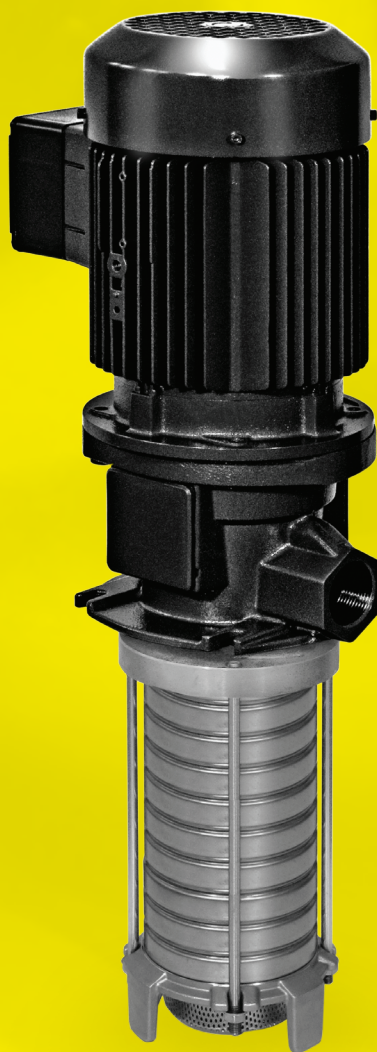


**Spandau  
pumpen**

by EBARA

## PSR - Centrifugal pumps

Data Book 60Hz



Quality Management  
ISO 9001: 2015

Environmental Management  
ISO 14001:2015



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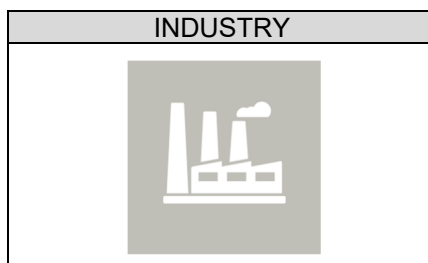
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### DEFINITION AND USE OF PSR

PSR pumps are vertical multistage coolant pumps

### TYPICAL APPLICATIONS



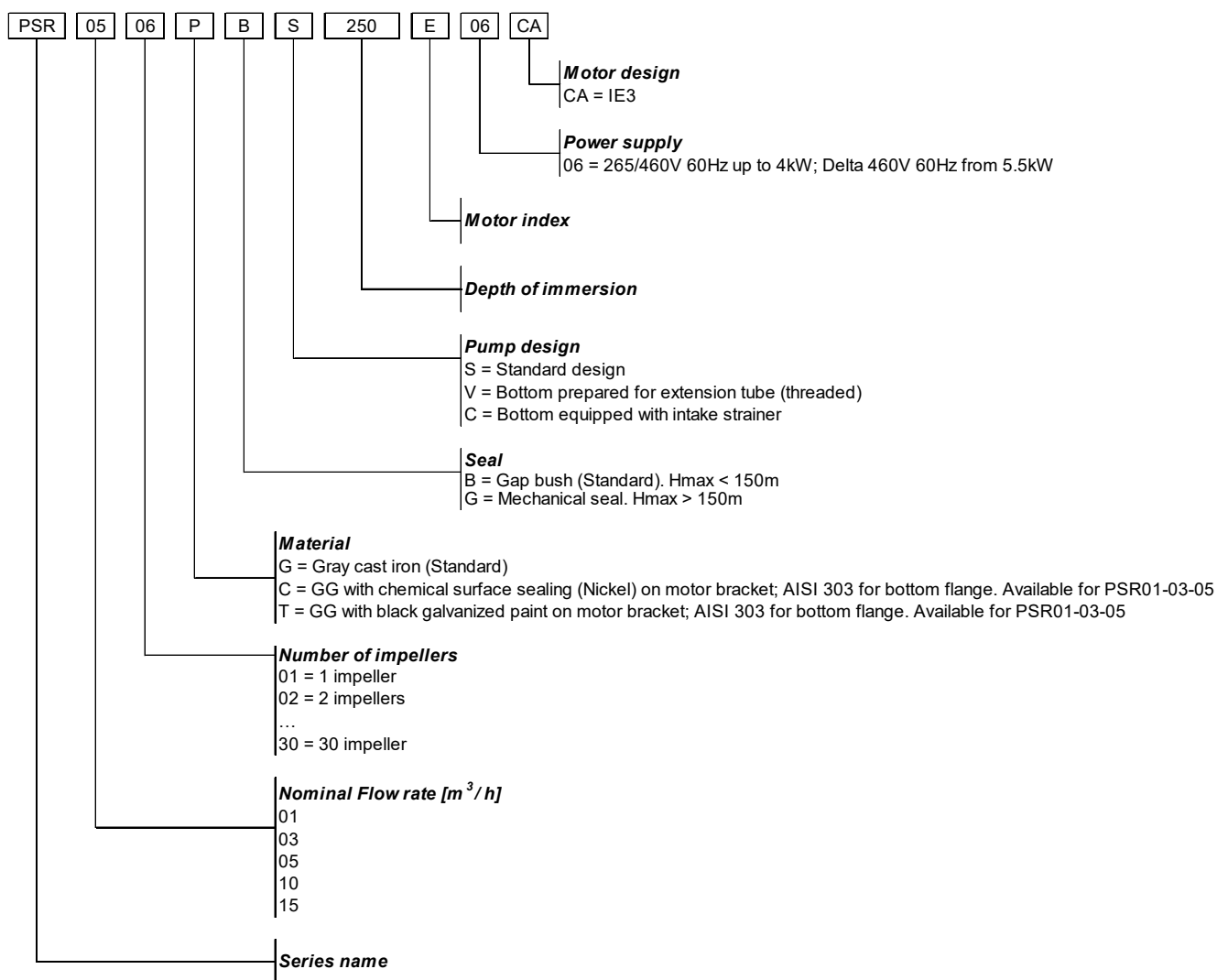
### FEATURES

- Vertical multistage coolant pump
- Connector dimensions as per EN 12157
- For delivery of slightly contaminated types of fluids
- Installation directly into the reservoir
- Pressure port is located above the reservoir plate and designed with internal thread G1"1/4 or G2" depending on the size

### OPERATING CONDITIONS

- Delivery rate  
 $Q_{\max} = 440 \text{ l/min}$
- Delivery head  
 $H_{\max} = 250 \text{ m}$
- Temperature range  
 $T = -10^{\circ}\text{C to } +80^{\circ}\text{C}$
- Kinematic viscosity  
 $\nu_{\max} = 20 \text{ mm}^2/\text{s}$

### TYPE KEY



## PRODUCT SPECIFICATIONS

## TECHNICAL PUMP DATA

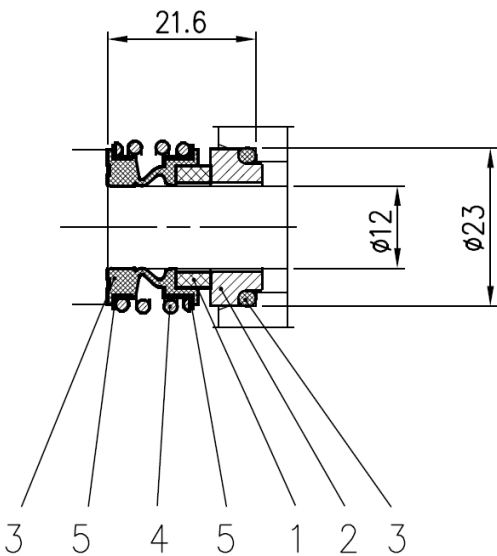
| PUMP                    |                           |                                                                       |   |   |       |    |                          |   |               |       |                          |          |               |   |       |    |
|-------------------------|---------------------------|-----------------------------------------------------------------------|---|---|-------|----|--------------------------|---|---------------|-------|--------------------------|----------|---------------|---|-------|----|
| Series                  |                           | PSR                                                                   |   |   |       |    |                          |   |               |       |                          |          |               |   |       |    |
| Material                |                           | G                                                                     |   |   |       |    | C                        |   |               |       |                          | T        |               |   |       |    |
| Operating range         | Nominal flow rate (m3/h ) | 1                                                                     | 3 | 5 | 10    | 15 | 1                        | 3 | 5             | 10    | 15                       | 1        | 3             | 5 | 10    | 15 |
|                         | Maximum working pressure  | 25 bar                                                                |   |   |       |    |                          |   |               |       |                          |          |               |   |       |    |
|                         | Liquid temperature range  | -10°C ÷ +80°C                                                         |   |   |       |    |                          |   |               |       |                          |          |               |   |       |    |
| Key Components Material | Impeller                  | EN 1.4301 (AISI 304)                                                  |   |   |       |    |                          |   |               |       |                          |          |               |   |       |    |
|                         | Intermediate casing       | EN 1.4301 (AISI 304)                                                  |   |   |       |    |                          |   |               |       |                          |          |               |   |       |    |
|                         | Liner ring                | EN 1.4301 (AISI 304) + PPS                                            |   |   |       |    |                          |   |               |       |                          |          |               |   |       |    |
|                         | Bottom flange             | Cast iron (naked)                                                     |   |   |       |    | EN 1.4305 (AISI 303)     |   | Not available |       | EN 1.4305 (AISI 303)     |          | Not available |   |       |    |
|                         | Pump support              | Cast iron (black painted)                                             |   |   |       |    | Cast iron Nickel coating |   | Not available |       | Cast iron Galvanic paint |          | Not available |   |       |    |
|                         | Shaft                     | EN 1.4301 (AISI 304)<br>EN 1.4462 (AISI 329A)<br>Depends on the model |   |   |       |    |                          |   |               |       |                          |          |               |   |       |    |
|                         | Shaft sleeve bearing      | Tungsten carbide                                                      |   |   |       |    |                          |   |               |       |                          |          |               |   |       |    |
|                         | Shaft seal                | See shaft seal details                                                |   |   |       |    |                          |   |               |       |                          |          |               |   |       |    |
|                         | O-ring                    | FPM                                                                   |   |   |       |    |                          |   |               |       |                          |          |               |   |       |    |
|                         | Tie rod                   | AISI 431                                                              |   |   |       |    |                          |   |               |       |                          |          |               |   |       |    |
|                         | Coupling                  | Aluminun                                                              |   |   | Steel |    | Aluminun                 |   |               | Steel |                          | Aluminun |               |   | Steel |    |
| Pipe Connexion          | Thread                    | G1 ¼ “                                                                |   |   | G 2”  |    | G1 ¼ “                   |   |               | G 2”  |                          | G1 ¼ “   |               |   | G 2”  |    |

## TECHNICAL MOTOR DATA

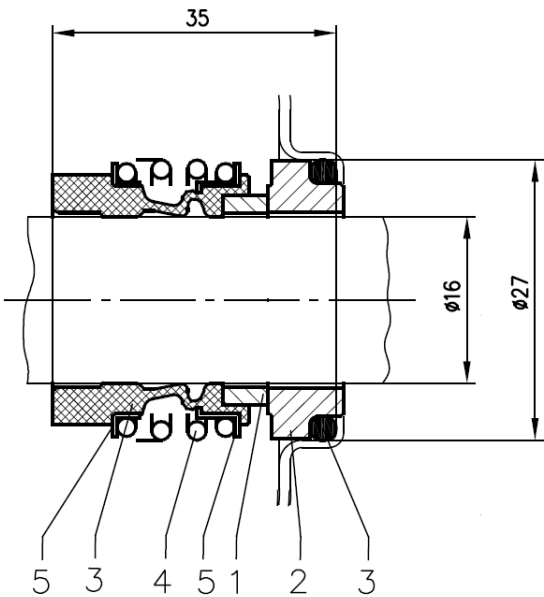
| MOTOR        |                          |                                                          |
|--------------|--------------------------|----------------------------------------------------------|
| Version      |                          | PSR(.)                                                   |
| Power source | Frequency                | 60 Hz                                                    |
|              | Phase                    | Three-phase                                              |
|              | Rotation speed           | 3500 min-1                                               |
|              | Power rating             | 0.37 ÷ 18.5 kW                                           |
|              |                          | 0.50 ÷ 25 HP                                             |
|              | Voltage                  | 265/460 ± 10% V (up to 4kW)<br>460 ± 10% V (above 5.5kW) |
| Type         | Type                     | Electric - TEFC                                          |
|              | Efficiency level         | IE3                                                      |
|              | N° of poles              | 2                                                        |
|              | Protection degree        | IP 55                                                    |
|              | Insulation class         | F ( temperature rise class B )                           |
| Others       | Thermal Protection       | -                                                        |
|              | Casing Material          | Aluminium                                                |
|              | Flange mount (IEC motor) | IM B5 ( PSR10-15 )                                       |

MECHANICAL SEAL DATA

PSR01-03-05



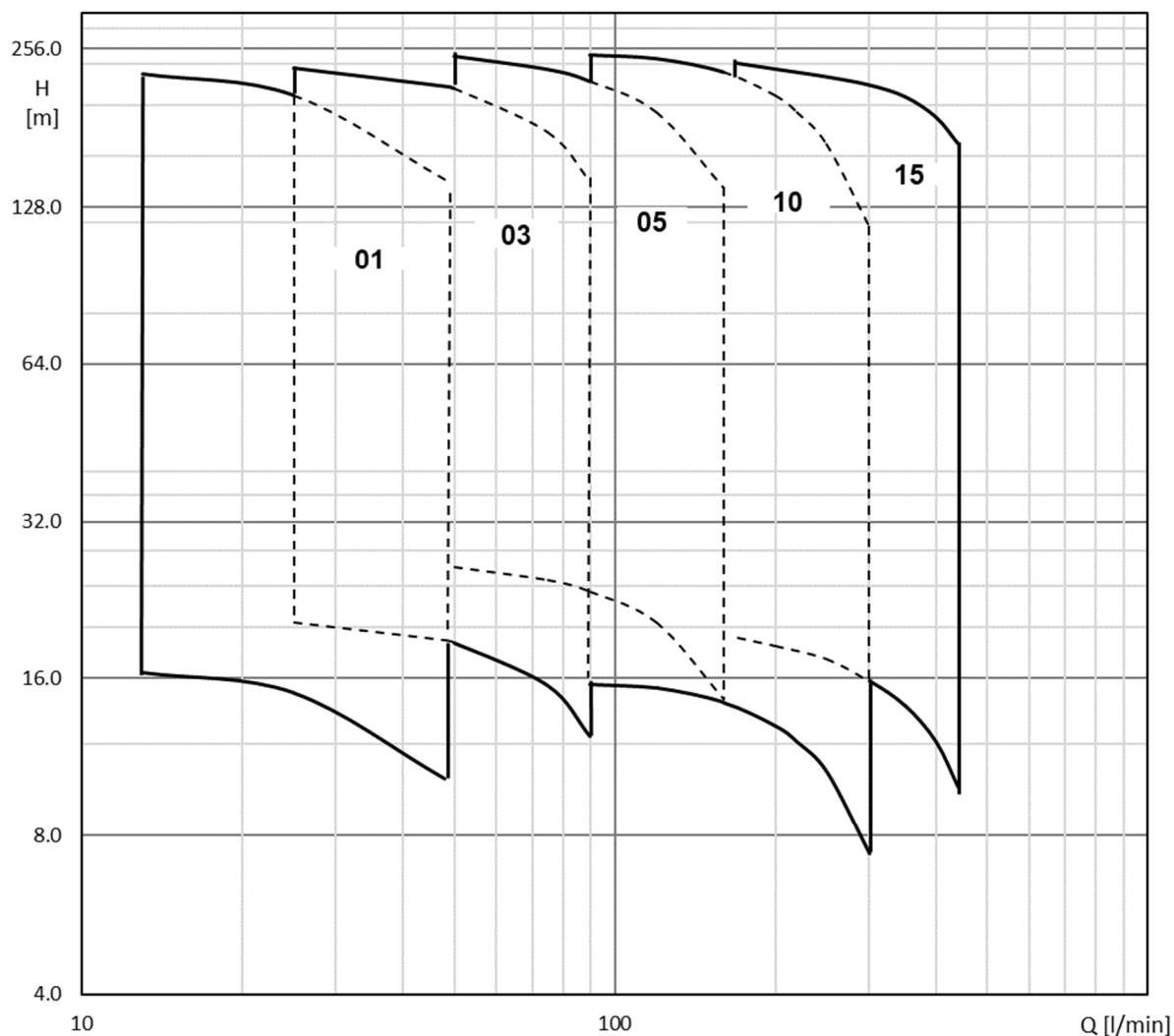
PSR10-15



| PUMP SIZE   | MECHANICAL SEAL TYPE | MECHANICAL SEAL MATERIAL |      |                 |      |            |      |                    |      |          |      |
|-------------|----------------------|--------------------------|------|-----------------|------|------------|------|--------------------|------|----------|------|
|             |                      | 1                        |      | 2               |      | 3          |      | 4                  |      | 5        |      |
|             |                      | Rotating part            | code | Stationary part | code | Elastomers | code | Compression spring | code | Collar   | code |
| PSR01-03-05 | BQ1VGG               | Carbon                   | B    | SiC             | Q1   | FPM        | V    | AISI 316           | G    | AISI 316 | G    |
| PSR10-15    | BQ1VGG               | Carbon                   | B    | SiC             | Q1   | FPM        | V    | AISI 316           | G    | AISI316  | G    |

### PERFORMANCE RANGE

PSR01-03-05-10-15



### CURVE SPECIFICATION

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

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

The curves refer to effective speed of asynchronous motors at 60Hz 2 poles

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

Symbols explanation:

- Q = volume flow rate
- H = total head
- P2 = pump power input (shaft power)
- $\eta$  = pump efficiency

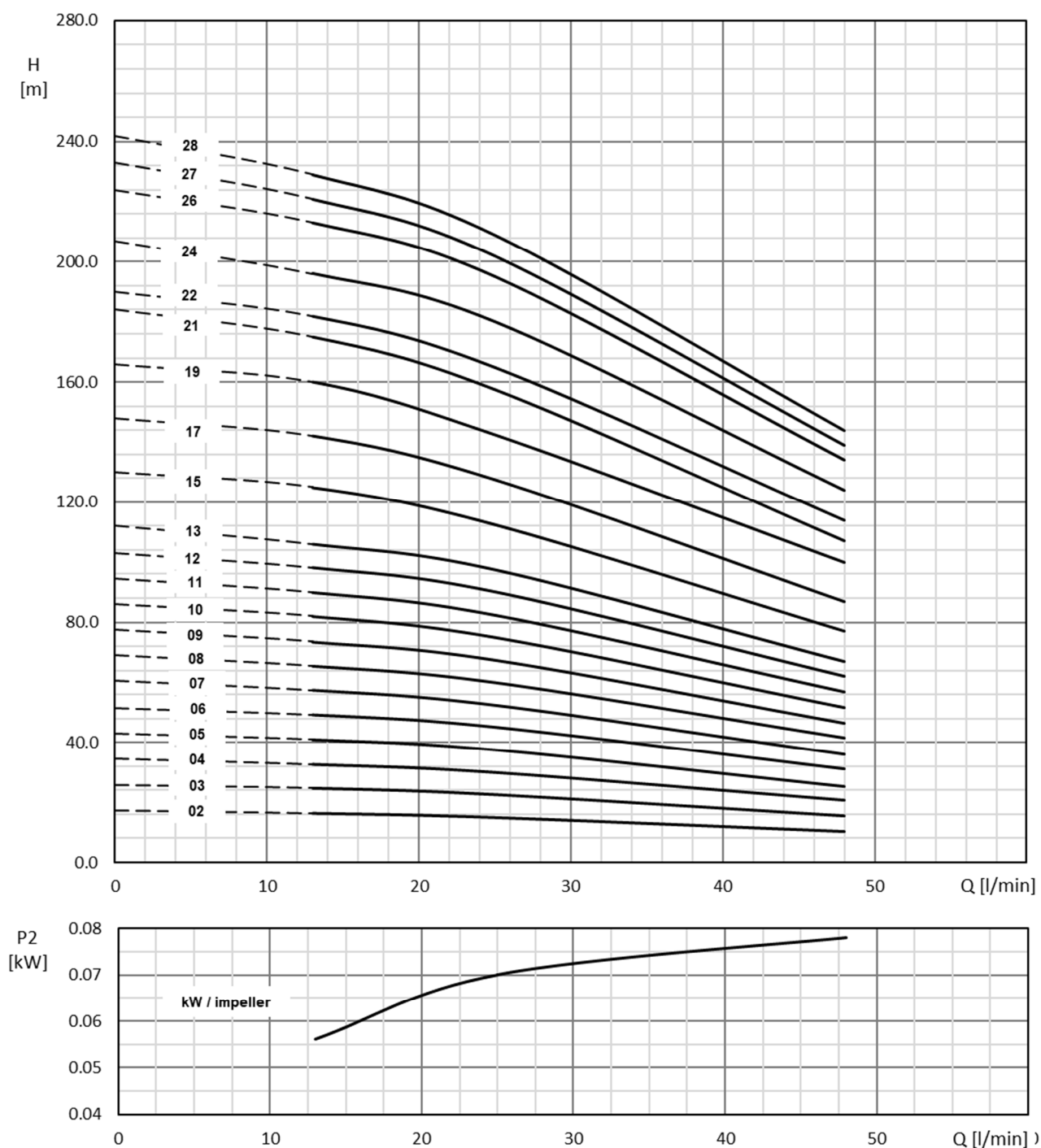
### SELECTION CHART PSR01-03-05

|            | Model      | Motor |               | Configuration  | Q=Capacity                        |       |       |       |       |       |       |       |       |     |
|------------|------------|-------|---------------|----------------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
|            |            | kW    | HP            |                | l/min                             | 0     | 13    | 25    | 48    | 50    | 75    | 90    | 120   | 160 |
|            |            |       |               |                | m³/h                              | 0     | 0.8   | 1.5   | 2.9   | 3.0   | 4.5   | 5.4   | 7.2   | 9.6 |
|            |            |       |               |                | H=Total manometric head in meters |       |       |       |       |       |       |       |       |     |
| 01         | PSR0102(.) | 0.37  | 0.5           | Extended shaft | 17.2                              | 16.4  | 15.0  | 10.3  | -     | -     | -     | -     | -     |     |
|            | PSR0103(.) | 0.37  | 0.5           | Extended shaft | 25.8                              | 24.6  | 22.5  | 15.5  | -     | -     | -     | -     | -     |     |
|            | PSR0104(.) | 0.37  | 0.5           | Extended shaft | 34.5                              | 32.7  | 30.0  | 20.6  | -     | -     | -     | -     | -     |     |
|            | PSR0105(.) | 0.37  | 0.5           | Extended shaft | 43.1                              | 40.9  | 37.5  | 25.4  | -     | -     | -     | -     | -     |     |
|            | PSR0106(.) | 0.55  | 0.5           | Extended shaft | 51.5                              | 49.1  | 45.0  | 31.0  | -     | -     | -     | -     | -     |     |
|            | PSR0107(.) | 0.55  | 0.75          | Extended shaft | 60.5                              | 57.5  | 52.5  | 36.1  | -     | -     | -     | -     | -     |     |
|            | PSR0108(.) | 0.75  | 1             | Extended shaft | 69.0                              | 65.5  | 60.0  | 41.5  | -     | -     | -     | -     | -     |     |
|            | PSR0109(.) | 0.75  | 1             | Extended shaft | 77.5                              | 73.5  | 67.5  | 46.5  | -     | -     | -     | -     | -     |     |
|            | PSR0110(.) | 0.75  | 1             | Extended shaft | 86.0                              | 82.0  | 75.0  | 51.5  | -     | -     | -     | -     | -     |     |
|            | PSR0111(.) | 1.1   | 1.5           | With coupling  | 94.5                              | 90.0  | 82.5  | 57.0  | -     | -     | -     | -     | -     |     |
|            | PSR0112(.) | 1.1   | 1.5           | With coupling  | 103.0                             | 98.0  | 90.0  | 62.0  | -     | -     | -     | -     | -     |     |
|            | PSR0113(.) | 1.1   | 1.5           | With coupling  | 112.0                             | 106.0 | 97.5  | 67.0  | -     | -     | -     | -     | -     |     |
|            | PSR0115(.) | 1.5   | 2             | With coupling  | 130.0                             | 125.0 | 112.5 | 77.0  | -     | -     | -     | -     | -     |     |
|            | PSR0117(.) | 1.5   | 2             | With coupling  | 148.0                             | 142.0 | 127.5 | 87.0  | -     | -     | -     | -     | -     |     |
|            | PSR0119(.) | 1.5   | 2             | With coupling  | 166.0                             | 160.0 | 142.5 | 100.0 | -     | -     | -     | -     | -     |     |
|            | PSR0121(.) | 2.2   | 3             | With coupling  | 184.0                             | 175.0 | 157.5 | 107.0 | -     | -     | -     | -     | -     |     |
|            | PSR0122(.) | 2.2   | 3             | With coupling  | 190.0                             | 182.0 | 165.0 | 114.0 | -     | -     | -     | -     | -     |     |
| PSR0124(.) | 2.2        | 3     | With coupling | 207.0          | 196.0                             | 180.0 | 124.0 | -     | -     | -     | -     | -     |       |     |
| PSR0126(.) | 2.2        | 3     | With coupling | 224.0          | 213.0                             | 195.0 | 134.0 | -     | -     | -     | -     | -     |       |     |
| PSR0127(.) | 2.2        | 3     | With coupling | 233.0          | 221.0                             | 202.0 | 139.0 | -     | -     | -     | -     | -     |       |     |
| PSR0128(.) | 2.2        | 3     | With coupling | 242.0          | 229.0                             | 209.0 | 144.0 | -     | -     | -     | -     | -     |       |     |
| 03         | PSR0302(.) | 0.37  | 0.5           | Extended shaft | 21.4                              | -     | 20.5  | 18.9  | 18.7  | 15.5  | 12.4  | -     | -     |     |
|            | PSR0303(.) | 0.55  | 0.75          | Extended shaft | 32.1                              | -     | 30.7  | 28.3  | 28.0  | 23.3  | 18.6  | -     | -     |     |
|            | PSR0304(.) | 0.75  | 1             | Extended shaft | 43.0                              | -     | 41.0  | 37.7  | 37.4  | 31.0  | 24.8  | -     | -     |     |
|            | PSR0305(.) | 0.75  | 1             | Extended shaft | 53.5                              | -     | 51.0  | 47.0  | 46.5  | 38.8  | 31.0  | -     | -     |     |
|            | PSR0306(.) | 1.1   | 1.5           | Extended shaft | 64.5                              | -     | 61.5  | 56.5  | 56.0  | 46.5  | 37.2  | -     | -     |     |
|            | PSR0307(.) | 1.1   | 1.5           | Extended shaft | 75.0                              | -     | 71.5  | 66.0  | 65.5  | 54.5  | 43.5  | -     | -     |     |
|            | PSR0308(.) | 1.5   | 2             | With coupling  | 87.0                              | -     | 82.0  | 75.5  | 74.5  | 62.0  | 49.5  | -     | -     |     |
|            | PSR0309(.) | 1.5   | 2             | With coupling  | 96.5                              | -     | 92.0  | 85.0  | 84.0  | 69.0  | 56.0  | -     | -     |     |
|            | PSR0310(.) | 1.5   | 2             | With coupling  | 107.0                             | -     | 102.0 | 94.5  | 93.5  | 77.5  | 62.0  | -     | -     |     |
|            | PSR0311(.) | 2.2   | 3             | With coupling  | 118.0                             | -     | 113.0 | 104.0 | 103.0 | 85.5  | 68.0  | -     | -     |     |
|            | PSR0312(.) | 2.2   | 3             | With coupling  | 129.0                             | -     | 123.0 | 113.0 | 112.0 | 93.0  | 74.5  | -     | -     |     |
|            | PSR0313(.) | 2.2   | 3             | With coupling  | 139.0                             | -     | 133.0 | 123.0 | 122.0 | 101.0 | 80.5  | -     | -     |     |
|            | PSR0314(.) | 2.2   | 3             | With coupling  | 150.0                             | -     | 143.0 | 132.0 | 131.0 | 109.0 | 86.5  | -     | -     |     |
|            | PSR0315(.) | 3     | 4             | With coupling  | 161.0                             | -     | 154.0 | 142.0 | 140.0 | 116.0 | 93.0  | -     | -     |     |
|            | PSR0317(.) | 3     | 4             | With coupling  | 182.0                             | -     | 174.0 | 160.0 | 159.0 | 132.0 | 105.0 | -     | -     |     |
|            | PSR0319(.) | 3     | 4             | With coupling  | 204.0                             | -     | 195.0 | 179.0 | 178.0 | 147.0 | 118.0 | -     | -     |     |
|            | PSR0320(.) | 3     | 4             | With coupling  | 214.0                             | -     | 205.0 | 189.0 | 187.0 | 155.0 | 124.0 | -     | -     |     |
| PSR0321(.) | 4          | 5.5   | With coupling | 225.0          | -                                 | 215.0 | 198.0 | 196.0 | 163.0 | 130.0 | -     | -     |       |     |
| PSR0323(.) | 4          | 5.5   | With coupling | 247.0          | -                                 | 235.0 | 217.0 | 215.0 | 178.0 | 143.0 | -     | -     |       |     |
| 05         | PSR0502(.) | 0.75  | 1             | Extended shaft | 27.6                              | -     | -     | -     | 26.1  | 24.6  | 23.4  | 20.4  | 14.6  |     |
|            | PSR0503(.) | 1.1   | 1.5           | Extended shaft | 41.4                              | -     | -     | -     | 39.2  | 36.9  | 35.1  | 30.6  | 21.9  |     |
|            | PSR0504(.) | 1.5   | 2             | With coupling  | 55.0                              | -     | -     | -     | 52.5  | 49.0  | 47.0  | 40.5  | 29.3  |     |
|            | PSR0505(.) | 2.2   | 3             | With coupling  | 69.0                              | -     | -     | -     | 65.5  | 61.5  | 58.0  | 51.0  | 36.6  |     |
|            | PSR0506(.) | 2.2   | 3             | With coupling  | 83.0                              | -     | -     | -     | 78.5  | 74.0  | 70.0  | 61.0  | 44.0  |     |
|            | PSR0507(.) | 3     | 4             | With coupling  | 96.5                              | -     | -     | -     | 91.5  | 86.0  | 82.0  | 71.5  | 51.0  |     |
|            | PSR0508(.) | 3     | 4             | With coupling  | 110.0                             | -     | -     | -     | 105.0 | 98.5  | 93.5  | 81.5  | 58.5  |     |
|            | PSR0509(.) | 3     | 4             | With coupling  | 124.0                             | -     | -     | -     | 118.0 | 111.0 | 105.0 | 91.5  | 66.0  |     |
|            | PSR0510(.) | 4     | 5.5           | With coupling  | 138.0                             | -     | -     | -     | 131.0 | 123.0 | 117.0 | 102.0 | 73.0  |     |
|            | PSR0511(.) | 4     | 5.5           | With coupling  | 152.0                             | -     | -     | -     | 144.0 | 135.0 | 129.0 | 112.0 | 80.5  |     |
|            | PSR0512(.) | 4     | 5.5           | With coupling  | 166.0                             | -     | -     | -     | 157.0 | 148.0 | 140.0 | 122.0 | 88.0  |     |
|            | PSR0513(.) | 5.5   | 7.5           | With coupling  | 179.0                             | -     | -     | -     | 170.0 | 160.0 | 152.0 | 132.0 | 95.0  |     |
|            | PSR0514(.) | 5.5   | 7.5           | With coupling  | 193.0                             | -     | -     | -     | 183.0 | 172.0 | 164.0 | 143.0 | 102.0 |     |
|            | PSR0515(.) | 5.5   | 7.5           | With coupling  | 207.0                             | -     | -     | -     | 196.0 | 185.0 | 175.0 | 153.0 | 110.0 |     |
|            | PSR0516(.) | 5.5   | 7.5           | With coupling  | 221.0                             | -     | -     | -     | 209.0 | 197.0 | 187.0 | 163.0 | 117.0 |     |
|            | PSR0519(.) | 7.5   | 10            | With coupling  | 262.0                             | -     | -     | -     | 248.0 | 234.0 | 222.0 | 194.0 | 139.0 |     |

### SELECTION CHART PSR10-15

|    | Model      | Motor |     | Configuration  | Q=Capacity                        |       |       |       |       |       |       |       |       |       |       |      |      |  |  |  |
|----|------------|-------|-----|----------------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|--|--|--|
|    |            | kW    | HP  |                | i/min                             | 90    | 120   | 160   | 170   | 200   | 220   | 250   | 300   | 350   | 400   | 440  | 480  |  |  |  |
|    |            |       |     |                | m³/h                              | 5.4   | 7.2   | 9.6   | 10.2  | 12.0  | 13.2  | 15.0  | 18.0  | 21.0  | 24.0  | 26.4 | 28.8 |  |  |  |
|    |            |       |     |                | H=Total manometric head in meters |       |       |       |       |       |       |       |       |       |       |      |      |  |  |  |
| 10 | PSR1001(.) | 0.75  | 1   | Single bearing | 16.0                              | 15.6  | 15.3  | 14.4  | 14.1  | 13.0  | 12.1  | 10.6  | 7.4   | -     | -     | -    | -    |  |  |  |
|    | PSR1002(.) | 1.5   | 2   | Single bearing | 32.0                              | 31.1  | 30.7  | 28.9  | 28.2  | 26.1  | 24.3  | 21.1  | 14.8  | -     | -     | -    | -    |  |  |  |
|    | PSR1003(.) | 2.2   | 3   | Single bearing | 48.0                              | 46.5  | 46.0  | 43.3  | 42.4  | 39.1  | 36.4  | 31.7  | 22.2  | -     | -     | -    | -    |  |  |  |
|    | PSR1004(.) | 3     | 4   | Single bearing | 64.0                              | 62.0  | 61.5  | 58.0  | 56.5  | 52.0  | 48.5  | 42.0  | 29.6  | -     | -     | -    | -    |  |  |  |
|    | PSR1005(.) | 4     | 5.5 | Single bearing | 80.0                              | 77.5  | 76.5  | 72.0  | 70.5  | 65.0  | 60.5  | 52.5  | 37.0  | -     | -     | -    | -    |  |  |  |
|    | PSR1006(.) | 4     | 5.5 | Single bearing | 96.0                              | 93.5  | 92.0  | 86.5  | 84.5  | 78.0  | 73.0  | 63.5  | 44.5  | -     | -     | -    | -    |  |  |  |
|    | PSR1007(.) | 5.5   | 7.5 | Double bearing | 112.0                             | 109.0 | 107.0 | 101.0 | 99.0  | 91.0  | 85.0  | 74.0  | 52.0  | -     | -     | -    | -    |  |  |  |
|    | PSR1008(.) | 5.5   | 7.5 | Double bearing | 128.0                             | 125.0 | 123.0 | 115.0 | 113.0 | 104.0 | 97.1  | 84.5  | 59.0  | -     | -     | -    | -    |  |  |  |
|    | PSR1009(.) | 5.5   | 7.5 | Double bearing | 144.0                             | 140.0 | 138.0 | 130.0 | 127.0 | 117.0 | 109.0 | 95.0  | 66.5  | -     | -     | -    | -    |  |  |  |
|    | PSR1010(.) | 7.5   | 10  | Double bearing | 160.0                             | 156.0 | 153.0 | 144.0 | 141.0 | 130.0 | 121.0 | 106.0 | 74.0  | -     | -     | -    | -    |  |  |  |
|    | PSR1011(.) | 7.5   | 10  | Double bearing | 176.0                             | 171.0 | 169.0 | 159.0 | 155.0 | 143.0 | 134.0 | 116.0 | 81.5  | -     | -     | -    | -    |  |  |  |
|    | PSR1012(.) | 7.5   | 10  | Double bearing | 192.0                             | 187.0 | 184.0 | 173.0 | 170.0 | 156.0 | 146.0 | 127.0 | 89.0  | -     | -     | -    | -    |  |  |  |
|    | PSR1014(.) | 11    | 15  | Double bearing | 224.0                             | 218.0 | 215.0 | 202.0 | 198.0 | 182.0 | 170.0 | 148.0 | 104.0 | -     | -     | -    | -    |  |  |  |
|    | PSR1015(.) | 11    | 15  | Double bearing | 240.0                             | 233.0 | 230.0 | 216.0 | 219.0 | 195.0 | 182.0 | 158.0 | 111.0 | -     | -     | -    | -    |  |  |  |
|    | PSR1016(.) | 11    | 15  | Double bearing | 256.0                             | 249.0 | 245.0 | 231.0 | 226.0 | 208.0 | 194.0 | 169.0 | 118.0 | -     | -     | -    | -    |  |  |  |
| 15 | PSR1501(.) | 1.5   | 2   | Single bearing | 21.7                              | -     | -     | -     | 20.3  | 19.9  | 19.6  | 19.2  | 18.3  | 17.0  | 15.5  | 13.8 | -    |  |  |  |
|    | PSR1502(.) | 3     | 4   | Single bearing | 43.6                              | -     | -     | -     | 40.0  | 39.1  | 38.6  | 37.9  | 36.5  | 34.7  | 31.7  | 28.2 | -    |  |  |  |
|    | PSR1503(.) | 5.5   | 7.5 | Double bearing | 65.4                              | -     | -     | -     | 60.0  | 58.5  | 58.0  | 57.0  | 54.5  | 52.0  | 47.5  | 42.5 | -    |  |  |  |
|    | PSR1504(.) | 7.5   | 10  | Double bearing | 87.0                              | -     | -     | -     | 80.5  | 78.5  | 78.0  | 76.0  | 73.0  | 69.0  | 63.5  | 56.5 | -    |  |  |  |
|    | PSR1505(.) | 7.5   | 10  | Double bearing | 109.0                             | -     | -     | -     | 100.0 | 98.0  | 96.5  | 95.0  | 91.0  | 86.5  | 79.5  | 70.5 | -    |  |  |  |
|    | PSR1506(.) | 11    | 15  | Double bearing | 131.0                             | -     | -     | -     | 120.0 | 117.0 | 116.0 | 114.0 | 109.0 | 104.0 | 95.5  | 84.5 | -    |  |  |  |
|    | PSR1507(.) | 11    | 15  | Double bearing | 153.0                             | -     | -     | -     | 141.0 | 137.0 | 135.0 | 133.0 | 128.0 | 121.0 | 111.0 | 99   | -    |  |  |  |
|    | PSR1508(.) | 15    | 20  | Double bearing | 174.0                             | -     | -     | -     | 161.0 | 157.0 | 154.0 | 152.0 | 146.0 | 138.0 | 127.0 | 113  | -    |  |  |  |
|    | PSR1509(.) | 15    | 20  | Double bearing | 196.0                             | -     | -     | -     | 181.0 | 176.0 | 174.0 | 171.0 | 164.0 | 156.0 | 143.0 | 127  | -    |  |  |  |
|    | PSR1510(.) | 15    | 20  | Double bearing | 218.0                             | -     | -     | -     | 201.0 | 196.0 | 193.0 | 190.0 | 182.0 | 173.0 | 159.0 | 141  | -    |  |  |  |
|    | PSR1511(.) | 18.5  | 25  | Double bearing | 240.0                             | -     | -     | -     | 221.0 | 215.0 | 212.0 | 208.0 | 201.0 | 190.0 | 175.0 | 155  | -    |  |  |  |
|    | PSR1512(.) | 18.5  | 25  | Double bearing | 262.0                             | -     | -     | -     | 241.0 | 235.0 | 232.0 | 227.0 | 219.0 | 208.0 | 190.0 | 169  | -    |  |  |  |

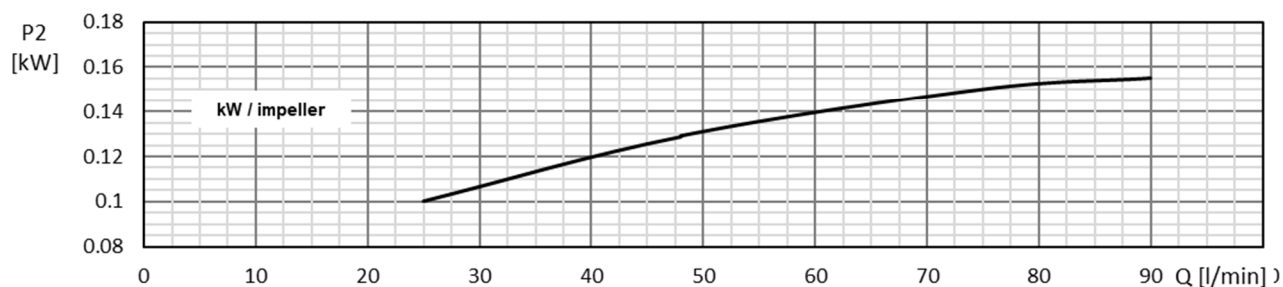
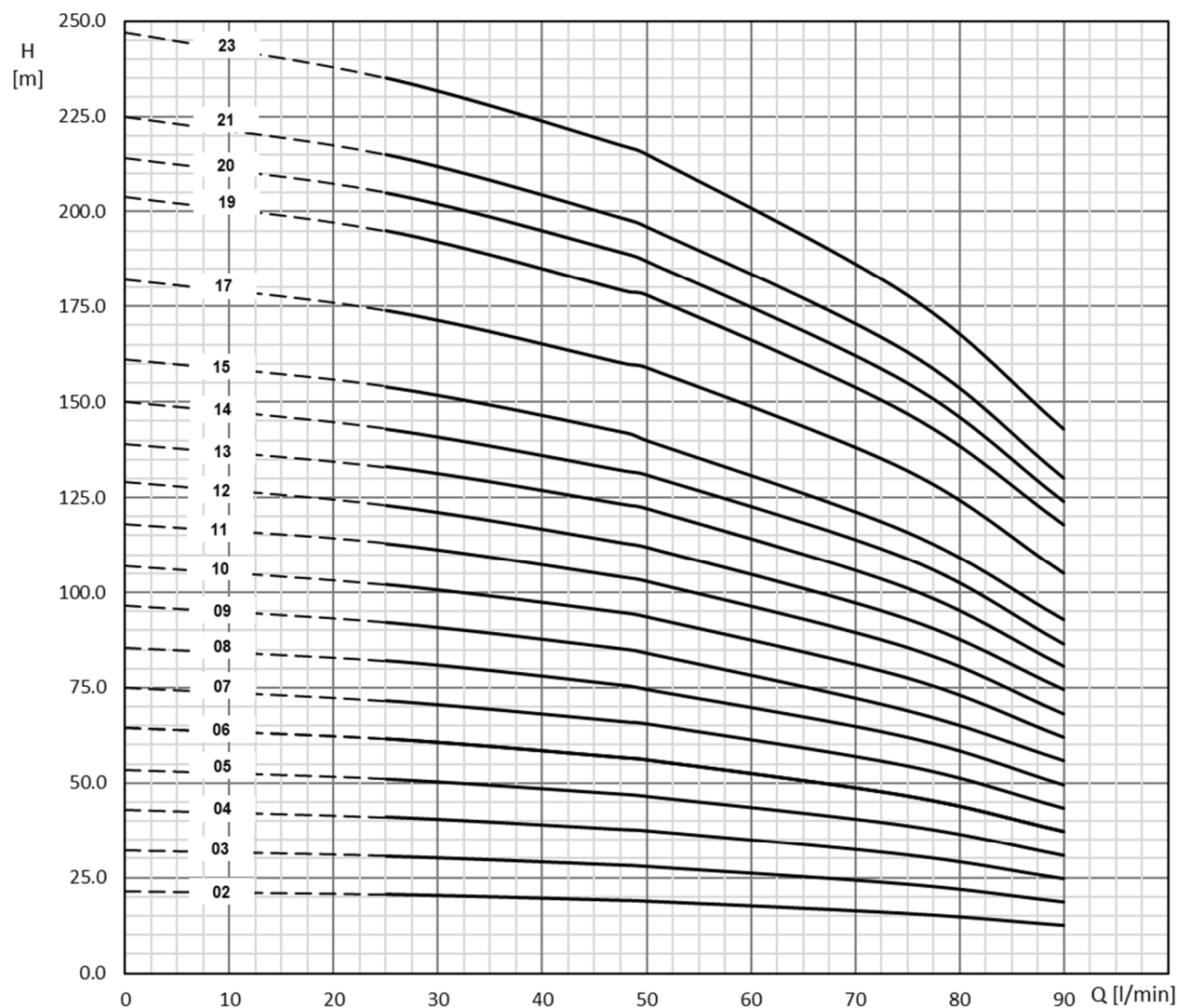
### PSR01(.)



Test standard: ISO 9906: 2012 - Grade 3B

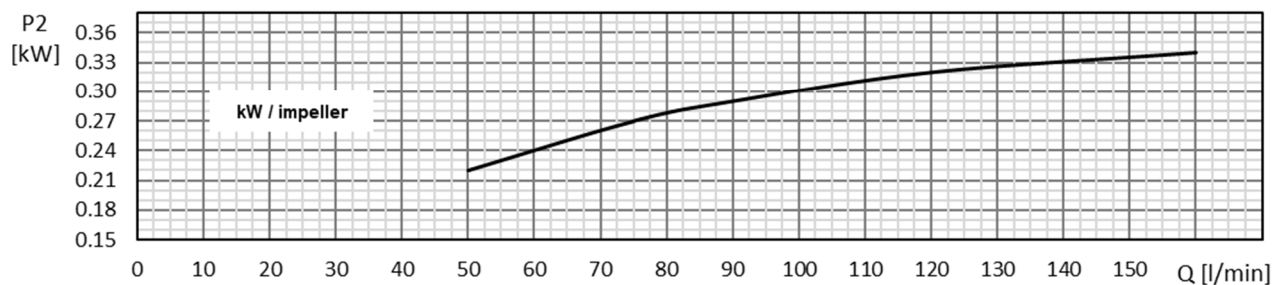
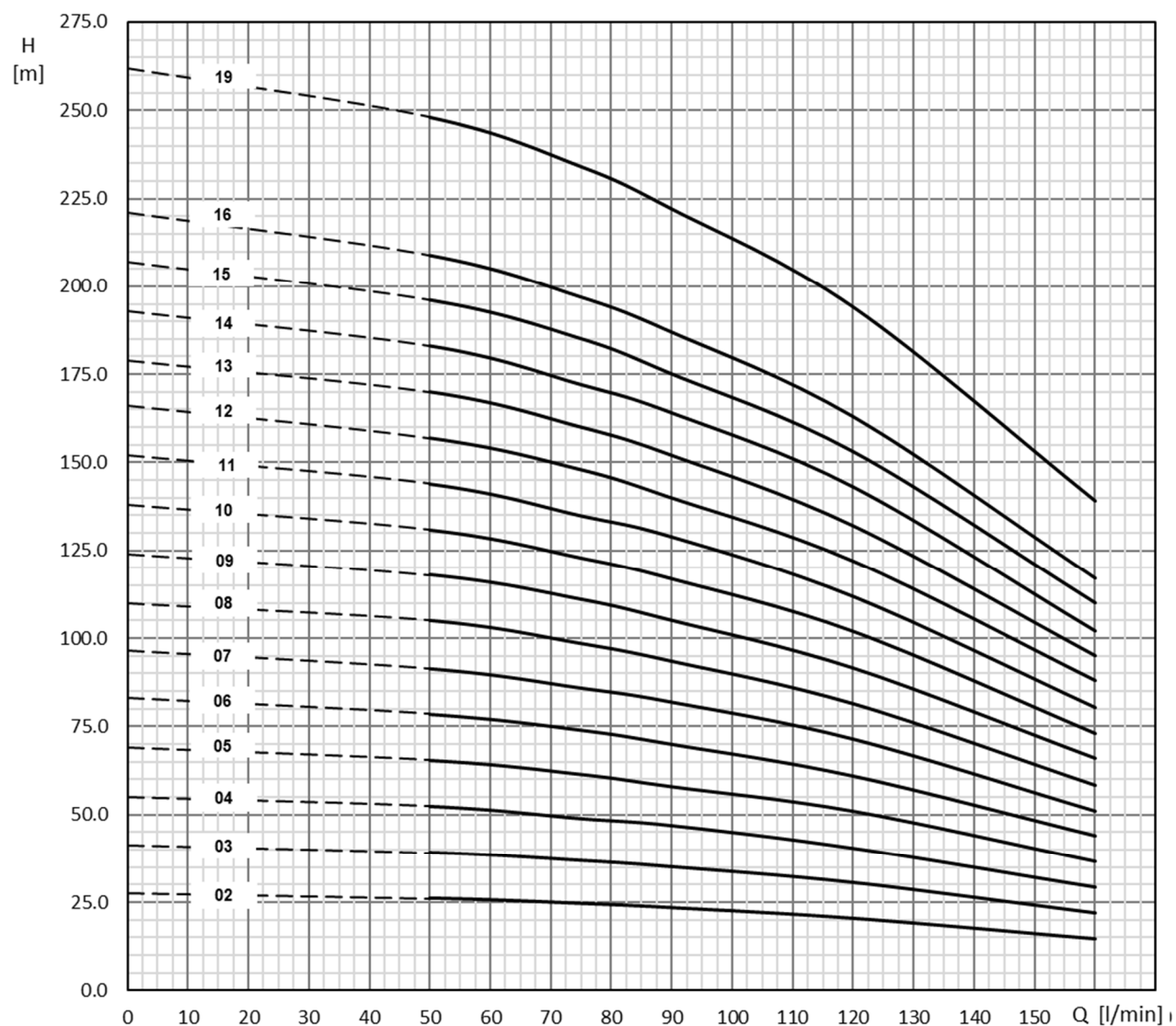
400

### PSR03(.)



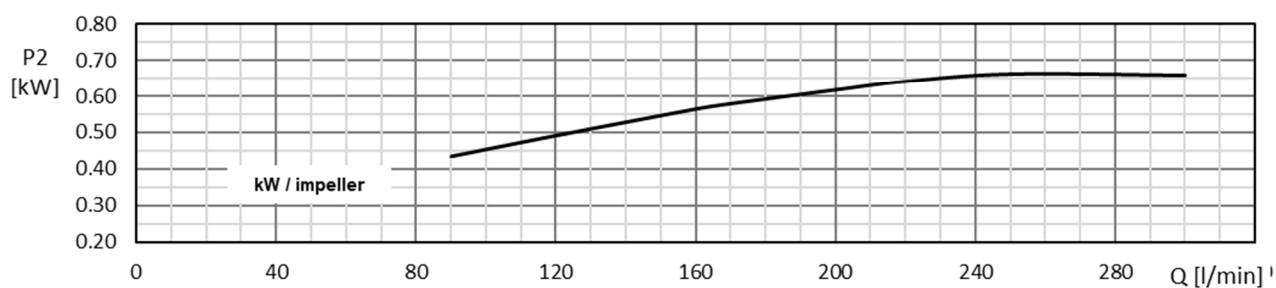
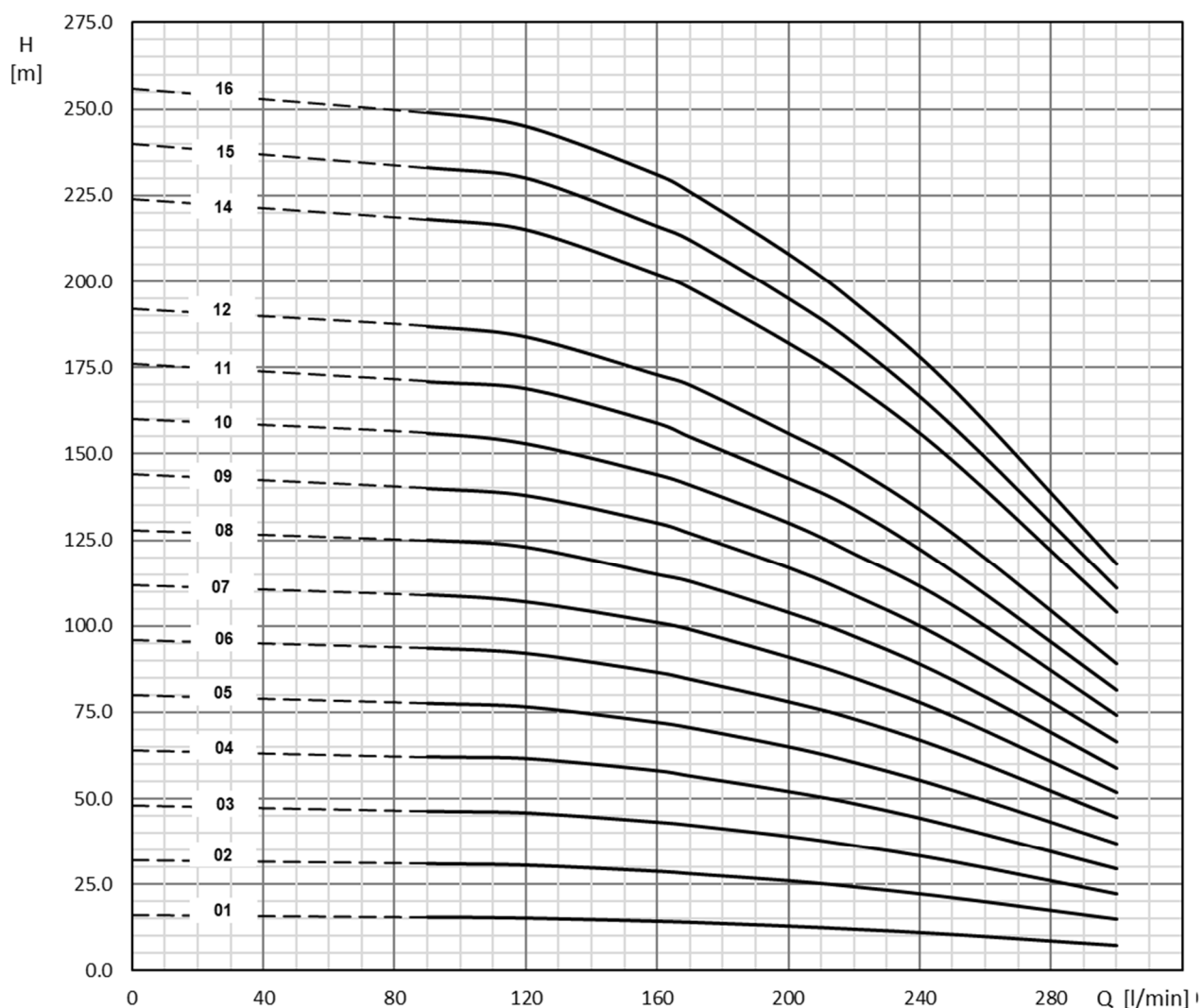
Test standard: ISO 9906: 2012 - Grade 3B

### PSR05(.)



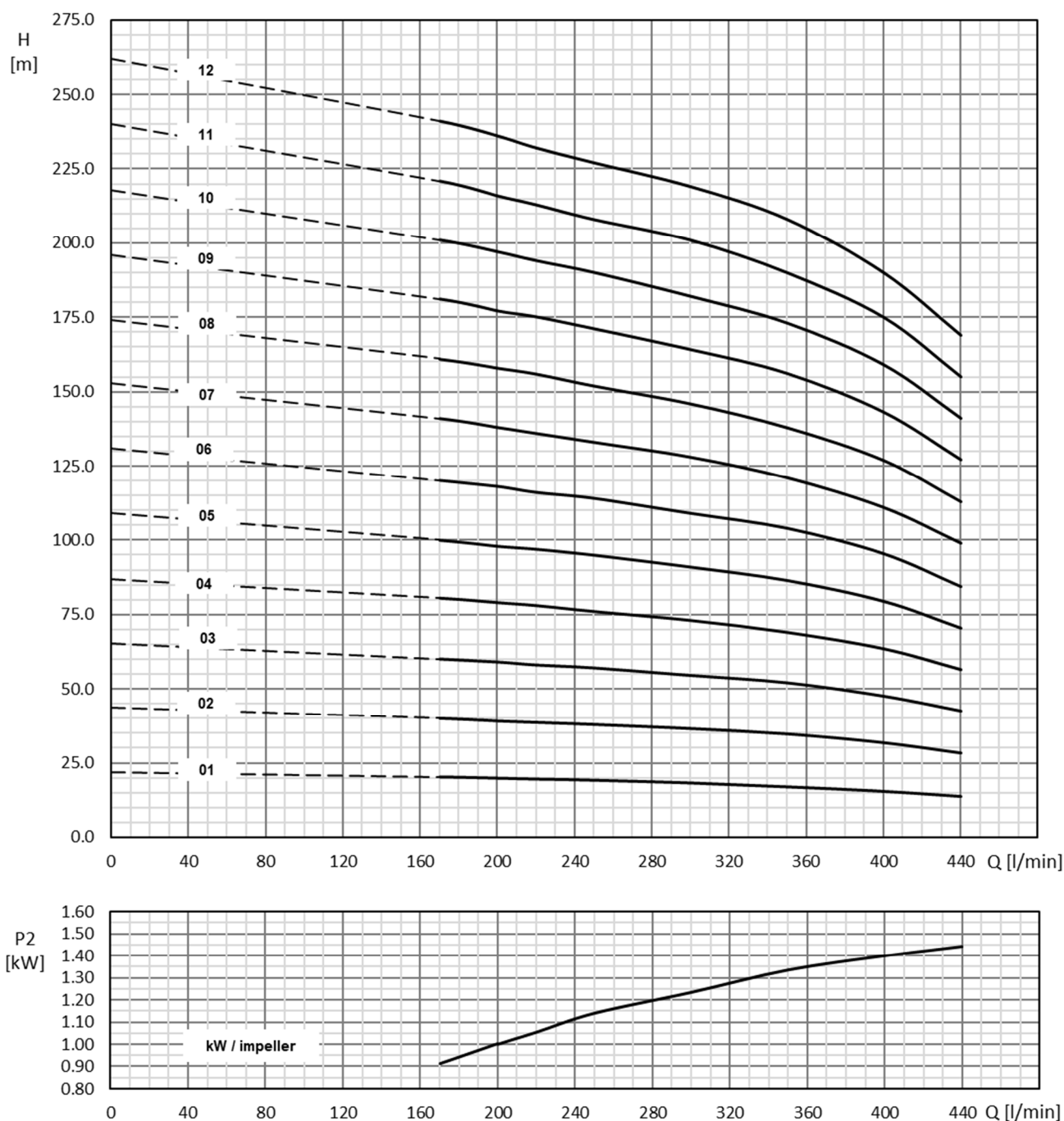
Test standard: ISO 9906: 2012 - Grade 3B

### PSR10(.)



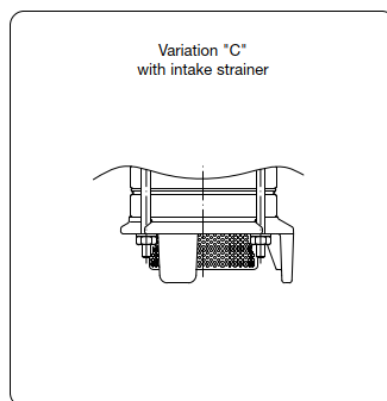
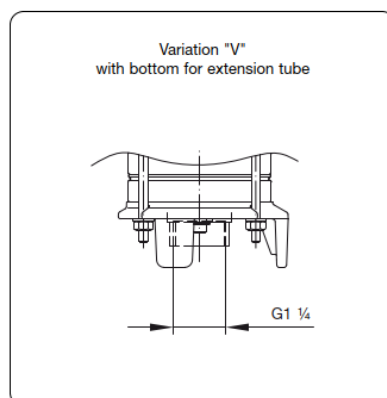
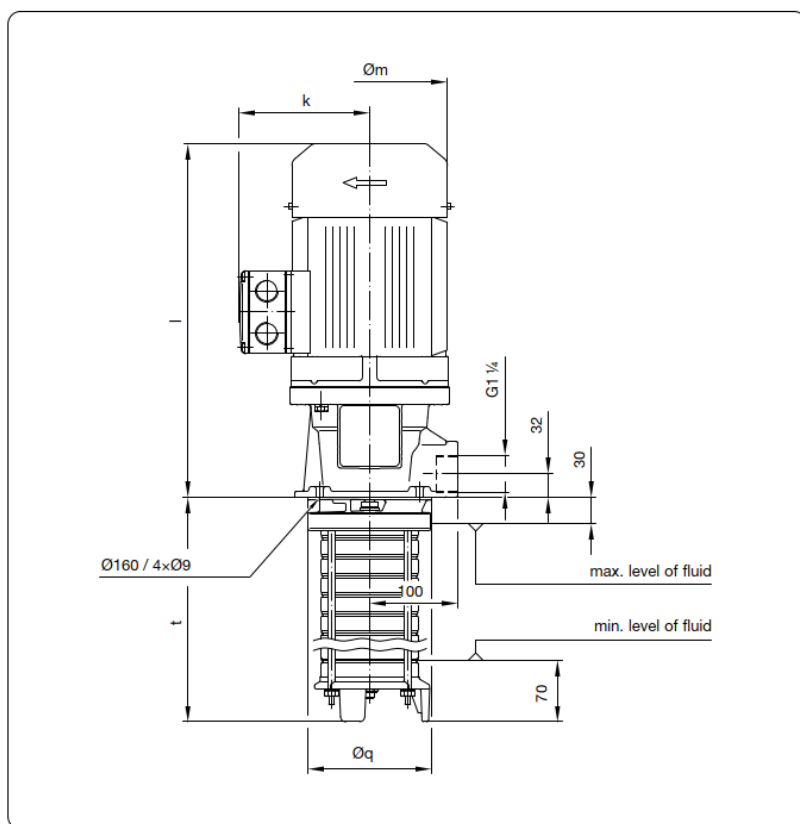
Test standard: ISO 9906: 2012 - Grade 3B

### PSR15(.)



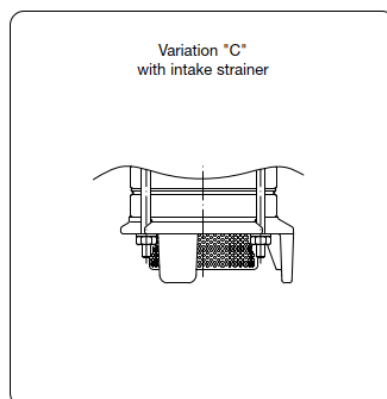
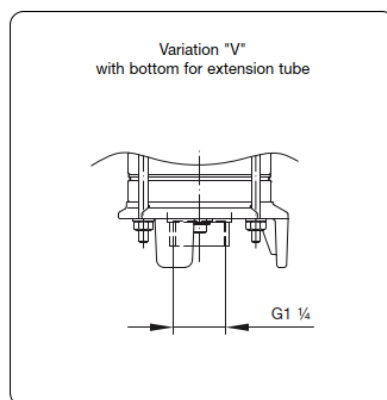
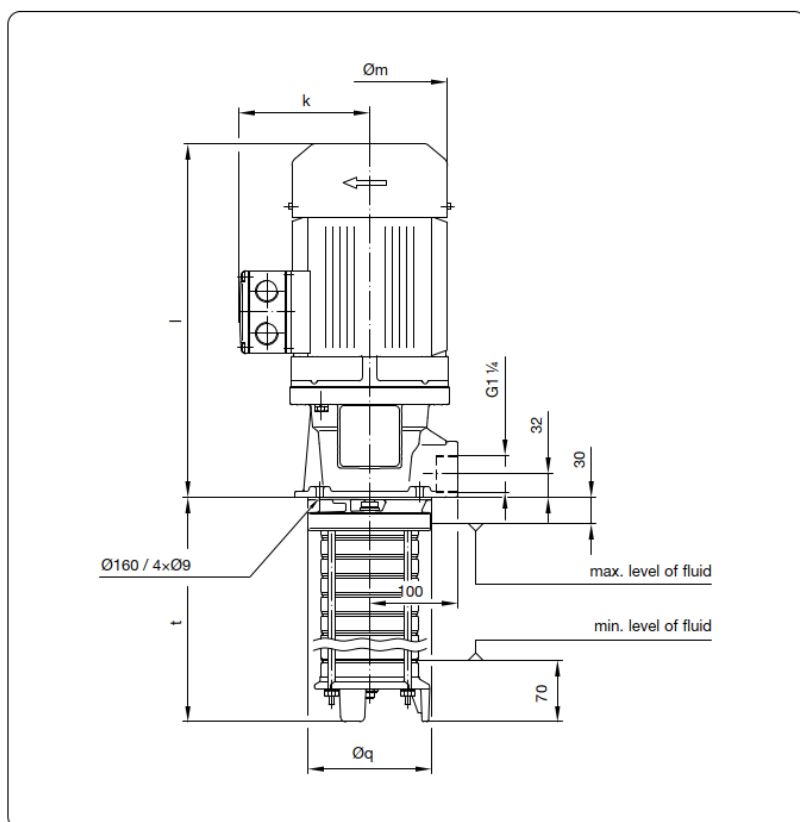
Test standard: ISO 9906: 2012 - Grade 3B

### PSR01(.)



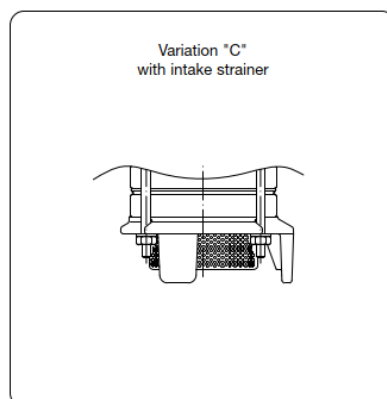
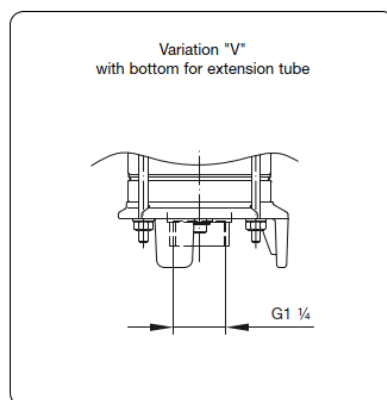
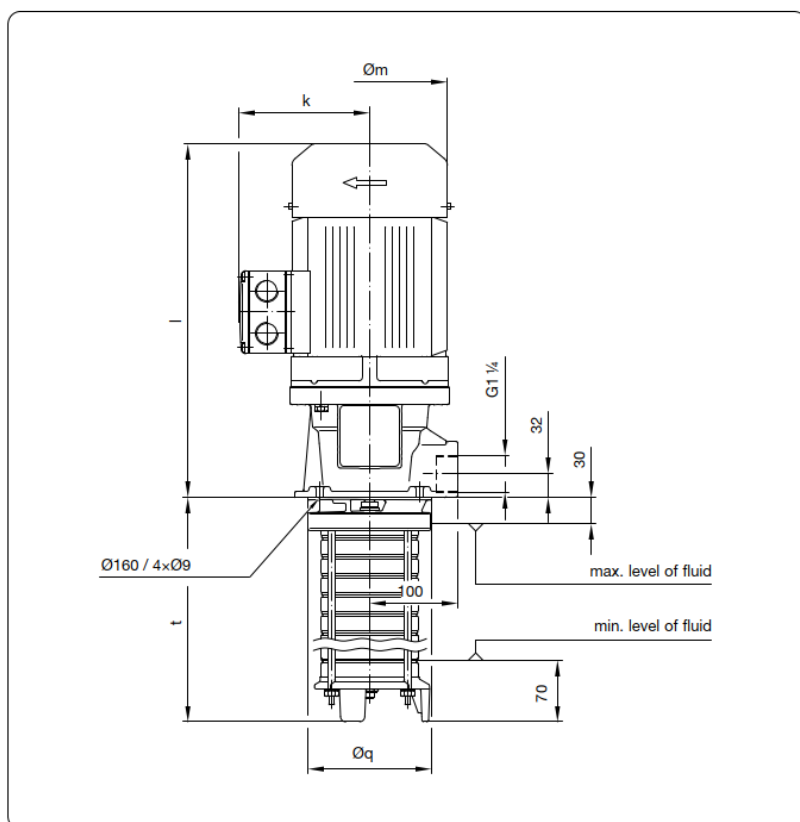
| Type of pump |                    | Immer-<br>sion<br>depth<br>t [mm] | Rated motor values      |                |                            |                                      |                               | Dimensions |       |       |       | Weight<br>[kg] | Noise<br>[dBA] | Pressure<br>port |
|--------------|--------------------|-----------------------------------|-------------------------|----------------|----------------------------|--------------------------------------|-------------------------------|------------|-------|-------|-------|----------------|----------------|------------------|
| Model        | n° of<br>impellers |                                   | Voltage<br>Δ/Y<br>U [V] | Motor<br>index | Output<br>power P2<br>[kW] | Current<br>Δ/Y<br>I <sub>N</sub> [A] | Speed<br>n <sub>N</sub> [rpm] | Øm         | k     | l     | Øq    |                |                |                  |
| PSR0102(.)   | 2                  | 141                               | 265/460                 | E              | 0.37                       | 1.7/1.0                              | 3485                          | 141,4      | 104   | 251,5 | 139,8 | 13,9           | 57             | G1 ¼"            |
| PSR0103(.)   | 3                  | 162                               |                         |                |                            |                                      |                               |            |       |       |       | 14,2           |                |                  |
| PSR0104(.)   | 4                  | 183                               |                         |                |                            |                                      |                               |            |       |       |       | 14,6           |                |                  |
| PSR0105(.)   | 5                  | 204                               |                         |                |                            |                                      |                               |            |       |       |       | 14,9           |                |                  |
| PSR0106(.)   | 6                  | 225                               |                         | F              | 0.55                       | 2.1/1.2                              | 3430                          | 141,4      | 104   | 251,5 | 139,8 | 15,2           | 57             |                  |
| PSR0107(.)   | 7                  | 246                               |                         |                |                            |                                      |                               |            |       |       |       | 15,6           |                |                  |
| PSR0108(.)   | 8                  | 267                               |                         |                |                            |                                      |                               |            |       |       |       | 18,2           |                |                  |
| PSR0109(.)   | 9                  | 288                               |                         | G              | 0.75                       | 2.6/1.5                              | 3460                          | 141,4      | 104   | 251,5 | 139,8 | 18,6           | 57             |                  |
| PSR0110(.)   | 10                 | 309                               |                         |                |                            |                                      |                               |            |       |       |       | 18,9           |                |                  |
| PSR0111(.)   | 11                 | 330                               |                         |                |                            |                                      |                               |            |       |       |       | 20,7           |                |                  |
| PSR0112(.)   | 12                 | 351                               |                         | H              | 1.1                        | 3.8/2.2                              | 3455                          | 141,4      | 104   | 251,5 | 139,8 | 21,0           | 57             |                  |
| PSR0113(.)   | 13                 | 372                               |                         |                |                            |                                      |                               |            |       |       |       | 21,4           |                |                  |
| PSR0115(.)   | 15                 | 414                               |                         |                |                            |                                      |                               |            |       |       |       | 37,5           |                |                  |
| PSR0117(.)   | 17                 | 456                               |                         | J              | 1.5                        | 6.1/3.5                              | 3555                          | 176        | 128,1 | 439   | 139,8 | 38,0           | 65             |                  |
| PSR0119(.)   | 19                 | 498                               |                         |                |                            |                                      |                               |            |       |       |       | 38,5           |                |                  |
| PSR0121(.)   | 21                 | 540                               |                         |                |                            |                                      |                               |            |       |       |       | K              |                |                  |
| PSR0122(.)   | 22                 | 561                               | 39,5                    |                |                            |                                      |                               |            |       |       |       |                |                |                  |
| PSR0124(.)   | 24                 | 603                               | 40,5                    |                |                            |                                      |                               |            |       |       |       |                |                |                  |
| PSR0126(.)   | 26                 | 645                               | 41,0                    |                |                            |                                      |                               |            |       |       |       |                |                |                  |
| PSR0127(.)   | 27                 | 666                               | 41,5                    |                |                            |                                      |                               |            |       |       |       |                |                |                  |
| PSR0128(.)   | 28                 | 687                               | 41,5                    |                |                            |                                      |                               |            |       |       |       |                |                |                  |

### PSR03(.)



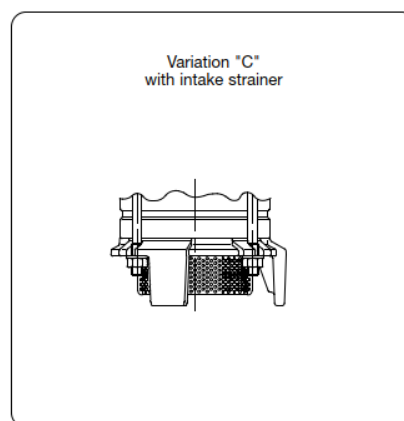
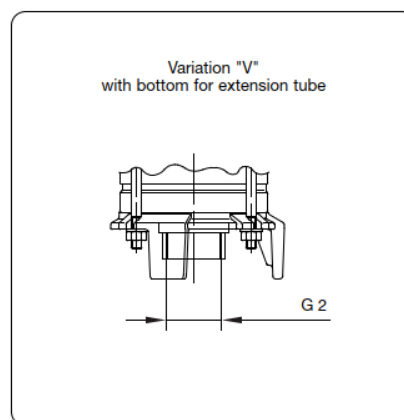
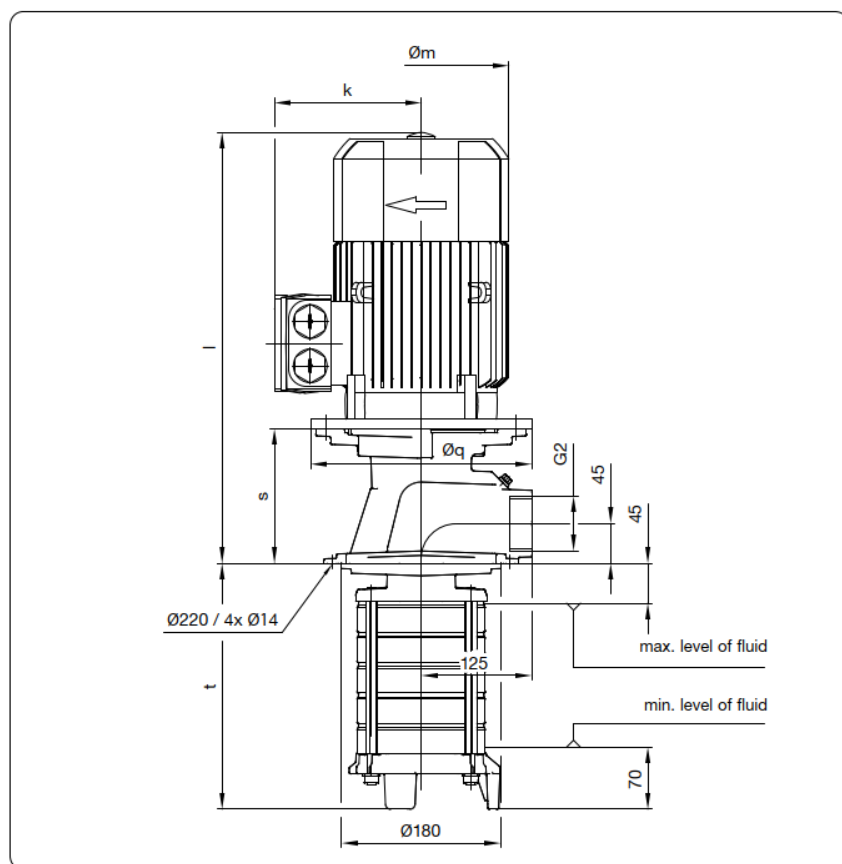
| Type of pump |                    | Immer-<br>sion<br>depth<br><br>t [mm] | Rated motor values      |                |                            |                                      |                               | Dimensions     |       |       |                | Weight<br>[kg] | Noise<br>[dBA] | Pressure<br>port |
|--------------|--------------------|---------------------------------------|-------------------------|----------------|----------------------------|--------------------------------------|-------------------------------|----------------|-------|-------|----------------|----------------|----------------|------------------|
| Model        | n° of<br>impellers |                                       | Voltage<br>Δ/Y<br>U [V] | Motor<br>index | Output<br>power P2<br>[kW] | Current<br>Δ/Y<br>I <sub>N</sub> [A] | Speed<br>n <sub>N</sub> [rpm] | Ø <sub>m</sub> | k     | l     | Ø <sub>q</sub> |                |                |                  |
| PSR0302(.)   | 2                  | 141                                   | 265/460                 | E              | 0.37                       | 1.7/1.0                              | 3485                          | 141,1          | 104   | 251,5 | 139,8          | 13,9           | 57             | G1 1/4"          |
| PSR0303(.)   | 3                  | 162                                   |                         | F              | 0.55                       | 2.1/1.2                              | 3430                          | 141,1          | 104   | 251,5 | 139,8          | 14,3           | 57             |                  |
| PSR0304(.)   | 4                  | 183                                   |                         | G              | 0.75                       | 2.6/1.5                              | 3460                          | 141,1          | 104   | 251,5 | 139,8          | 16,9           | 57             |                  |
| PSR0305(.)   | 5                  | 204                                   |                         |                |                            |                                      |                               |                |       |       |                | 17,3           |                |                  |
| PSR0306(.)   | 6                  | 225                                   |                         | H              | 1.1                        | 3.8/2.2                              | 3455                          | 141,1          | 104   | 251,5 | 139,8          | 19,1           | 57             |                  |
| PSR0307(.)   | 7                  | 246                                   |                         |                |                            |                                      |                               |                |       |       |                | 19,4           |                |                  |
| PSR0308(.)   | 8                  | 267                                   |                         | J              | 1.5                        | 6.1/3.5                              | 3555                          | 176            | 128,1 | 439   | 139,8          | 35,0           | 65             |                  |
| PSR0309(.)   | 9                  | 288                                   |                         |                |                            |                                      |                               |                |       |       |                | 35,5           |                |                  |
| PSR0310(.)   | 10                 | 309                                   |                         |                |                            |                                      |                               |                |       |       |                | 35,5           |                |                  |
| PSR0311(.)   | 11                 | 330                                   |                         | K              | 2.2                        | 7.8/4.5                              | 3515                          | 176            | 128,1 | 439   | 139,8          | 36,0           | 65             |                  |
| PSR0312(.)   | 12                 | 351                                   |                         |                |                            |                                      |                               |                |       |       |                | 36,5           |                |                  |
| PSR0313(.)   | 13                 | 372                                   |                         |                |                            |                                      |                               |                |       |       |                | 37,0           |                |                  |
| PSR0314(.)   | 14                 | 393                                   |                         |                |                            |                                      |                               |                |       |       |                | 37,0           |                |                  |
| PSR0315(.)   | 15                 | 414                                   |                         | L              | 3                          | 11.3/6.5                             | 3550                          | 193            | 143,1 | 472   | 139,8          | 50,0           | 67             |                  |
| PSR0317(.)   | 17                 | 456                                   |                         |                |                            |                                      |                               |                |       |       |                | 50,5           |                |                  |
| PSR0319(.)   | 19                 | 498                                   |                         |                |                            |                                      |                               |                |       |       |                | 51,5           |                |                  |
| PSR0320(.)   | 20                 | 519                                   |                         |                |                            |                                      |                               |                |       |       |                | 51,5           |                |                  |
| PSR0321(.)   | 21                 | 540                                   |                         | M              | 4                          | 12.5/7.2                             | 3555                          | 220            | 150,1 | 481   | 139,8          | 61,5           | 71             |                  |
| PSR0323(.)   | 23                 | 582                                   |                         |                |                            |                                      |                               |                |       |       |                | 62,5           |                |                  |

### PSR05(.)



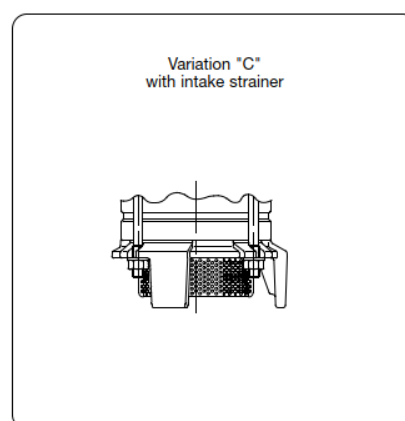
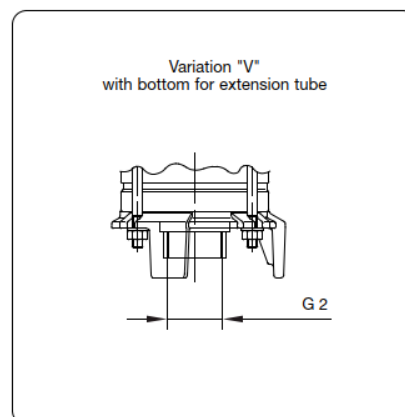
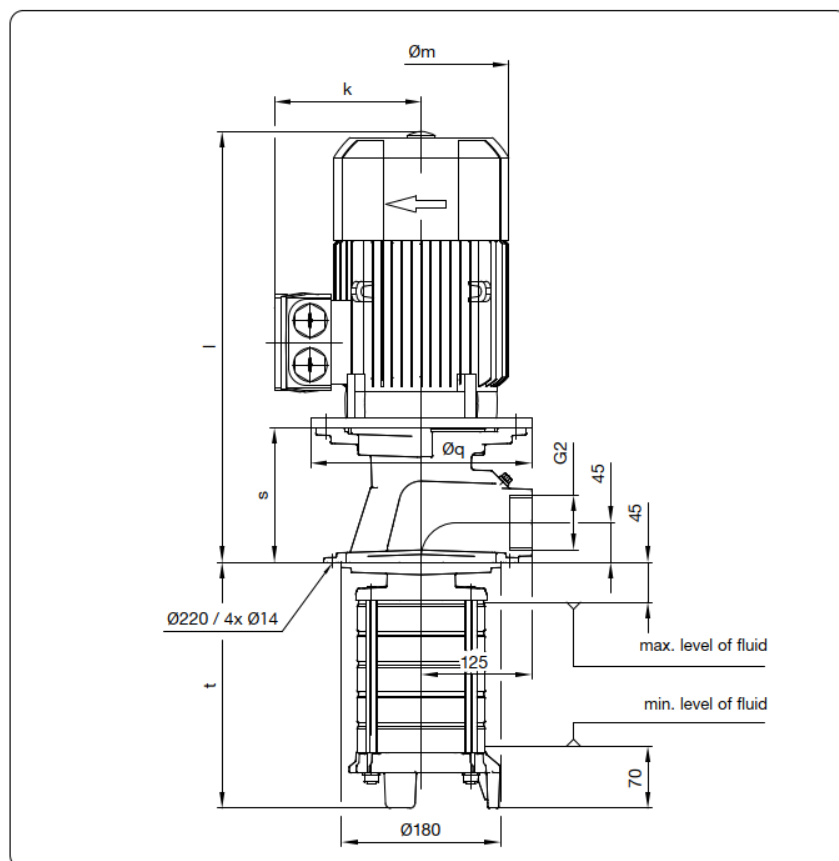
| Type of pump |                    | Immer-<br>sion<br>depth<br>t [mm] | Rated motor values      |                |                            |                                      |                               | Dimensions |       |       |       | Weight<br>[kg] | Noise<br>[dBA] | Pressure<br>port |
|--------------|--------------------|-----------------------------------|-------------------------|----------------|----------------------------|--------------------------------------|-------------------------------|------------|-------|-------|-------|----------------|----------------|------------------|
| Model        | n° of<br>impellers |                                   | Voltage<br>Δ/Y<br>U [V] | Motor<br>index | Output<br>power P2<br>[kW] | Current<br>Δ/Y<br>I <sub>N</sub> [A] | Speed<br>n <sub>N</sub> [rpm] | Øm         | k     | l     | Øq    |                |                |                  |
| PSR0502(.)   | 2                  | 162                               | 265/460                 | G              | 0.75                       | 2.6/1.5                              | 3460                          | 141,4      | 104   | 251,5 | 139,8 | 16,5           | 57             | G1 ¼"            |
| PSR0503(.)   | 3                  | 190                               |                         | H              | 1.1                        | 3.8/2.2                              | 3455                          | 141,4      | 104   | 251,5 | 139,8 | 18,4           | 57             |                  |
| PSR0504(.)   | 4                  | 218                               |                         | J              | 1.5                        | 6.1/3.5                              | 3555                          | 176        | 128,1 | 439   | 139,8 | 34,0           | 65             |                  |
| PSR0505(.)   | 5                  | 246                               |                         | K              | 2.2                        | 7.8/4.5                              | 3515                          | 176        | 128,1 | 439   | 139,8 | 34,5           | 65             |                  |
| PSR0506(.)   | 6                  | 274                               |                         |                |                            |                                      |                               |            |       |       |       | 35,0           |                |                  |
| PSR0507(.)   | 7                  | 302                               |                         | L              | 3                          | 11.3/6.5                             | 3550                          | 193        | 143,1 | 472   | 139,8 | 48,0           | 67             |                  |
| PSR0508(.)   | 8                  | 330                               |                         |                |                            |                                      |                               |            |       |       |       | 48,0           |                |                  |
| PSR0509(.)   | 9                  | 358                               |                         |                |                            |                                      |                               |            |       |       |       | 48,5           |                |                  |
| PSR0510(.)   | 10                 | 386                               |                         |                |                            |                                      |                               |            |       |       |       | 58,5           |                |                  |
| PSR0511(.)   | 11                 | 414                               |                         | M              | 4                          | 12.5/7.2                             | 3555                          | 220        | 150,1 | 481   | 139,8 | 59,0           | 71             |                  |
| PSR0512(.)   | 12                 | 442                               |                         |                |                            |                                      |                               |            |       |       |       | 59,5           |                |                  |
| PSR0513(.)   | 13                 | 470                               | Δ 460                   | N              | 5.5                        | 9.2                                  | 3550                          | 259        | 178,1 | 556   | 139,8 | 73,5           | 73             | G1 ¼"            |
| PSR0514(.)   | 14                 | 498                               |                         |                |                            |                                      |                               |            |       |       |       | 74,0           |                |                  |
| PSR0515(.)   | 15                 | 526                               |                         |                |                            |                                      |                               |            |       |       |       | 74,5           |                |                  |
| PSR0516(.)   | 16                 | 554                               |                         |                |                            |                                      |                               |            |       |       |       | 75,0           |                |                  |
| PSR0517(.)   | 17                 | 582                               |                         |                |                            |                                      |                               |            |       |       |       | 75,5           |                |                  |
| PSR0519(.)   | 19                 | 638                               |                         | O              | 7.5                        | 12.4                                 | 3555                          | 259        | 178,1 | 556   | 139,8 | 83,0           | 73             |                  |

### PSR10(.)



| Type of pump |                    | Immer-<br>sion<br>depth<br>t [mm] | Rated motor values      |                |                            |                                      |                               | Dimensions     |     |     |                | Weight<br>[kg] | Noise<br>[dBA] | Pressure<br>port |
|--------------|--------------------|-----------------------------------|-------------------------|----------------|----------------------------|--------------------------------------|-------------------------------|----------------|-----|-----|----------------|----------------|----------------|------------------|
| Model        | n° of<br>impellers |                                   | Voltage<br>Δ/Y<br>U [V] | Motor<br>index | Output<br>power P2<br>[kW] | Current<br>Δ/Y<br>I <sub>N</sub> [A] | Speed<br>n <sub>N</sub> [rpm] | Ø <sub>m</sub> | k   | l   | Ø <sub>q</sub> |                |                |                  |
| PSR1001(.)   | 1                  | 196                               | 265/460                 | G              | 0.75                       | 2.6/1.5                              | 3520                          | 160            | 128 | 364 | 200            | 28,5           | 57             | G2"              |
| PSR1002(.)   | 2                  | 196                               |                         | J              | 1.5                        | 4.7/2.7                              | 3490                          | 180            | 148 | 409 | 200            | 34,0           | 65             |                  |
| PSR1003(.)   | 3                  | 226                               |                         | K              | 2.2                        | 6.8/3.9                              | 3500                          | 180            | 148 | 409 | 200            | 37,0           | 65             |                  |
| PSR1004(.)   | 4                  | 256                               |                         | L              | 3                          | 8.3/4.8                              | 3505                          | 196            | 144 | 480 | 250            | 45,0           | 67             |                  |
| PSR1005(.)   | 5                  | 286                               |                         | M              | 4                          | 12.5/7.2                             | 3520                          | 225            | 160 | 480 | 250            | 50,5           | 71             |                  |
| PSR1006(.)   | 6                  | 316                               |                         |                |                            |                                      |                               |                |     |     |                | 51,0           |                |                  |
| PSR1007(.)   | 7                  | 346                               | Δ 460                   | N              | 5.5                        | 8.9                                  | 3530                          | 220            | 152 | 600 | 300            | 69,0           | 73             |                  |
| PSR1008(.)   | 8                  | 376                               |                         |                |                            |                                      |                               |                |     |     |                | 70,0           |                |                  |
| PSR1009(.)   | 9                  | 406                               |                         |                |                            |                                      |                               |                |     |     |                | 71,0           |                |                  |
| PSR1010(.)   | 10                 | 436                               |                         |                |                            |                                      |                               |                |     |     |                | 78,5           |                |                  |
| PSR1011(.)   | 11                 | 466                               |                         | O              | 7.5                        | 11.9                                 | 3515                          | 220            | 152 | 620 | 300            | 79,5           | 73             |                  |
| PSR1012(.)   | 12                 | 496                               |                         |                |                            |                                      |                               |                |     |     |                | 80,0           |                |                  |
| PSR1014(.)   | 14                 | 556                               |                         |                |                            |                                      |                               |                |     |     |                | 102,0          |                |                  |
| PSR1015(.)   | 15                 | 586                               |                         | P              | 11                         | 18.5                                 | 3535                          | 259            | 178 | 673 | 350            | 103,0          | 78             |                  |
| PSR1016(.)   | 16                 | 616                               |                         |                |                            |                                      |                               |                |     |     |                | 104,0          |                |                  |

### PSR15(.)



| Type of pump |                    | Immer-<br>sion<br>depth<br>t [mm] | Rated motor values      |                |                            |                                      |                               | Dimensions |     |     |       | Weight<br>[kg] | Noise<br>[dBA] | Pressure<br>port |
|--------------|--------------------|-----------------------------------|-------------------------|----------------|----------------------------|--------------------------------------|-------------------------------|------------|-----|-----|-------|----------------|----------------|------------------|
| Model        | n° of<br>impellers |                                   | Voltage<br>Δ/Y<br>U [V] | Motor<br>index | Output<br>power P2<br>[kW] | Current<br>Δ/Y<br>I <sub>N</sub> [A] | Speed<br>n <sub>N</sub> [rpm] | Øm         | k   | l   | Øq    |                |                |                  |
| PSR1501(.)   | 1                  | 226                               | 265/460                 | J              | 1.5                        | 4.7/2.7                              | 3490                          | 180        | 148 | 409 | 200   | 34,0           | 65             | G2"              |
| PSR1502(.)   | 2                  | 226                               |                         | L              | 3                          | 8.3/4.8                              | 3505                          | 196        | 144 | 458 | 250   | 44,0           | 67             |                  |
| PSR1503(.)   | 3                  | 266                               |                         | N              | 5.5                        | 8.9                                  | 3530                          | 220        | 152 | 600 | 300   | 67,0           | 73             |                  |
| PSR1504(.)   | 4                  | 306                               | Δ 460                   | O              | 7.5                        | 11.9                                 | 3515                          | 220        | 152 | 620 | 300   | 75,0           | 73             |                  |
| PSR1505(.)   | 5                  | 346                               |                         |                |                            |                                      |                               |            |     |     |       | 76,0           |                |                  |
| PSR1506(.)   | 6                  | 386                               |                         | P              | 11                         | 18.5                                 | 3535                          | 259        | 178 | 673 | 350   | 97,5           | 78             |                  |
| PSR1507(.)   | 7                  | 426                               |                         |                |                            |                                      |                               |            |     |     |       | 98,5           |                |                  |
| PSR1508(.)   | 8                  | 466                               |                         | Q              | 15                         | 23.2                                 | 3545                          | 310,8      | 240 | 728 | 350   | 138,0          | 75             |                  |
| PSR1509(.)   | 9                  | 506                               |                         |                |                            |                                      |                               |            |     |     |       | 139,0          |                |                  |
| PSR1510 (.)  | 10                 | 546                               | 140,5                   |                |                            |                                      |                               |            |     |     |       |                |                |                  |
| PSR1511(.)   | 11                 | 586                               | R                       | 18.5           | 28.7                       | 3555                                 | 310,8                         | 240        | 728 | 350 | 149,5 | 75             |                |                  |
| PSR1512(.)   | 12                 | 626                               |                         |                |                            |                                      |                               |            |     |     | 150,5 |                |                |                  |

### EMPTY STAGES AVAILABILITY

| PSR01(.)     |      |      |      |     |     |     |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |  |  |  |    |
|--------------|------|------|------|-----|-----|-----|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|--|--|--|----|
| N° IMPELLERS |      |      |      |     |     |     |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |  |  |  | ID |
|              | 2    | 3    | 4    | 5   | 6   | 7   | 8 | 9 | 10 | 11 | 12 | 13 | 15 | 17 | 19 | 21 | 22 | 24 | 26 | 27 | 28 | [mm] |     |  |  |  |    |
| N° STAGES    | 2    | •    |      |     |     |     |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |      | 141 |  |  |  |    |
|              | 3    | •    | •    |     |     |     |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |      | 162 |  |  |  |    |
|              | 4    | •    | •    | •   |     |     |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |      | 183 |  |  |  |    |
|              | 5    | •    | •    | •   | •   |     |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |      | 204 |  |  |  |    |
|              | 6    | •    | •    | •   | •   | •   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |      | 225 |  |  |  |    |
|              | 7    | •    | •    | •   | •   | •   | • |   |    |    |    |    |    |    |    |    |    |    |    |    |    |      | 246 |  |  |  |    |
|              | 8    | •    | •    | •   | •   | •   | • | • |    |    |    |    |    |    |    |    |    |    |    |    |    |      | 267 |  |  |  |    |
|              | 9    | •    | •    | •   | •   | •   | • | • | •  |    |    |    |    |    |    |    |    |    |    |    |    |      | 288 |  |  |  |    |
|              | 10   | •    | •    | •   | •   | •   | • | • | •  | •  |    |    |    |    |    |    |    |    |    |    |    |      | 309 |  |  |  |    |
|              | 11   | •    | •    | •   | •   | •   | • | • | •  | •  | •  |    |    |    |    |    |    |    |    |    |    |      | 330 |  |  |  |    |
|              | 12   | •    | •    | •   | •   | •   | • | • | •  | •  | •  | •  |    |    |    |    |    |    |    |    |    |      | 351 |  |  |  |    |
|              | 13   | •    | •    | •   | •   | •   | • | • | •  | •  | •  | •  | •  |    |    |    |    |    |    |    |    |      | 372 |  |  |  |    |
|              | 15   | •    | •    | •   | •   | •   | • | • | •  | •  | •  | •  | •  | •  |    |    |    |    |    |    |    |      | 414 |  |  |  |    |
|              | 17   |      |      |     |     |     |   |   |    |    |    |    |    |    | •  |    |    |    |    |    |    |      | 456 |  |  |  |    |
|              | 19   |      |      |     |     |     |   |   |    |    |    |    |    |    | •  | •  |    |    |    |    |    |      | 498 |  |  |  |    |
|              | 21   |      |      |     |     |     |   |   |    |    |    |    |    |    | •  | •  | •  |    |    |    |    |      | 540 |  |  |  |    |
|              | 22   |      |      |     |     |     |   |   |    |    |    |    |    |    | •  | •  | •  | •  |    |    |    |      | 561 |  |  |  |    |
| 24           |      |      |      |     |     |     |   |   |    |    |    |    |    | •  | •  | •  | •  | •  |    |    |    | 603  |     |  |  |  |    |
| 26           |      |      |      |     |     |     |   |   |    |    |    |    |    | •  | •  | •  | •  | •  | •  |    |    | 645  |     |  |  |  |    |
| 27           |      |      |      |     |     |     |   |   |    |    |    |    |    | •  | •  | •  | •  | •  | •  | •  |    | 666  |     |  |  |  |    |
| 28           |      |      |      |     |     |     |   |   |    |    |    |    |    | •  | •  | •  | •  | •  | •  | •  | •  | 687  |     |  |  |  |    |
| 31           |      |      |      |     |     |     |   |   |    |    |    |    |    | •  | •  | •  | •  | •  | •  | •  | •  | 750  |     |  |  |  |    |
| 33           |      |      |      |     |     |     |   |   |    |    |    |    |    | •  | •  | •  | •  | •  | •  | •  | •  | 792  |     |  |  |  |    |
| 34           |      |      |      |     |     |     |   |   |    |    |    |    |    | •  | •  | •  | •  | •  | •  | •  | •  | 813  |     |  |  |  |    |
| 37           |      |      |      |     |     |     |   |   |    |    |    |    |    | •  | •  | •  | •  | •  | •  | •  | •  | 876  |     |  |  |  |    |
| POWER        | 0.37 | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |      |     |  |  |  |    |

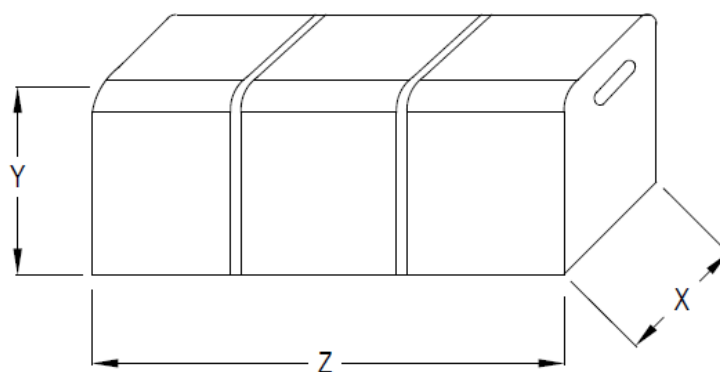
| PSR10(.)     |       |      |     |     |   |   |     |     |    |    |    |    |    |    |    |      |  |
|--------------|-------|------|-----|-----|---|---|-----|-----|----|----|----|----|----|----|----|------|--|
| N° IMPELLERS |       |      |     |     |   |   |     |     |    |    |    |    |    |    |    | ID   |  |
|              | 1     | 2    | 3   | 4   | 5 | 6 | 7   | 8   | 9  | 10 | 11 | 12 | 14 | 15 | 16 | [mm] |  |
| N° STAGES    | 1     |      |     |     |   |   |     |     |    |    |    |    |    |    |    |      |  |
|              | 2     | •    | •   |     |   |   |     |     |    |    |    |    |    |    |    | 196  |  |
|              | 3     | •    | •   | •   |   |   |     |     |    |    |    |    |    |    |    | 226  |  |
|              | 4     | •    | •   | •   | • |   |     |     |    |    |    |    |    |    |    | 256  |  |
|              | 5     | •    | •   | •   | • | • |     |     |    |    |    |    |    |    |    | 286  |  |
|              | 6     | •    | •   | •   | • | • | •   |     |    |    |    |    |    |    |    | 316  |  |
|              | 7     | •    | •   | •   | • | • | •   | •   |    |    |    |    |    |    |    | 346  |  |
|              | 8     | •    | •   | •   | • | • | •   | •   | •  |    |    |    |    |    |    | 376  |  |
|              | 9     | •    | •   | •   | • | • | •   | •   | •  | •  |    |    |    |    |    | 406  |  |
|              | 10    | •    | •   | •   | • | • | •   | •   | •  | •  | •  |    |    |    |    | 436  |  |
|              | 11    | •    | •   | •   | • | • | •   | •   | •  | •  | •  | •  |    |    |    | 466  |  |
|              | 12    | •    | •   | •   | • | • | •   | •   | •  | •  | •  | •  | •  |    |    | 496  |  |
|              | 14    | •    | •   | •   | • | • | •   | •   | •  | •  | •  | •  | •  | •  |    | 556  |  |
|              | 15    | •    | •   | •   | • | • | •   | •   | •  | •  | •  | •  | •  | •  | •  | 586  |  |
|              | 16    | •    | •   | •   | • | • | •   | •   | •  | •  | •  | •  | •  | •  | •  | •    |  |
|              | 18    | •    | •   | •   | • | • | •   | •   | •  | •  | •  | •  | •  | •  | •  | •    |  |
|              | 19    | •    | •   | •   | • | • | •   | •   | •  | •  | •  | •  | •  | •  | •  | •    |  |
|              | 21    | •    | •   | •   | • | • | •   | •   | •  | •  | •  | •  | •  | •  | •  | •    |  |
|              | 22    | •    | •   | •   | • | • | •   | •   | •  | •  | •  | •  | •  | •  | •  | •    |  |
|              | 23    | •    | •   | •   | • | • | •   | •   | •  | •  | •  | •  | •  | •  | •  | •    |  |
|              | POWER | 0.75 | 1.5 | 2.2 | 3 | 4 | 5.5 | 7.5 | 11 |    |    |    |    |    |    |      |  |

| PSR03(.)     |      |      |      |     |     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     | ID   |
|--------------|------|------|------|-----|-----|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|------|
| N° IMPELLERS |      |      |      |     |     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     | [mm] |
| 2            | •    |      |      |     |     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 141 |      |
| 3            | •    | •    |      |     |     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 162 |      |
| 4            | •    | •    | •    |     |     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 183 |      |
| 5            | •    | •    | •    | •   |     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 204 |      |
| 6            | •    | •    | •    | •   | •   |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 225 |      |
| 7            | •    | •    | •    | •   | •   | •   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 246 |      |
| 8            | •    | •    | •    | •   | •   | •   | • |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 267 |      |
| 9            | •    | •    | •    | •   | •   | •   | • | • |   |   |   |   |   |   |   |   |   |   |   |   |   | 288 |      |
| 10           | •    | •    | •    | •   | •   | •   | • | • | • |   |   |   |   |   |   |   |   |   |   |   |   | 309 |      |
| 11           | •    | •    | •    | •   | •   | •   | • | • | • | • |   |   |   |   |   |   |   |   |   |   |   | 330 |      |
| 12           | •    | •    | •    | •   | •   | •   | • | • | • | • | • |   |   |   |   |   |   |   |   |   |   | 351 |      |
| 13           | •    | •    | •    | •   | •   | •   | • | • | • | • | • | • |   |   |   |   |   |   |   |   |   | 372 |      |
| 14           | •    | •    | •    | •   | •   | •   | • | • | • | • | • | • | • |   |   |   |   |   |   |   |   | 393 |      |
| 15           | •    | •    | •    | •   | •   | •   | • | • | • | • | • | • | • | • |   |   |   |   |   |   |   | 414 |      |
| 17           |      |      |      |     |     |     |   |   |   |   |   |   |   |   | • |   |   |   |   |   |   | 456 |      |
| 19           |      |      |      |     |     |     |   |   |   |   |   |   |   |   | • | • |   |   |   |   |   | 498 |      |
| 20           |      |      |      |     |     |     |   |   |   |   |   |   |   |   | • | • | • |   |   |   |   | 519 |      |
| 21           |      |      |      |     |     |     |   |   |   |   |   |   |   |   | • | • | • | • |   |   |   | 540 |      |
| 23           |      |      |      |     |     |     |   |   |   |   |   |   |   |   | • | • | • | • | • |   |   | 582 |      |
| 25           |      |      |      |     |     |     |   |   |   |   |   |   |   |   | • | • | • | • | • | • |   | 624 |      |
| 27           |      |      |      |     |     |     |   |   |   |   |   |   |   |   | • | • | • | • | • | • | • | 666 |      |
| 30           |      |      |      |     |     |     |   |   |   |   |   |   |   |   | • | • | • | • | • | • | • | 729 |      |
| 31           |      |      |      |     |     |     |   |   |   |   |   |   |   |   | • | • | • | • | • | • | • | 750 |      |
| 33           |      |      |      |     |     |     |   |   |   |   |   |   |   |   | • | • | • | • | • | • | • | 792 |      |
| POWER        | 0.37 | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 | 3 | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |     |      |

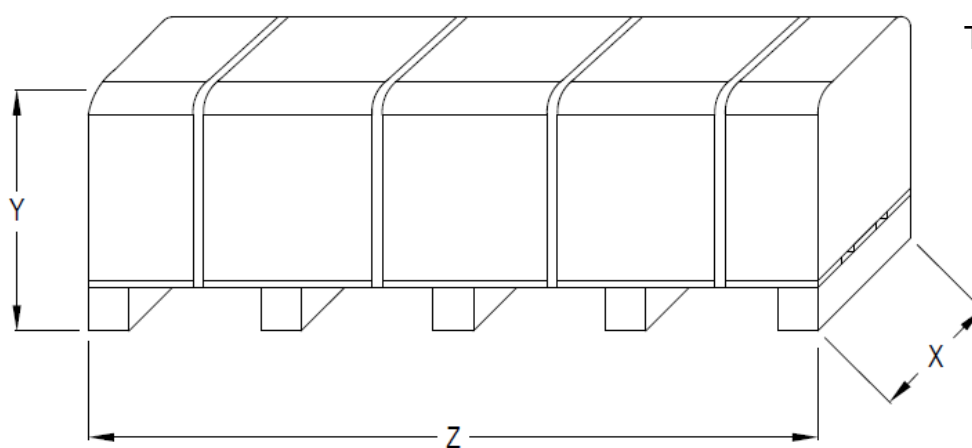
| PSR15(.)  |              |   |     |     |    |    |      |   |   |   |    |    |     |      |
|-----------|--------------|---|-----|-----|----|----|------|---|---|---|----|----|-----|------|
| N° STAGES | N° IMPELLERS |   |     |     |    |    |      |   |   |   |    |    | ID  |      |
|           |              | 1 | 2   | 3   | 4  | 5  | 6    | 7 | 8 | 9 | 10 | 11 | 12  | [mm] |
|           | 1            |   |     |     |    |    |      |   |   |   |    |    |     |      |
|           | 2            | ● | ●   |     |    |    |      |   |   |   |    |    |     | 226  |
|           | 3            | ● | ●   | ●   |    |    |      |   |   |   |    |    |     | 266  |
|           | 4            | ● | ●   | ●   | ●  |    |      |   |   |   |    |    |     | 306  |
|           | 5            | ● | ●   | ●   | ●  | ●  |      |   |   |   |    |    |     | 346  |
|           | 6            | ● | ●   | ●   | ●  | ●  | ●    |   |   |   |    |    |     | 386  |
|           | 7            | ● | ●   | ●   | ●  | ●  | ●    | ● |   |   |    |    |     | 426  |
|           | 8            | ● | ●   | ●   | ●  | ●  | ●    | ● | ● |   |    |    |     | 466  |
| 9         | ●            | ● | ●   | ●   | ●  | ●  | ●    | ● | ● |   |    |    | 506 |      |
| 10        | ●            | ● | ●   | ●   | ●  | ●  | ●    | ● | ● | ● |    |    | 546 |      |
| 11        | ●            | ● | ●   | ●   | ●  | ●  | ●    | ● | ● | ● | ●  |    | 586 |      |
| 12        | ●            | ● | ●   | ●   | ●  | ●  | ●    | ● | ● | ● | ●  | ●  | 626 |      |
| 13        | ●            | ● | ●   | ●   | ●  | ●  | ●    | ● | ● | ● | ●  | ●  | 666 |      |
| 15        | ●            | ● | ●   | ●   | ●  | ●  | ●    | ● | ● | ● | ●  | ●  | 746 |      |
| 17        | ●            | ● | ●   | ●   | ●  | ●  | ●    | ● | ● | ● | ●  | ●  | 826 |      |
| POWER     | 1.5          | 3 | 5.5 | 7.5 | 11 | 15 | 18.5 |   |   |   |    |    |     |      |

| PSR05(.)     |      |     |     |     |   |   |   |   |   |    |    |    |    |    |     |    |     |      |    |
|--------------|------|-----|-----|-----|---|---|---|---|---|----|----|----|----|----|-----|----|-----|------|----|
| N° IMPELLERS |      |     |     |     |   |   |   |   |   |    |    |    |    |    |     |    |     |      | ID |
| N° STAGES    |      | 2   | 3   | 4   | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15  | 16 | 19  | [mm] |    |
|              | 2    | ●   |     |     |   |   |   |   |   |    |    |    |    |    |     |    |     | 162  |    |
|              | 3    | ●   | ●   |     |   |   |   |   |   |    |    |    |    |    |     |    |     | 190  |    |
|              | 4    | ●   |     | ●   |   |   |   |   |   |    |    |    |    |    |     |    |     | 218  |    |
|              | 5    | ●   |     |     | ● |   |   |   |   |    |    |    |    |    |     |    |     | 246  |    |
|              | 6    |     |     |     |   | ● |   |   |   |    |    |    |    |    |     |    |     | 274  |    |
|              | 7    |     |     |     | ● | ● |   | ● |   |    |    |    |    |    |     |    |     | 302  |    |
|              | 8    |     |     | ●   | ● | ● |   | ● | ● |    |    |    |    |    |     |    |     | 330  |    |
|              | 9    |     |     | ●   | ● | ● | ● | ● | ● |    |    |    |    |    |     |    |     | 358  |    |
|              | 10   |     |     |     | ● | ● | ● | ● | ● | ●  |    | ●  |    |    |     |    |     | 386  |    |
|              | 11   |     |     |     | ● | ● | ● | ● | ● | ●  | ●  | ●  |    |    |     |    |     | 414  |    |
|              | 12   |     |     |     | ● | ● | ● | ● | ● | ●  | ●  | ●  | ●  |    |     |    |     | 442  |    |
|              | 13   |     |     | ●   | ● | ● | ● | ● | ● | ●  | ●  | ●  | ●  | ●  |     |    |     | 470  |    |
| 14           |      |     | ●   | ●   | ● | ● | ● | ● | ● | ●  | ●  | ●  | ●  | ●  |     |    | 498 |      |    |
| 15           |      |     | ●   | ●   | ● | ● | ● | ● | ● | ●  | ●  | ●  | ●  | ●  | ●   |    | 526 |      |    |
| 16           |      |     | ●   | ●   | ● | ● | ● | ● | ● | ●  | ●  | ●  | ●  | ●  | ●   | ●  | 554 |      |    |
| 19           |      |     | ●   | ●   | ● | ● | ● | ● | ● | ●  | ●  | ●  | ●  | ●  | ●   | ●  | 638 |      |    |
| 20           |      |     | ●   | ●   | ● | ● | ● | ● | ● | ●  | ●  | ●  | ●  | ●  | ●   | ●  | 666 |      |    |
| 23           |      |     | ●   | ●   | ● | ● | ● | ● | ● | ●  | ●  | ●  | ●  | ●  | ●   | ●  | 750 |      |    |
| 25           |      |     | ●   | ●   | ● | ● | ● | ● | ● | ●  | ●  | ●  | ●  | ●  | ●   | ●  | 806 |      |    |
| 27           |      |     | ●   | ●   | ● | ● | ● | ● | ● | ●  | ●  | ●  | ●  | ●  | ●   | ●  | 862 |      |    |
| POWER        | 0.75 | 1.1 | 1.5 | 2.2 | 3 |   |   |   |   | 12 |    |    |    |    | 5.5 |    |     | 7.5  |    |

### PACKING



TYPE 1



TYPE 2

|    | Model      | Packing dimension [mm] |     |      | Pack type | Weight [kg] |
|----|------------|------------------------|-----|------|-----------|-------------|
|    |            | X                      | Y   | Z    |           |             |
| 1  | PSR0102(.) | 260                    | 235 | 530  | 1         | 16.0        |
|    | PSR0103(.) | 260                    | 235 | 530  | 1         | 16.0        |
|    | PSR0104(.) | 260                    | 235 | 530  | 1         | 17.0        |
|    | PSR0105(.) | 260                    | 235 | 530  | 1         | 17.0        |
|    | PSR0106(.) | 260                    | 235 | 530  | 1         | 17.0        |
|    | PSR0107(.) | 260                    | 235 | 530  | 1         | 18.0        |
|    | PSR0108(.) | 300                    | 260 | 650  | 1         | 20.0        |
|    | PSR0109(.) | 300                    | 260 | 650  | 1         | 21.0        |
|    | PSR0110(.) | 300                    | 260 | 650  | 1         | 21.0        |
|    | PSR0111(.) | 300                    | 260 | 650  | 1         | 23.0        |
|    | PSR0112(.) | 300                    | 260 | 650  | 1         | 23.0        |
|    | PSR0113(.) | 280                    | 260 | 790  | 1         | 24.0        |
|    | PSR0115(.) | 400                    | 430 | 1000 | 2         | 46.0        |
|    | PSR0117(.) | 400                    | 430 | 1000 | 2         | 46.0        |
|    | PSR0119(.) | 400                    | 430 | 1000 | 2         | 47.0        |
|    | PSR0121(.) | 400                    | 430 | 1200 | 2         | 50.0        |
|    | PSR0122(.) | 400                    | 430 | 1200 | 2         | 50.0        |
|    | PSR0124(.) | 400                    | 430 | 1200 | 2         | 51.0        |
|    | PSR0126(.) | 400                    | 430 | 1200 | 2         | 51.0        |
|    | PSR0127(.) | 400                    | 430 | 1200 | 2         | 52.0        |
|    | PSR0128(.) | 400                    | 430 | 1200 | 2         | 52.0        |
| 03 | PSR0302(.) | 260                    | 235 | 530  | 1         | 16.0        |
|    | PSR0303(.) | 260                    | 235 | 530  | 1         | 16.0        |
|    | PSR0304(.) | 260                    | 235 | 530  | 1         | 19.0        |
|    | PSR0305(.) | 260                    | 235 | 530  | 1         | 19.0        |
|    | PSR0306(.) | 260                    | 235 | 530  | 1         | 21.0        |
|    | PSR0307(.) | 260                    | 235 | 530  | 1         | 22.0        |
|    | PSR0308(.) | 400                    | 430 | 1000 | 2         | 43.0        |
|    | PSR0309(.) | 400                    | 430 | 1000 | 2         | 44.0        |
|    | PSR0310(.) | 400                    | 430 | 1000 | 2         | 44.0        |
|    | PSR0311(.) | 400                    | 430 | 1000 | 2         | 44.0        |
|    | PSR0312(.) | 400                    | 430 | 1000 | 2         | 45.0        |
|    | PSR0313(.) | 400                    | 430 | 1000 | 2         | 45.0        |
|    | PSR0314(.) | 400                    | 430 | 1000 | 2         | 45.0        |
|    | PSR0315(.) | 400                    | 430 | 1000 | 2         | 58.0        |
|    | PSR0317(.) | 400                    | 430 | 1200 | 2         | 61.0        |
|    | PSR0319(.) | 400                    | 430 | 1200 | 2         | 62.0        |
|    | PSR0320(.) | 400                    | 430 | 1200 | 2         | 62.0        |
|    | PSR0321(.) | 400                    | 430 | 1200 | 2         | 72.0        |
|    | PSR0323(.) | 400                    | 430 | 1200 | 2         | 73.0        |
| 05 | PSR0502(.) | 260                    | 235 | 530  | 1         | 19.0        |
|    | PSR0503(.) | 260                    | 235 | 530  | 1         | 21.0        |
|    | PSR0504(.) | 400                    | 430 | 1000 | 2         | 42.0        |
|    | PSR0505(.) | 400                    | 430 | 1000 | 2         | 43.0        |
|    | PSR0506(.) | 400                    | 430 | 1000 | 2         | 43.0        |
|    | PSR0507(.) | 400                    | 430 | 1000 | 2         | 56.0        |
|    | PSR0508(.) | 400                    | 430 | 1000 | 2         | 56.0        |
|    | PSR0509(.) | 400                    | 430 | 1000 | 2         | 57.0        |
|    | PSR0510(.) | 400                    | 430 | 1000 | 2         | 67.0        |
|    | PSR0511(.) | 400                    | 430 | 1000 | 2         | 67.0        |
|    | PSR0512(.) | 400                    | 430 | 1200 | 2         | 70.0        |
|    | PSR0513(.) | 400                    | 430 | 1200 | 2         | 84.0        |
|    | PSR0514(.) | 400                    | 430 | 1200 | 2         | 84.0        |
|    | PSR0515(.) | 400                    | 430 | 1200 | 2         | 85.0        |
|    | PSR0516(.) | 400                    | 430 | 1200 | 2         | 85.0        |
|    | PSR0519(.) | 500                    | 430 | 1350 | 2         | 97.0        |

|    | Model      | Packing dimension [mm] |     |      | Pack type | Weight [kg] |
|----|------------|------------------------|-----|------|-----------|-------------|
|    |            | X                      | Y   | Z    |           |             |
| 10 | PSR1001(.) | 400                    | 430 | 1000 | 2         | 37.0        |
|    | PSR1002(.) | 400                    | 430 | 1000 | 2         | 42.0        |
|    | PSR1003(.) | 400                    | 430 | 1000 | 2         | 45.0        |
|    | PSR1004(.) | 400                    | 430 | 1000 | 2         | 53.0        |
|    | PSR1005(.) | 400                    | 430 | 1000 | 2         | 59.0        |
|    | PSR1006(.) | 400                    | 430 | 1000 | 2         | 59.0        |
|    | PSR1007(.) | 400                    | 430 | 1200 | 2         | 79.0        |
|    | PSR1008(.) | 400                    | 430 | 1200 | 2         | 80.0        |
|    | PSR1009(.) | 400                    | 430 | 1200 | 2         | 81.0        |
|    | PSR1010(.) | 400                    | 430 | 1200 | 2         | 89.0        |
|    | PSR1011(.) | 400                    | 430 | 1200 | 2         | 90.0        |
|    | PSR1012(.) | 400                    | 430 | 1200 | 2         | 90.0        |
|    | PSR1014(.) | 500                    | 430 | 1350 | 2         | 116.0       |
|    | PSR1015(.) | 500                    | 430 | 1350 | 2         | 117.0       |
|    | PSR1016(.) | 500                    | 430 | 1540 | 2         | 121.0       |
| 15 | PSR1501(.) | 400                    | 430 | 1000 | 2         | 42.0        |
|    | PSR1502(.) | 400                    | 430 | 1000 | 2         | 52.0        |
|    | PSR1503(.) | 400                    | 430 | 1000 | 2         | 75.0        |
|    | PSR1504(.) | 400                    | 430 | 1200 | 2         | 85.0        |
|    | PSR1505(.) | 400                    | 430 | 1200 | 2         | 86.0        |
|    | PSR1506(.) | 400                    | 430 | 1200 | 2         | 108.0       |
|    | PSR1507(.) | 400                    | 430 | 1200 | 2         | 109.0       |
|    | PSR1508(.) | 500                    | 430 | 1350 | 2         | 152.0       |
|    | PSR1509(.) | 500                    | 430 | 1350 | 2         | 153.0       |
|    | PSR1510(.) | 500                    | 430 | 1540 | 2         | 158.0       |
|    | PSR1511(.) | 500                    | 430 | 1540 | 2         | 167.0       |
|    | PSR1512(.) | 500                    | 430 | 1540 | 2         | 168.0       |

**Spandau  
pumpen**

— by **EBARA**

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