      |
| 150    | Spacer                             | Carbon steel                               |  |                                     |                      |          | [1]  |
| 160    | Base                               | /  | Cast iron EN-GJL-200-EN 1561               |                                     |                      |          | 1    |
| 162    | Motor bracket                      | Cast iron EN-GJL-200<br>-EN 1561           | Cast iron +<br>EN 1.4301(AISI 304)         | Cast iron +<br>EN 1.4401 (AISI 316) |                      |          | 1    |
|        |                                    |  |  |                                     |                      |          |      |
| 212    | Plug                               | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 212-1  | Plug                               | EVM, EVML                                  | EN 1.4301(AISI 304)                        |                                     | EN 1.4401 (AISI 316) |          | 2    |
|        |                                    | EVMG                                       |  |                                     |                      |          | 4    |
| 245    | Coupling guard                     | EN 1.4301(AISI 304)                        |  |                                     |                      |          | 2    |
| 273    | Washer (plug)                      | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 273-1  | Washer (plug)                      | EVM, EVML                                  | EN 1.4301(AISI 304)                        |                                     | EN 1.4401 (AISI 316) |          | 2    |
|        |                                    | EVMG                                       |  |                                     |                      |          | 4    |
| 274-1  | C-type snap ring (mechanical seal) | EN 1.4301(AISI 304)                        |  | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 274-2  | C-type snap ring<br>(coupling)     | EVM18 4                                    | Carbon steel TC 80                         |                                     | D 40                 | UNI 7435 | [1]  |
|        |                                    | EVM18 5-8                                  |  |                                     | D 50                 |          |      |
|        |                                    | EVM18 10-16                                |  |                                     | D 65                 |          |      |
| 274-3  | C-type snap ring<br>(bracket)      | EVM18 4                                    | Carbon steel TC 80                         |                                     | D 90                 | UNI 7437 | [1]  |
|        |                                    | EVM18 5 to 8                               |  |                                     | D 110                |          |      |

[1] See table on page 357

**SECTIONAL VIEW TABLE  
EVM(.) 32**

| N°    | PART NAME                      | MATERIAL                                   |  |                                     | DIMENSIONS                         | STANDARD      | Q.TY     |     |
|-------|--------------------------------|--|--|-------------------------------------|------------------------------------|---------------|----------|-----|
|       |                                | EVMG                                       | EVM  | EVML                                |                                    |               |          |     |
| 005-1 | Suction casing                 | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | 1        |     |
| 005-2 | Intermediate Casing            | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | [1]      |     |
| 005-3 | Intermediate casing bearing    | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | [1]      |     |
| 005-4 | Discharge casing               | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | 1        |     |
| 006   | Bottom casing                  | Cast Iron EN GJL-250<br>-EN1561            | EN 1.4308 (ASTM CF8)                       | EN 1.4408 (ASTM CF8M)               |                                    |               | 1        |     |
| 007   | Outer casing                   | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | 1        |     |
| 011   | Casing cover                   | Cast Iron EN GJL-250<br>-EN1561            | Cast iron+<br>EN 1.4301 (AISI 304)         | Cast iron +<br>EN 1.4401 (AISI 316) |                                    |               | [1]      |     |
| 021   | Impeller                       | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | [1]      |     |
| 021-1 | Reduced impeller               | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | [1]      |     |
| 031   | Shaft                          | EN 1.4401 (AISI 316)                       |  |                                     |                                    |               | 1        |     |
| 039-1 | Key                            | Carbon Steel                               |  |                                     | 12x8x90                            | UNI 6604      | [1]      |     |
| 043-1 | Shaft sleeve (mechanical seal) | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | 1        |     |
| 043-2 | Shaft sleeve (intermediate)    | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | [1]      |     |
| 043-3 | Shaft sleeve (bearing)         | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | [1]      |     |
| 043-4 | Shaft sleeve (adjustment)      | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | [1]      |     |
| 043-5 | Shaft sleeve (last stage)      | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | 1        |     |
| 044-1 | Shaft sleeve bearing           | Tungsten carbide                           |  |                                     |                                    |               | [1]      |     |
| 045   | Flange holder                  | EN 1.402 (AISI 420)                        |  |                                     |                                    |               | 4        |     |
| 047   | Ring Holder                    | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | 1        |     |
| 048   | Impeller nut                   | A2-70 UNI 7323<br>with inox insert         |  |                                     | A4-70 UNI 7323<br>with inox insert | M16           | 1        |     |
| 051   | Motor adapter                  | Cast iron EN-GJL-200-EN 1561               |  |                                     |                                    |               | [1]      |     |
| 052-1 | Bearing                        | Tungsten carbide                           |  |                                     |                                    |               | [1]      |     |
| 056   | Ball bearing                   | See table page 361                         |  |                                     |                                    |               | [1]      |     |
| 070-1 | Ring for bearing               | EN 1.4301 (AISI 304)                       |  |                                     |                                    |               | [1]      |     |
| 075   | O-Ring (plug)                  | EPDM                                       |  |                                     | FPM                                |               | 1        |     |
| 075-1 | O-Ring (plug)                  | EPDM                                       |  |                                     | FPM                                |               | 4        |     |
| 107   | Liner ring                     | PTFE / EN 1.4301 (AISI 304)                |  |                                     | PTFE / EN 1.4401 (AISI 316)        |               | [1]      |     |
| 111-1 | Mechanical seal                | Silicon carbide / Carbon / FPM             |  |                                     |                                    |               | 1        |     |
| 111-2 | Mechanical seal cartridge      | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | 1        |     |
| 111-3 | Mechanical seal seat           | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | 1        |     |
| 111-4 | Seal holder                    | Brass OT 58 UNI 5705                       |  |                                     | EN 1.4401 (AISI 316)               |               | 1        |     |
| 111-5 | Adjusting ring                 | EN 1.4301 (AISI 304)                       |  |                                     | EN 1.4401 (AISI 316)               |               | [1]      |     |
| 115-1 | O-Ring (outer casing)          | EPDM                                       |  |                                     | FPM                                | D.208.91x5.34 | 2        |     |
| 115-4 | O-Ring (cartridge sleeve)      | EPDM                                       |  |                                     | FPM                                | D. 24.99x3,59 | 1        |     |
| 115-5 | O-Ring (seal cover)            | EPDM                                       |  |                                     | FPM                                | D.44,04x3,53  | 1        |     |
| 120-1 | Tie-rod                        | Zincate steel 6.8 strenght class ISO 898/1 |  |                                     |                                    |               | 4        |     |
| 120-3 | Screw                          | A2-70 UNI 7323                             |  |                                     | M5xX10                             | UNI 5931      | 4        |     |
| 120-4 | Screw                          | Zincate steel 8.8 strenght class ISO 898/1 |  |                                     | M10x25                             | UNI 5739      | [1]      |     |
| 120-5 | Screw for coupling             | EVM32 1                                    | Zincate steel 8.8 strenght class ISO 898/1 |                                     |                                    | M6x16         | UNI 5931 | [1] |
|       |                                | EVM32 2 and 2-2                            |  |                                     |                                    | M8x20         | UNI 5931 |     |
|       |                                | EVM32 5 to 14                              |  |                                     |                                    | M10x30        | UNI 5739 |     |

[1] See table on page 358

**SECTIONAL VIEW TABLE  
EVM(.) 32**

| N°     | PART NAME                          | MATERIAL                     |  |      | DIMENSIONS    | STANDARD | Q.TY |
|--------|------------------------------------|------------------------------|--|------|---------------|----------|------|
|        |                                    | EVMG                         | EVM  | EVML |               |          |      |
| 120-6  | Screw for coupling                 | EVM32 1                      | Zincate steel 8.8 strenght class ISO 898/1 |      | M6x16         | UNI 5931 | 2    |
|        |                                    | EVM32 2 to 4-3               |  |      | M8x20         | UNI 5931 |      |
|        |                                    | EVM32 5 to 14                |  |      | M12x30        | UNI 5931 |      |
| 120-7  | Screw                              |                              | Zincate steel 8.8 strenght class ISO 898/1 |      | M6x10         | UNI 5739 | [1]  |
| 120-8  | Screw                              | EVM32 3 to 4                 | Zincate steel 8.8 strenght class ISO 898/1 |      | M12x25        | UNI 5739 | [1]  |
|        |                                    | EVM32 5 to 14                |  |      | M10x30        | UNI 5739 |      |
| 120-10 | Screw                              |                              | Zincate steel 8.8 strenght class ISO 898/1 |      | M12x40        | UNI 5739 | 4    |
| 120-13 | Screw for motor                    | EVM32 1 to 2                 | Zincate steel 8.8 strenght class ISO 898/1 |      | M8x20         | UNI 5739 | 4    |
|        |                                    | EVM32 3 to 4                 |  |      | M12x30        | UNI 5739 |      |
|        |                                    | EVM32 5 to 14                |  |      | M16x65        | UNI 5739 |      |
| 128-1  | Nut for tie rod                    |                              | Zincate steel                              |      | M16           | UNI 5588 | 4    |
| 128-3  | Nut                                |                              | Zincate steel                              |      | M16           | UNI 5588 | [1]  |
| 129    | Lock nut                           |                              | Carbon Steel                               |      |               |          | [1]  |
| 130-1  | Set screw                          |                              | A2-70 UNI 7323                             |      | M6x8          | UNI 5923 | 3    |
| 130-2  | Screw for coupling guard           |                              | A2-70 UNI 7323                             |      | M5x6          | UNI 7687 | 4    |
| 130-3  | Set screw                          |                              | A2-70 UNI 7323                             |      | M6x6          | UNI 5923 | 1    |
| 130-4  | Set screw                          |                              | Carbon steel                               |      | M10x10        | UNI 5923 | 1    |
| 131-1  | Pin for shaft                      |                              | Carbon Steel                               |      |               |          | 1    |
| 135-1  | Washer                             |                              | Zincate steel                              |      | 17x30x3       | UNI 6592 | 4    |
| 135-3  | Washer                             |                              | Zincate steel                              |      | 10.5x17.5x2.2 | UNI 1751 | [1]  |
| 135-4  | Washer                             |                              | Plated carbon steel                        |      | 06:04         | UNI 1751 | [1]  |
| 136    | Washer                             |                              | Carbon steel                               |      |               |          | [1]  |
| 137-1  | Impeller spacer                    | EN 1.4301 (AISI 304)         | EN 1.4401 (AISI 316)                       |      |               |          | 1    |
| 140    | Coupling                           | Brass OT 58 UNI 5705         |  |      |               |          | [1]  |
| 140-1  | Motor coupling                     | Carbon steel                 |  |      |               |          | [1]  |
| 140-2  | Coupling (motor side)              | Carbon steel                 |  |      |               |          | [1]  |
| 150    | Spacer                             | carbon steel                 |  |      |               |          | [1]  |
| 160    | Base                               | Cast iron EN-GJL-200-EN 1561 |  |      |               |          | 1    |
| 162    | Motor bracket                      | Cast iron EN-GJL-200-EN 1561 |  |      |               |          | 1    |
| 212    | Plug                               | EN 1.4301 (AISI 304)         | EN 1.4401 (AISI 316)                       |      |               |          | 1    |
| 212-1  | Plug                               | EN 1.4301 (AISI 304)         | EN 1.4401 (AISI 316)                       |      |               |          | 4    |
| 245    | Coupling guard                     | EN 1.4301 (AISI 304)         |  |      |               |          | 2    |
| 273    | Plug Washer                        | EN 1.4301 (AISI 304)         | EN 1.4401 (AISI 316)                       |      |               |          | 1    |
| 273-1  | Plug Washer                        | EN 1.4301 (AISI 304)         | EN 1.4401 (AISI 316)                       |      |               |          | 4    |
| 274-1  | C-type snap ring (mechanical seal) | EN 1.4301 (AISI 304)         | EN 1.4401 (AISI 316)                       |      | D.26          | UNI 7435 | 1    |
| 274-2  | C-type snap ring (coupling)        | EVM32 3 to 4                 | Carbon Steel TC 80                         |      | D.50          | UNI 7435 | [1]  |
|        |                                    | EVM32 5 to 10                |  |      | D.65          | UNI 7435 |      |
|        |                                    | EVM32 11 to 12               |  |      | D.75          | UNI 7535 |      |
| 274-3  | C-type snap ring (bracket)         |                              | Carbon Steel TC 80                         |      | D.110         | UNI 7437 | [1]  |
| 613    | Flange                             |                              | Carbon steel                               |      |               |          | 2    |

[1] See table on page 358

SECTIONAL VIEW TABLE  
EVM(.) 45

| N°    | PART NAME                       | MATERIAL                                   |                                  |                                  | DIMENSIONS    | STANDARD | Q.TY |
|-------|---------------------------------|--|----------------------------------|----------------------------------|---------------|----------|------|
|       |                                 | EVMG                                       | EVM                              | EVML                             |               |          |      |
| 005-2 | Intermediate casing             | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | [1]  |
| 005-4 | Discharge casing                | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | 1    |
| 006   | Bottom casing                   | Cast iron EN GJL 250 EN 1561               | EN. 1.4308 (ASTM CF8)            | EN. 1.4408 (ASTM CF8M)           |               |          | 1    |
| 007   | Outer casing                    | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | 1    |
| 011   | Casing cover                    | Cast iron EN GJL 250 EN 1561               | Cast iron + EN 1.4301 (AISI 304) | Cast iron + EN 1.4401 (AISI 316) |               |          | [1]  |
| 012   | Suction cover                   | EN. 1.1301 (AISI304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | 1    |
| 021   | Impeller                        | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | [1]  |
| 021-1 | Reduced impeller                | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | [1]  |
| 031   | Shaft                           | EN 1.4401 (AISI 316)                       |                                  |                                  |               |          | 1    |
| 039-1 | Key                             | Carbon steel                               |                                  |                                  | 12x8x90       | UNI 6604 | [1]  |
| 043-1 | Shaft sleeve (mechanical seal)  | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | 1    |
| 043-2 | Shaft sleeve (intermediate)     | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | [1]  |
| 043-3 | Shaft sleeve (bearing)          | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | [1]  |
| 043-4 | Shaft sleeve (adjustment)       | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | [1]  |
| 043-5 | Shaft sleeve (last stage)       | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | 1    |
| 043-6 | Shaft sleeve (adjustment)       | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | 1    |
| 043-7 | Shaft sleeve                    | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | 1    |
| 043-8 | Shaft sleeve (discharge-lower)  | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | 1    |
| 044-1 | Shaft sleeve bearing            | Tungsten carbide                           |                                  |                                  |               |          | [1]  |
| 044-2 | Bearing sleeve (bottom bearing) | Tungsten carbide                           |                                  |                                  |               |          | 1    |
| 045   | Flange holder                   | EN 1.402 (AISI 420)                        |                                  |                                  |               |          | 4    |
| 047   | Ring holder                     | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | 1    |
| 048   | Impeller nut                    | A2-70 UNI 7323 with inox insert            |                                  | A4-70 UNI 7323 with inox insert  | M16           |          | 1    |
| 051   | Motor adapter                   | Cast iron EN-GJL-200-EN 1561               |                                  |                                  |               |          | [1]  |
| 052-1 | Bearing                         | Tungsten carbide                           |                                  |                                  |               |          | [1]  |
| 052-2 | Bearing                         | Tungsten carbide                           |                                  |                                  |               |          | 1    |
| 053   | Bush holder                     | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | [1]  |
| 056   | Ball bearing                    | see table page 361                         |                                  |                                  |               |          | [1]  |
| 070-1 | Ring for bearing                | EN 1.4301 (AISI 304)                       |                                  |                                  |               |          | [1]  |
| 070-2 | Ring for bearing                | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | 1    |
| 075   | O-Ring (plug)                   | EPDM                                       |                                  | FPM                              |               |          | 1    |
| 075-1 | O-Ring (plug)                   | EPDM                                       |                                  | FPM                              |               |          | 4    |
| 081   | Bush                            | PTFE                                       |                                  |                                  |               |          | [1]  |
| 107   | Liner ring                      | PTFE /EN 1.4401 (AISI316)                  |                                  |                                  |               |          | [1]  |
| 111-1 | Mechanical seal                 | Silicon carbide /Carbon/FPM                |                                  |                                  |               |          | 1    |
| 111-2 | Mechanical seal cartridge       | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | 1    |
| 111-3 | Mechanical seal seat            | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | 1    |
| 111-4 | Seal holder                     | Brass OT 58 UNI 5705                       |                                  | EN 1.4401 (AISI 316)             |               |          | 1    |
| 111-5 | Adjusting ring                  | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | 1    |
| 115-1 | O-Ring (outer casing)           | EPDM                                       |                                  | FPM                              | D.240.66x5.34 |          | 2    |
| 115-4 | O-Ring (cartridge sleeve)       | EPDM                                       |                                  | FPM                              | D.24.99x3.53  |          | 1    |
| 115-5 | O-Ring (seal cover)             | EPDM                                       |                                  | FPM                              | D.44.04x3.53  |          | 1    |
| 120-1 | Tie Rod                         | Zincate steel 6.8 strenght class ISO 898/1 |                                  |                                  |               |          | 4    |
| 120-2 | Tie Rod                         | EN 1.4301 (AISI 304)                       |                                  | EN 1.4401 (AISI 316)             |               |          | 2    |
| 120-3 | Screw                           | A2-70 UNI 7323                             |                                  |                                  | M5x10         | UNI 5931 | 4    |
| 120-4 | Screw                           | Zincate steel 8.8 strenght class ISO 898/1 |                                  |                                  | M10x25        | UNI 5739 | [1]  |

[1] See table on page 359

SECTIONAL VIEW TABLE  
EVM(.) 45

| N°     | PART NAME                | MATERIAL               |  |                      | DIMENSIONS    | STANDARD | Q.TY |
|--------|--------------------------|------------------------|--|----------------------|---------------|----------|------|
|        |                          | EVMG                   | EVM  | EVML                 |               |          |      |
| 120-5  | Screw for coupling       | EVM 45 1-0 and 1-1     | Zincate steel 8.8 strenght class ISO 898/1 |                      | M8x20         | UNI 5931 | [1]  |
|        |                          | EVM 45 3 to 10         |  |                      | M10x30        | UNI 5739 |      |
| 120-6  | Screw for coupling       | EVM 45 1 to 2          | Zincate steel 8.8 strenght class ISO 898/1 |                      | M8x20         | UNI 5931 | 2    |
|        |                          | EVM 45 3 to 10         |  |                      | M12x30        | UNI 5931 |      |
| 120-7  | Screw                    |                        | Zincate steel 8.8 strenght class ISO 898/1 |                      | M6X10         | UNI 5739 | [1]  |
| 120-8  | Screw                    | EVM 45 2-0 and 2-2     | Zincate steel 8.8 strenght class ISO 898/1 |                      | M12x25        | UNI 5739 | [1]  |
|        |                          | EVM 45 3 to 10         |  |                      | M10x30        | UNI 5739 |      |
| 120-9  | Screw                    | EVML                   | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) | M5x8          | UNI 5737 | 4    |
|        |                          | EVM, EVMG              |  |                      |               | UNI 5739 |      |
| 120-12 | Screw                    |                        | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) | M6x20         | UNI 5931 | 1    |
| 120-13 | Screw                    | EVM45 1-0, 1-1         | Zincate steel 8.8 strenght class ISO 898/1 |                      | M8x20         | UNI 5739 | 4    |
|        |                          | EVM45 2-0, 2-2         |  |                      | M12x30        | UNI 5739 |      |
|        |                          | EVML45 9-0, 10-0, 10-2 |  |                      | M6x10         | UNI 5739 |      |
|        |                          | EVM45 9-0, 10-0, 10-2  |  |                      | M16x55        | UNI 5737 |      |
|        |                          | EVM45 3-0 to 9-2       |  |                      | M16x65        | UNI 5739 |      |
| 128-1  | Nut for tie rod          |                        | Zincate steel                              |                      | M16           | UNI 5588 | 4    |
| 128-2  | Nut                      |                        | Carbon steel                               | EN 1.4401 (AISI 316) | M5            | UNI 5588 | 4    |
| 128-3  | Nut                      |                        | Zincate steel                              |                      | M16           | UNI 5588 | [1]  |
| 129    | Lock nut                 |                        | Carbon steel                               |                      | M75x2         |          | [1]  |
| 130-1  | Set screw                |                        | A2- 70 UNI 7323                            |                      | M6x8          | UNI 5923 | 3    |
| 130-2  | Screw for coupling guard |                        | A2-70 UNI 7323                             |                      | M5x6          | UNI 7687 | 4    |
| 130-3  | Set screw                |                        | A2- 70 UNI 7323                            |                      | M6x6          | UNI 5923 | 1    |
| 130-4  | Set screw                |                        | Carbon steel                               |                      | M10x10        | UNI 5923 | 1    |
| 131-1  | Pin for shaft            |                        | Carbon steel                               |                      |               |          | 1    |
| 131-2  | Elastic pin              | -                      | Zincate steel                              |                      | 6x25          | UNI 6873 | 1    |
| 135-1  | Washer                   |                        | Zincate steel                              |                      | 17x30x3       | UNI 6592 | 4    |
| 135-3  | Washer                   |                        | Zincate steel                              |                      | 10.5x17.5x2.2 | UNI 1751 | [1]  |
| 135-4  | Washer                   |                        | Plated carbon steel                        |                      | 6,4           | UNI 1751 | [1]  |
| 135-5  | Washer                   |                        | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) |               |          | 1    |
| 136    | Bearing washer           |                        | Carbon steel                               |                      |               |          | [1]  |
| 136-1  | Stopper ring             |                        | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) |               |          | 1    |
| 137-1  | Impeller spacer          |                        | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) |               |          | 1    |
| 137-2  | Shaft spacer             |                        | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) |               |          | 1    |
| 140    | Coupling                 |                        | Brass OT 58 UNI 5705                       |                      |               |          | [1]  |
| 140-1  | Motor coupling           |                        | Carbon steel                               |                      |               |          | [1]  |
| 140-2  | Coupling (pump side)     |                        | Carbon steel                               |                      |               |          | [1]  |
| 150    | Spacer                   |                        | Carbon steel                               |                      |               |          | [1]  |
| 160    | Base                     | -                      | Cast iron EN-GJL-200 EN1561                |                      |               |          | 1    |
| 162    | Mator bracket            |                        | Cast iron EN-GJL-200 EN1561                |                      |               |          | 1    |
| 212    | Plug                     |                        | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) |               |          | 1    |
| 212-1  | Plug                     |                        | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) |               |          | 4    |
| 245    | Coupling guard           |                        | EN 1.4301 (AISI 304)                       |                      |               |          | 2    |
| 273    | Plug washer              |                        | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) |               |          | 1    |
| 273-1  | Plug washer              |                        | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) |               |          | 4    |
| 274-1  | C-type snap ring         |                        | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) | D.26          | UNI 7435 | 1    |
| 274-2  | C-Typr snap ring         | EVM45 2-0, 2-2         | Carbon steel TC80                          |                      | D.50          | UNI 7435 | [1]  |
|        |                          | EVM45 3 to 5           |  |                      | D.65          | UNI 7435 |      |
|        |                          | EVM45 6-0 and 6-2      |  |                      | D.75          | UNI 7535 |      |
| 274-3  | C-Typr snap ring         |                        | Carbon steel TC80                          |                      | D.110         | UNI 7437 | [1]  |
| 613    | Flange                   |                        | Carbon steel                               |                      |               |          | 2    |

[1] See table on page 359

SECTIONAL VIEW TABLE  
EVM(.) 64

| N°    | PART NAME                      | MATERIAL                                   |                                     |                                     | DIMENSIONS           | STANDARD | Q.TY |
|-------|--------------------------------|--|-------------------------------------|-------------------------------------|----------------------|----------|------|
|       |                                | EVMG                                       | EVM                                 | EVML                                |                      |          |      |
| 005-2 | Intermediate casing            | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | [1]  |
| 005-4 | Discharge casing               | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 006   | Bottom casing                  | Cast iron EN GJL-250<br>- EN 1561          | EN 1.4301 (AISI 304)                | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 007   | Outer casing                   | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 011   | Casing cover                   | Cast iron EN GJL-250<br>- EN 1561          | Cast iron +<br>EN 1.4301 (AISI 304) | Cast iron +<br>EN 1.4401 (AISI 316) |                      |          | [1]  |
| 012   | Suction cover                  | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 021   | Impeller                       | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | [1]  |
| 021-1 | Reduced impeller               | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | [1]  |
| 031   | Shaft                          | EN 1.4401 (AISI 316)                       |                                     |                                     |                      |          | 1    |
| 039-1 | Key                            | Carbon steel                               |                                     |                                     | 12x8x90              | UNI 6604 | [1]  |
| 043-1 | Shaft sleeve (mechanical seal) | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 043-2 | Shaft sleeve (intermediate)    | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | [1]  |
| 043-3 | Shaft sleeve (bearing)         | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | [1]  |
| 043-4 | Shaft sleeve (adjustment)      | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | [1]  |
| 043-5 | Shaft sleeve (last stage)      | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 043-6 | Shaft sleeve (adjustment)      | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 043-7 | Shaft sleeve (bottom bearing)  | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 043-8 | Shaft sleeve (discharge/lower) | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 044-1 | Shaft sleeve bearing           | Tungsten carbide                           |                                     |                                     |                      |          | [1]  |
| 044-2 | Bearing sleeve                 | Tungsten carbide                           |                                     |                                     |                      |          | 1    |
| 045   | Flange holder                  | EN 1.402 (AISI 420)                        |                                     |                                     |                      |          | 4    |
| 047   | Ring holder                    | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 048   | Impeller nut                   | A2-70 UNI 7323<br>with inox insert         |                                     | A4-70 UNI 7323<br>with inox insert  | M16                  |          | 1    |
| 051   | Motor adapter                  | Cast iron EN-GJL-200-EN 1561               |                                     |                                     |                      |          | [1]  |
| 052-1 | Bearing                        | Tungsten carbide                           |                                     |                                     |                      |          | [1]  |
| 052-2 | Bearing                        | Tungsten carbide                           |                                     |                                     |                      |          | 1    |
| 053   | Bush holder                    | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | [1]  |
| 056   | Ball bearing                   | See table page 361                         |                                     |                                     |                      |          | [1]  |
| 070-1 | Ring for bearing               | EN 1.4301 (AISI 304)                       |                                     |                                     |                      |          | [1]  |
| 070-2 | Ring for bearing               | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 075   | O-Ring (plug)                  | EPDM                                       |                                     | FPM                                 |                      |          | 1    |
| 075-1 | O-Ring (plug)                  | EPDM                                       |                                     | FPM                                 |                      |          | 4    |
| 081   | Bush                           | PTFE                                       |                                     |                                     |                      |          | [1]  |
| 107   | Liner ring                     | PTFE / EN 1.4401 (AISI 316)                |                                     |                                     |                      |          | [1]  |
| 111-1 | Mechanical seal                | Silicon carbide / Carbon /FPM              |                                     |                                     |                      |          | 1    |
| 111-2 | Mechanical seal cartridge      | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 111-3 | Mechanical seal seat           | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 111-4 | Seal holder                    | Brass OT 58 UNI 5705                       |                                     |                                     | EN 1.4401 (AISI 316) |          | 1    |
| 111-5 | Adjusting ring                 | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 115-1 | O-Ring (outer casing)          | EPDM                                       |                                     | FPM                                 | D.240.66x5.34        |          | 2    |
| 115-4 | O-Ring (cartridge sleeve)      | EPDM                                       |                                     | FPM                                 | D.24.99x3.53         |          | 1    |
| 115-5 | O-Ring (seal cover)            | EPDM                                       |                                     | FPM                                 | D.44.04x3.53         |          | 1    |
| 120-1 | Tie-rod                        | Zincate steel 6.8 Strenght class ISO 898/1 |                                     |                                     |                      |          | 4    |
| 120-2 | Tie-rod                        | EN 1.4301 (AISI 304)                       |                                     | EN 1.4401 (AISI 316)                |                      |          | 1    |
| 120-3 | Screw (mechanical seal)        | A2-70 UNI 7323                             |                                     |                                     | M5x10                | UNI 5931 | 4    |
| 120-4 | Screw (casing cover)           | Zincate steel 8.8 Strenght class ISO 898/1 |                                     |                                     | M10x25               | UNI 5739 | [1]  |

[1] See table on page 360

SECTIONAL VIEW TABLE  
EVM(.) 64

| N°     | PART NAME                | MATERIAL             |  |                      | DIMENSIONS    | STANDARD | Q.TY |
|--------|--------------------------|----------------------|--|----------------------|---------------|----------|------|
|        |                          | EVMG                 | EVM  | EVML                 |               |          |      |
| 120-5  | Screw for coupling       | EVM 64 1-1           | Zincate steel 8.8 Strenght class ISO 898/1 |                      | M8x20         | UNI 5931 | [1]  |
|        |                          | EVM 64 2 and higher  |  |                      | M10x30        | UNI 5739 |      |
| 120-6  | Screw for coupling       | EVM 64 1-0, 1-1, 2-2 | Zincate steel 8.8 Strenght class ISO 898/1 |                      | M8x20         | UNI 5931 | 2    |
|        |                          | EVM 64 2 and higher  |  |                      | M12x30        | UNI 5931 |      |
| 120-7  | Screw                    |                      | Zincate steel                              |                      | M6x10         | UNI 5739 | [1]  |
| 120-8  | Screw                    | EVM 64 1-0, 2-2      | Zincate steel 8.8 Strenght class ISO 898/1 |                      | M6x10         | UNI 5739 | [1]  |
|        |                          |                      |  |                      | M10x30        | UNI 5739 |      |
| 120-9  | Screw                    | EVML                 | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) | M5x8          | UNI 5737 | 4    |
|        |                          | EVM, EVMG            |  |                      | M5x8          | UNI 5739 |      |
| 120-12 | Screw                    |                      | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) | M6x20         | UNI 5931 | 1    |
| 120-13 | Screw                    | EVM 64 1-1           | Zincate steel 8.8 Strenght class ISO 898/1 |                      | M8x20         | UNI 5739 | 4    |
|        |                          | EVM 64 1-0, 2-2      |  |                      | M12x30        | UNI 5739 |      |
|        |                          | EVM 64 6 to 7        |  |                      | M16x55        | UNI 5737 |      |
|        |                          | EVM 64 2 to 5        |  |                      | M16x65        | UNI 5739 |      |
| 128-1  | Nut for tie rod          |                      | Zincate steel                              |                      | M16           | UNI 5588 | 4    |
| 128-2  | Nut                      |                      | Carbon steel                               | EN 1.4401 (AISI 316) | M5            | UNI 5588 | 4    |
| 128-3  | Nut                      |                      | Zincate steel                              |                      | M16           | UNI 5588 | [1]  |
| 129    | Lock nut                 |                      | Carbon steel                               |                      |               |          | [1]  |
| 130-1  | Set screw                |                      | A2-70 UNI 7323                             |                      | M6x8          | UNI 5923 | 3    |
| 130-2  | Screw for coupling guard |                      | A2-70 UNI 7323                             |                      | M5x6          | UNI 7687 | 4    |
| 130-3  | Set screw                |                      | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) | M6X6          | UNI 5923 | 1    |
| 130-4  | Set screw                |                      | Zincate steel                              |                      | M10x10        | UNI 5923 | 1    |
| 131-1  | Pin for shaft            |                      | Carbon steel                               |                      |               |          | 1    |
| 131-2  | Elastic pin              | -                    | Zincate steel                              |                      | 6x25          | UNI 6873 | 1    |
| 135-1  | Washer                   |                      | Zincate steel                              |                      | 17x30x3       | UNI 6592 | 4    |
| 135-3  | Washer                   |                      | Zincate steel                              |                      | 10.5x17.5x2.2 | UNI 1751 | [1]  |
| 135-4  | Washer                   |                      | Plated carbon steel                        |                      | 6.4           | UNI 1751 | [1]  |
| 135-5  | Washer                   |                      | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) | D.6           |          | 1    |
| 136    | Bearing washer           |                      | Carbon steel                               |                      |               |          | [1]  |
| 136-1  | Stopper ring             |                      | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) |               |          | 1    |
| 137-1  | Impeller spacer          |                      | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) |               |          | 1    |
| 137-2  | Shaft spacer             |                      | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) |               |          | 1    |
| 140    | Coupling                 |                      | Brass OT 58 UNI 5705                       |                      |               |          | [1]  |
| 140-1  | Motor coupling           |                      | Carbon steel                               |                      |               |          | [1]  |
| 140-2  | Coupling (pump side)     |                      | Carbon steel                               |                      |               |          | [1]  |
| 150    | Spacer                   |                      | Carbon steel                               |                      |               |          | [1]  |
| 160    | Base                     | -                    | Cast iron EN-GJL-200 EN 1561               |                      |               |          | 1    |
| 162    | Motor bracket            |                      | Cast iron EN-GJL-200-EN 1561               |                      |               |          | 1    |
| 212    | Plug                     |                      | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) |               |          | 1    |
| 212-1  | Plug                     |                      | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) |               |          | 4    |
| 245    | Coupling guard           |                      | EN 1.4301 (AISI 304)                       |                      |               |          | 2    |
| 273    | Plug washer              |                      | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) |               |          | 1    |
| 273-1  | Plug washer              |                      | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) |               |          | 4    |
| 274-1  | C-Type snap ring         |                      | EN 1.4301 (AISI 304)                       | EN 1.4401 (AISI 316) | D.26          | UNI 7435 | 1    |
| 274-2  | C-Type snap ring         | EVM 1-0, 2-2         | Carbon steel TC80                          |                      | D.50          | UNI 7435 | [1]  |
|        |                          | EVM64 2 to 4-3       |  |                      | D.65          | UNI 7435 |      |
|        |                          | EVM64 4-0, 4-1       |  |                      | D.75          | UNI 7535 |      |
| 274-3  | C-Type snap ring         |                      | Carbon steel TC80                          |                      | D.110         | UNI 7437 | [1]  |
| 613    | Flange                   |                      | Carbon steel                               |                      |               |          | 2    |

[1] See table on page 360

QUANTITY FOR MODEL  
EVM(.) 3-5

| Pump Type<br>EVM(.) | Quantity for model |       |     |       |       |       |       |       |     |     |       |     |                 |     |       |     |       |       |       |        |       |       |       |     |     |       |       |
|---------------------|--------------------|-------|-----|-------|-------|-------|-------|-------|-----|-----|-------|-----|-----------------|-----|-------|-----|-------|-------|-------|--------|-------|-------|-------|-----|-----|-------|-------|
|                     | 005-2              | 005-3 | 021 | 043-2 | 043-3 | 043-5 | 043-6 | 044-1 | 046 | 051 | 052-1 | 056 | Bearing<br>type | 107 | 115-3 | 117 | 120-5 | 120-6 | 120-8 | 120-11 | 128-6 | 130-4 | 135-6 | 150 | 219 | 274-2 | 274-3 |
| 3 2N5/0.37          | /                  | 1     | 2   | /     | 1     | /     | /     | 1     | 1   | /   | 1     | /   | /               | 2   | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 3 3N5/0.37          | 1                  | 1     | 3   | 1     | 1     | /     | /     | 1     | 1   | /   | 1     | /   | /               | 3   | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 3 4N5/0.55          | 2                  | 1     | 4   | 2     | 1     | /     | /     | 1     | 1   | /   | 1     | /   | /               | 4   | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 3 5N5/0.55          | 3                  | 1     | 5   | 3     | 1     | /     | /     | 1     | 1   | /   | 1     | /   | /               | 5   | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 3 6N5/0.75          | 4                  | 1     | 6   | 4     | 1     | /     | /     | 1     | 1   | /   | 1     | /   | /               | 6   | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 3 7N5/0.75          | 5                  | 1     | 7   | 5     | 1     | /     | /     | 1     | 1   | /   | 1     | /   | /               | 7   | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 3 9N5/1.1           | 7                  | 1     | 9   | 7     | 1     | /     | /     | 1     | 1   | /   | 1     | /   | /               | 9   | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 3 11N5/1.1          | 9                  | 1     | 11  | 9     | 1     | /     | /     | 1     | 1   | /   | 1     | /   | /               | 11  | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 3 13N5/1.5          | 10                 | 2     | 13  | 10    | 2     | /     | /     | 2     | 1   | /   | 2     | /   | /               | 13  | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 3 15N5/1.5          | 12                 | 2     | 15  | 12    | 2     | /     | /     | 2     | 1   | /   | 2     | /   | /               | 15  | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 3 18F5/2.2          | 15                 | 2     | 18  | 15    | 2     | /     | /     | 2     | 1   | 1   | 2     | 1   | 6207 ZZ         | 18  | /     | /   | /     | 2     | /     | /      | /     | 1     | /     | 1   | /   | 1     | 1     |
| 3 22F5/2.2          | 19                 | 2     | 22  | 19    | 2     | /     | /     | 2     | 1   | 1   | 2     | 1   | 6207 ZZ         | 22  | /     | /   | /     | 2     | /     | /      | /     | 1     | /     | 1   | /   | 1     | 1     |
| 3 26F5/3.0          | 23                 | 2     | 26  | 23    | 2     | /     | /     | 2     | 1   | 1   | 2     | 1   | 6207 ZZ         | 26  | /     | /   | /     | 2     | /     | /      | /     | 1     | /     | 1   | /   | 1     | 1     |
| 5 2N5/0.37          | /                  | 1     | 2   | /     | 1     | 1     | 1     | 1     | 1   | /   | 1     | /   | /               | 2   | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 5 3N5/0.55          | 1                  | 1     | 3   | 1     | 1     | 1     | 1     | 1     | 1   | /   | 1     | /   | /               | 3   | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 5 4N5/0.75          | 2                  | 1     | 4   | 2     | 1     | 1     | 1     | 1     | 1   | /   | 1     | /   | /               | 4   | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 5 5N5/1.1           | 3                  | 1     | 5   | 3     | 1     | 1     | 1     | 1     | 1   | /   | 1     | /   | /               | 5   | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 5 6N5/1.1           | 4                  | 1     | 6   | 4     | 1     | 1     | 1     | 1     | 1   | /   | 1     | /   | /               | 6   | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 5 7N5/1.5           | 5                  | 1     | 7   | 5     | 1     | 1     | 1     | 1     | 1   | /   | 1     | /   | /               | 7   | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 5 8N5/1.5           | 6                  | 1     | 8   | 6     | 1     | 1     | 1     | 1     | 1   | /   | 1     | /   | /               | 8   | 2     | 2   | 4     | /     | /     | 4      | 4     | /     | 4     | /   | 2   | /     | /     |
| 5 10N5/2.2          | 8                  | 1     | 10  | 8     | 1     | 1     | 1     | 1     | 1   | 1   | 1     | 1   | 6207 ZZ         | 10  | 2     | 2   | /     | 2     | /     | 4      | /     | 1     | /     | 1   | 2   | 1     | 1     |
| 5 11N5/2.2          | 8                  | 2     | 11  | 8     | 2     | 1     | 1     | 2     | 1   | 1   | 2     | 1   | 6207 ZZ         | 11  | 2     | 2   | /     | 2     | /     | 4      | /     | 1     | /     | 1   | 2   | 1     | 1     |
| 5 12N5/2.2          | 9                  | 2     | 12  | 9     | 2     | 1     | 1     | 2     | 1   | 1   | 2     | 1   | 6207 ZZ         | 12  | 2     | 2   | /     | 2     | /     | 4      | /     | 1     | /     | 1   | 2   | 1     | 1     |
| 5 14N5/3.0          | 11                 | 2     | 14  | 11    | 2     | 1     | 1     | 2     | 1   | 1   | 2     | 1   | 6308 ZZ         | 14  | 2     | 2   | /     | 2     | /     | 4      | /     | 1     | /     | 1   | 2   | 1     | 1     |
| 5 16N5/3.0          | 13                 | 2     | 16  | 13    | 2     | 1     | 1     | 2     | 1   | 1   | 2     | 1   | 6308 ZZ         | 16  | 2     | 2   | /     | 2     | /     | 4      | /     | 1     | /     | 1   | 2   | 1     | 1     |
| 5 18F5/4.0          | 15                 | 2     | 18  | 15    | 2     | 1     | 1     | 2     | 1   | 1   | 2     | 1   | 6308 ZZ         | 18  | /     | /   | /     | 2     | /     | /      | /     | 1     | /     | 1   | /   | 1     | 1     |
| 5 19F5/4.0          | 16                 | 2     | 19  | 16    | 2     | 1     | 1     | 2     | 1   | 1   | 2     | 1   | 6308 ZZ         | 19  | /     | /   | /     | 2     | /     | /      | /     | 1     | /     | 1   | /   | 1     | 1     |
| 5 22F5/4.0          | 19                 | 2     | 22  | 19    | 2     | 1     | 1     | 2     | 1   | 1   | 2     | 1   | 6308 ZZ         | 22  | /     | /   | /     | 2     | /     | /      | /     | 1     | /     | 1   | /   | 1     | 1     |
| 5 24F5/5.5          | 21                 | 2     | 24  | 21    | 2     | 1     | 1     | 2     | 1   | 1   | 2     | 1   | 6310 ZZ         | 24  | /     | /   | /     | 2     | 4     | /      | /     | 1     | /     | 1   | /   | 1     | 1     |



QUANTITY FOR MODEL  
EVM(.) 10-18

| Pump Type<br>EVM(.) | Quantity for model |       |     |       |       |       |       |     |       |     |                 |       |     |       |     |       |       |       |       |        |       |       |       |       |       |     |     |       |       |
|---------------------|--------------------|-------|-----|-------|-------|-------|-------|-----|-------|-----|-----------------|-------|-----|-------|-----|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-----|-----|-------|-------|
|                     | 005-2              | 005-3 | 021 | 043-2 | 043-3 | 043-5 | 044-1 | 051 | 052-1 | 056 | Bearing<br>type | 070-1 | 107 | 115-3 | 117 | 120-5 | 120-6 | 120-7 | 120-8 | 120-11 | 128-3 | 128-6 | 130-4 | 135-4 | 135-6 | 150 | 219 | 274-2 | 274-3 |
| 10 2N5/0.75         | /                  | 1     | 2   | /     | 1     | 1     | 1     | /   | 1     | /   | /               | /     | 2   | 2     | 2   | 2     | 2     | /     | /     | 4      | /     | /     | 1     | /     | /     | /   | 2   | /     | /     |
| 10 3N5/1.1          | 1                  | 1     | 3   | 1     | 1     | 1     | 1     | /   | 1     | /   | /               | /     | 3   | 2     | 2   | 2     | 2     | /     | /     | 4      | /     | /     | 1     | /     | /     | /   | 2   | /     | /     |
| 10 4N5/1.5          | 2                  | 1     | 4   | 2     | 1     | 1     | 1     | /   | 1     | /   | /               | /     | 4   | 2     | 2   | 4     | /     | /     | /     | 4      | /     | 4     | /     | /     | 4     | /   | 2   | /     | /     |
| 10 5N5/2.2          | 3                  | 1     | 5   | 3     | 1     | 1     | 1     | 1   | 1     | 1   | 6207 ZZ         | /     | 5   | 2     | 2   | /     | 2     | /     | /     | 4      | /     | /     | 1     | /     | /     | 1   | 2   | 1     | 1     |
| 10 6N5/2.2          | 4                  | 1     | 6   | 4     | 1     | 1     | 1     | 1   | 1     | 1   | 6207 ZZ         | /     | 6   | 2     | 2   | /     | 2     | /     | /     | 4      | /     | /     | 1     | /     | /     | 1   | 2   | 1     | 1     |
| 10 8N5/3.0          | 6                  | 1     | 8   | 6     | 1     | 1     | 1     | 1   | 1     | 1   | 6308 ZZ         | /     | 8   | 2     | 2   | /     | 2     | /     | /     | 4      | /     | /     | 1     | /     | /     | 1   | 2   | 1     | 1     |
| 10 10N5/4.0         | 8                  | 1     | 10  | 8     | 1     | 1     | 1     | 1   | 1     | 1   | 6308 ZZ         | /     | 10  | 2     | 2   | /     | 2     | /     | /     | 4      | /     | /     | 1     | /     | /     | 1   | 2   | 1     | 1     |
| 10 11N5/4.0         | 9                  | 2     | 11  | 9     | 1     | 1     | 1     | 1   | 1     | 1   | 6308 ZZ         | /     | 11  | 2     | 2   | /     | 2     | /     | /     | 4      | /     | /     | 1     | /     | /     | 1   | 2   | 1     | 1     |
| 10 12N5/5.5         | 9                  | 2     | 12  | 9     | 2     | 1     | 2     | 1   | 2     | 1   | 6310 ZZ         | /     | 12  | 2     | 2   | /     | 2     | /     | 4     | 4      | /     | /     | 1     | /     | /     | 1   | 2   | 1     | 1     |
| 10 14N5/5.5         | 11                 | 2     | 14  | 11    | 2     | 1     | 2     | 1   | 2     | 1   | 6310 ZZ         | /     | 14  | 2     | 2   | /     | 2     | /     | 4     | 4      | /     | /     | 1     | /     | /     | 1   | 2   | 1     | 1     |
| 10 15F5/5.5         | 12                 | 2     | 15  | 12    | 2     | 1     | 2     | 1   | 2     | 1   | 6310 ZZ         | /     | 15  | /     | /   | /     | 2     | /     | 4     | /      | /     | /     | 1     | /     | /     | 1   | 1   | 1     | 1     |
| 10 16F5/7.5         | 13                 | 2     | 16  | 13    | 2     | 1     | 2     | 1   | 2     | 1   | 6310 ZZ         | /     | 16  | /     | /   | /     | 2     | /     | 4     | /      | /     | /     | 1     | /     | /     | 1   | 1   | 1     | 1     |
| 10 18F5/7.5         | 15                 | 2     | 18  | 15    | 2     | 1     | 2     | 1   | 2     | 1   | 6310 ZZ         | /     | 18  | /     | /   | /     | 2     | /     | 4     | /      | /     | /     | 1     | /     | /     | 1   | 1   | 1     | 1     |
| 10 20F5/7.5         | 17                 | 2     | 20  | 17    | 2     | 1     | 2     | 1   | 2     | 1   | 6310 ZZ         | /     | 20  | /     | /   | /     | 2     | /     | 4     | /      | /     | /     | 1     | /     | /     | 1   | 1   | 1     | 1     |
| 10 22F5/11          | 19                 | 2     | 22  | 19    | 2     | 1     | 2     | 1   | 2     | 1   | 6313 ZZ         | 1     | 22  | /     | /   | /     | 2     | 3     | 4     | /      | 4     | /     | 1     | 3     | /     | 1   | /   | 1     | 1     |
| 18 2F5/2.2          | /                  | 1     | 2   | /     | 1     | 1     | 1     | /   | 1     | /   | /               | /     | 2   | /     | /   | 2     | 2     | /     | /     | /      | /     | 1     | /     | /     | 1     | /   | /   | /     | /     |
| 18 3F5/3.0          | 1                  | 1     | 3   | 1     | 1     | 1     | 1     | /   | 1     | /   | /               | /     | 3   | /     | /   | 2     | 2     | /     | /     | /      | /     | 1     | /     | /     | /     | /   | /   | /     | /     |
| 18 4F5/4.0          | 2                  | 1     | 4   | 2     | 1     | 1     | 1     | 1   | 1     | 1   | 6308 ZZ         | /     | 4   | /     | /   | /     | 2     | /     | /     | /      | /     | 1     | /     | /     | 1     | /   | 1   | 1     | 1     |
| 18 5F5/5.5          | 3                  | 1     | 5   | 3     | 1     | 1     | 1     | 1   | 1     | 1   | 6310 ZZ         | /     | 5   | /     | /   | /     | 2     | /     | 4     | /      | /     | /     | 1     | /     | /     | 1   | 1   | 1     | 1     |
| 18 6F5/5.5          | 4                  | 1     | 6   | 4     | 1     | 1     | 1     | 1   | 1     | 1   | 6310 ZZ         | /     | 6   | /     | /   | /     | 2     | /     | 4     | /      | /     | /     | 1     | /     | /     | 1   | 1   | 1     | 1     |
| 18 7F5/7.5          | 5                  | 1     | 7   | 5     | 1     | 1     | 1     | 1   | 1     | 1   | 6310 ZZ         | /     | 7   | /     | /   | /     | 2     | /     | 4     | /      | /     | /     | 1     | /     | /     | 1   | 1   | 1     | 1     |
| 18 8F5/7.5          | 6                  | 1     | 8   | 6     | 1     | 1     | 1     | 1   | 1     | 1   | 6310 ZZ         | /     | 8   | /     | /   | /     | 2     | /     | 4     | /      | /     | /     | 1     | /     | /     | 1   | 1   | 1     | 1     |
| 18 10F5/11          | 7                  | 2     | 10  | 7     | 2     | 1     | 2     | 1   | 2     | 1   | 6313 ZZ         | 1     | 10  | /     | /   | /     | 2     | 3     | 4     | /      | 4     | /     | 1     | 3     | /     | 1   | /   | 1     | 1     |
| 18 12F5/11          | 9                  | 2     | 12  | 9     | 2     | 1     | 2     | 1   | 2     | 1   | 6313 ZZ         | 1     | 12  | /     | /   | /     | 2     | 3     | 4     | /      | 4     | /     | 1     | 3     | /     | 1   | /   | 1     | 1     |
| 18 14F5/15          | 11                 | 2     | 14  | 11    | 2     | 1     | 2     | 1   | 2     | 1   | 6313 ZZ         | 1     | 14  | /     | /   | /     | 2     | 3     | 4     | /      | 4     | /     | 1     | 3     | /     | 1   | /   | 1     | 1     |
| 18 15F5/15          | 12                 | 2     | 15  | 12    | 2     | 1     | 2     | 1   | 2     | 1   | 6313 ZZ         | 1     | 15  | /     | /   | /     | 2     | 3     | 4     | /      | 4     | /     | 1     | 3     | /     | 1   | /   | 1     | 1     |
| 18 16F5/15          | 13                 | 2     | 16  | 13    | 2     | 1     | 2     | 1   | 2     | 1   | 6313 ZZ         | 1     | 16  | /     | /   | /     | 2     | 3     | 4     | /      | 4     | /     | 1     | 3     | /     | 1   | /   | 1     | 1     |

QUANTITY FOR MODEL  
EVM(.) 32

| Pump Type<br>EVM(.) | Quantity for model |       |     |     |       |       |       |       |       |       |     |       |     |       |     |       |       |       |       |       |       |     |       |       |     |     |       |       |     |       |       |
|---------------------|--------------------|-------|-----|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-------|-------|-----|-------|-------|
|                     | 005-2              | 005-3 | 011 | 021 | 021+1 | 039-1 | 043-2 | 043-3 | 043-4 | 044-1 | 051 | 052-1 | 056 | 070-1 | 107 | 111-5 | 120-4 | 120-5 | 120-7 | 120-8 | 128-3 | 129 | 135-3 | 135-4 | 136 | 140 | 140-1 | 140-2 | 150 | 274-2 | 274-3 |
| 32 10F5/2.2         | /                  | 1     | /   | 1   | /     | /     | /     | 1     | 1     | 1     | /   | 1     | /   | /     | 1   | 1     | /     | 2     | /     | /     | /     | /   | /     | /     | /   | /   | 1     | /     | /   | /     | /     |
| 32 2-2F5/3.0        | /                  | 1     | /   | /   | 2     | /     | /     | 1     | 1     | 1     | /   | 1     | /   | /     | 2   | 1     | /     | 2     | /     | /     | /     | /   | /     | /     | /   | /   | 1     | /     | /   | /     | /     |
| 32 2-0F5/4.0        | /                  | 1     | /   | 2   | /     | /     | /     | 1     | 1     | 1     | /   | 1     | /   | /     | 2   | 1     | /     | 2     | /     | /     | /     | /   | /     | /     | /   | 1   | /     | /     | /   | /     |       |
| 32 3-3F5/5.5        | 1                  | 1     | /   | /   | 3     | /     | /     | 1     | 1     | 1     | 1   | 1     | 1   | /     | 3   | 1     | /     | /     | /     | 4     | /     | /   | /     | /     | /   | 1   | /     | /     | 1   | 1     | 1     |
| 32 3-1F5/5.5        | 1                  | 1     | /   | 2   | 1     | /     | 1     | 1     | 1     | 1     | 1   | 1     | 1   | /     | 3   | 1     | /     | /     | /     | 4     | /     | /   | /     | /     | 1   | /   | /     | 1     | 1   | 1     |       |
| 32 4-3F5/7.5        | 2                  | 1     | /   | 1   | 3     | /     | 2     | 1     | 1     | 1     | 1   | 1     | 1   | /     | 4   | 1     | /     | /     | /     | 4     | /     | /   | /     | /     | 1   | /   | /     | 1     | 1   | 1     |       |
| 32 4-1F5/7.5        | 2                  | 1     | /   | 3   | 1     | /     | 2     | 1     | 1     | 1     | 1   | 1     | 1   | /     | 4   | 1     | /     | /     | /     | 4     | /     | /   | /     | /     | 1   | /   | /     | 1     | 1   | 1     |       |
| 32 5-3F5/11         | 3                  | 1     | 1   | 2   | 3     | 1     | 3     | 1     | 1     | 1     | 1   | 1     | 1   | 1     | 5   | 1     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 32 5-0F5/11         | 3                  | 1     | 1   | 5   | /     | 1     | 3     | 1     | 1     | 1     | 1   | 1     | 1   | 1     | 5   | 1     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 32 6-3F5/11         | 4                  | 1     | 1   | 3   | 3     | 1     | 4     | 1     | 1     | 1     | 1   | 1     | 1   | 1     | 6   | 1     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 32 6-2F5/11         | 4                  | 1     | 1   | 4   | 2     | 1     | 4     | 1     | 1     | 1     | 1   | 1     | 1   | 1     | 6   | 1     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 32 7-3F5/15         | 5                  | 1     | 1   | 4   | 3     | 1     | 5     | 1     | 1     | 1     | 1   | 1     | 1   | 1     | 7   | 1     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 32 7-0F5/15         | 5                  | 1     | 1   | 7   | /     | 1     | 5     | 1     | 1     | 1     | 1   | 1     | 1   | 1     | 7   | 1     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 32 8-3F5/15         | 6                  | 1     | 1   | 5   | 3     | 1     | 6     | 1     | 1     | 1     | 1   | 1     | 1   | 1     | 8   | 1     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 32 8-2F5/15         | 6                  | 1     | 1   | 6   | 2     | 1     | 6     | 1     | 1     | 1     | 1   | 1     | 1   | 1     | 8   | 1     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 32 9-3F5/18.5       | 7                  | 1     | 1   | 6   | 3     | 1     | 7     | 1     | 1     | 1     | 1   | 1     | 1   | 1     | 9   | 1     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 32 9-0F5/18.5       | 7                  | 1     | 1   | 9   | /     | 1     | 7     | 1     | 1     | 1     | 1   | 1     | 1   | 1     | 9   | 1     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 32 10-3F5/18.5      | 7                  | 2     | 1   | 7   | 3     | 1     | 7     | 2     | 2     | 2     | 1   | 2     | 1   | 1     | 10  | 1     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 32 10-2F5/18.5      | 7                  | 2     | 1   | 8   | 2     | 1     | 7     | 2     | 2     | 2     | 1   | 2     | 1   | 1     | 10  | 1     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 32 11-3F5/22        | 8                  | 2     | 1   | 8   | 3     | 1     | 8     | 2     | 2     | 2     | 1   | 2     | 1   | 1     | 11  | 1     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 32 11-0F5/22        | 8                  | 2     | 1   | 11  | /     | 1     | 8     | 2     | 2     | 2     | 1   | 2     | 1   | 1     | 11  | 1     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 32 12-3F5/22        | 9                  | 2     | 1   | 9   | 3     | 1     | 9     | 2     | 2     | 2     | 1   | 2     | 1   | 1     | 12  | 1     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 32 13-3F5/30        | 10                 | 2     | 1   | 10  | 3     | 1     | 10    | 2     | 2     | 2     | 1   | 2     | 1   | 1     | 13  | /     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | 1   | /   | 1     | 1     | 1   | 1     | /     |
| 32 13-0F5/30        | 10                 | 2     | 1   | 13  | /     | 1     | 10    | 2     | 2     | 2     | 1   | 2     | 1   | 1     | 13  | /     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | 1   | /   | 1     | 1     | 1   | 1     | /     |
| 32 14-3F5/30        | 11                 | 2     | 1   | 11  | 3     | 1     | 11    | 2     | 2     | 2     | 1   | 2     | 1   | 1     | 14  | /     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | 1   | /   | 1     | 1     | 1   | 1     | /     |
| 32 14-0F5/30        | 11                 | 2     | 1   | 14  | /     | 1     | 11    | 2     | 2     | 2     | 1   | 2     | 1   | 1     | 14  | /     | 4     | 4     | 3     | 4     | 4     | 4   | 4     | 3     | 1   | /   | 1     | 1     | 1   | 1     | /     |

QUANTITY FOR MODEL  
EVM(.) 45

| Pump Type<br>EVM(.) | Quantity for model |     |     |       |       |       |       |       |       |     |       |     |     |       |     |     |       |       |       |       |       |     |       |       |     |     |       |       |     |       |       |
|---------------------|--------------------|-----|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|-----|-------|-----|-----|-------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-------|-------|-----|-------|-------|
|                     | 005-2              | 011 | 021 | 021-1 | 039-1 | 043-2 | 043-3 | 043-4 | 044-1 | 051 | 052-1 | 053 | 056 | 070-1 | 081 | 107 | 120-4 | 120-5 | 120-7 | 120-8 | 128-3 | 129 | 135-3 | 135-4 | 136 | 140 | 140-1 | 140-2 | 150 | 274-2 | 274-3 |
| 45 1-1F5/3.0        | 1                  | /   | /   | 1     | /     | /     | /     | /     | /     | /   | /     | 1   | /   | /     | 1   | 1   | /     | 2     | /     | /     | /     | /   | /     | /     | 1   | 1   | /     | /     | /   | /     | /     |
| 45 1-0F5/4.0        | 1                  | /   | 1   | /     | /     | /     | /     | /     | /     | /   | /     | 1   | /   | /     | 1   | 1   | /     | 2     | /     | /     | /     | /   | /     | /     | 1   | 1   | /     | /     | /   | /     | /     |
| 45 2-2F5/5.5        | 2                  | /   | /   | 2     | /     | 1     | /     | /     | /     | 1   | /     | 2   | 1   | /     | 2   | 2   | /     | /     | /     | 4     | /     | /   | /     | /     | 1   | 1   | /     | /     | 1   | 1     | 1     |
| 45 2-0F5/7.5        | 2                  | /   | 2   | /     | /     | 1     | /     | /     | /     | 1   | /     | 2   | 1   | /     | 2   | 2   | /     | /     | /     | 4     | /     | /   | /     | /     | 1   | 1   | /     | /     | 1   | 1     | 1     |
| 45 3-2F5/11         | 3                  | 1   | 1   | 2     | 1     | 2     | /     | /     | /     | 1   | /     | 3   | 1   | 1     | 3   | 3   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 45 3-0F5/11         | 3                  | 1   | 3   | /     | 1     | 2     | /     | /     | /     | 1   | /     | 3   | 1   | 1     | 3   | 3   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 45 4-2F5/15         | 4                  | 1   | 2   | 2     | 1     | 2     | 1     | 1     | 1     | 1   | 1     | 4   | 1   | 1     | 3   | 4   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 45 4-0F5/15         | 4                  | 1   | 4   | /     | 1     | 2     | 1     | 1     | 1     | 1   | 1     | 4   | 1   | 1     | 3   | 4   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 45 5-2F5/18.5       | 5                  | 1   | 3   | 2     | 1     | 3     | 1     | 1     | 1     | 1   | 1     | 5   | 1   | 1     | 4   | 5   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 45 5-0F5/18.5       | 5                  | 1   | 5   | /     | 1     | 3     | 1     | 1     | 1     | 1   | 1     | 5   | 1   | 1     | 4   | 5   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 45 6-2F5/22         | 6                  | 1   | 4   | 2     | 1     | 4     | 1     | 1     | 1     | 1   | 1     | 6   | 1   | 1     | 5   | 6   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 45 6-0F5/22         | 6                  | 1   | 6   | /     | 1     | 4     | 1     | 1     | 1     | 1   | 1     | 6   | 1   | 1     | 5   | 6   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | /   | /   | 1     | 1     | 1   | 1     | /     |
| 45 7-2F5/30         | 7                  | 1   | 5   | 2     | 1     | 5     | 1     | 1     | 1     | 1   | 1     | 7   | 1   | 1     | 6   | 7   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 1   | /   | 1     | 1     | /   | /     | /     |
| 45 7-0F5/30         | 7                  | 1   | 7   | /     | 1     | 5     | 1     | 1     | 1     | 1   | 1     | 7   | 1   | 1     | 6   | 7   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 1   | /   | 1     | 1     | /   | /     | /     |
| 45 8-2F5/30         | 8                  | 1   | 6   | 2     | 1     | 6     | 1     | 1     | 1     | 1   | 1     | 8   | 1   | 1     | 7   | 8   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 1   | /   | 1     | 1     | /   | /     | /     |
| 45 8-0F5/30         | 8                  | 1   | 8   | /     | 1     | 6     | 1     | 1     | 1     | 1   | 1     | 8   | 1   | 1     | 7   | 8   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 1   | /   | 1     | 1     | /   | /     | /     |
| 45 9-2F5/30         | 9                  | 1   | 7   | 2     | 1     | 7     | 1     | 1     | 1     | 1   | 1     | 9   | 1   | 1     | 8   | 9   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 1   | /   | 1     | 1     | /   | /     | /     |
| 45 9-0F5/37         | 9                  | 1   | 9   | /     | 1     | 7     | 1     | 1     | 1     | 1   | 1     | 9   | 1   | 1     | 8   | 9   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 1   | /   | 1     | 1     | /   | /     | /     |
| 45 10-2F5/37        | 10                 | 1   | 8   | 2     | 1     | 8     | 1     | 1     | 1     | 1   | 1     | 10  | 1   | 1     | 9   | 10  | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 1   | /   | 1     | 1     | /   | /     | /     |
| 45 10-0F5/37        | 10                 | 1   | 10  | /     | 1     | 8     | 1     | 1     | 1     | 1   | 1     | 10  | 1   | 1     | 9   | 10  | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 1   | /   | 1     | 1     | /   | /     | /     |

QUANTITY FOR MODEL  
EVM(.) 64

| Pump Type<br>EVM(.) | Quantity for model |     |     |       |       |       |       |       |       |     |       |     |     |       |     |     |       |       |       |       |       |     |       |       |     |     |       |       |     |       |       |
|---------------------|--------------------|-----|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|-----|-------|-----|-----|-------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-------|-------|-----|-------|-------|
|                     | 005-2              | 011 | 021 | 021-1 | 039-1 | 043-2 | 043-3 | 043-4 | 044-1 | 051 | 052-1 | 053 | 056 | 070-1 | 081 | 107 | 120-4 | 120-5 | 120-7 | 120-8 | 128-3 | 129 | 135-3 | 135-4 | 136 | 140 | 140-1 | 140-2 | 150 | 274-2 | 274-3 |
| 64 1-1F5/4.0        | 1                  | /   | /   | 1     | /     | /     | /     | /     | /     | /   | /     | 1   | /   | /     | 1   | 1   | /     | 2     | /     | /     | /     | /   | /     | /     | 1   | 1   | /     | /     | /   | /     | /     |
| 64 1-0F5/5.5        | 1                  | /   | 1   | /     | /     | /     | /     | /     | /     | 1   | /     | 1   | 1   | /     | 1   | 1   | /     | /     | /     | 4     | /     | /   | /     | /     | 1   | 1   | /     | /     | 1   | 1     | 1     |
| 64 2-2F5/7.5        | 2                  | /   | /   | 2     | /     | 1     | /     | /     | /     | 1   | /     | 2   | 1   | /     | 2   | 2   | /     | /     | /     | 4     | /     | /   | /     | /     | 1   | 1   | /     | /     | 1   | 1     | 1     |
| 64 2-1F5/11         | 2                  | 1   | 1   | 1     | 1     | 1     | /     | /     | /     | 1   | /     | 2   | 1   | 1     | 2   | 2   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | 1   | /   | 1     | 1     | 1   | 1     | /     |
| 64 2-0F5/11         | 2                  | 1   | 2   | /     | 1     | 1     | /     | /     | /     | 1   | /     | 2   | 1   | 1     | 2   | 2   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | 1   | /   | 1     | 1     | 1   | 1     | /     |
| 64 3-3F5/15         | 3                  | 1   | /   | 3     | 1     | 2     | /     | /     | /     | 1   | /     | 3   | 1   | 1     | 3   | 3   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | 1   | /   | 1     | 1     | 1   | 1     | /     |
| 64 3-2F5/15         | 3                  | 1   | 1   | 2     | 1     | 2     | /     | /     | /     | 1   | /     | 3   | 1   | 1     | 3   | 3   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | 1   | /   | 1     | 1     | 1   | 1     | /     |
| 64 3-1F5/15         | 3                  | 1   | 2   | 1     | 1     | 2     | /     | /     | /     | 1   | /     | 3   | 1   | 1     | 3   | 3   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | 1   | /   | 1     | 1     | 1   | 1     | /     |
| 64 3-0F5/18.5       | 3                  | 1   | 3   | /     | 1     | 2     | /     | /     | /     | 1   | /     | 3   | 1   | 1     | 3   | 3   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | 1   | /   | 1     | 1     | 1   | 1     | /     |
| 64 4-3F5/18.5       | 4                  | 1   | 1   | 3     | 1     | 2     | 1     | 1     | 1     | 1   | 1     | 4   | 1   | 1     | 3   | 4   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | 1   | /   | 1     | 1     | 1   | 1     | /     |
| 64 4-2F5/18.5       | 4                  | 1   | 2   | 2     | 1     | 2     | 1     | 1     | 1     | 1   | 1     | 4   | 1   | 1     | 3   | 4   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | 1   | /   | 1     | 1     | 1   | 1     | /     |
| 64 4-1F5/22         | 4                  | 1   | 3   | 1     | 1     | 2     | 1     | 1     | 1     | 1   | 1     | 4   | 1   | 1     | 3   | 4   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | 1   | /   | 1     | 1     | 1   | 1     | /     |
| 64 4-0F5/22         | 4                  | 1   | 4   | /     | 1     | 2     | 1     | 1     | 1     | 1   | 1     | 4   | 1   | 1     | 3   | 4   | 4     | 4     | 3     | 4     | 4     | /   | 4     | 3     | 1   | /   | 1     | 1     | 1   | 1     | /     |
| 64 5-3F5/30         | 5                  | 1   | 2   | 3     | 1     | 3     | 1     | 1     | 1     | 1   | 1     | 5   | 1   | 1     | 4   | 5   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 2   | /   | 1     | 1     | /   | /     | /     |
| 64 5-2F5/30         | 5                  | 1   | 3   | 2     | 1     | 3     | 1     | 1     | 1     | 1   | 1     | 5   | 1   | 1     | 4   | 5   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 2   | /   | 1     | 1     | /   | /     | /     |
| 64 5-1F5/30         | 5                  | 1   | 4   | 1     | 1     | 3     | 1     | 1     | 1     | 1   | 1     | 5   | 1   | 1     | 4   | 5   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 2   | /   | 1     | 1     | /   | /     | /     |
| 64 5-0F5/30         | 5                  | 1   | 5   | /     | 1     | 3     | 1     | 1     | 1     | 1   | 1     | 5   | 1   | 1     | 4   | 5   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 2   | /   | 1     | 1     | /   | /     | /     |
| 64 6-3F5/30         | 6                  | 1   | 3   | 3     | 1     | 4     | 1     | 1     | 1     | 1   | 1     | 6   | 1   | 1     | 5   | 6   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 2   | /   | 1     | 1     | /   | /     | /     |
| 64 6-2F5/30         | 6                  | 1   | 4   | 2     | 1     | 4     | 1     | 1     | 1     | 1   | 1     | 6   | 1   | 1     | 5   | 6   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 2   | /   | 1     | 1     | /   | /     | /     |
| 64 6-1F5/37         | 6                  | 1   | 5   | 1     | 1     | 4     | 1     | 1     | 1     | 1   | 1     | 6   | 1   | 1     | 5   | 6   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 2   | /   | 1     | 1     | /   | /     | /     |
| 64 6-0F5/37         | 6                  | 1   | 6   | /     | 1     | 4     | 1     | 1     | 1     | 1   | 1     | 6   | 1   | 1     | 5   | 6   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 2   | /   | 1     | 1     | /   | /     | /     |
| 64 7-3F5/37         | 7                  | 1   | 4   | 3     | 1     | 5     | 1     | 1     | 1     | 1   | 1     | 7   | 1   | 1     | 6   | 7   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 2   | /   | 1     | 1     | /   | /     | /     |
| 64 7-2F5/37         | 7                  | 1   | 5   | 2     | 1     | 5     | 1     | 1     | 1     | 1   | 1     | 7   | 1   | 1     | 6   | 7   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 2   | /   | 1     | 1     | /   | /     | /     |
| 64 7-1F5/37         | 7                  | 1   | 6   | 1     | 1     | 5     | 1     | 1     | 1     | 1   | 1     | 7   | 1   | 1     | 6   | 7   | 4     | 4     | 3     | 4     | 4     | 1   | 4     | 3     | 2   | /   | 1     | 1     | /   | /     | /     |

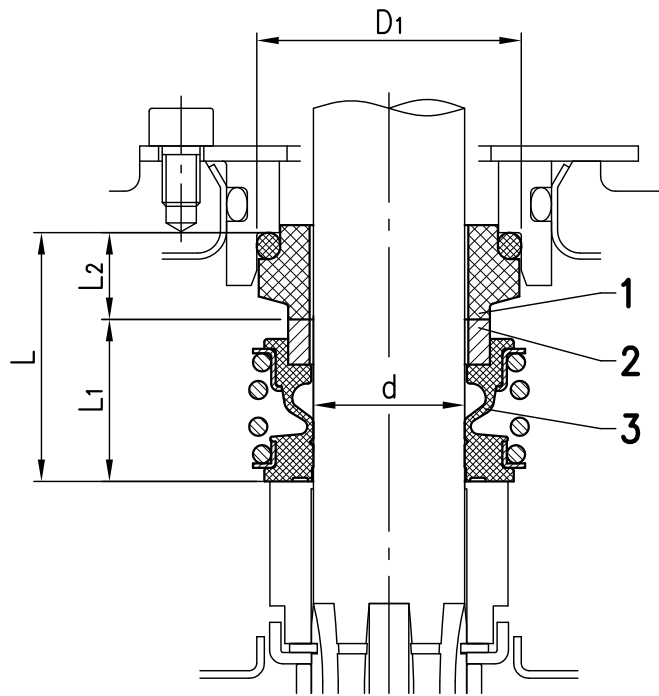
BEARINGS

| Pump Type   | Ball bearing Motor |            |
|-------------|--------------------|------------|
|             | Pump side          | Fan side   |
| 3 2N5/0.37  | 6203-ZZ            | 6203-ZZ    |
| 3 3N5/0.37  | 6203-ZZ            | 6203-ZZ    |
| 3 4N5 0.55  | 6203-ZZ            | 6203-ZZ    |
| 3 5N5/0.55  | 6203-ZZ            | 6203-ZZ    |
| 3 6N5/0.75  | 6204-ZZ C3         | 6204-ZZ C3 |
| 3 7N5/0.75  | 6204-ZZ C3         | 6204-ZZ C3 |
| 3 9N5/1.1   | 6204-ZZ C3         | 6204-ZZ C3 |
| 3 11N5/1.1  | 6204-ZZ C3         | 6204-ZZ C3 |
| 3 13N5/1.5  | 6205-ZZ C3         | 6205-ZZ C3 |
| 3 15N5/1.5  | 6205-ZZ C3         | 6205-ZZ C3 |
| 3 18F5/2.2  | 6205-ZZ C3         | 6205-ZZ C3 |
| 3 22F5/2.2  | 6205-ZZ C3         | 6205-ZZ C3 |
| 3 26F5/3.0  | 6206-ZZ C3         | 6206-ZZ C3 |
| 5 2N5/0.37  | 6203-ZZ            | 6203-ZZ    |
| 5 3N5/0.55  | 6203-ZZ            | 6203-ZZ    |
| 5 4N5/0.75  | 6204-ZZ C3         | 6204-ZZ C3 |
| 5 5N5/1.1   | 6204-ZZ C3         | 6204-ZZ C3 |
| 5 6N5/1.1   | 6204-ZZ C3         | 6204-ZZ C3 |
| 5 7N5/1.5   | 6205-ZZ C3         | 6205-ZZ C3 |
| 5 8N5/1.5   | 6205-ZZ C3         | 6205-ZZ C3 |
| 5 10N5/2.2  | 6205-ZZ C3         | 6205-ZZ C3 |
| 5 11N5/2.2  | 6205-ZZ C3         | 6205-ZZ C3 |
| 5 12N5/2.2  | 6205-ZZ C3         | 6205-ZZ C3 |
| 5 14N5/3.0  | 6206-ZZ C3         | 6206-ZZ C3 |
| 5 16N5/3.0  | 6206-ZZ C3         | 6206-ZZ C3 |
| 5 18F5/4.0  | 6206-ZZ C3         | 6206-ZZ C3 |
| 5 19F5/4.0  | 6206-ZZ C3         | 6206-ZZ C3 |
| 5 22F5/4.0  | 6206-ZZ C3         | 6206-ZZ C3 |
| 5 24F5/5.5  | 6208-ZZ C3         | 6307-ZZ C3 |
| 10 2N5/0.75 | 6204-ZZ C3         | 6204-ZZ C3 |
| 10 3N5/1.1  | 6204-ZZ C3         | 6204-ZZ C3 |
| 10 4N5/1.5  | 6205-ZZ C3         | 6205-ZZ C3 |
| 10 5N5/2.2  | 6205-ZZ C3         | 6205-ZZ C3 |
| 10 6N5/2.2  | 6205-ZZ C3         | 6205-ZZ C3 |
| 10 8N5/3.0  | 6206-ZZ C3         | 6206-ZZ C3 |
| 10 10N5/4.0 | 6206-ZZ C3         | 6206-ZZ C3 |
| 10 11N5/4.0 | 6206-ZZ C3         | 6206-ZZ C3 |
| 10 12N5/5.5 | 6208-ZZ C3         | 6307-ZZ C3 |
| 10 14N5/5.5 | 6208-ZZ C3         | 6307-ZZ C3 |
| 10 15F5/5.5 | 6208-ZZ C3         | 6307-ZZ C3 |
| 10 16F5/7.5 | 6208-ZZ C3         | 6307-ZZ C3 |
| 10 18F5/7.5 | 6208-ZZ C3         | 6307-ZZ C3 |
| 10 20F5/7.5 | 6208-ZZ C3         | 6307-ZZ C3 |
| 10 22F5/11  | 6309-ZZ C3         | 6308-ZZ C3 |
| 18 2F5/2.2  | 6205-ZZ C3         | 6205-ZZ C3 |
| 18 3F5/3.0  | 6206-ZZ C3         | 6206-ZZ C3 |
| 18 4F5/4.0  | 6206-ZZ C3         | 6206-ZZ C3 |
| 18 5F5/5.5  | 6208-ZZ C3         | 6307-ZZ C3 |
| 18 6F5/5.5  | 6208-ZZ C3         | 6307-ZZ C3 |
| 18 7F5/7.5  | 6208-ZZ C3         | 6307-ZZ C3 |
| 18 8F5/7.5  | 6208-ZZ C3         | 6307-ZZ C3 |
| 18 10F5/11  | 6309-ZZ C3         | 6308-ZZ C3 |
| 18 12F5/11  | 6309-ZZ C3         | 6308-ZZ C3 |
| 18 14F5/15  | 6309-ZZ C3         | 6309-ZZ C3 |
| 18 15F5/15  | 6309-ZZ C3         | 6309-ZZ C3 |
| 18 16F5/15  | 6309-ZZ C3         | 6309-ZZ C3 |

| Pump Type      | Pump           | Ball bearing Motor |            |
|----------------|----------------|--------------------|------------|
|                |                | Pump side          | Fan side   |
| 32 1-0F5/2.2   | /              | 6205-ZZ C3         | 6205-ZZ C3 |
| 32 2-2F5/3.0   | /              | 6206-ZZ C3         | 6206-ZZ C3 |
| 32 2-0F5/4.0   | /              | 6206-ZZ C3         | 6206-ZZ C3 |
| 32 3-3F5/5.5   | 6310 ZZ C3     | 6208-ZZ C3         | 6307-ZZ C3 |
| 32 3-1F5/5.5   | 6310 ZZ C3     | 6208-ZZ C3         | 6307-ZZ C3 |
| 32 4-3F5/7.5   | 6310 ZZ C3     | 6208-ZZ C3         | 6307-ZZ C3 |
| 32 4-1F5/7.5   | 6310 ZZ C3     | 6208-ZZ C3         | 6307-ZZ C3 |
| 32 5-3F5/11    | 6313 ZZ C3     | 6309-ZZ C3         | 6308-ZZ C3 |
| 32 5-0F5/11    | 6313 ZZ C3     | 6309-ZZ C3         | 6308-ZZ C3 |
| 32 6-3F5/11    | 6313 ZZ C3     | 6309-ZZ C3         | 6308-ZZ C3 |
| 32 6-2F5/11    | 6313 ZZ C3     | 6309-ZZ C3         | 6308-ZZ C3 |
| 32 7-3F5/15    | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 32 7-0F5/15    | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 32 8-3F5/15    | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 32 8-2F5/15    | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 32 9-3F5/18.5  | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 32 9-0F5/18.5  | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 32 10-3F5/18.5 | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 32 10-2F5/18.5 | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 32 11-3F5/22   | 6315 ZZ C3     | 6311 C3            | 6311 C3    |
| 32 11-0F5/22   | 6315 ZZ C3     | 6311 C3            | 6311 C3    |
| 32 12-3F5/22   | 6315 ZZ C3     | 6311 C3            | 6311 C3    |
| 32 13-3F5/30   | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 32 13-0F5/30   | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 32 14-3F5/30   | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 32 14-0F5/30   | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 45 1-1F5/3.0   | /              | 6206-ZZ C3         | 6206-ZZ C3 |
| 45 1-0F5/4.0   | /              | 6206-ZZ C3         | 6206-ZZ C3 |
| 45 2-2F5/5.5   | 6310 ZZ C3     | 6208-ZZ C3         | 6307-ZZ C3 |
| 45 2-0F5/7.5   | 6310 ZZ C3     | 6208-ZZ C3         | 6307-ZZ C3 |
| 45 3-2F5/11    | 6313 ZZ C3     | 6309-ZZ C3         | 6308-ZZ C3 |
| 45 3-0F5/11    | 6313 ZZ C3     | 6309-ZZ C3         | 6308-ZZ C3 |
| 45 4-2F5/15    | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 45 4-0F5/15    | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 45 5-2F5/18.5  | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 45 5-0F5/18.5  | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 45 6-2F5/22    | 6315 ZZ C3     | 6311 C3            | 6311 C3    |
| 45 6-0F5/22    | 6315 ZZ C3     | 6311 C3            | 6311 C3    |
| 45 7-2F5/30    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 45 7-0F5/30    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 45 8-2F5/30    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 45 8-0F5/30    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 45 9-2F5/30    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 45 9-0F5/37    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 45 10-2F5/37   | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 45 10-0F5/37   | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 64 1-1F5/4.0   | /              | 6206-ZZ C3         | 6206-ZZ C3 |
| 64 1-0F5/5.5   | 6310 ZZ C3     | 6208-ZZ C3         | 6307-ZZ C3 |
| 64 2-2F5/7.5   | 6310 ZZ C3     | 6208-ZZ C3         | 6307-ZZ C3 |
| 64 2-1F5/11    | 6313 ZZ C3     | 6309-ZZ C3         | 6308-ZZ C3 |
| 64 2-0F5/11    | 6313 ZZ C3     | 6309-ZZ C3         | 6308-ZZ C3 |
| 64 3-3F5/15    | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 64 3-2F5/15    | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 64 3-1F5/15    | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 64 3-0F5/18.5  | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 64 4-3F5/18.5  | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 64 4-2F5/18.5  | 6313 ZZ C3     | 6309-ZZ C3         | 6309-ZZ C3 |
| 64 4-1F5/22    | 6315 ZZ C3     | 6311 C3            | 6311 C3    |
| 64 4-0F5/22    | 6315 ZZ C3     | 6311 C3            | 6311 C3    |
| 64 5-3F5/30    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 64 5-2F5/30    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 64 5-1F5/30    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 64 5-0F5/30    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 64 6-3F5/30    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 64 6-2F5/30    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 64 6-1F5/37    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 64 6-0F5/37    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 64 7-3F5/37    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 64 7-2F5/37    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |
| 64 7-1F5/37    | 6315 ZZDT C3 * | 6312 C3            | 6312 C3    |

\* DT= Two single row deep groove ball bearings matched for paired mounting in a tandem arrangement.

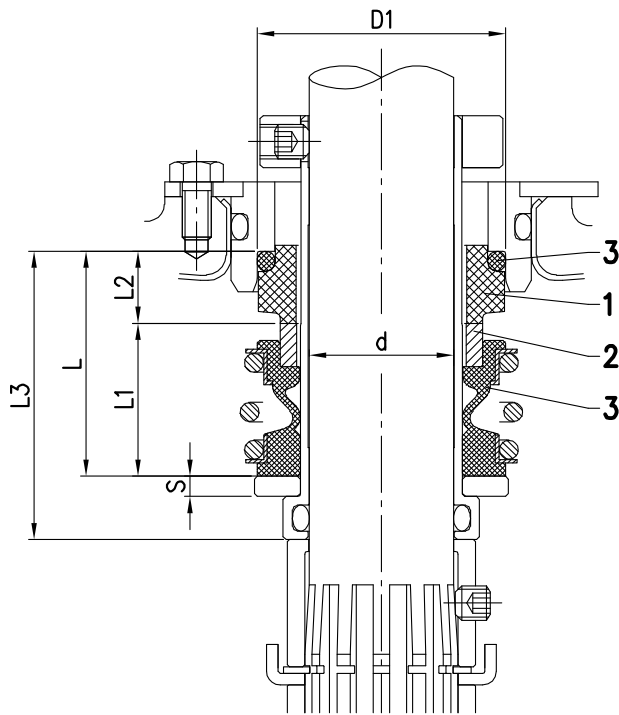
**MECHANICAL SEAL  
EVM(.) 3-18**



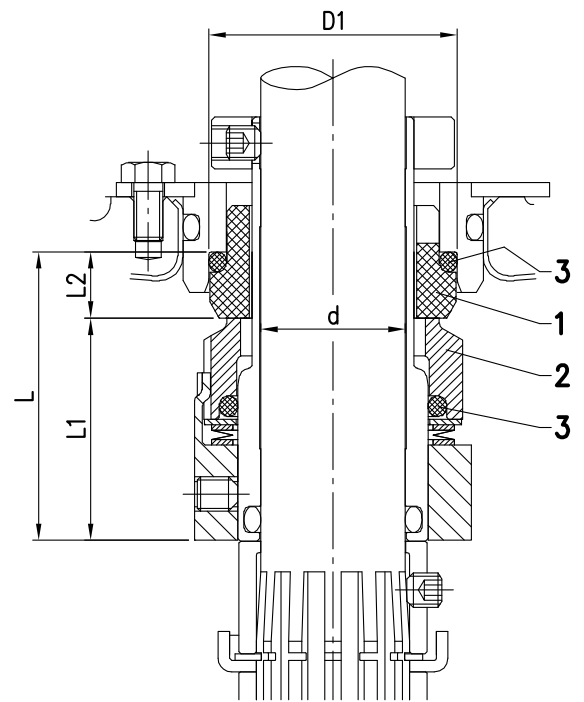
| Pump Type | Size [mm] | Max.working pressure [MPa] | d [mm] | D <sub>1</sub> [mm] | L [mm] | L <sub>1</sub> [mm] | L <sub>2</sub> [mm] | Material               |                    |          |
|-----------|-----------|----------------------------|--------|---------------------|--------|---------------------|---------------------|------------------------|--------------------|----------|
|           |           |                            |        |                     |        |                     |                     | 1 stationary seal ring | 2 rotary seal ring | 3 rubber |
| 3-5       | 12,7      | 1,6                        | 12,7   | 23                  | 23,5   | 16                  | 7,5                 | Carbon graphite        | Silicon carbide    | FPM (1)  |
|           |           | 2,5                        |        |                     |        |                     |                     |                        |                    |          |
| 10        | 16        | 1,6                        | 16     | 27                  | 27     | 17                  | 10                  | Carbon graphite        | Silicon carbide    | FPM (1)  |
|           |           | 2,5                        |        |                     |        |                     |                     |                        |                    |          |
| 18        | 20        | 1,6                        | 20     | 35                  | 33     | 21,5                | 11,5                | Carbon graphite        | Silicon carbide    | FPM (1)  |
|           |           | 2,5                        |        |                     |        |                     |                     |                        |                    |          |

(1) EPDM Only for version EVM and EVMG

**MECHANICAL SEAL  
EVM(.) 32-64**



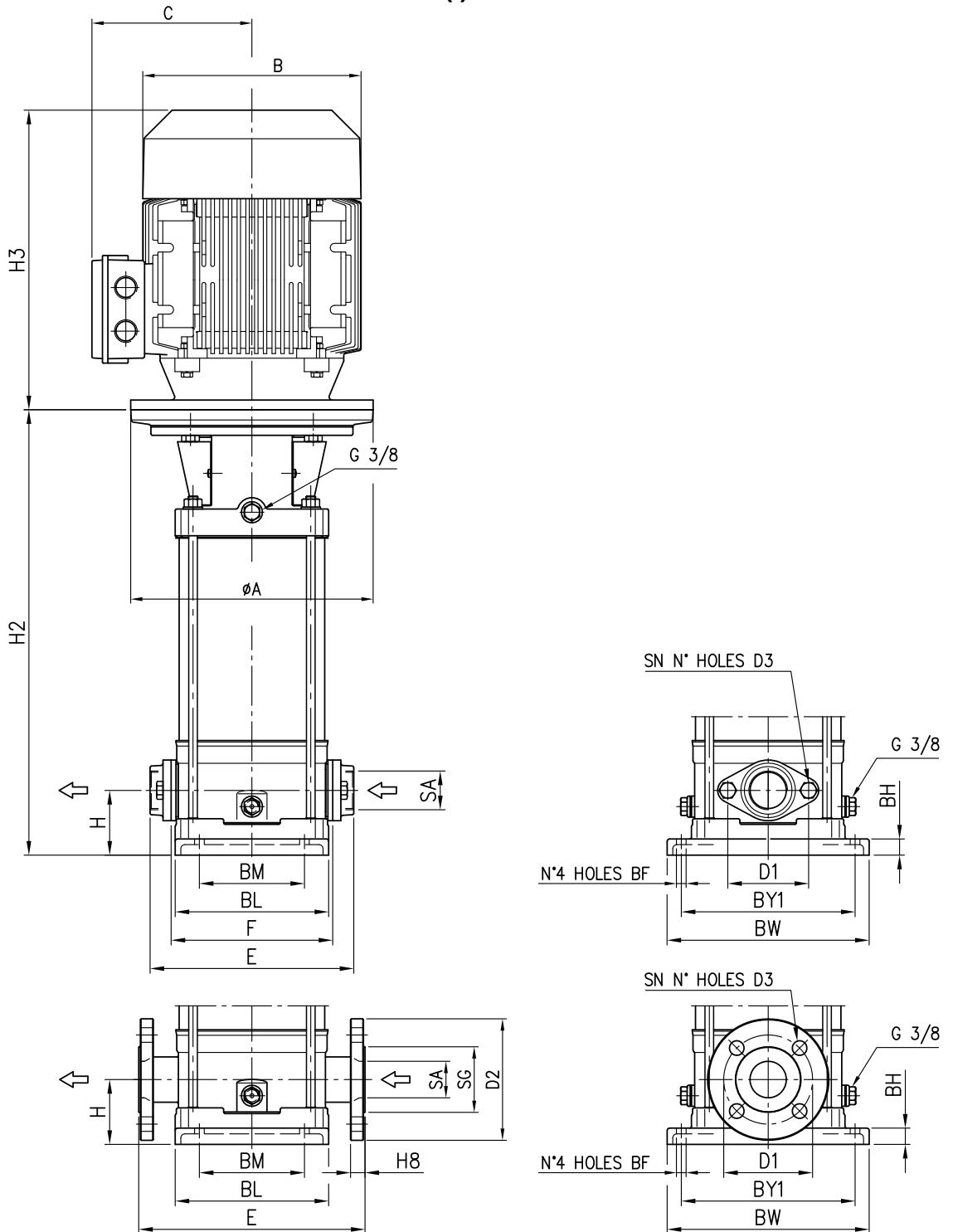
UP TO 2.5 MPa



FROM 2.5 To 3.0 MPa

| Size [mm] | Max. working pressure [MPa] | d [mm] | D <sub>1</sub> [mm] | L [mm] | L <sub>1</sub> [mm] | L <sub>2</sub> [mm] | L <sub>3</sub> [mm] | S [mm] | Material               |                    |          |
|-----------|-----------------------------|--------|---------------------|--------|---------------------|---------------------|---------------------|--------|------------------------|--------------------|----------|
|           |                             |        |                     |        |                     |                     |                     |        | 1 stationary seal ring | 2 rotary seal ring | 3 rubber |
| 25        | 2.5                         | 25     | 43                  | 39     | 26.5                | 12.5                | 50                  | 3.5    | Carbon graphite        | Silicon carbide    | FPM      |
|           | 3                           |        |                     | 50     | 38.5                | 11.5                |                     |        | -                      | -                  |          |

PUMP  
EVM(.) 3-18



See dimensions pages 401, 402



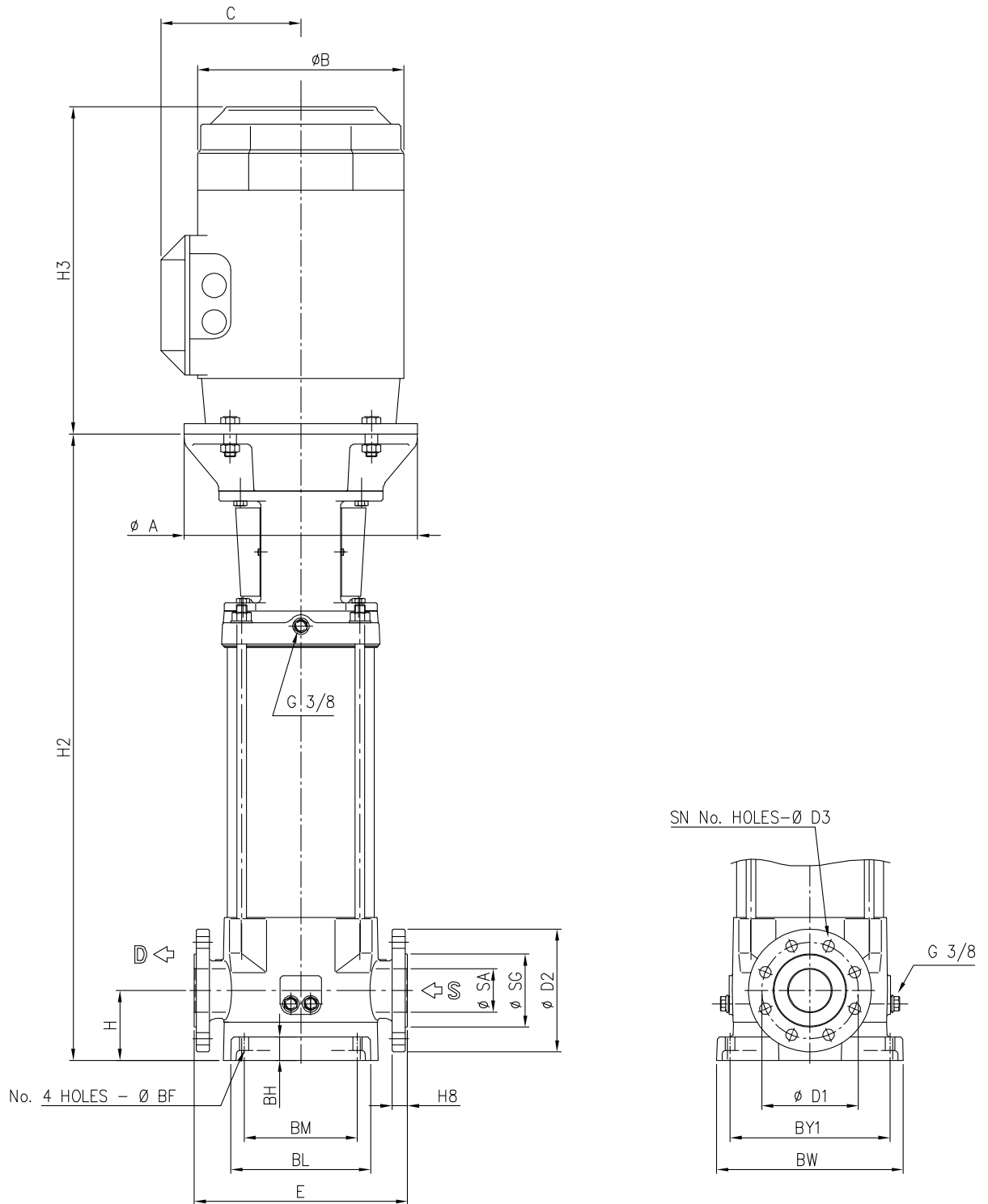
### DIMENSIONS TABLE EVM(.) 3-5

| Pump type    | Pmax.<br>[MPa]<br>2) | Motor<br>Size | H  | H2    | H3  |     | F   | E   | B   |     | C   |     | BM  | BL  | BY1 | BW  | SA      | SG  | D1   | D2   | H8 | SN | D3  | BF  | BH | A    | Weight [kgf] |       |      |           |
|--------------|----------------------|---------------|----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|------|----|----|-----|-----|----|------|--------------|-------|------|-----------|
|              |                      |               |    |       | 1~  | 3~  |     |     | 1~  | 3~  | 1~  | 3~  |     |     |     |     |         |     |      |      |    |    |     |     |    |      | Pump         | 1~    | 3~   | (*)<br>3~ |
| 3 2N5/0.37   | 1.6                  | 71            | 50 | 240.5 | 215 | 215 | 160 | 206 | 142 | 142 | 129 | 114 | 100 | 149 | 180 | 210 | G 1"    | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø105 | 11,32        | 17,02 | 17,1 | -         |
| 3 3N5/0.37   | 1.6                  | 71            | 50 | 262   | 215 | 215 | 160 | 206 | 142 | 142 | 129 | 114 | 100 | 149 | 180 | 210 | G 1"    | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø105 | 11,8         | 17,5  | 17,6 | -         |
| 3 4N5/0.55   | 1.6                  | 71            | 50 | 283   | 215 | 215 | 160 | 206 | 142 | 142 | 129 | 114 | 100 | 149 | 180 | 210 | G 1"    | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø105 | 12,3         | 19,3  | 18,5 | -         |
| 3 5N5/0.55   | 1.6                  | 71            | 50 | 304   | 215 | 215 | 160 | 206 | 142 | 142 | 129 | 114 | 100 | 149 | 180 | 210 | G 1"    | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø105 | 12,8         | 19,8  | 19   | -         |
| 3 6N5/0.75   | 1.6                  | 80            | 50 | 335   | 232 | 232 | 160 | 206 | 160 | 160 | 150 | 139 | 100 | 149 | 180 | 210 | G 1"    | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø120 | 13,7         | 25,1  | 22,1 | 23,2      |
| 3 7N5/0.75   | 1.6                  | 80            | 50 | 356   | 232 | 232 | 160 | 206 | 160 | 160 | 150 | 139 | 100 | 149 | 180 | 210 | G 1"    | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø120 | 13,9         | 25,3  | 22,3 | 23,4      |
| 3 9N5/1.1    | 1.6                  | 80            | 50 | 398   | 232 | 232 | 160 | 206 | 160 | 160 | 150 | 139 | 100 | 149 | 180 | 210 | G 1"    | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø120 | 14,8         | 26,6  | 25,9 | 25,9      |
| 3 11N5/1.1   | 1.6                  | 80            | 50 | 440   | 232 | 232 | 160 | 206 | 160 | 160 | 150 | 139 | 100 | 149 | 180 | 210 | G 1"    | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø120 | 16,2         | 28    | 27,3 | 27,3      |
| ◆ 3 13N5/1.5 | 1.6                  | 90S           | 50 | 492   | 278 | 267 | 160 | 206 | 172 | 180 | 140 | 148 | 100 | 149 | 180 | 210 | G 1"    | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø140 | 17,7         | 35,5  | 31,7 | 31,7      |
| ◆ 3 15N5/1.5 | 1.6                  | 90S           | 50 | 534   | 278 | 267 | 160 | 206 | 172 | 180 | 140 | 148 | 100 | 149 | 180 | 210 | G 1"    | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø140 | 19,2         | 37    | 33,2 | 33,2      |
| ◆ 3 18F5/2.2 | 2.5                  | 90L           | 75 | 632   | 278 | 267 | -   | 250 | 172 | 180 | 140 | 148 | 100 | 149 | 180 | 210 | Ø25     | Ø63 | Ø85  | Ø115 | 16 | 4  | Ø14 | Ø12 | 20 | Ø140 | 24,8         | 44,3  | 40,8 | 40,8      |
| ◆ 3 22F5/2.2 | 2.5                  | 90L           | 75 | 716   | 278 | 267 | -   | 250 | 172 | 180 | 140 | 148 | 100 | 149 | 180 | 210 | Ø25     | Ø63 | Ø85  | Ø115 | 16 | 4  | Ø14 | Ø12 | 20 | Ø140 | 27,2         | 46,7  | 43,2 | 43,2      |
| 3 26F5/3.0   | 2.5                  | 100L          | 75 | 810   | -   | 306 | -   | 250 | -   | 196 | -   | 155 | 100 | 149 | 180 | 210 | Ø25     | Ø63 | Ø85  | Ø115 | 16 | 4  | Ø14 | Ø12 | 20 | Ø160 | 30,8         | -     | 53,6 | 53,6      |
| 5 2N5/0.37   | 1.6                  | 71            | 50 | 255   | 215 | 215 | 160 | 206 | 142 | 142 | 129 | 114 | 100 | 149 | 180 | 210 | G 1"1/4 | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø105 | 11,5         | 17,2  | 17,3 | -         |
| 5 3N5/0.55   | 1.6                  | 71            | 50 | 283   | 215 | 215 | 160 | 206 | 142 | 142 | 129 | 114 | 100 | 149 | 180 | 210 | G 1"1/4 | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø105 | 12           | 19    | 18,2 | -         |
| 5 4N5/0.75   | 1.6                  | 80            | 50 | 321   | 232 | 232 | 160 | 206 | 160 | 160 | 150 | 139 | 100 | 149 | 180 | 210 | G 1"1/4 | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø120 | 12,9         | 24,3  | 21,3 | 23,4      |
| 5 5N5/1.1    | 1.6                  | 80            | 50 | 349   | 232 | 232 | 160 | 206 | 160 | 160 | 150 | 139 | 100 | 149 | 180 | 210 | G 1"1/4 | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø120 | 13,5         | 25,3  | 24,6 | 24,6      |
| 5 6N5/1.1    | 1.6                  | 80            | 50 | 377   | 232 | 232 | 160 | 206 | 160 | 160 | 150 | 139 | 100 | 149 | 180 | 210 | G 1"1/4 | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø120 | 14,1         | 25,9  | 25,2 | 25,2      |
| ◆ 5 7N5/1.5  | 1.6                  | 90S           | 50 | 415   | 278 | 267 | 160 | 206 | 172 | 180 | 140 | 148 | 100 | 149 | 180 | 210 | G 1"1/4 | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø140 | 14,9         | 32,7  | 28,9 | 28,9      |
| ◆ 5 8N5/1.5  | 1.6                  | 90S           | 50 | 443   | 278 | 267 | 160 | 206 | 172 | 180 | 140 | 148 | 100 | 149 | 180 | 210 | G 1"1/4 | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø140 | 15,5         | 33,3  | 29,5 | 29,5      |
| ◆ 5 10N5/2.2 | 1.6                  | 90L           | 50 | 509   | 278 | 267 | 160 | 206 | 172 | 180 | 140 | 148 | 100 | 149 | 180 | 210 | G 1"1/4 | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø140 | 17,9         | 37,4  | 33,9 | 33,9      |
| ◆ 5 11N5/2.2 | 1.6                  | 90L           | 50 | 537   | 278 | 267 | 160 | 206 | 172 | 180 | 140 | 148 | 100 | 149 | 180 | 210 | G 1"1/4 | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø140 | 19           | 38,5  | 35   | 35        |
| ◆ 5 12N5/2.2 | 1.6                  | 90L           | 50 | 565   | 278 | 267 | 160 | 206 | 172 | 180 | 140 | 148 | 100 | 149 | 180 | 210 | G 1"1/4 | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø140 | 19,7         | 39,2  | 35,7 | 35,7      |
| 5 14N5/3.0   | 1.6                  | 100L          | 50 | 631   | -   | 306 | 160 | 206 | -   | 196 | -   | 155 | 100 | 149 | 180 | 210 | G 1"1/4 | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø160 | 22,0         | -     | 44,8 | 44,8      |
| 5 16N5/3.0   | 1.6                  | 100L          | 50 | 687   | -   | 306 | 160 | 206 | -   | 196 | -   | 155 | 100 | 149 | 180 | 210 | G 1"1/4 | -   | 75   | -    | -  | 2  | M10 | Ø12 | 20 | Ø160 | 23,3         | -     | 46,1 | 46,1      |
| 5 18F5/4.0   | 2.5                  | 112M          | 75 | 768   | -   | 306 | -   | 250 | -   | 196 | -   | 155 | 100 | 149 | 180 | 210 | Ø32     | Ø71 | Ø100 | Ø140 | 20 | 4  | Ø14 | Ø12 | 20 | Ø160 | 28,7         | -     | 51,5 | 55,2      |
| 5 19F5/4.0   | 2.5                  | 112M          | 75 | 796   | -   | 306 | -   | 250 | -   | 196 | -   | 155 | 100 | 149 | 180 | 210 | Ø32     | Ø71 | Ø100 | Ø140 | 20 | 4  | Ø14 | Ø12 | 20 | Ø160 | 29,4         | -     | 52,2 | 56        |
| 5 22F5/4.0   | 2.5                  | 112M          | 75 | 880   | -   | 306 | -   | 250 | -   | 196 | -   | 155 | 100 | 149 | 180 | 210 | Ø32     | Ø71 | Ø100 | Ø140 | 20 | 4  | Ø14 | Ø12 | 20 | Ø160 | 31,2         | -     | 54   | 58        |
| 5 24F5/5.5   | 2.5                  | 132S          | 75 | 947   | -   | 328 | -   | 250 | -   | 220 | -   | 161 | 100 | 149 | 180 | 210 | Ø32     | Ø71 | Ø100 | Ø140 | 20 | 4  | Ø14 | Ø12 | 20 | Ø300 | 35,4         | -     | 74   | 74        |

- 1) AEG motor dimensions except ◆ Single phase motors manufactured by Ebara
- 2) 1.6 MPa=16 bar  
2.5 MPa=25 bar
- (\*) Only for IE3 Motors



**EVM(.) 32-64**



See dimensions pages 404,405,406

DIMENSIONS TABLE  
EVM(.) 32

| Pump type      | Pmax.<br>[MPa]<br>2) | Motor<br>Size | Dimensions [mm] |      |                |     |               |               |     |     |     |     |     |      |      |      |    |    |     |     |    | Weight<br>[kgf] |      |              |       |
|----------------|----------------------|---------------|-----------------|------|----------------|-----|---------------|---------------|-----|-----|-----|-----|-----|------|------|------|----|----|-----|-----|----|-----------------|------|--------------|-------|
|                |                      |               | H               | H2   | H3<br>1)<br>3~ | E   | B<br>1)<br>3~ | C<br>1)<br>3~ | BM  | BL  | BY1 | BW  | SA  | SG   | D1   | D2   | H8 | SN | D3  | BF  | BH | A               | Pump | Pump + motor | (*)   |
| 32 1-0F5/2.2   | 1,6                  | 90L           | 105             | 493  | 267            | 320 | 180           | 148           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 4  | Ø18 | Ø14 | 35 | 140             | 56   | 72           | 72    |
| 32 2-2F5/3.0   | 1,6                  | 100L          | 105             | 503  | 306            | 320 | 196           | 155           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 4  | Ø18 | Ø14 | 35 | 160             | 58   | 80,8         | 80,8  |
| 32 2-0F5/4.0   | 1,6                  | 112M          | 105             | 503  | 306            | 320 | 196           | 155           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 4  | Ø18 | Ø14 | 35 | 160             | 58   | 80,8         | 84,5  |
| 32 3-3F5/5.5   | 1,6                  | 132S          | 105             | 572  | 328            | 320 | 220           | 161           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 4  | Ø18 | Ø14 | 35 | 300             | 74   | 112,6        | 112,6 |
| 32 3-1F5/5.5   | 1,6                  | 132S          | 105             | 572  | 328            | 320 | 220           | 161           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 4  | Ø18 | Ø14 | 35 | 300             | 74   | 112,6        | 112,6 |
| 32 4-3F5/7.5   | 1,6                  | 132S          | 105             | 620  | 328            | 320 | 220           | 161           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 4  | Ø18 | Ø14 | 35 | 300             | 77   | -            | 119,4 |
| 32 4-1F5/7.5   | 1,6                  | 132S          | 105             | 620  | 328            | 320 | 220           | 161           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 4  | Ø18 | Ø14 | 35 | 300             | 77   | -            | 119,4 |
| 32 5-3F5/11    | 1,6                  | 160M          | 105             | 799  | 403            | 320 | 248           | 195           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 4  | Ø18 | Ø14 | 35 | 350             | 96   | -            | 169,3 |
| 32 5-0F5/11    | 1,6                  | 160M          | 105             | 799  | 403            | 320 | 248           | 195           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 4  | Ø18 | Ø14 | 35 | 350             | 96   | -            | 169,3 |
| 32 6-3F5/11    | 1,6                  | 160M          | 105             | 847  | 403            | 320 | 248           | 195           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 4  | Ø18 | Ø14 | 35 | 350             | 99   | -            | 172,3 |
| 32 6-2F5/11    | 1,6                  | 160M          | 105             | 847  | 403            | 320 | 248           | 195           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 4  | Ø18 | Ø14 | 35 | 350             | 99   | -            | 172,3 |
| 32 7-3F5/15    | 1,6                  | 160M          | 105             | 895  | 498            | 320 | 317           | 238           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 4  | Ø18 | Ø14 | 35 | 350             | 102  | -            | 206   |
| 32 7-0F5/15    | 1,6                  | 160M          | 105             | 895  | 498            | 320 | 317           | 238           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 4  | Ø18 | Ø14 | 35 | 350             | 102  | -            | 206   |
| 32 8-3F5/15    | 2,5                  | 160M          | 105             | 943  | 498            | 320 | 317           | 238           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 8  | Ø18 | Ø14 | 35 | 350             | 105  | -            | 209   |
| 32 8-2F5/15    | 2,5                  | 160M          | 105             | 943  | 498            | 320 | 317           | 238           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 8  | Ø18 | Ø14 | 35 | 350             | 105  | -            | 209   |
| 32 9-3F5/18.5  | 2,5                  | 160L          | 105             | 991  | 542            | 320 | 317           | 238           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 8  | Ø18 | Ø14 | 35 | 350             | 108  | -            | 212   |
| 32 9-0F5/18.5  | 2,5                  | 160L          | 105             | 991  | 542            | 320 | 317           | 238           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 8  | Ø18 | Ø14 | 35 | 350             | 108  | -            | 212   |
| 32 10-3F5/18.5 | 2,5                  | 160L          | 105             | 1039 | 542            | 320 | 317           | 238           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 8  | Ø18 | Ø14 | 35 | 350             | 112  | -            | 216   |
| 32 10-2F5/18.5 | 2,5                  | 160L          | 105             | 1039 | 542            | 320 | 317           | 238           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 8  | Ø18 | Ø14 | 35 | 350             | 112  | -            | 216   |
| 32 11-3F5/22   | 2,5                  | 180M          | 105             | 1087 | 577            | 320 | 360           | 268           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 8  | Ø18 | Ø14 | 35 | 350             | 116  | -            | 286   |
| 32 11-0F5/22   | 2,5                  | 180M          | 105             | 1087 | 577            | 320 | 360           | 268           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 8  | Ø18 | Ø14 | 35 | 350             | 116  | -            | 286   |
| 32 12-3F5/22   | 2,5                  | 180M          | 105             | 1135 | 577            | 320 | 360           | 268           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 8  | Ø18 | Ø14 | 35 | 350             | 119  | -            | 289   |
| 32 13-3F5/30   | 3,0                  | 200L          | 105             | 1198 | 658            | 320 | 399           | 300           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 8  | Ø18 | Ø14 | 35 | 400             | 129  | -            | 357   |
| 32 13-0F5/30   | 3,0                  | 200L          | 105             | 1198 | 658            | 320 | 399           | 300           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 8  | Ø18 | Ø14 | 35 | 400             | 129  | -            | 357   |
| 32 14-3F5/30   | 3,0                  | 200L          | 105             | 1246 | 658            | 320 | 399           | 300           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 8  | Ø18 | Ø14 | 35 | 400             | 133  | -            | 361   |
| 32 14-0F5/30   | 3,0                  | 200L          | 105             | 1246 | 658            | 320 | 399           | 300           | 170 | 210 | 240 | 280 | Ø65 | Ø110 | Ø145 | Ø185 | 23 | 8  | Ø18 | Ø14 | 35 | 400             | 133  | -            | 361   |

(\*) Only for IE3 Motors  
 1) AEG motor dimensions  
 2) 1,6 MPa=16 bar  
 2,5 MPa=25 bar  
 3,0 MPa=30 bar

DIMENSIONS TABLE  
EVM(.) 45

| Pump type     | Pmax.<br>[MPa]<br>2) | Motor<br>Size | Dimensions [mm] |      |                |     |               |               |     |     |     |     |     |      |      |      |    |    |     |     |    | Weight<br>[kgf] |      |                     |       |
|---------------|----------------------|---------------|-----------------|------|----------------|-----|---------------|---------------|-----|-----|-----|-----|-----|------|------|------|----|----|-----|-----|----|-----------------|------|---------------------|-------|
|               |                      |               | H               | H2   | H3<br>1)<br>3~ | E   | B<br>1)<br>3~ | C<br>1)<br>3~ | BM  | BL  | BY1 | BW  | SA  | SG   | D1   | D2   | H8 | SN | D3  | BF  | BH | A               | Pump | Pump + motor<br>(*) |       |
| 45 1-1F5/3.0  | 1,6                  | 100L          | 140             | 525  | 306            | 365 | 196           | 155           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 160             | 71   | 93,8                | 93,8  |
| 45 1-0F5/4.0  | 1,6                  | 112M          | 140             | 525  | 306            | 365 | 196           | 155           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 160             | 73   | 95,8                | 99,5  |
| 45 2-2F5/5.5  | 1,6                  | 132S          | 140             | 618  | 328            | 365 | 220           | 161           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 300             | 81   | 119,6               | 119,6 |
| 45 2-0F5/7.5  | 1,6                  | 132S          | 140             | 618  | 328            | 365 | 220           | 161           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 300             | 81   | -                   | 123,4 |
| 45 3-2F5/11   | 1,6                  | 160M          | 140             | 821  | 403            | 365 | 248           | 195           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 99   | -                   | 172,3 |
| 45 3-0F5/11   | 1,6                  | 160M          | 140             | 821  | 403            | 365 | 248           | 195           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 99   | -                   | 172,3 |
| 45 4-2F5/15   | 2,5                  | 160M          | 140             | 893  | 498            | 365 | 317           | 238           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 108  | -                   | 212   |
| 45 4-0F5/15   | 2,5                  | 160M          | 140             | 893  | 498            | 365 | 317           | 238           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 108  | -                   | 212   |
| 45 5-2F5/18.5 | 2,5                  | 160L          | 140             | 965  | 542            | 365 | 317           | 238           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 128  | -                   | 232   |
| 45 5-0F5/18.5 | 2,5                  | 160L          | 140             | 965  | 542            | 365 | 317           | 238           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 128  | -                   | 232   |
| 45 6-2F5/22   | 2,5                  | 180M          | 140             | 1037 | 577            | 365 | 360           | 268           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 133  | -                   | 303   |
| 45 6-0F5/22   | 2,5                  | 180M          | 140             | 1037 | 577            | 365 | 360           | 268           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 133  | -                   | 303   |
| 45 7-2F5/30   | 2,5                  | 200L          | 140             | 1124 | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 400             | 139  | -                   | 367   |
| 45 7-0F5/30   | 2,5                  | 200L          | 140             | 1124 | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 400             | 139  | -                   | 367   |
| 45 8-2F5/30   | 2,5                  | 200L          | 140             | 1196 | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 400             | 146  | -                   | 374   |
| 45 8-0F5/30   | 2,5                  | 200L          | 140             | 1196 | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 400             | 146  | -                   | 374   |
| 45 9-2F5/30   | 2,5                  | 200L          | 140             | 1269 | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 400             | 151  | -                   | 379   |
| 45 9-0F5/37   | 2,5                  | 200L          | 140             | 1269 | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 400             | 151  | -                   | 393   |
| 45 10-2F5/37  | 3,0                  | 200L          | 140             | 1341 | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 400             | 156  | -                   | 398   |
| 45 10-0F5/37  | 3,0                  | 200L          | 140             | 1341 | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø80 | Ø120 | Ø160 | Ø200 | 20 | 8  | Ø18 | Ø14 | 45 | 400             | 156  | -                   | 398   |

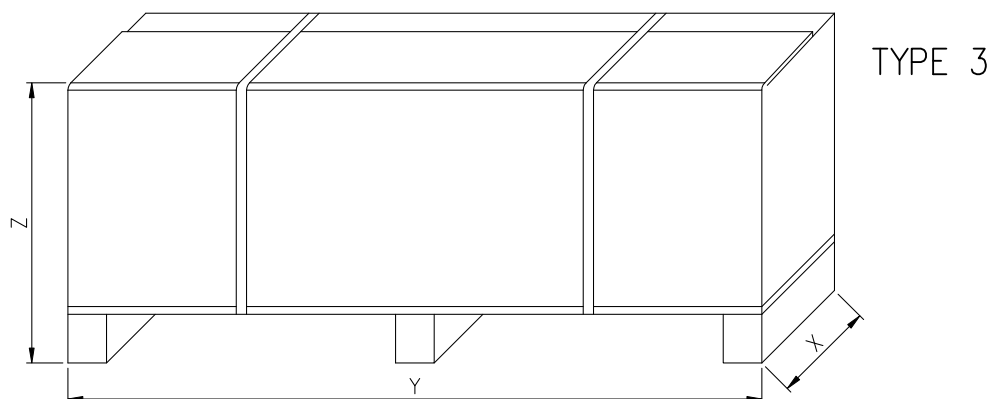
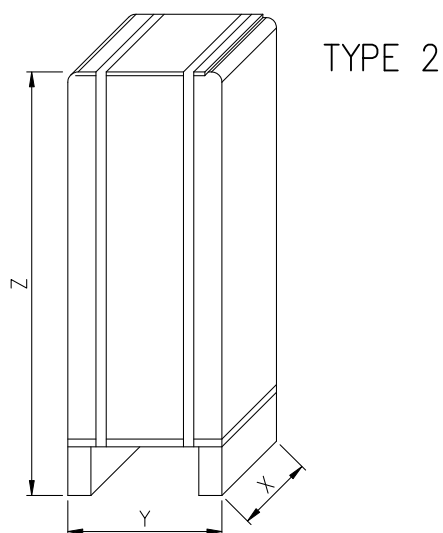
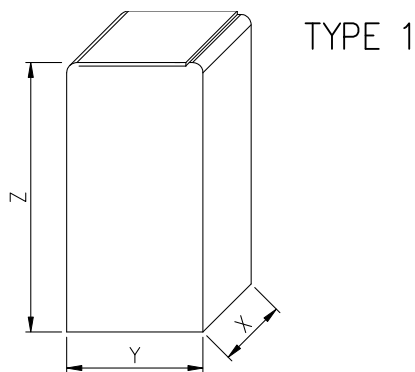
(\*) Only for IE3 Motors  
 1) AEG motor dimensions  
 2) 1,6 MPa=16 bar  
 2,5 MPa=25 bar  
 3,0 MPa=30 bar

DIMENSIONS TABLE  
EVM(.) 64

| Pump type     | Pmax.<br>[MPa]<br>2) | Motor<br>Size | Dimensions [mm] |      |                |     |               |               |     |     |     |     |      |      |      |      |    |    |     |     |    | Weight<br>[kgf] |      |                     |       |
|---------------|----------------------|---------------|-----------------|------|----------------|-----|---------------|---------------|-----|-----|-----|-----|------|------|------|------|----|----|-----|-----|----|-----------------|------|---------------------|-------|
|               |                      |               | H               | H2   | H3<br>1)<br>3~ | E   | B<br>1)<br>3~ | C<br>1)<br>3~ | BM  | BL  | BY1 | BW  | SA   | SG   | D1   | D2   | H8 | SN | D3  | BF  | BH | A               | Pump | Pump + motor<br>(*) |       |
| 64 1-1F5/4.0  | 1,6                  | 112M          | 140             | 525  | 306            | 365 | 196           | 155           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 160             | 70,4 | 93,2                | 96,9  |
| 64 1-0F5/5.5  | 1,6                  | 132S          | 140             | 546  | 328            | 365 | 220           | 161           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 300             | 77   | 115,6               | 115,6 |
| 64 2-2F5/7.5  | 1,6                  | 132S          | 140             | 618  | 328            | 365 | 220           | 161           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 300             | 81,4 | -                   | 123,8 |
| 64 2-1F5/11   | 1,6                  | 160M          | 140             | 749  | 403            | 365 | 248           | 195           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 93,5 | -                   | 166,8 |
| 64 2-0F5/11   | 1,6                  | 160M          | 140             | 749  | 403            | 365 | 248           | 195           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 93,5 | -                   | 166,8 |
| 64 3-3F5/15   | 1,6                  | 160M          | 140             | 821  | 498            | 365 | 317           | 238           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 99   | -                   | 203   |
| 64 3-2F5/15   | 1,6                  | 160M          | 140             | 821  | 498            | 365 | 317           | 238           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 99   | -                   | 203   |
| 64 3-1F5/15   | 1,6                  | 160M          | 140             | 821  | 498            | 365 | 317           | 238           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 99   | -                   | 203   |
| 64 3-0F5/18.5 | 1,6                  | 160L          | 140             | 821  | 542            | 365 | 317           | 238           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 99   | -                   | 203   |
| 64 4-3F5/18.5 | 1,6                  | 160L          | 140             | 893  | 542            | 365 | 317           | 238           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 108  | -                   | 212   |
| 64 4-2F5/18.5 | 1,6                  | 160L          | 140             | 893  | 542            | 365 | 317           | 238           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 108  | -                   | 212   |
| 64 4-1F5/22   | 1,6                  | 180M          | 140             | 893  | 577            | 365 | 360           | 268           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 116  | -                   | 286   |
| 64 4-0F5/22   | 1,6                  | 180M          | 140             | 893  | 577            | 365 | 360           | 268           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 350             | 116  | -                   | 286   |
| 64 5-3F5/30   | 1,6                  | 200L          | 140             | 980  | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 400             | 128  | -                   | 356   |
| 64 5-2F5/30   | 1,6                  | 200L          | 140             | 980  | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 400             | 128  | -                   | 356   |
| 64 5-1F5/30   | 1,6                  | 200L          | 140             | 980  | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 400             | 128  | -                   | 356   |
| 64 5-0F5/30   | 1,6                  | 200L          | 140             | 980  | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 400             | 128  | -                   | 356   |
| 64 6-3F5/30   | 1,6                  | 200L          | 140             | 1052 | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø180 | Ø220 | 20 | 8  | Ø18 | Ø14 | 45 | 400             | 136  | -                   | 364   |
| 64 6-2F5/30   | 2,5                  | 200L          | 140             | 1052 | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø190 | Ø235 | 26 | 8  | Ø22 | Ø14 | 45 | 400             | 136  | -                   | 364   |
| 64 6-1F5/37   | 2,5                  | 200L          | 140             | 1052 | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø190 | Ø235 | 26 | 8  | Ø22 | Ø14 | 45 | 400             | 136  | -                   | 378   |
| 64 6-0F5/37   | 2,5                  | 200L          | 140             | 1052 | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø190 | Ø235 | 26 | 8  | Ø22 | Ø14 | 45 | 400             | 136  | -                   | 378   |
| 64 7-3F5/37   | 2,5                  | 200L          | 140             | 1124 | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø190 | Ø235 | 26 | 8  | Ø22 | Ø14 | 45 | 400             | 139  | -                   | 381   |
| 64 7-2F5/37   | 2,5                  | 200L          | 140             | 1124 | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø190 | Ø235 | 26 | 8  | Ø22 | Ø14 | 45 | 400             | 139  | -                   | 381   |
| 64 7-1F5/37   | 2,5                  | 200L          | 140             | 1124 | 658            | 365 | 399           | 300           | 190 | 251 | 266 | 331 | Ø100 | Ø140 | Ø190 | Ø235 | 26 | 8  | Ø22 | Ø14 | 45 | 400             | 139  | -                   | 381   |

(\*) Only for IE3 Motors  
 1) AEG motor dimensions  
 2) 1,6 MPa=16 bar  
 2,5 MPa=25 bar

**PACKING**



**PACKING TABLE  
EVM(.) 3-5**

| Pump type  | Pumps        |     |      |              |           | Pumps with motor ~1 |     |      |              |           | Pumps with motor ~3 |      |      |                  |           |   |
|------------|--------------|-----|------|--------------|-----------|---------------------|-----|------|--------------|-----------|---------------------|------|------|------------------|-----------|---|
|            | Packing [mm] |     |      | Weight [kgf] | Pack Type | Packing [mm]        |     |      | Weight [kgf] | Pack Type | Packing [mm]        |      |      | Weight [kgf] (*) | Pack Type |   |
|            | X            | Y   | Z    |              |           | X                   | Y   | Z    |              |           | X                   | Y    | Z    |                  |           |   |
| 3 2N5/0.37 | 265          | 265 | 410  | 12,3         | 1         | 265                 | 265 | 525  | 18,2         | 1         | 265                 | 265  | 525  | 18,2             | -         | 1 |
| 3 3N5/0.37 | 265          | 265 | 410  | 12,8         | 1         | 265                 | 265 | 525  | 18,7         | 1         | 265                 | 265  | 525  | 18,7             | -         | 1 |
| 3 4N5 0.55 | 265          | 265 | 410  | 13,3         | 1         | 265                 | 265 | 525  | 20,5         | 1         | 265                 | 265  | 525  | 19,8             | -         | 1 |
| 3 5N5/0.55 | 265          | 265 | 410  | 13,8         | 1         | 300                 | 300 | 825  | 23,8         | 2         | 300                 | 300  | 825  | 23,1             | -         | 2 |
| 3 6N5/0.75 | 265          | 265 | 410  | 14,7         | 1         | 300                 | 300 | 825  | 29,1         | 2         | 300                 | 300  | 825  | 26,1             | 26,1      | 2 |
| 3 7N5/0.75 | 265          | 265 | 410  | 14,9         | 1         | 300                 | 300 | 825  | 29,3         | 2         | 300                 | 300  | 825  | 26,3             | 26,3      | 2 |
| 3 9N5/1.1  | 265          | 265 | 525  | 16           | 1         | 300                 | 300 | 825  | 30,6         | 2         | 300                 | 300  | 825  | 29,9             | 29,9      | 2 |
| 3 11N5/1.1 | 265          | 265 | 525  | 17,4         | 1         | 300                 | 300 | 825  | 32           | 2         | 300                 | 300  | 825  | 31,3             | 31,3      | 2 |
| 3 13N5/1.5 | 265          | 265 | 525  | 18,9         | 1         | 300                 | 300 | 935  | 39,7         | 2         | 300                 | 300  | 935  | 35,9             | 35,9      | 2 |
| 3 15N5/1.5 | 300          | 300 | 825  | 23,2         | 2         | 400                 | 400 | 1047 | 44           | 2         | 300                 | 300  | 935  | 37,4             | 37,4      | 2 |
| 3 18F5/2.2 | 300          | 300 | 825  | 28,8         | 2         | 480                 | 480 | 1147 | 54           | 2         | 400                 | 400  | 1047 | 47,5             | 47,5      | 2 |
| 3 22F5/2.2 | 300          | 300 | 935  | 31,4         | 2         | 480                 | 480 | 1297 | 57           | 2         | 400                 | 400  | 1047 | 53               | 53        | 2 |
| 3 26F5/3.0 | 400          | 400 | 1047 | 37,6         | 2         | -                   | -   | -    | -            | -         | 480                 | 480  | 1297 | 63,5             | 63,5      | 2 |
| 5 2N5/0.37 | 265          | 265 | 410  | 12,5         | 1         | 265                 | 265 | 525  | 18,4         | 1         | 265                 | 265  | 525  | 18,4             | -         | 1 |
| 5 3N5/0.55 | 265          | 265 | 410  | 13           | 1         | 265                 | 265 | 525  | 20,2         | 1         | 265                 | 265  | 525  | 19,5             | -         | 1 |
| 5 4N5/0.75 | 265          | 265 | 410  | 13,9         | 1         | 300                 | 300 | 825  | 28,3         | 2         | 300                 | 300  | 825  | 25,3             | 25,3      | 2 |
| 5 5N5/1.1  | 265          | 265 | 410  | 14,5         | 1         | 300                 | 300 | 825  | 29,3         | 2         | 300                 | 300  | 825  | 28,6             | 28,6      | 2 |
| 5 6N5/1.1  | 265          | 265 | 410  | 15,1         | 1         | 300                 | 300 | 825  | 29,9         | 2         | 300                 | 300  | 825  | 29,2             | 29,2      | 2 |
| 5 7N5/1.5  | 265          | 265 | 525  | 16,1         | 1         | 300                 | 300 | 825  | 36,7         | 2         | 300                 | 300  | 825  | 32,9             | 32,9      | 2 |
| 5 8N5/1.5  | 265          | 265 | 525  | 16,7         | 1         | 300                 | 300 | 935  | 37,5         | 2         | 300                 | 300  | 935  | 33,7             | 33,7      | 2 |
| 5 10N5/2.2 | 300          | 300 | 825  | 21,9         | 2         | 300                 | 300 | 935  | 41,5         | 2         | 300                 | 300  | 935  | 38,1             | 38,1      | 2 |
| 5 11N5/2.2 | 300          | 300 | 825  | 23           | 2         | 400                 | 400 | 1047 | 45,5         | 2         | 300                 | 300  | 935  | 39,2             | 39,2      | 2 |
| 5 12N5/2.2 | 300          | 300 | 825  | 23,7         | 2         | 400                 | 400 | 1047 | 46           | 2         | 400                 | 400  | 1047 | 42,5             | 42,5      | 2 |
| 5 14N5/3.0 | 300          | 300 | 825  | 26           | 2         | -                   | -   | -    | -            | -         | 400                 | 400  | 1047 | 54,4             | 54,4      | 2 |
| 5 16N5/3.0 | 300          | 300 | 825  | 27,3         | 2         | -                   | -   | -    | -            | -         | 400                 | 400  | 1047 | 56               | 56        | 2 |
| 5 18F5/4.0 | 300          | 300 | 935  | 32,9         | 2         | -                   | -   | -    | -            | -         | 480                 | 480  | 1297 | 69,1             | 72,8      | 2 |
| 5 19F5/4.0 | 300          | 300 | 935  | 33,6         | 2         | -                   | -   | -    | -            | -         | 480                 | 480  | 1297 | 70,1             | 73,8      | 2 |
| 5 22F5/4.0 | 400          | 400 | 1047 | 38           | 2         | -                   | -   | -    | -            | -         | 410                 | 1350 | 542  | 75,6             | 79,3      | 3 |
| 5 24F5/5.5 | 400          | 400 | 1230 | 45           | 2         | -                   | -   | -    | -            | -         | 520                 | 1540 | 547  | 97,1             | 97,1      | 3 |

(\*) Only for IE3 Motors



**EVM(.) 10-18**

| Pump type   | Pumps        |     |      |              |           | Pumps with motor ~1 |     |     |              |           | Pumps with motor ~3 |      |      |              |           |   |
|-------------|--------------|-----|------|--------------|-----------|---------------------|-----|-----|--------------|-----------|---------------------|------|------|--------------|-----------|---|
|             | Packing [mm] |     |      | Weight [kgf] | Pack Type | Packing [mm]        |     |     | Weight [kgf] | Pack Type | Packing [mm]        |      |      | Weight [kgf] | Pack Type |   |
|             | X            | Y   | Z    |              |           | X                   | Y   | Z   |              |           | X                   | Y    | Z    |              |           |   |
| 10 2N5/0.75 | 265          | 265 | 410  | 22           | 1         | 300                 | 300 | 825 | 33,4         | 2         | 300                 | 300  | 825  | 30,4         | 30,4      | 2 |
| 10 3N5/1.1  | 265          | 265 | 410  | 23,5         | 1         | 300                 | 300 | 825 | 35,3         | 2         | 300                 | 300  | 825  | 34,6         | 34,6      | 2 |
| 10 4N5/1.5  | 265          | 265 | 525  | 25,9         | 1         | 300                 | 300 | 825 | 43,5         | 2         | 300                 | 300  | 825  | 39,9         | 39,9      | 2 |
| 10 5N5/2.2  | 265          | 265 | 525  | 26,5         | 1         | 300                 | 300 | 935 | 46           | 2         | 300                 | 300  | 935  | 42,5         | 42,5      | 2 |
| 10 6N5/2.2  | 265          | 265 | 525  | 28           | 1         | 300                 | 300 | 935 | 47,5         | 2         | 300                 | 300  | 935  | 44           | 44        | 2 |
| 10 8N5/3.0  | 300          | 300 | 825  | 34,6         | 2         | -                   | -   | -   | -            | -         | 400                 | 400  | 1047 | 60           | 60        | 2 |
| 10 10N5/4.0 | 300          | 300 | 825  | 35,5         | 2         | -                   | -   | -   | -            | -         | 400                 | 400  | 1047 | 71,6         | 75,3      | 2 |
| 10 11N5/4.0 | 300          | 300 | 825  | 38           | 2         | -                   | -   | -   | -            | -         | 400                 | 400  | 1047 | 74,1         | 77,8      | 2 |
| 10 12N5/5.5 | 400          | 400 | 1047 | 46           | 2         | -                   | -   | -   | -            | -         | 480                 | 480  | 1297 | 96,1         | 96,1      | 2 |
| 10 14N5/5.5 | 400          | 400 | 1047 | 48,5         | 2         | -                   | -   | -   | -            | -         | 480                 | 480  | 1297 | 98,6         | 98,6      | 2 |
| 10 15F5/5.5 | 400          | 400 | 1047 | 52,5         | 2         | -                   | -   | -   | -            | -         | 410                 | 1350 | 542  | 106,1        | 106,1     | 3 |
| 10 16F5/7.5 | 400          | 400 | 1047 | 54,5         | 2         | -                   | -   | -   | -            | -         | 410                 | 1350 | 542  | -            | 111,4     | 3 |
| 10 18F5/7.5 | 400          | 400 | 1047 | 56,5         | 2         | -                   | -   | -   | -            | -         | 410                 | 1350 | 542  | -            | 113,4     | 3 |
| 10 20F5/7.5 | 400          | 400 | 1230 | 59,5         | 2         | -                   | -   | -   | -            | -         | 410                 | 1350 | 542  | -            | 113,4     | 3 |
| 10 22F5/11  | 400          | 400 | 1230 | 65,5         | 2         | -                   | -   | -   | -            | -         | 610                 | 1750 | 597  | -            | 173,3     | 3 |
| 18 2F5/2.2  | 400          | 400 | 780  | 32,5         | 2         | 300                 | 300 | 825 | 51,0         | 2         | 400                 | 700  | 780  | 48,5         | 48,5      | 2 |
| 18 3F5/3.0  | 400          | 400 | 780  | 34           | 2         | -                   | -   | -   | -            | -         | 400                 | 400  | 1047 | 58,5         | 58,5      | 2 |
| 18 4F5/4.0  | 400          | 400 | 780  | 36,5         | 2         | -                   | -   | -   | -            | -         | 400                 | 400  | 1047 | 68,6         | 72,3      | 2 |
| 18 5F5/5.5  | 400          | 400 | 780  | 43,5         | 2         | -                   | -   | -   | -            | -         | 400                 | 400  | 1047 | 91,6         | 91,6      | 2 |
| 18 6F5/5.5  | 400          | 400 | 780  | 46,5         | 2         | -                   | -   | -   | -            | -         | 400                 | 400  | 1047 | 97,6         | 97,6      | 2 |
| 18 7F5/7.5  | 400          | 400 | 780  | 49           | 2         | -                   | -   | -   | -            | -         | 400                 | 400  | 1047 | -            | 102,9     | 2 |
| 18 8F5/7.5  | 400          | 400 | 1047 | 50,5         | 2         | -                   | -   | -   | -            | -         | 480                 | 480  | 1297 | -            | 103,4     | 2 |
| 18 10F5/11  | 400          | 400 | 1047 | 61           | 2         | -                   | -   | -   | -            | -         | 500                 | 1350 | 552  | -            | 166,3     | 3 |
| 18 12F5/11  | 400          | 400 | 1047 | 64           | 2         | -                   | -   | -   | -            | -         | 520                 | 1540 | 547  | -            | 170,3     | 3 |
| 18 14F5/15  | 400          | 400 | 1230 | 67,5         | 2         | -                   | -   | -   | -            | -         | 520                 | 1540 | 547  | -            | 176       | 3 |
| 18 15F5/15  | 400          | 400 | 1230 | 68           | 2         | -                   | -   | -   | -            | -         | 520                 | 1540 | 547  | -            | 177       | 3 |
| 18 16F5/15  | 400          | 400 | 1230 | 71           | 2         | -                   | -   | -   | -            | -         | 610                 | 1750 | 597  | -            | 185       | 3 |

(\*) Only for IE3 Motors

**EVM(.) 32**

| Pump type      | Pumps        |      |      |              |        |           | Pumps with motor ~3 |      |      |              |        |                  |        |           |
|----------------|--------------|------|------|--------------|--------|-----------|---------------------|------|------|--------------|--------|------------------|--------|-----------|
|                | Packing [mm] |      |      | Weight [kgf] |        | Pack Type | Packing [mm]        |      |      | Weight [kgf] |        | Weight [kgf] (*) |        | Pack Type |
|                | X            | Y    | Z    | EVM(G)       | EVM(L) |           | X                   | Y    | Z    | EVM(G)       | EVM(L) | EVM(G)           | EVM(L) |           |
| 32 1-0F5/2.2   | 400          | 400  | 780  | 56           | 61     | 2         | 400                 | 400  | 1047 | 74           | 79     | 74               | 79     | 2         |
| 32 2-2F5/3.0   | 400          | 400  | 780  | 58           | 63     | 2         | 400                 | 400  | 1047 | 82,5         | 87,5   | 82,5             | 87,5   | 2         |
| 32 2-0F5/4.0   | 400          | 400  | 780  | 58           | 63     | 2         | 400                 | 400  | 1047 | 90,1         | 95,1   | 93,8             | 98,8   | 2         |
| 32 3-3F5/5.5   | 400          | 400  | 780  | 72           | 79     | 2         | 400                 | 400  | 1047 | 123,6        | 130,6  | 123,6            | 130,6  | 2         |
| 32 3-1F5/5.5   | 400          | 400  | 780  | 72           | 79     | 2         | 400                 | 400  | 1047 | 123,6        | 130,6  | 123,6            | 130,6  | 2         |
| 32 4-3F5/7.5   | 400          | 400  | 780  | 75           | 82     | 2         | 400                 | 400  | 1047 | -            | -      | 129,4            | 136,4  | 2         |
| 32 4-1F5/7.5   | 400          | 400  | 780  | 75           | 82     | 2         | 400                 | 400  | 1047 | -            | -      | 129,4            | 136,4  | 2         |
| 32 5-3F5/11    | 400          | 400  | 1047 | 94           | 103    | 2         | 500                 | 1540 | 540  | -            | -      | 198,3            | 207,3  | 3         |
| 32 5-0F5/11    | 400          | 400  | 1047 | 94           | 103    | 2         | 500                 | 1540 | 540  | -            | -      | 198,3            | 207,3  | 3         |
| 32 6-3F5/11    | 400          | 400  | 1047 | 97           | 106    | 2         | 500                 | 1540 | 540  | -            | -      | 201,3            | 210,3  | 3         |
| 32 6-2F5/11    | 400          | 400  | 1047 | 97           | 106    | 2         | 500                 | 1540 | 540  | -            | -      | 201,3            | 210,3  | 3         |
| 32 7-3F5/15    | 400          | 400  | 1047 | 100          | 109    | 2         | 500                 | 1540 | 540  | -            | -      | 210              | 219    | 3         |
| 32 7-0F5/15    | 400          | 400  | 1047 | 100          | 109    | 2         | 500                 | 1540 | 540  | -            | -      | 210              | 219    | 3         |
| 32 8-3F5/15    | 400          | 400  | 1240 | 105          | 115    | 2         | 500                 | 1540 | 540  | -            | -      | 212              | 222    | 3         |
| 32 8-2F5/15    | 400          | 400  | 1240 | 105          | 115    | 2         | 500                 | 1540 | 540  | -            | -      | 212              | 222    | 3         |
| 32 9-3F5/18.5  | 400          | 400  | 1240 | 108          | 118    | 2         | 610                 | 1750 | 593  | -            | -      | 216              | 226    | 3         |
| 32 9-0F5/18.5  | 400          | 400  | 1240 | 108          | 118    | 2         | 610                 | 1750 | 593  | -            | -      | 216              | 226    | 3         |
| 32 10-3F5/18.5 | 400          | 400  | 1240 | 111          | 122    | 2         | 610                 | 1750 | 593  | -            | -      | 219              | 230    | 3         |
| 32 10-2F5/18.5 | 400          | 400  | 1240 | 111          | 122    | 2         | 610                 | 1750 | 593  | -            | -      | 219              | 230    | 3         |
| 32 11-3F5/22   | 400          | 400  | 1240 | 115          | 126    | 2         | 610                 | 1750 | 593  | -            | -      | 271              | 282    | 3         |
| 32 11-0F5/22   | 400          | 400  | 1240 | 115          | 126    | 2         | 610                 | 1750 | 593  | -            | -      | 271              | 282    | 3         |
| 32 12-3F5/22   | 400          | 1350 | 540  | 122          | 133    | 3         | 635                 | 2130 | 587  | -            | -      | 335              | 346    | 3         |
| 32 13-3F5/30   | 500          | 1350 | 545  | 131          | 143    | 3         | 635                 | 2130 | 587  | -            | -      | 387              | 399    | 3         |
| 32 13-0F5/30   | 500          | 1350 | 545  | 131          | 143    | 3         | 635                 | 2130 | 587  | -            | -      | 387              | 399    | 3         |
| 32 14-3F5/30   | 500          | 1350 | 545  | 134          | 147    | 3         | 635                 | 2130 | 587  | -            | -      | 390              | 403    | 3         |
| 32 14-0F5/30   | 500          | 1350 | 545  | 134          | 147    | 3         | 635                 | 2130 | 587  | -            | -      | 390              | 403    | 3         |

(\*) Only for IE3 Motors

### EVM(.) 45

| Pump type     | Pumps        |      |      |              |        |           | Pumps with motor ~3 |      |      |              |        |                  |        |           |
|---------------|--------------|------|------|--------------|--------|-----------|---------------------|------|------|--------------|--------|------------------|--------|-----------|
|               | Packing [mm] |      |      | Weight [kgf] |        | Pack Type | Packing [mm]        |      |      | Weight [kgf] |        | Weight [kgf] (*) |        | Pack Type |
|               | X            | Y    | Z    | EVM(G)       | EVM(L) |           | X                   | Y    | Z    | EVM(G)       | EVM(L) | EVM(G)           | EVM(L) |           |
| 45 1-1F5/3.0  | 400          | 400  | 780  | 69           | 76     | 2         | 400                 | 400  | 1047 | 93,5         | 100,5  | 93,5             | 100,5  | 2         |
| 45 1-0F5/4.0  | 400          | 400  | 780  | 71           | 78     | 2         | 400                 | 400  | 1047 | 106,6        | 110,1  | 110,3            | 113,8  | 2         |
| 45 2-2F5/5.5  | 400          | 400  | 780  | 79           | 86     | 2         | 400                 | 400  | 1047 | 131,4        | 137,6  | 131,4            | 137,6  | 2         |
| 45 2-0F5/7.5  | 400          | 400  | 780  | 79           | 86     | 2         | 400                 | 400  | 1047 | -            | -      | 133,4            | 140,4  | 2         |
| 45 3-2F5/11   | 400          | 400  | 1047 | 97           | 106    | 2         | 500                 | 1540 | 540  | -            | -      | 201,3            | 210,3  | 3         |
| 45 3-0F5/11   | 400          | 400  | 1047 | 97           | 106    | 2         | 500                 | 1540 | 540  | -            | -      | 201,3            | 210,3  | 3         |
| 45 4-2F5/15   | 400          | 400  | 1047 | 105          | 115    | 2         | 500                 | 1540 | 540  | -            | -      | 203              | 213    | 3         |
| 45 4-0F5/15   | 400          | 400  | 1047 | 105          | 115    | 2         | 500                 | 1540 | 540  | -            | -      | 203              | 213    | 3         |
| 45 5-2F5/18.5 | 400          | 400  | 1240 | 126          | 138    | 2         | 610                 | 1750 | 593  | -            | -      | 234              | 246    | 3         |
| 45 5-0F5/18.5 | 400          | 400  | 1240 | 126          | 138    | 2         | 610                 | 1750 | 593  | -            | -      | 234              | 246    | 3         |
| 45 6-2F5/22   | 400          | 400  | 1240 | 130          | 143    | 2         | 610                 | 1750 | 593  | -            | -      | 286              | 299    | 3         |
| 45 6-0F5/22   | 400          | 400  | 1240 | 130          | 143    | 2         | 610                 | 1750 | 593  | -            | -      | 286              | 299    | 3         |
| 45 7-2F5/30   | 480          | 480  | 1297 | 136          | 149    | 2         | 635                 | 2130 | 587  | -            | -      | 396              | 409    | 3         |
| 45 7-0F5/30   | 480          | 480  | 1297 | 136          | 149    | 2         | 635                 | 2130 | 587  | -            | -      | 396              | 409    | 3         |
| 45 8-2F5/30   | 500          | 1350 | 545  | 147          | 160    | 3         | 635                 | 2130 | 587  | -            | -      | 403              | 416    | 3         |
| 45 8-0F5/30   | 500          | 1350 | 545  | 147          | 160    | 3         | 635                 | 2130 | 587  | -            | -      | 403              | 416    | 3         |
| 45 9-2F5/30   | 500          | 1350 | 545  | 151          | 165    | 3         | 635                 | 2130 | 587  | -            | -      | 407              | 421    | 3         |
| 45 9-0F5/37   | 610          | 1750 | 593  | 158          | 172    | 3         | 635                 | 2130 | 587  | -            | -      | 421              | 435    | 3         |
| 45 10-2F5/37  | 610          | 1750 | 593  | 162          | 177    | 3         | 635                 | 2130 | 587  | -            | -      | 425              | 440    | 3         |
| 45 10-0F5/37  | 610          | 1750 | 593  | 162          | 177    | 3         | 635                 | 2130 | 587  | -            | -      | 425              | 440    | 3         |

(\*) Only for IE3 Motors

**EVM(.) 64**

| Pump type     | Pumps        |     |      |              |        |           | Pumps with motor ~3 |      |      |              |        |              |            |           |
|---------------|--------------|-----|------|--------------|--------|-----------|---------------------|------|------|--------------|--------|--------------|------------|-----------|
|               | Packing [mm] |     |      | Weight [kgf] |        | Pack Type | Packing [mm]        |      |      | Weight [kgf] |        | Weight [kgf] |            | Pack Type |
|               | X            | Y   | Z    | EVM(G)       | EVM(L) |           | X                   | Y    | Z    | EVM(G)       | EVM(L) | (*) EVM(G)   | (*) EVM(L) |           |
| 64 1-1F5/4.0  | 400          | 400 | 780  | 69           | 76     | 2         | 400                 | 400  | 1047 | 101,1        | 108,1  | 104,8        | 111,8      | 2         |
| 64 1-0F5/5.5  | 400          | 400 | 780  | 75           | 82     | 2         | 400                 | 400  | 1047 | 126,6        | 133,6  | 126,6        | 133,6      | 2         |
| 64 2-2F5/7.5  | 400          | 400 | 780  | 79           | 87     | 2         | 400                 | 400  | 1047 | -            | -      | 133,4        | 140,4      | 2         |
| 64 2-1F5/11   | 400          | 400 | 1047 | 92           | 100    | 2         | 500                 | 1350 | 545  | -            | -      | 196,3        | 205,3      | 3         |
| 64 2-0F5/11   | 400          | 400 | 1047 | 92           | 100    | 2         | 500                 | 1350 | 545  | -            | -      | 196,3        | 205,3      | 3         |
| 64 3-3F5/15   | 400          | 400 | 1047 | 97           | 106    | 2         | 500                 | 1540 | 540  | -            | -      | 208          | 217        | 3         |
| 64 3-2F5/15   | 400          | 400 | 1047 | 97           | 106    | 2         | 500                 | 1540 | 540  | -            | -      | 208          | 217        | 3         |
| 64 3-1F5/15   | 400          | 400 | 1047 | 97           | 106    | 2         | 500                 | 1540 | 540  | -            | -      | 208          | 217        | 3         |
| 64 3-0F5/18.5 | 400          | 400 | 1047 | 97           | 106    | 2         | 500                 | 1540 | 540  | -            | -      | 202          | 211        | 3         |
| 64 4-3F5/18.5 | 400          | 400 | 1047 | 105          | 115    | 2         | 500                 | 1540 | 540  | -            | -      | 210          | 220        | 3         |
| 64 4-2F5/18.5 | 400          | 400 | 1047 | 105          | 115    | 2         | 500                 | 1540 | 540  | -            | -      | 210          | 220        | 3         |
| 64 4-1F5/22   | 400          | 400 | 1047 | 112          | 123    | 2         | 610                 | 1750 | 593  | -            | -      | 271          | 282        | 3         |
| 64 4-0F5/22   | 400          | 400 | 1047 | 112          | 123    | 2         | 610                 | 1750 | 593  | -            | -      | 271          | 282        | 3         |
| 64 5-3F5/30   | 480          | 480 | 1147 | 126          | 138    | 2         | 610                 | 1750 | 593  | -            | -      | 325          | 337        | 3         |
| 64 5-2F5/30   | 480          | 480 | 1147 | 126          | 138    | 2         | 610                 | 1750 | 593  | -            | -      | 325          | 337        | 3         |
| 64 5-1F5/30   | 480          | 480 | 1147 | 126          | 138    | 2         | 610                 | 1750 | 593  | -            | -      | 325          | 337        | 3         |
| 64 5-0F5/30   | 480          | 480 | 1147 | 126          | 138    | 2         | 610                 | 1750 | 593  | -            | -      | 325          | 337        | 3         |
| 64 6-3F5/30   | 480          | 480 | 1297 | 134          | 146    | 2         | 635                 | 2130 | 587  | -            | -      | 394          | 406        | 3         |
| 64 6-2F5/30   | 480          | 480 | 1297 | 134          | 146    | 2         | 635                 | 2130 | 587  | -            | -      | 394          | 406        | 3         |
| 64 6-1F5/37   | 480          | 480 | 1297 | 134          | 146    | 2         | 635                 | 2130 | 587  | -            | -      | 408          | 420        | 3         |
| 64 6-0F5/37   | 480          | 480 | 1297 | 134          | 146    | 2         | 635                 | 2130 | 587  | -            | -      | 408          | 420        | 3         |
| 64 7-3F5/37   | 480          | 480 | 1297 | 136          | 149    | 2         | 635                 | 2130 | 587  | -            | -      | 410          | 423        | 3         |
| 64 7-2F5/37   | 480          | 480 | 1297 | 136          | 149    | 2         | 635                 | 2130 | 587  | -            | -      | 410          | 423        | 3         |
| 64 7-1F5/37   | 480          | 480 | 1297 | 136          | 149    | 2         | 635                 | 2130 | 587  | -            | -      | 410          | 423        | 3         |

(\*) Only for IE3 Motors



MOTOR DATA EVM(.) 10-18

| Pump type    | Motor         |               |      | Efficiency      |                | Capacitor<br>Single phase |     | Input<br>[kW] | Full load efficiency<br>and power-factor |               |             |            |             | Full load current [A] |               |       |       | Locked rotor current [A] |             |       |       |       |
|--------------|---------------|---------------|------|-----------------|----------------|---------------------------|-----|---------------|--|---------------|-------------|------------|-------------|-----------------------|---------------|-------|-------|--------------------------|-------------|-------|-------|-------|
|              | Motor<br>Size | Power<br>[kW] | [HP] | Single<br>Phase | Three<br>Phase | [μF]                      | [V] |               | Single phase                             |               | Three phase |            |             | Single<br>Phase       | Three phase   |       |       | Single<br>Phase          | Three phase |       |       |       |
|              |               |               |      |                 |                |                           |     |               | η %<br>100%                              | cos-φ<br>100% | η %<br>50%  | η %<br>75% | η %<br>100% |                       | cos-φ<br>100% | 230 V | 230 V |                          | 400V        | 690V  | 230 V | 230 V |
| 10 2N5/0.75  | 80            | 0.75          | 1    | -               | IE2            | 25                        | 400 | 0.92          | 65.0                                     | 0.95          | 77.3        | 78.5       | 80.5        | 0.78                  | 5.3           | 2.9   | 1.7   | -                        | 28.1        | 19.4  | 11.9  | -     |
|              |               |               |      | -               | IE3            | -                         | -   | 0.92          | -  | -             | 77.8        | 81.2       | 82.0        | 0.78                  | -             | 2.9   | 1.7   | -                        | -           | 26.1  | 15.1  | -     |
| 10 3N5/1.1   | 80            | 1.1           | 1.5  | -               | IE2            | 36                        | 400 | 1.35          | 74.0                                     | 0.97          | 79.5        | 81.2       | 81.5        | 0.78                  | 6.5           | 4.3   | 2.5   | -                        | 26.0        | 29.4  | 17.0  | -     |
|              |               |               |      | -               | IE3            | -                         | -   | 1.26          | -  | -             | 78.7        | 81.7       | 82.7        | 0.76                  | -             | 4.2   | 2.4   | -                        | -           | 38.7  | 22.3  | -     |
| ♦ 10 4N5/1.5 | 90S           | 1.5           | 2    | -               | IE2            | 35                        | 400 | 1.77          | 79.0                                     | 0.97          | 81.0        | 82.8       | 82.8        | 0.80                  | 8.8           | 5.5   | 3.2   | -                        | 46.0        | 44.9  | 25.9  | -     |
|              |               |               |      | -               | IE3            | -                         | -   | 1.77          | -  | -             | 83.2        | 84.8       | 84.2        | 0.85                  | -             | 5.2   | 3.0   | -                        | -           | 43.6  | 25.2  | -     |
| ♦ 10 5N5/2.2 | 90L           | 2.2           | 3    | -               | IE2            | 40                        | 400 | 2.59          | 78.0                                     | 0.97          | 82.5        | 84.0       | 84.0        | 0.85                  | 12.9          | 7.6   | 4.4   | -                        | 61.0        | 64.8  | 37.4  | -     |
|              |               |               |      | -               | IE3            | -                         | -   | 2.61          | -  | -             | 85.0        | 86.2       | 86.5        | 0.82                  | -             | 8.0   | 4.6   | -                        | -           | 73.3  | 42.3  | -     |
| ♦ 10 6N5/2.2 | 90L           | 2.2           | 3    | -               | IE2            | 40                        | 400 | 2.59          | 78.0                                     | 0.97          | 82.5        | 84.0       | 84.0        | 0.85                  | 12.9          | 7.6   | 4.4   | -                        | 61.0        | 64.8  | 37.4  | -     |
|              |               |               |      | -               | IE3            | -                         | -   | 2.61          | -  | -             | 85.0        | 86.2       | 86.5        | 0.82                  | -             | 8.0   | 4.6   | -                        | -           | 73.3  | 42.3  | -     |
| 10 8N5/3.0   | 100L          | 3             | 4    | -               | IE2            | -                         | -   | 3.43          | -  | -             | 84.1        | 85.8       | 85.5        | 0.84                  | -             | 10.2  | 5.9   | -                        | -           | 81.8  | 47.2  | -     |
|              |               |               |      | -               | IE3            | -                         | -   | 3.45          | -  | -             | 82.3        | 85.8       | 87.1        | 0.89                  | -             | 9.7   | 5.6   | -                        | -           | 85.4  | 49.3  | -     |
| 10 10N5/4.0  | 112M          | 4             | 5.5  | -               | IE2            | -                         | -   | 4.65          | -  | -             | 85.2        | 86.4       | 86.1        | 0.86                  | -             | 13.5  | 7.8   | -                        | -           | 110.9 | 64.0  | -     |
|              |               |               |      | -               | IE3            | -                         | -   | 4.51          | -  | -             | 86.8        | 87.8       | 88.1        | 0.93                  | -             | 12.1  | 7.0   | -                        | -           | 116.4 | 67.2  | -     |
| 10 11N5/4.0  | 112M          | 4             | 5.5  | -               | IE2            | -                         | -   | 4.65          | -  | -             | 85.2        | 86.4       | 86.1        | 0.86                  | -             | 13.5  | 7.8   | -                        | -           | 110.9 | 64.0  | -     |
|              |               |               |      | -               | IE3            | -                         | -   | 4.51          | -  | -             | 86.8        | 87.8       | 88.1        | 0.93                  | -             | 12.1  | 7.0   | -                        | -           | 116.4 | 67.2  | -     |
| 10 12N5/5.5  | 132S          | 5.5           | 7.5  | -               | IE2            | -                         | -   | 6.34          | -  | -             | 85.8        | 87.4       | 87.3        | 0.88                  | -             | -     | 10.4  | 6.0                      | -           | -     | 83.2  | 48.0  |
|              |               |               |      | -               | IE3            | -                         | -   | 6.24          | -  | -             | 88.0        | 88.5       | 89.2        | 0.90                  | -             | -     | 10.0  | 5.8                      | -           | -     | 89.0  | 51.4  |
| 10 14N5/5.5  | 132S          | 5.5           | 7.5  | -               | IE2            | -                         | -   | 6.34          | -  | -             | 85.8        | 87.4       | 87.3        | 0.88                  | -             | -     | 10.4  | 6.0                      | -           | -     | 83.2  | 48.0  |
|              |               |               |      | -               | IE3            | -                         | -   | 6.24          | -  | -             | 88.0        | 88.5       | 89.2        | 0.90                  | -             | -     | 10.0  | 5.8                      | -           | -     | 89.0  | 51.4  |
| 10 15F5/5.5  | 132S          | 5.5           | 7.5  | -               | IE2            | -                         | -   | 6.34          | -  | -             | 85.8        | 87.4       | 87.3        | 0.88                  | -             | -     | 10.4  | 6.0                      | -           | -     | 83.2  | 48.0  |
|              |               |               |      | -               | IE3            | -                         | -   | 6.24          | -  | -             | 88.0        | 88.5       | 89.2        | 0.90                  | -             | -     | 10.0  | 5.8                      | -           | -     | 89.0  | 51.4  |
| 10 16F5/7.5  | 132S          | 7.5           | 10   | -               | IE3            | -                         | -   | 8.35          | -  | -             | 88.6        | 89.2       | 90.1        | 0.92                  | -             | -     | 13.1  | 7.6                      | -           | -     | 116.6 | 67.3  |
| 10 18F5/7.5  | 132S          | 7.5           | 10   | -               | IE3            | -                         | -   | 8.35          | -  | -             | 88.6        | 89.2       | 90.1        | 0.92                  | -             | -     | 13.1  | 7.6                      | -           | -     | 116.6 | 67.3  |
| 10 20F5/7.5  | 132S          | 7.5           | 10   | -               | IE3            | -                         | -   | 8.35          | -  | -             | 88.6        | 89.2       | 90.1        | 0.92                  | -             | -     | 13.1  | 7.6                      | -           | -     | 116.6 | 67.3  |
| 10 22F5/11   | 160M          | 11            | 15   | -               | IE3            | -                         | -   | 12.15         | -  | -             | 87.4        | 89.8       | 91.2        | 0.89                  | -             | -     | 19.7  | 11.4                     | -           | -     | 179.3 | 103.5 |
| ♦ 18 2F5/2.2 | 90L           | 2.2           | 3    | -               | IE2            | 40                        | 400 | 2.59          | 78.0                                     | 0.97          | 82.5        | 84.0       | 84.0        | 0.85                  | 12.9          | 7.6   | 4.4   | -                        | 61.0        | 64.8  | 37.4  | -     |
|              |               |               |      | -               | IE3            | -                         | -   | 2.61          | -  | -             | 85.0        | 86.2       | 86.5        | 0.82                  | -             | 8.0   | 4.6   | -                        | -           | 73.3  | 42.3  | -     |
| 18 3F5/3.0   | 100L          | 3             | 4    | -               | IE2            | -                         | -   | 3.43          | -  | -             | 84.1        | 85.8       | 85.5        | 0.84                  | -             | 10.2  | 5.9   | -                        | -           | 81.8  | 47.2  | -     |
|              |               |               |      | -               | IE3            | -                         | -   | 3.45          | -  | -             | 82.3        | 85.8       | 87.1        | 0.89                  | -             | 9.7   | 5.6   | -                        | -           | 85.4  | 49.3  | -     |
| 18 4F5/4.0   | 112M          | 4             | 5.5  | -               | IE2            | -                         | -   | 4.65          | -  | -             | 85.2        | 86.4       | 86.1        | 0.86                  | -             | 13.5  | 7.8   | -                        | -           | 110.9 | 64.0  | -     |
|              |               |               |      | -               | IE3            | -                         | -   | 4.51          | -  | -             | 86.8        | 87.8       | 88.1        | 0.93                  | -             | 12.1  | 7.0   | -                        | -           | 116.4 | 67.2  | -     |
| 18 5F5/5.5   | 132S          | 5.5           | 7.5  | -               | IE2            | -                         | -   | 6.34          | -  | -             | 85.8        | 87.4       | 87.3        | 0.88                  | -             | -     | 10.4  | 6.0                      | -           | -     | 83.2  | 48.0  |
|              |               |               |      | -               | IE3            | -                         | -   | 6.24          | -  | -             | 88.0        | 88.5       | 89.2        | 0.90                  | -             | -     | 10.0  | 5.8                      | -           | -     | 89.0  | 51.4  |
| 18 6F5/5.5   | 132S          | 5.5           | 7.5  | -               | IE2            | -                         | -   | 6.34          | -  | -             | 85.8        | 87.4       | 87.3        | 0.88                  | -             | -     | 10.4  | 6.0                      | -           | -     | 83.2  | 48.0  |
|              |               |               |      | -               | IE3            | -                         | -   | 6.24          | -  | -             | 88.0        | 88.5       | 89.2        | 0.90                  | -             | -     | 10.0  | 5.8                      | -           | -     | 89.0  | 51.4  |
| 18 7F5/7.5   | 132S          | 7.5           | 10   | -               | IE3            | -                         | -   | 8.35          | -  | -             | 88.6        | 89.2       | 90.1        | 0.92                  | -             | -     | 13.1  | 7.6                      | -           | -     | 116.6 | 67.3  |
| 18 8F5/7.5   | 132S          | 7.5           | 10   | -               | IE3            | -                         | -   | 8.35          | -  | -             | 88.6        | 89.2       | 90.1        | 0.92                  | -             | -     | 13.1  | 7.6                      | -           | -     | 116.6 | 67.3  |
| 18 10F5/11   | 160M          | 11            | 15   | -               | IE3            | -                         | -   | 12.15         | -  | -             | 87.4        | 89.8       | 91.2        | 0.89                  | -             | -     | 19.7  | 11.4                     | -           | -     | 179.3 | 103.5 |
| 18 12F5/11   | 160M          | 11            | 15   | -               | IE3            | -                         | -   | 12.15         | -  | -             | 87.4        | 89.8       | 91.2        | 0.89                  | -             | -     | 19.7  | 11.4                     | -           | -     | 179.3 | 103.5 |
| 18 14F5/15   | 160M          | 15            | 20   | -               | IE3            | -                         | -   | 16.46         | -  | -             | 91.0        | 91.3       | 91.9        | 0.89                  | -             | -     | 26.7  | 15.4                     | -           | -     | 259.0 | 149.5 |
| 18 15F5/15   | 160M          | 15            | 20   | -               | IE3            | -                         | -   | 16.46         | -  | -             | 91.0        | 91.3       | 91.9        | 0.89                  | -             | -     | 26.7  | 15.4                     | -           | -     | 259.0 | 149.5 |
| 18 16F5/15   | 160M          | 15            | 20   | -               | IE3            | -                         | -   | 16.46         | -  | -             | 91.0        | 91.3       | 91.9        | 0.89                  | -             | -     | 26.7  | 15.4                     | -           | -     | 259.0 | 149.5 |

♦ Single phase motors manufactured by Ebara

EVM(.) 32

| Pump type      | Motor      |       |      | Efficiency | Input [kW] | Full load efficiency and power-factor |      |      |            | Full load current [A] |      |      | Locked rotor current [A] |       |       |
|----------------|------------|-------|------|------------|------------|---------------------------------------|------|------|------------|-----------------------|------|------|--------------------------|-------|-------|
|                | Motor size | Power |      |            |            | 50%                                   | η %  |      | cos-φ 100% | 230 V                 | 400V | 690V | 230 V                    | 400V  | 690V  |
|                |            | [kW]  | [HP] |            |            |                                       | 75%  | 100% |            |                       |      |      |                          |       |       |
| 32 1-0F5/2.2   | 90L        | 2.2   | 3    | IE2        | 2.59       | 82.5                                  | 84.0 | 84.0 | 0.85       | 7.6                   | 4.4  | -    | 64.8                     | 37.4  | -     |
|                |            |       |      | IE3        | 2.61       | 85.0                                  | 86.2 | 86.5 | 0.82       | 8.0                   | 4.6  | -    | 73.3                     | 42.3  | -     |
| 32 2-2F5/3.0   | 100L       | 3     | 4    | IE2        | 3.43       | 84.1                                  | 85.8 | 85.5 | 0.84       | 10.2                  | 5.9  | -    | 81.8                     | 47.2  | -     |
|                |            |       |      | IE3        | 3.45       | 82.3                                  | 85.8 | 87.1 | 0.89       | 9.7                   | 5.6  | -    | 85.4                     | 49.3  | -     |
| 32 2-0F5/4.0   | 112M       | 4     | 5.5  | IE2        | 4.65       | 85.2                                  | 86.4 | 86.1 | 0.86       | 13.5                  | 7.8  | -    | 110.9                    | 64.0  | -     |
|                |            |       |      | IE3        | 4.51       | 86.8                                  | 87.8 | 88.1 | 0.93       | 12.1                  | 7.0  | -    | 116.4                    | 67.2  | -     |
| 32 3-3F5/5.5   | 132S       | 5.5   | 7.5  | IE2        | 6.34       | 85.8                                  | 87.4 | 87.3 | 0.88       | -                     | 10.4 | 6.0  | -                        | 83.2  | 48.0  |
|                |            |       |      | IE3        | 6.24       | 88.0                                  | 88.5 | 89.2 | 0.90       | -                     | 10.0 | 5.8  | -                        | 89.0  | 51.4  |
| 32 3-1F5/5.5   | 132S       | 5.5   | 7.5  | IE2        | 6.34       | 85.8                                  | 87.4 | 87.3 | 0.88       | -                     | 10.4 | 6.0  | -                        | 83.2  | 48.0  |
|                |            |       |      | IE3        | 6.24       | 88.0                                  | 88.5 | 89.2 | 0.90       | -                     | 10.0 | 5.8  | -                        | 89.0  | 51.4  |
| 32 4-3F5/7.5   | 132S       | 7.5   | 10   | IE3        | 8.35       | 88.6                                  | 89.2 | 90.1 | 0.92       | -                     | 13.1 | 7.6  | -                        | 116.6 | 67.3  |
| 32 4-1F5/7.5   | 132S       | 7.5   | 10   | IE3        | 8.35       | 88.6                                  | 89.2 | 90.1 | 0.92       | -                     | 13.1 | 7.6  | -                        | 116.6 | 67.3  |
| 32 5-3F5/11    | 160M       | 11    | 15   | IE3        | 12.15      | 87.4                                  | 89.8 | 91.2 | 0.89       | -                     | 19.7 | 11.4 | -                        | 179.3 | 103.5 |
| 32 5-0F5/11    | 160M       | 11    | 15   | IE3        | 12.15      | 87.4                                  | 89.8 | 91.2 | 0.89       | -                     | 19.7 | 11.4 | -                        | 179.3 | 103.5 |
| 32 6-3F5/11    | 160M       | 11    | 15   | IE3        | 12.15      | 87.4                                  | 89.8 | 91.2 | 0.89       | -                     | 19.7 | 11.4 | -                        | 179.3 | 103.5 |
| 32 6-2F5/11    | 160M       | 11    | 15   | IE3        | 12.15      | 87.4                                  | 89.8 | 91.2 | 0.89       | -                     | 19.7 | 11.4 | -                        | 179.3 | 103.5 |
| 32 7-3F5/15    | 160M       | 15    | 20   | IE3        | 16.46      | 91.0                                  | 91.3 | 91.9 | 0.89       | -                     | 26.7 | 15.4 | -                        | 259.0 | 149.5 |
| 32 7-0F5/15    | 160M       | 15    | 20   | IE3        | 16.46      | 91.0                                  | 91.3 | 91.9 | 0.89       | -                     | 26.7 | 15.4 | -                        | 259.0 | 149.5 |
| 32 8-3F5/15    | 160M       | 15    | 20   | IE3        | 16.46      | 91.0                                  | 91.3 | 91.9 | 0.89       | -                     | 26.7 | 15.4 | -                        | 259.0 | 149.5 |
| 32 8-2F5/15    | 160M       | 15    | 20   | IE3        | 16.46      | 91.0                                  | 91.3 | 91.9 | 0.89       | -                     | 26.7 | 15.4 | -                        | 259.0 | 149.5 |
| 32 9-3F5/18.5  | 160L       | 18.5  | 25   | IE3        | 20.12      | 91.6                                  | 92.8 | 92.4 | 0.88       | -                     | 33.0 | 19.1 | -                        | 353.1 | 203.9 |
| 32 9-0F5/18.5  | 160L       | 18.5  | 25   | IE3        | 20.12      | 91.6                                  | 92.8 | 92.4 | 0.88       | -                     | 33.0 | 19.1 | -                        | 353.1 | 203.9 |
| 32 10-3F5/18.5 | 160L       | 18.5  | 25   | IE3        | 20.12      | 91.6                                  | 92.8 | 92.4 | 0.88       | -                     | 33.0 | 19.1 | -                        | 353.1 | 203.9 |
| 32 10-2F5/18.5 | 160L       | 18.5  | 25   | IE3        | 20.12      | 91.6                                  | 92.8 | 92.4 | 0.88       | -                     | 33.0 | 19.1 | -                        | 353.1 | 203.9 |
| 32 11-3F5/22   | 180M       | 22    | 30   | IE3        | 23.69      | 92.3                                  | 92.9 | 92.9 | 0.90       | -                     | 38.0 | 22.0 | -                        | 361.0 | 209.0 |
| 32 11-0F5/22   | 180M       | 22    | 30   | IE3        | 23.69      | 92.3                                  | 92.9 | 92.9 | 0.90       | -                     | 38.0 | 22.0 | -                        | 361.0 | 209.0 |
| 32 12-3F5/22   | 180M       | 22    | 30   | IE3        | 23.69      | 92.3                                  | 92.9 | 92.9 | 0.90       | -                     | 38.0 | 22.0 | -                        | 361.0 | 209.0 |
| 32 13-3F5/30   | 200L       | 30    | 40   | IE3        | 31.94      | 92.8                                  | 93.9 | 94.0 | 0.89       | -                     | 51.8 | 30.0 | -                        | 459.0 | 270.0 |
| 32 13-0F5/30   | 200L       | 30    | 40   | IE3        | 31.94      | 92.8                                  | 93.9 | 94.0 | 0.89       | -                     | 51.8 | 30.0 | -                        | 459.0 | 270.0 |
| 32 14-3F5/30   | 200L       | 30    | 40   | IE3        | 31.94      | 92.8                                  | 93.9 | 94.0 | 0.89       | -                     | 51.8 | 30.0 | -                        | 459.0 | 270.0 |
| 32 14-0F5/30   | 200L       | 30    | 40   | IE3        | 31.94      | 92.8                                  | 93.9 | 94.0 | 0.89       | -                     | 51.8 | 30.0 | -                        | 459.0 | 270.0 |

### EVM(.) 45

| Pump type     | Motor      |       |      | Efficiency | Input [kW] | Full load efficiency and power-factor |      |      |       | Full load current [A] |      |      | Locked rotor current [A] |       |       |
|---------------|------------|-------|------|------------|------------|---------------------------------------|------|------|-------|-----------------------|------|------|--------------------------|-------|-------|
|               | Motor size | Power |      |            |            | 50%                                   | η %  |      | cos-φ | 230 V                 | 400V | 690V | 230 V                    | 400V  | 690V  |
|               |            | [kW]  | [HP] |            |            |                                       | 75%  | 100% |       |                       |      |      |                          |       |       |
| 45 1-1F5/3.0  | 100L       | 3     | 4    | IE2        | 3.43       | 84.1                                  | 85.8 | 85.5 | 0.84  | 10.2                  | 5.9  | -    | 81.8                     | 47.2  | -     |
|               |            |       |      | IE3        | 3.45       | 82.3                                  | 85.8 | 87.1 | 0.89  | 9.7                   | 5.6  | -    | 85.4                     | 49.3  | -     |
| 45 1-0F5/4.0  | 112M       | 4     | 5.5  | IE2        | 4.65       | 85.2                                  | 86.4 | 86.1 | 0.86  | 13.5                  | 7.8  | -    | 110.9                    | 64.0  | -     |
|               |            |       |      | IE3        | 4.51       | 86.8                                  | 87.8 | 88.1 | 0.93  | 12.1                  | 7.0  | -    | 116.4                    | 67.2  | -     |
| 45 2-2F5/5.5  | 132S       | 5.5   | 7.5  | IE2        | 6.34       | 85.8                                  | 87.4 | 87.3 | 0.88  | -                     | 10.4 | 6.0  | -                        | 83.2  | 48.0  |
|               |            |       |      | IE3        | 6.24       | 88.0                                  | 88.5 | 89.2 | 0.90  | -                     | 10.0 | 5.8  | -                        | 89.0  | 51.4  |
| 45 2-0F5/7.5  | 132S       | 7.5   | 10   | IE3        | 8.35       | 88.6                                  | 89.2 | 90.1 | 0.92  | -                     | 13.1 | 7.6  | -                        | 116.6 | 67.3  |
| 45 3-2F5/11   | 160M       | 11    | 15   | IE3        | 12.15      | 87.4                                  | 89.8 | 91.2 | 0.89  | -                     | 19.7 | 11.4 | -                        | 179.3 | 103.5 |
| 45 3-0F5/11   | 160M       | 11    | 15   | IE3        | 12.15      | 87.4                                  | 89.8 | 91.2 | 0.89  | -                     | 19.7 | 11.4 | -                        | 179.3 | 103.5 |
| 45 4-2F5/15   | 160M       | 15    | 20   | IE3        | 16.46      | 91.0                                  | 91.3 | 91.9 | 0.89  | -                     | 26.7 | 15.4 | -                        | 259.0 | 149.5 |
| 45 4-0F5/15   | 160M       | 15    | 20   | IE3        | 16.46      | 91.0                                  | 91.3 | 91.9 | 0.89  | -                     | 26.7 | 15.4 | -                        | 259.0 | 149.5 |
| 45 5-2F5/18.5 | 160L       | 18.5  | 25   | IE3        | 20.12      | 91.6                                  | 92.8 | 92.4 | 0.88  | -                     | 33.0 | 19.1 | -                        | 353.1 | 203.9 |
| 45 5-0F5/18.5 | 160L       | 18.5  | 25   | IE3        | 20.12      | 91.6                                  | 92.8 | 92.4 | 0.88  | -                     | 33.0 | 19.1 | -                        | 353.1 | 203.9 |
| 45 6-2F5/22   | 180M       | 22    | 30   | IE3        | 23.69      | 92.3                                  | 92.9 | 92.9 | 0.90  | -                     | 38.0 | 22.0 | -                        | 361.0 | 209.0 |
| 45 6-0F5/22   | 180M       | 22    | 30   | IE3        | 23.69      | 92.3                                  | 92.9 | 92.9 | 0.90  | -                     | 38.0 | 22.0 | -                        | 361.0 | 209.0 |
| 45 7-2F5/30   | 200L       | 30    | 40   | IE3        | 31.94      | 92.8                                  | 93.9 | 94.0 | 0.89  | -                     | 51.8 | 30.0 | -                        | 459.0 | 270.0 |
| 45 7-0F5/30   | 200L       | 30    | 40   | IE3        | 31.94      | 92.8                                  | 93.9 | 94.0 | 0.89  | -                     | 51.8 | 30.0 | -                        | 459.0 | 270.0 |
| 45 8-2F5/30   | 200L       | 30    | 40   | IE3        | 31.94      | 92.8                                  | 93.9 | 94.0 | 0.89  | -                     | 51.8 | 30.0 | -                        | 459.0 | 270.0 |
| 45 8-0F5/30   | 200L       | 30    | 40   | IE3        | 31.94      | 92.8                                  | 93.9 | 94.0 | 0.89  | -                     | 51.8 | 30.0 | -                        | 459.0 | 270.0 |
| 45 9-2F5/30   | 200L       | 30    | 40   | IE3        | 31.94      | 92.8                                  | 93.9 | 94.0 | 0.89  | -                     | 51.8 | 30.0 | -                        | 459.0 | 270.0 |
| 45 9-0F5/37   | 200L       | 37    | 50   | IE3        | 38.97      | 93.0                                  | 93.9 | 93.8 | 0.90  | -                     | 62.5 | 36.0 | -                        | 496.0 | 288.0 |
| 45 10-2F5/37  | 200L       | 37    | 50   | IE3        | 38.97      | 93.0                                  | 93.9 | 93.8 | 0.90  | -                     | 62.5 | 36.0 | -                        | 496.0 | 288.0 |
| 45 10-0F5/37  | 200L       | 37    | 50   | IE3        | 38.97      | 93.0                                  | 93.9 | 93.8 | 0.90  | -                     | 62.5 | 36.0 | -                        | 496.0 | 288.0 |



### EVM(.) 64

| Pump type     | Motor      |       |      | Efficiency | Input [kW] | Full load efficiency and power-factor |      |      |                  | Full load current [A] |      |      | Locked rotor current [A] |       |       |
|---------------|------------|-------|------|------------|------------|---------------------------------------|------|------|------------------|-----------------------|------|------|--------------------------|-------|-------|
|               | Motor size | Power |      |            |            | $\eta$ %                              |      |      | $\cos-\phi$ 100% | 230 V                 | 400V | 690V | 230 V                    | 400V  | 690V  |
|               |            | [kW]  | [HP] |            |            | 50%                                   | 75%  | 100% |                  |                       |      |      |                          |       |       |
| 64 1-1F5/4.0  | 112M       | 4     | 5.5  | IE2        | 4.65       | 85.2                                  | 86.4 | 86.1 | 0.86             | 13.5                  | 7.8  | -    | 110.9                    | 64.0  | -     |
|               |            |       |      | IE3        | 4.51       | 86.8                                  | 87.8 | 88.1 | 0.93             | 12.1                  | 7.0  | -    | 116.4                    | 67.2  | -     |
| 64 1-0F5/5.5  | 132S       | 5.5   | 7.5  | IE2        | 6.34       | 85.8                                  | 87.4 | 87.3 | 0.88             | -                     | 10.4 | 6.0  | -                        | 83.2  | 48.0  |
|               |            |       |      | IE3        | 6.24       | 88.0                                  | 88.5 | 89.2 | 0.90             | -                     | 10.0 | 5.8  | -                        | 89.0  | 51.4  |
| 64 2-2F5/7.5  | 132S       | 7.5   | 10   | IE3        | 8.35       | 88.6                                  | 89.2 | 90.1 | 0.92             | -                     | 13.1 | 7.6  | -                        | 116.6 | 67.3  |
| 64 2-1F5/11   | 160M       | 11    | 15   | IE3        | 12.15      | 87.4                                  | 89.8 | 91.2 | 0.89             | -                     | 19.7 | 11.4 | -                        | 179.3 | 103.5 |
| 64 2-0F5/11   | 160M       | 11    | 15   | IE3        | 12.15      | 87.4                                  | 89.8 | 91.2 | 0.89             | -                     | 19.7 | 11.4 | -                        | 179.3 | 103.5 |
| 64 3-3F5/15   | 160M       | 15    | 20   | IE3        | 16.46      | 91.0                                  | 91.3 | 91.9 | 0.89             | -                     | 26.7 | 15.4 | -                        | 259.0 | 149.5 |
| 64 3-2F5/15   | 160M       | 15    | 20   | IE3        | 16.46      | 91.0                                  | 91.3 | 91.9 | 0.89             | -                     | 26.7 | 15.4 | -                        | 259.0 | 149.5 |
| 64 3-1F5/15   | 160M       | 15    | 20   | IE3        | 16.46      | 91.0                                  | 91.3 | 91.9 | 0.89             | -                     | 26.7 | 15.4 | -                        | 259.0 | 149.5 |
| 64 3-0F5/18.5 | 160L       | 18.5  | 25   | IE3        | 20.12      | 91.6                                  | 92.8 | 92.4 | 0.88             | -                     | 33.0 | 19.1 | -                        | 353.1 | 203.9 |
| 64 4-3F5/18.5 | 160L       | 18.5  | 25   | IE3        | 20.12      | 91.6                                  | 92.8 | 92.4 | 0.88             | -                     | 33.0 | 19.1 | -                        | 353.1 | 203.9 |
| 64 4-2F5/18.5 | 160L       | 18.5  | 25   | IE3        | 20.12      | 91.6                                  | 92.8 | 92.4 | 0.88             | -                     | 33.0 | 19.1 | -                        | 353.1 | 203.9 |
| 64 4-1F5/22   | 180M       | 22    | 30   | IE3        | 23.69      | 92.3                                  | 92.9 | 92.9 | 0.90             | -                     | 38.0 | 22.0 | -                        | 361.0 | 209.0 |
| 64 4-0F5/22   | 180M       | 22    | 30   | IE3        | 23.69      | 92.3                                  | 92.9 | 92.9 | 0.90             | -                     | 38.0 | 22.0 | -                        | 361.0 | 209.0 |
| 64 5-3F5/30   | 200L       | 30    | 40   | IE3        | 31.94      | 92.8                                  | 93.9 | 94.0 | 0.89             | -                     | 51.8 | 30.0 | -                        | 459.0 | 270.0 |
| 64 5-2F5/30   | 200L       | 30    | 40   | IE3        | 31.94      | 92.8                                  | 93.9 | 94.0 | 0.89             | -                     | 51.8 | 30.0 | -                        | 459.0 | 270.0 |
| 64 5-1F5/30   | 200L       | 30    | 40   | IE3        | 31.94      | 92.8                                  | 93.9 | 94.0 | 0.89             | -                     | 51.8 | 30.0 | -                        | 459.0 | 270.0 |
| 64 5-0F5/30   | 200L       | 30    | 40   | IE3        | 31.94      | 92.8                                  | 93.9 | 94.0 | 0.89             | -                     | 51.8 | 30.0 | -                        | 459.0 | 270.0 |
| 64 6-3F5/30   | 200L       | 30    | 40   | IE3        | 31.94      | 92.8                                  | 93.9 | 94.0 | 0.89             | -                     | 51.8 | 30.0 | -                        | 459.0 | 270.0 |
| 64 6-2F5/30   | 200L       | 30    | 40   | IE3        | 31.94      | 92.8                                  | 93.9 | 94.0 | 0.89             | -                     | 51.8 | 30.0 | -                        | 459.0 | 270.0 |
| 64 6-1F5/37   | 200L       | 37    | 50   | IE3        | 38.97      | 93.0                                  | 93.9 | 93.8 | 0.90             | -                     | 62.5 | 36.0 | -                        | 496.0 | 288.0 |
| 64 6-0F5/37   | 200L       | 37    | 50   | IE3        | 38.97      | 93.0                                  | 93.9 | 93.8 | 0.90             | -                     | 62.5 | 36.0 | -                        | 496.0 | 288.0 |
| 64 7-3F5/37   | 200L       | 37    | 50   | IE3        | 38.97      | 93.0                                  | 93.9 | 93.8 | 0.90             | -                     | 62.5 | 36.0 | -                        | 496.0 | 288.0 |
| 64 7-2F5/37   | 200L       | 37    | 50   | IE3        | 38.97      | 93.0                                  | 93.9 | 93.8 | 0.90             | -                     | 62.5 | 36.0 | -                        | 496.0 | 288.0 |
| 64 7-1F5/37   | 200L       | 37    | 50   | IE3        | 38.97      | 93.0                                  | 93.9 | 93.8 | 0.90             | -                     | 62.5 | 36.0 | -                        | 496.0 | 288.0 |

### NOISE DATA EVM

| Pump type    | Motor      |                 | L <sub>pA</sub> - dB(A) * |
|--------------|------------|-----------------|---------------------------|
|              | Motor Size | Power [kW] [HP] |                           |
| 3 2N5/0.37   | 71         | 0.37 0.5        | <70                       |
| 3 3N5/0.37   | 71         | 0.37 0.5        |                           |
| 3 4N5 0.55   | 71         | 0.55 0.75       |                           |
| 3 5N5/0.55   | 71         | 0.55 0.75       |                           |
| 3 6N5/0.75   | 80         | 0.75 1          |                           |
| 3 7N5/0.75   | 80         | 0.75 1          |                           |
| 3 9N5/1.1    | 80         | 1.1 1.5         |                           |
| 3 11N5/1.1   | 80         | 1.1 1.5         |                           |
| ◆ 3 13N5/1.5 | 90S        | 1.5 2           |                           |
| ◆ 3 15N5/1.5 | 90S        | 1.5 2           |                           |
| ◆ 3 18F5/2.2 | 90L        | 2.2 3           |                           |
| ◆ 3 22F5/2.2 | 90L        | 2.2 3           |                           |
| 3 26F5/3.0   | 100L       | 3 4             |                           |
| 5 2N5/0.37   | 71         | 0.37 0.5        |                           |
| 5 3N5/0.55   | 71         | 0.55 0.75       |                           |
| 5 4N5/0.75   | 80         | 0.75 1          |                           |
| 5 5N5/1.1    | 80         | 1.1 1.5         |                           |
| 5 6N5/1.1    | 80         | 1.1 1.5         |                           |
| ◆ 5 7N5/1.5  | 90S        | 1.5 2           |                           |
| ◆ 5 8N5/1.5  | 90S        | 1.5 2           |                           |
| ◆ 5 10N5/2.2 | 90L        | 2.2 3           |                           |
| ◆ 5 11N5/2.2 | 90L        | 2.2 3           |                           |
| ◆ 5 12N5/2.2 | 90L        | 2.2 3           |                           |
| 5 14N5/3.0   | 100L       | 3 4             |                           |
| 5 16N5/3.0   | 100L       | 3 4             |                           |
| 5 18F5/4.0   | 112M       | 4 5.5           |                           |
| 5 19F5/4.0   | 112M       | 4 5.5           |                           |
| 5 22F5/4.0   | 112M       | 4 5.5           |                           |
| 5 24F5/5.5   | 132S       | 5.5 7.5         |                           |
| 10 2N5/0.75  | 80         | 0.75 1          |                           |
| 10 3N5/1.1   | 80         | 1.1 1.5         |                           |
| ◆ 10 4N5/1.5 | 90S        | 1.5 2           |                           |
| ◆ 10 5N5/2.2 | 90L        | 2.2 3           |                           |
| ◆ 10 6N5/2.2 | 90L        | 2.2 3           |                           |
| 10 8N5/3.0   | 100L       | 3 4             |                           |
| 10 10N5/4.0  | 112M       | 4 5.5           |                           |
| 10 11N5/4.0  | 112M       | 4 5.5           |                           |
| 10 12N5/5.5  | 132S       | 5.5 7.5         |                           |
| 10 14N5/5.5  | 132S       | 5.5 7.5         |                           |
| 10 15F5/5.5  | 132S       | 5.5 7.5         |                           |
| 10 16F5/7.5  | 132S       | 7.5 10          |                           |
| 10 18F5/7.5  | 132S       | 7.5 10          |                           |
| 10 20F5/7.5  | 132S       | 7.5 10          |                           |
| 10 22F5/11   | 160M       | 11 15           |                           |

| Pump type      | Motor      |                 | L <sub>pA</sub> - dB(A) * |
|----------------|------------|-----------------|---------------------------|
|                | Motor Size | Power [kW] [HP] |                           |
| ◆ 18 2F5/2.2   | 90L        | 2.2 3           | <70                       |
| 18 3F5/3.0     | 100L       | 3 4             |                           |
| 18 4F5/4.0     | 112M       | 4 5.5           |                           |
| 18 5F5/5.5     | 132S       | 5.5 7.5         | 72                        |
| 18 6F5/5.5     | 132S       | 5.5 7.5         |                           |
| 18 7F5/7.5     | 132S       | 7.5 10          |                           |
| 18 8F5/7.5     | 132S       | 7.5 10          |                           |
| 18 10F5/11     | 160M       | 11 15           |                           |
| 18 12F5/11     | 160M       | 11 15           | 74                        |
| 18 14F5/15     | 160M       | 15 20           |                           |
| 18 15F5/15     | 160M       | 15 20           |                           |
| 18 16F5/15     | 160M       | 15 20           |                           |
| 32 1-0F5/2.2   | 90L        | 2.2 3           | <70                       |
| 32 2-2F5/3.0   | 100L       | 3 4             |                           |
| 32 2-0F5/4.0   | 112M       | 4 5.5           | 72                        |
| 32 3-3F5/5.5   | 132S       | 5.5 7.5         |                           |
| 32 3-1F5/5.5   | 132S       | 5.5 7.5         |                           |
| 32 4-3F5/7.5   | 132S       | 7.5 10          |                           |
| 32 4-1F5/7.5   | 132S       | 7.5 10          |                           |
| 32 5-3F5/11    | 160M       | 11 15           | 74                        |
| 32 5-0F5/11    | 160M       | 11 15           |                           |
| 32 6-3F5/11    | 160M       | 11 15           |                           |
| 32 6-2F5/11    | 160M       | 11 15           |                           |
| 32 7-3F5/15    | 160M       | 15 20           |                           |
| 32 7-0F5/15    | 160M       | 15 20           |                           |
| 32 8-3F5/15    | 160M       | 15 20           |                           |
| 32 8-2F5/15    | 160M       | 15 20           |                           |
| 32 9-3F5/18.5  | 160L       | 18.5 25         |                           |
| 32 9-0F5/18.5  | 160L       | 18.5 25         |                           |
| 32 10-3F5/18.5 | 160L       | 18.5 25         |                           |
| 32 10-2F5/18.5 | 160L       | 18.5 25         |                           |
| 32 11-3F5/22   | 180M       | 22 30           |                           |
| 32 11-0F5/22   | 180M       | 22 30           |                           |
| 32 12-3F5/22   | 180M       | 22 30           |                           |
| 32 13-3F5/30   | 200L       | 30 40           |                           |
| 32 13-0F5/30   | 200L       | 30 40           |                           |
| 32 14-3F5/30   | 200L       | 30 40           |                           |
| 32 14-0F5/30   | 200L       | 30 40           |                           |

| Pump type     | Motor      |                 | L <sub>pA</sub> - dB(A) * |
|---------------|------------|-----------------|---------------------------|
|               | Motor Size | Power [kW] [HP] |                           |
| 45 1-1F5/3.0  | 100L       | 3 4             | <70                       |
| 45 1-0F5/4.0  | 112M       | 4 5.5           |                           |
| 45 2-2F5/5.5  | 132S       | 5.5 7.5         | 72                        |
| 45 2-0F5/7.5  | 132S       | 7.5 10          |                           |
| 45 3-2F5/11   | 160M       | 11 15           | 74                        |
| 45 3-0F5/11   | 160M       | 11 15           |                           |
| 45 4-2F5/15   | 160M       | 15 20           |                           |
| 45 4-0F5/15   | 160M       | 15 20           |                           |
| 45 5-2F5/18.5 | 160L       | 18.5 25         |                           |
| 45 5-0F5/18.5 | 160L       | 18.5 25         | 77                        |
| 45 6-2F5/22   | 180M       | 22 30           |                           |
| 45 6-0F5/22   | 180M       | 22 30           | 78                        |
| 45 7-2F5/30   | 200L       | 30 40           |                           |
| 45 7-0F5/30   | 200L       | 30 40           |                           |
| 45 8-2F5/30   | 200L       | 30 40           |                           |
| 45 8-0F5/30   | 200L       | 30 40           |                           |
| 45 9-2F5/30   | 200L       | 30 40           |                           |
| 45 9-0F5/37   | 200L       | 37 50           |                           |
| 45 10-2F5/37  | 200L       | 37 50           |                           |
| 45 10-0F5/37  | 200L       | 37 50           | <70                       |
| 64 1-1F5/4.0  | 112M       | 4 5.5           |                           |
| 64 1-0F5/5.5  | 132S       | 5.5 7.5         | 72                        |
| 64 2-2F5/7.5  | 132S       | 7.5 10          |                           |
| 64 2-1F5/11   | 160M       | 11 15           | 74                        |
| 64 2-0F5/11   | 160M       | 11 15           |                           |
| 64 3-3F5/15   | 160M       | 15 20           |                           |
| 64 3-2F5/15   | 160M       | 15 20           |                           |
| 64 3-1F5/15   | 160M       | 15 20           |                           |
| 64 3-0F5/18.5 | 160L       | 18.5 25         |                           |
| 64 4-3F5/18.5 | 160L       | 18.5 25         |                           |
| 64 4-2F5/18.5 | 160L       | 18.5 25         |                           |
| 64 4-1F5/22   | 180M       | 22 30           | 77                        |
| 64 4-0F5/22   | 180M       | 22 30           |                           |
| 64 5-3F5/30   | 200L       | 30 40           | 78                        |
| 64 5-2F5/30   | 200L       | 30 40           |                           |
| 64 5-1F5/30   | 200L       | 30 40           |                           |
| 64 5-0F5/30   | 200L       | 30 40           |                           |
| 64 6-3F5/30   | 200L       | 30 40           |                           |
| 64 6-2F5/30   | 200L       | 30 40           |                           |
| 64 6-1F5/37   | 200L       | 37 50           |                           |
| 64 6-0F5/37   | 200L       | 37 50           |                           |
| 64 7-3F5/37   | 200L       | 37 50           |                           |
| 64 7-2F5/37   | 200L       | 37 50           |                           |
| 64 7-1F5/37   | 200L       | 37 50           |                           |

\* Mean value of several measures at 1m distance around the pump.  
Tolerance ± 2.5 dB.  
Sound pressure level of motor pumps with AEG