

POMONA

Self-priming centrifugal pumps

50 Hz



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GRUNDFOS 

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1. General description

Product introduction

Universal self-priming wastewater pumps with electric motors or combustion engines for stationary, portable and mobile use.



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Fig. 1 POMONA PO23 with electric motor on carrying frame

The self-priming POMONA wastewater pump is a well proven and reliable product for numerous applications in construction industry, machine industry and trade. It is characterised by its rugged construction and wide range of applications within water supply and dewatering. These self-priming wastewater pumps have a wide range of applications. The customer can select between the stationary variant on a base frame, the portable variant on a carrying frame and the mobile variant on a trolley.

CE mark and approval



Fig. 2 CE mark and approval

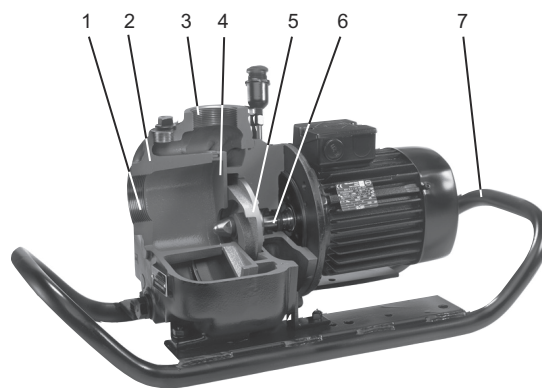
Applications

POMONA pumps are designed for applications such as:

- dewatering of construction sites
- draining of stormwater
- groundwater level control
- irrigation of gardens and parks
- water supply in agriculture and horticulture
- well-tube injection
- emergency pumping, i.e. flooded areas, fire, etc.
- draining of yachts and motor boats.

The pumps are suitable for both temporary and permanent installation.

Cutaway view



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Fig. 3 Cutaway view of POMONA PO23 with electric motor on carrying frame

| Pos. | Description |
|------|------------------------------------|
| 1 | Suction side |
| 2 | Pump housing |
| 3 | Discharge side |
| 4 | Wear plate |
| 5 | Impeller |
| 6 | Housing cover with mechanical seal |
| 7 | Carrying frame |

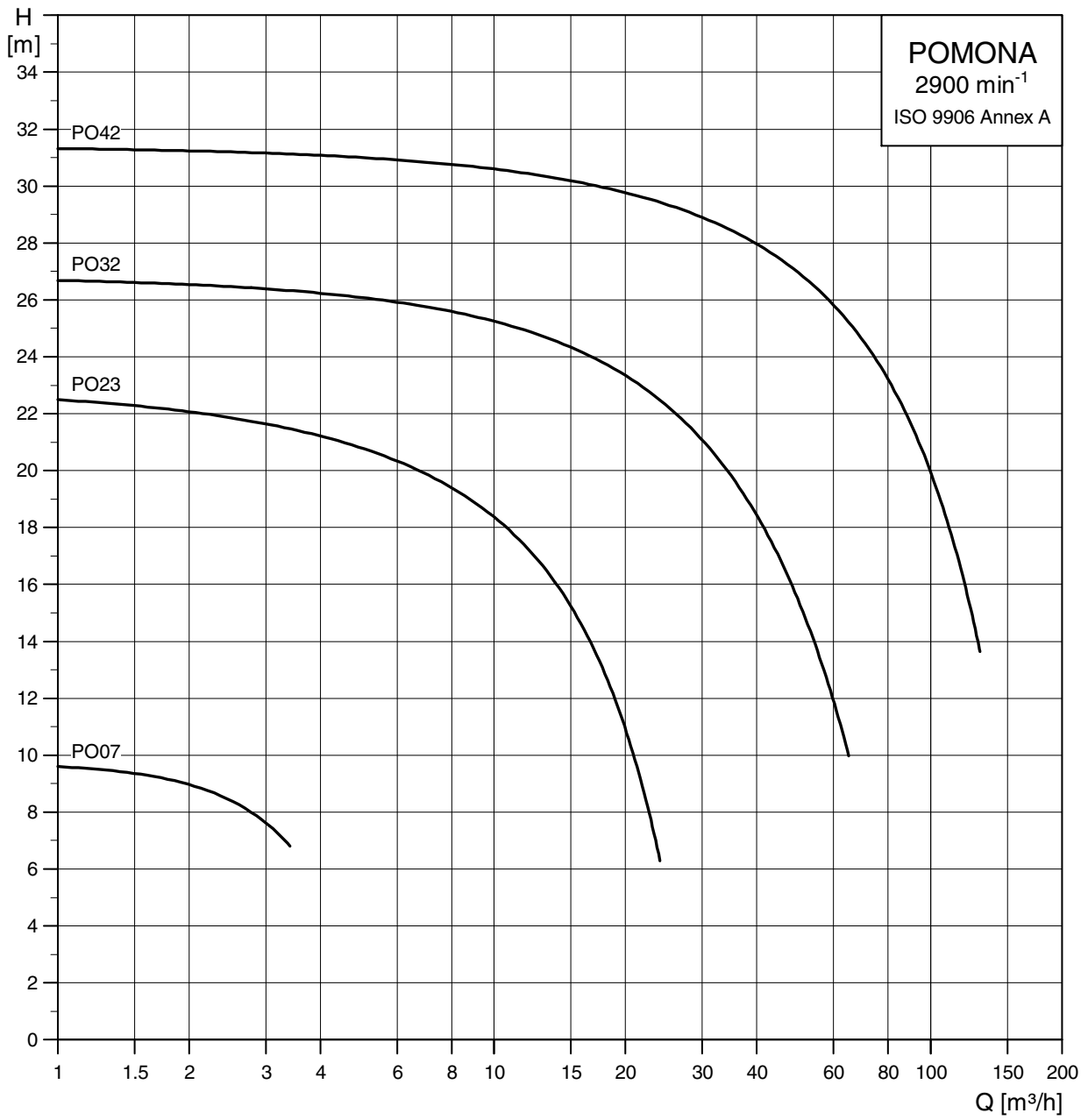
Features and benefits

- POMONA can be supplied with electric motors or internal-combustion engines.
 - Flexibility with independence.
- Pump and driver form a robust and compact close-coupled unit with small overall dimensions.
 - Compact unit and long life.
- The pump has no valves or non-return flaps.
 - Less operational parts, thus less risk of downtime.
- Priming of the suction hose is not necessary, and a foot valve can be dispensed with.
 - User-friendly and trouble-free operation.
- Reliable mechanical seal ensures protection of the motor.
 - Reliability and long life.
- No maintenance required.
 - Low cost and downtime elimination.
- For use with drivers of other makes or designs for belt drive or drive from a tractor power take-off, etc.
 - Flexibility and customer-oriented.
- Versatile.
 - One pump for a wide range of applications, thus saving costs of additional equipment.

General technical data

| Description | PO07 | PO23 | PO32 | PO42 |
|--|------------------|-----------------------------|----------------|-----------------|
| Maximum liquid temperature | 60 °C | | 80 °C | |
| Maximum ambient temperature | | | 40 °C | |
| Minimum speed [min ⁻¹] | | | 2500 | |
| Maximum speed [min ⁻¹] | 7500 | 4500 | 3700 | 3000 |
| Sound pressure level [dB(A)] | | | | |
| Electric motor 2900 min ⁻¹ | < 70 | 82 | 90 | 90 |
| Combustion engine | - | 91 | 102 | 105 |
| Vacuummetric suction lift [m] | Up to 5 | | Up to 8 | |
| Shaft seal | | | | |
| Floating ring seal | | | NBR | |
| Materials | | | | |
| Housing, housing cover | | EN-GJL-200 (GG20) | | |
| Bearing pedestal | | EN-GJL-200 (GG20) | | |
| Wear plate | | EN-GJL-200 (GG20) | | |
| Screw plug | | Stainless steel | | |
| Impeller | | EN-GJL-200 (GG20) or G-CuSn | | |
| Connections | | | | |
| Suction and discharge connections | G 3/4 (DN 20) | G 2 (DN 50) | G 3 (DN 80) | G 4 (DN 100) |

Performance range



TM01 7317 4908

Fig. 4 Performance range at 2900 min⁻¹

Type key

| Code | Example | PO | 2 | 3 | .10 | .BL | .E | .1 | .G | .P | .15 | .3 |
|------|---|----|---|---|-----|-----|----|----|----|----|-----|----|
| PO | POMONA | | | | | | | | | | | |
| | Connection size [mm] | | | | | | | | | | | |
| 0 | DN 20 (G 3/4) | | | | | | | | | | | |
| 2 | DN 50 (G 2) | | | | | | | | | | | |
| 3 | DN 80 (G 3) | | | | | | | | | | | |
| 4 | DN 100 (G 4) | | | | | | | | | | | |
| | Version | | | | | | | | | | | |
| 10 | Pump passage Maximum solids size [mm] | | | | | | | | | | | |
| | Pump | | | | | | | | | | | |
| BA | Bare-shaft pump | | | | | | | | | | | |
| BL | Block version | | | | | | | | | | | |
| CM | Pump with coupling and motor | | | | | | | | | | | |
| | Motor | | | | | | | | | | | |
| 0 | Without motor | | | | | | | | | | | |
| E | Electric motor, 50 Hz | | | | | | | | | | | |
| F | Electric motor, 60 Hz | | | | | | | | | | | |
| D | Four-stroke diesel engine | | | | | | | | | | | |
| P | Four-stroke petrol engine | | | | | | | | | | | |
| X | Special version | | | | | | | | | | | |
| | Frame | | | | | | | | | | | |
| 0 | Without frame | | | | | | | | | | | |
| 1 | Base frame | | | | | | | | | | | |
| 2 | Carrying frame | | | | | | | | | | | |
| 3 | Trolley | | | | | | | | | | | |
| | Impeller material | | | | | | | | | | | |
| G | Cast iron (GG20) | | | | | | | | | | | |
| B | Cast bronze (G-CuSn) | | | | | | | | | | | |
| X | Special version | | | | | | | | | | | |
| | Sealing | | | | | | | | | | | |
| P | NBR | | | | | | | | | | | |
| V | FKM (Viton®) | | | | | | | | | | | |
| X | Special version | | | | | | | | | | | |
| 15 | Motor power (P2/100) [W] | | | | | | | | | | | |
| | Motor | | | | | | | | | | | |
| 1 | Single-phase (220-240) | | | | | | | | | | | |
| 3 | Three-phase (220-240D / 380-415Y) | | | | | | | | | | | |
| X | Special version | | | | | | | | | | | |

Nameplate



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| Pos. | Description |
|------|------------------|
| 1 | Type designation |
| 2 | SAP code |
| CE | CE mark |

List of variants

| Pump type | PO07 | PO23 | PO32 | PO42 |
|-------------------------------------|------|------|------|------|
| Pump | | | | |
| Block version | • | • | • | - |
| Bare-shaft pump | • | • | • | • |
| Bare-shaft pump with coupling | • | • | • | • |
| Motor | | | | |
| Without motor | • | • | • | • |
| Electric motor, 50 Hz, single-phase | • | • | | |
| Electric motor, 50 Hz, three-phase | • | • | • | • |
| Electric motor, 60 Hz | • | • | • | |
| Four-stroke diesel engine | - | - | • | • |
| Four-stroke petrol engine | - | • | - | - |
| Frame | | | | |
| Without frame | • | • | • | • |
| Base frame | • | • | • | • |
| Carrying frame | • | • | • | |
| Trolley | - | - | • | • |
| Impeller material | | | | |
| Cast iron (GG20) | • | • | • | • |
| Cast bronze (G-CuSn) | • | • | • | • |
| Sealing | | | | |
| NBR | • | • | • | • |
| FKM (Viton®) | • | • | • | • |

To a great extent, the pumps can be adapted to the requirements of the individual customer.

For customised solutions, contact your local Grundfos company.

2. Selection of pump

Ordering a pump

When ordering a POMONA pump, you need to take the following aspects into consideration:

- pump size
- custom-built variants (option)
- driver design
- frame construction
- accessories.

Pump

To identify the pump that meets your requirements, see sections *Performance range*, page 5, and *Type key*, page 6.

Custom-built variants

The POMONA pump can be customised to meet individual requirements. Many pump features and options are available for customisation, for instance special motor version, type of frame and impeller.

For variants, see section *List of variants*, page 7.

For requirements or designs not included in the list, contact Grundfos.

Accessories

Some installations may require accessories.

See section *Accessories*, page 21, for selection of the correct accessories.

Note: Accessories are not fitted from factory.

3. Operating conditions

Pressures

Maximum pressure

The maximum pressure (inlet pressure and pump pressure against a closed valve) is 6 bar.

Minimum inlet pressure

The minimum inlet pressure must correspond to the NPSH curve for the pump + a safety margin of minimum 0.5 metres head.

For NPSH curves, see pages 11 to 14.

Density

A high-density liquid only affects the power consumption of a centrifugal pump:

- The head, flow rate and pump efficiency will remain unchanged.
- The power consumption will increase at a ratio corresponding to the increase in density. A liquid with a specific gravity of 1.2 will thus require a 20 % larger power input.

An oversize motor will often be required.

Pumped liquids

The pumped liquid must not attack the pump materials chemically.

pH value: 4 to 10.

POMONA pumps are wear-resistant and not sensitive to contamination from mud, dirt or sand.

Solid matter up to the following particle sizes can be pumped in the liquid without any risk of a blockage:

| Pump type | Maximum particle size [mm] |
|-------------|----------------------------|
| POMONA PO07 | 3 |
| POMONA PO23 | 10 |
| POMONA PO32 | 20 |
| POMONA PO42 | 30 |

Flow rates

Maximum flow rate

The maximum flow rate must not exceed the value stated on the pump nameplate. If the maximum flow rate is exceeded, cavitation and overload may occur.

Minimum flow rate

The pump must not run against a closed discharge valve, as this will cause an increase in temperature/formation of steam in the pump. This may cause shaft damage, impeller erosion, short life of bearings, stuffing boxes with packing rings or mechanical seals due to stress or vibration.

The minimum flow rate must be at least 10 % of the maximum flow rate stated on the pump nameplate.

Curve conditions

The guidelines below apply to the curves on the following pages:

- Tolerances to ISO 9906, Annex A, if indicated.
- Measurements have been made with airless water at a temperature of 20 °C.
- The curves apply to a kinematic viscosity of $\nu = 1 \text{ mm}^2/\text{s}$ (1 cSt).

The QH curves apply to a rated speed of 2900 min⁻¹. All curves are based on actual motor speeds.

4. Construction

General construction

The rugged end-suction design is suitable for operation with electric motors and combustion engines. Thanks to the bearing pedestal and bare shaft end, the pump can also be operated by drives already available on the installation site.

The pump housing is made of grey cast iron, and the impeller is made of grey cast iron or special bronze.

The pump unit has a double shaft seal system with grease filling and lubricating nipple. A mechanical shaft seal seals the primary side (water side). A seal ring seals the secondary side (motor side).

Coupling

Flexible coupling versions with bearing pedestal.

Coupling guard

As a protection against contact with the shaft and coupling, a guard made of steel sheet is fastened to the base frame.

Base frame

Torsion-resistant steel plate.

Carrying frame and trolley are made of steel tube.

Motors

POMONA PO07

- 1 x 230 V motor. 0.25 kW. IP55.
- 3 x 230/400 V motor. 0.25 kW. IP55.

POMONA PO23

- 1 x 230 V motor. 1.25 kW. IP55.
- 3 x 230/400 V motor. 1.5 kW. IP55.
- Four-stroke petrol engine. 2.6 kW.

POMONA PO32

- 3 x 400 V motor. 4.0 kW. IP55.
- Four-stroke diesel engine with manual start. 4.6 kW.

POMONA PO42

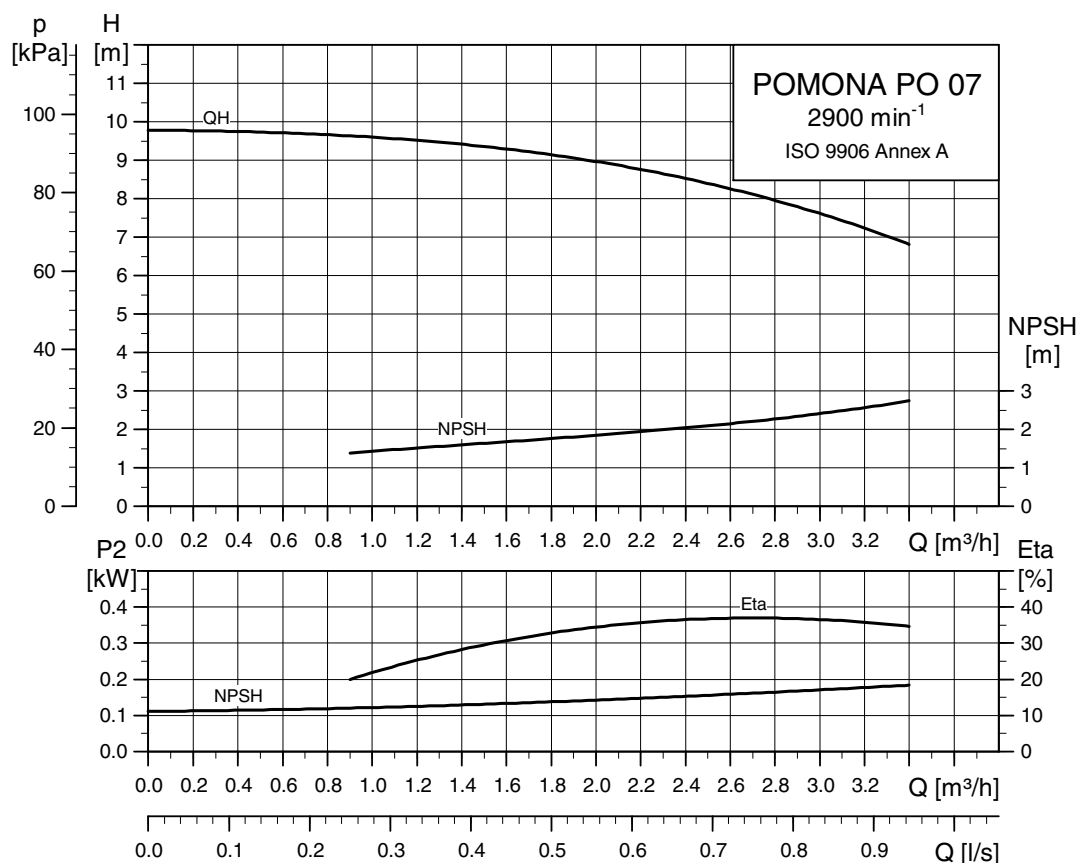
- 3 x 400 V motor. 11.0 kW. IP55.
- Four-stroke diesel engine with electric start, including battery and wiring. 13.1 kW.

Other motors/engines are available on request.

5. Performance curves and technical data

POMONA PO07

Performance curves



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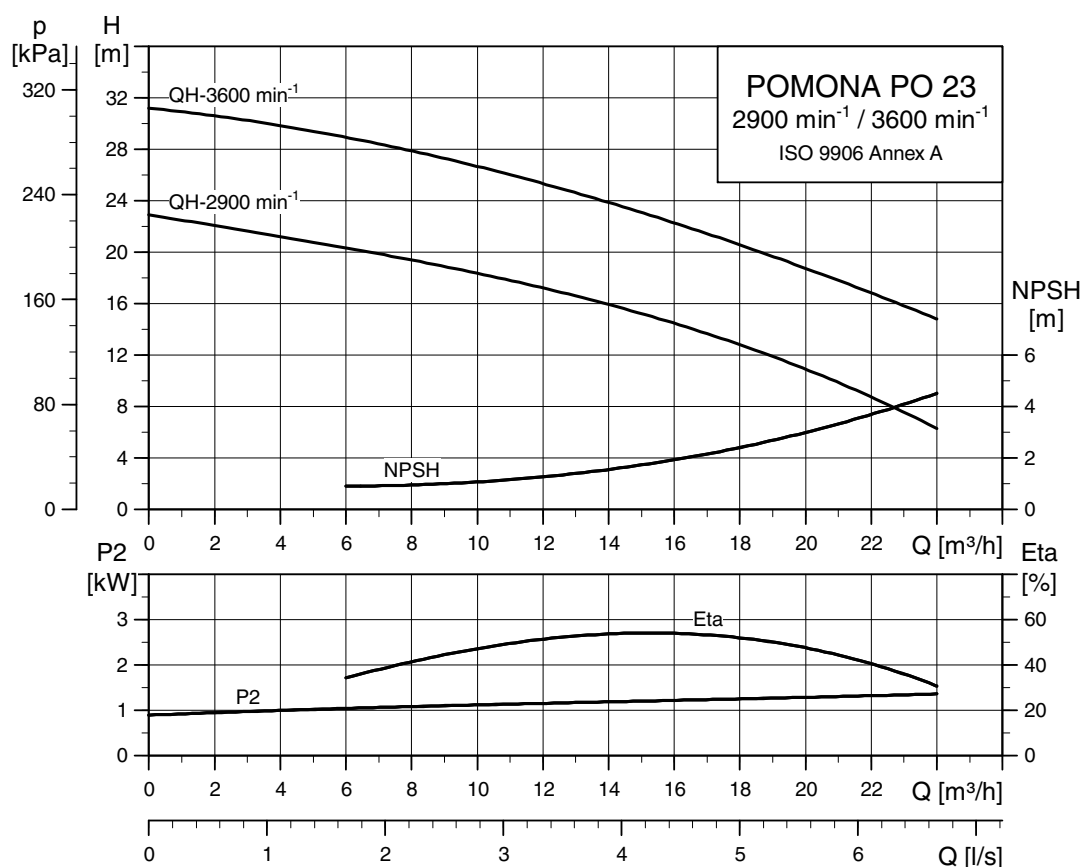
Fig. 5 Performance curves for single- and three-phase motors

Technical data

| Pump type | Weight [kg] | Connection DN | Pump passage [mm] | Frame | Power P2 [kW] | Speed [min ⁻¹] | Impeller material | Sealing material | Voltage [V] (50 Hz) | Product number |
|-------------------------|-------------|---------------|-------------------|------------|---------------|----------------------------|-------------------|------------------|---------------------|----------------|
| PO07.3.BA.0.0.G.P | 9.0 | 20 | 3 | - | 0.25 required | 2900 required | Cast iron | NBR | - | L6126667 |
| PO07.3.BA.0.0.B.P | 9.0 | 20 | 3 | - | 0.25 required | 2900 required | Cast bronze | NBR | - | L6Z10002 |
| PO07.3.BL.E.1.G.P.2.5.1 | 13.5 | 20 | 3 | Base frame | 0.25 | 2900 | Cast iron | NBR | 1 x 230 | L6Z10010 |
| PO07.3.BL.E.1.B.P.2.5.1 | 13.5 | 20 | 3 | Base frame | 0.25 | 2900 | Cast bronze | NBR | 1 x 230 | L6126659 |
| PO07.3.BL.E.1.G.P.2.5.3 | 13.0 | 20 | 3 | Base frame | 0.25 | 2900 | Cast iron | NBR | 3 x 400 | L6Z10009 |
| PO07.3.BL.E.1.B.P.2.5.3 | 13.0 | 20 | 3 | Base frame | 0.25 | 2900 | Cast bronze | NBR | 3 x 400 | L6126661 |
| PO07.3.BL.E.1.G.V.2.5.3 | 13.0 | 20 | 3 | Base frame | 0.25 | 2900 | Cast bronze | FKM | 3 x 400 | L6Z10023 |

POMONA PO23

Performance curves



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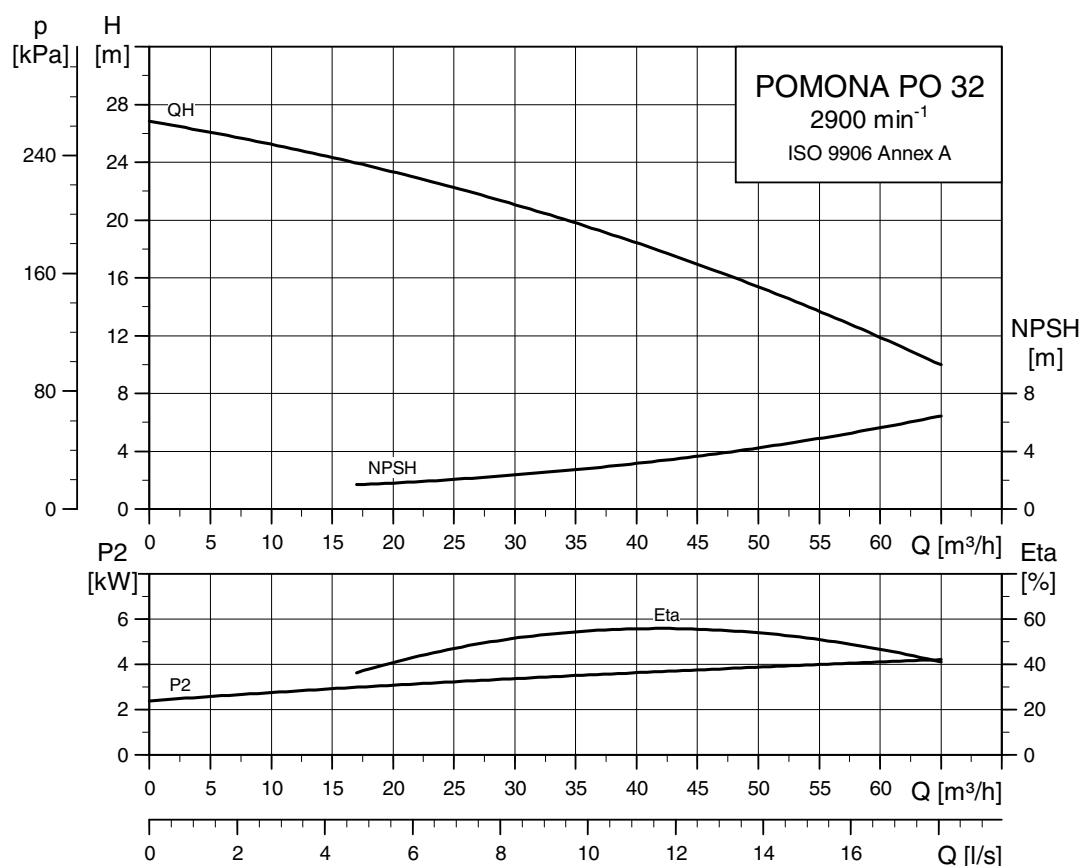
Fig. 6 Performance curves for single- and three-phase motors and four-stroke petrol engine

Technical data

| Pump type | Weight [kg] | Connection DN | Pump passage [mm] | Frame | Power P2 [kW] | Speed [min ⁻¹] | Impeller material | Sealing material | Voltage [V] (50 Hz) | Product number |
|---------------------------|-------------|---------------|-------------------|----------------|---------------|----------------------------|-------------------|------------------|---------------------|----------------|
| PO23.10.BA.0.0.G.P | 30.0 | 50 | 10 | - | 1.25 required | 2900 required | Cast iron | NBR | - | L6124737 |
| PO23.10.BA.0.0.B.P | 30.0 | 50 | 10 | - | 1.25 required | 2900 required | Cast bronze | NBR | - | L6124710 |
| PO23.10.BL.E.2.G.P.12.5.1 | 48.0 | 50 | 10 | Carrying frame | 1.25 | 2900 | Cast iron | NBR | 1 x 230 | L6124673 |
| PO23.10.BL.E.2.B.P.12.5.1 | 48.0 | 50 | 10 | Carrying frame | 1.25 | 2900 | Cast bronze | NBR | 1 x 230 | L6Z20025 |
| PO23.10.BL.E.1.G.P.12.5.1 | 49.0 | 50 | 10 | Base frame | 1.25 | 2900 | Cast iron | NBR | 1 x 230 | L6124924 |
| PO23.10.BL.E.1.G.P.15.3 | 46.0 | 50 | 10 | Base frame | 1.5 | 2900 | Cast iron | NBR | 3 x 400 | L6124683 |
| PO23.10.BL.E.1.B.P.15.3 | 46.0 | 50 | 10 | Base frame | 1.5 | 2900 | Cast bronze | NBR | 3 x 400 | L6Z20012 |
| PO23.10.BL.E.2.G.P.15.3 | 45.0 | 50 | 10 | Carrying frame | 1.5 | 2900 | Cast iron | NBR | 3 x 400 | L6124672 |
| PO23.10.BL.E.2.B.P.15.3 | 45.0 | 50 | 10 | Carrying frame | 1.5 | 2900 | Cast bronze | NBR | 3 x 400 | L6124674 |
| PO23.10.BL.P.2.G.P.26 | 48.0 | 50 | 10 | Carrying frame | 2.6 | 3600 | Cast iron | NBR | - | L6124435 |
| PO23.10.BL.P.2.B.P.26 | 48.0 | 50 | 10 | Carrying frame | 2.6 | 3600 | Cast bronze | NBR | - | L6Z20029 |

POMONA PO32

Performance curves



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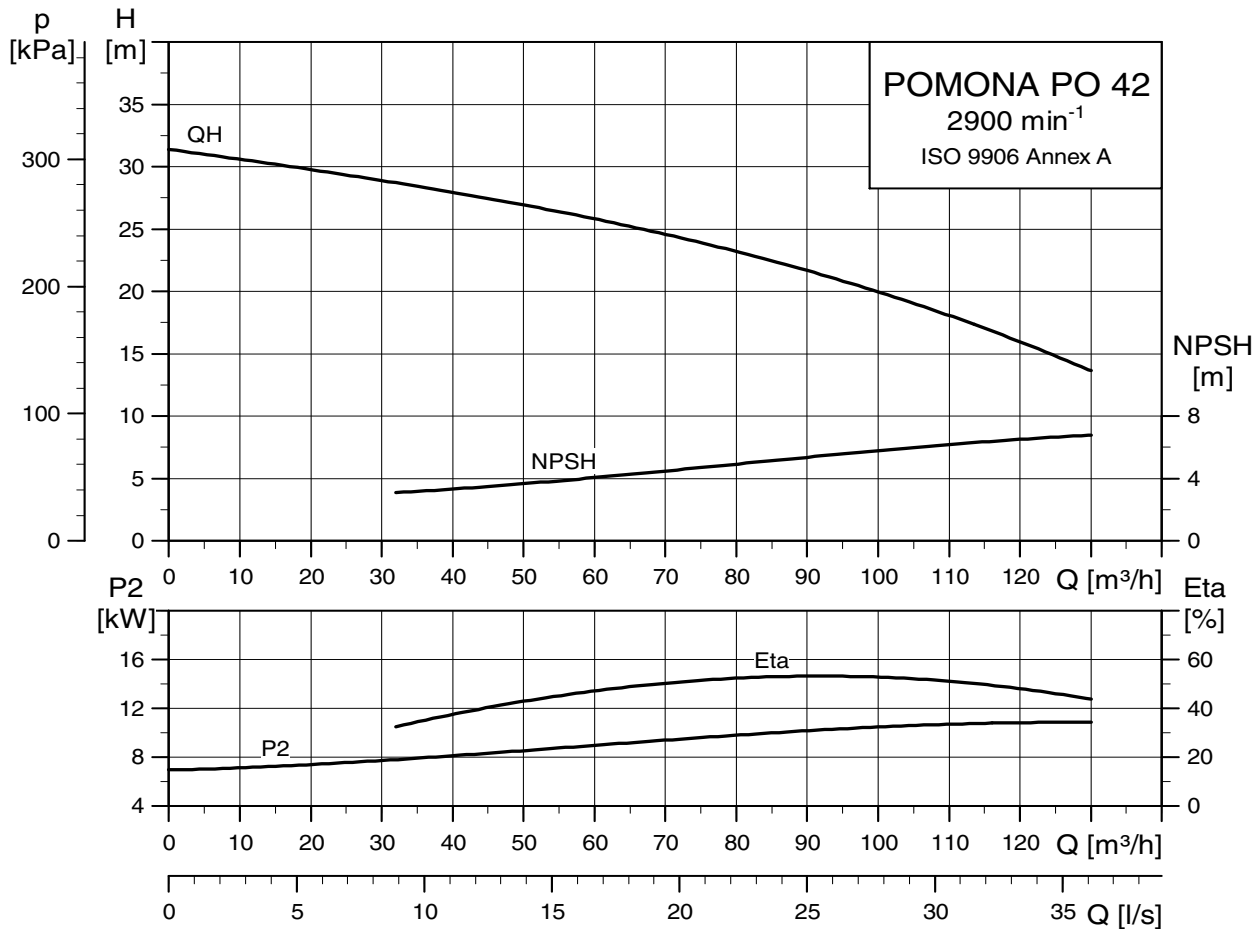
Fig. 7 Performance curves for three-phase motors and diesel engine

Technical data

| Pump type | Weight [kg] | Connection DN | Pump passage [mm] | Frame | Power P2 [kW] | Speed [min ⁻¹] | Impeller material | Sealing material | Voltage [V] (50 Hz) | Product number |
|-------------------------|-------------|---------------|-------------------|----------------|---------------|----------------------------|-------------------|------------------|---------------------|----------------|
| PO32.20.BA.0.0.G.P | 40.0 | 80 | 20 | - | 4.0 required | 2900 required | Cast iron | NBR | - | L6124290 |
| PO32.20.BL.E.1.G.P.40.3 | 80.0 | 80 | 20 | Base frame | 4 | 2900 | Cast iron | NBR | 3 x 400 | L6125628 |
| PO32.20.BL.E.1.B.P.40.3 | 80.0 | 80 | 20 | Base frame | 4 | 2900 | Cast bronze | NBR | 3 x 400 | L6125629 |
| PO32.20.BL.E.3.G.P.40.3 | 93.0 | 80 | 20 | Trolley | 4 | 2900 | Cast iron | NBR | 3 x 400 | L6123986 |
| PO32.20.BL.D.2.G.P.46 | 90.5 | 80 | 20 | Carrying frame | 4.6 | 2900 | Cast iron | NBR | - | L6125156 |
| PO32.20.BL.D.3.G.P.46 | 103.0 | 80 | 20 | Trolley | 4.6 | 2900 | Cast iron | NBR | - | L6125423 |

POMONA PO42

Performance curves



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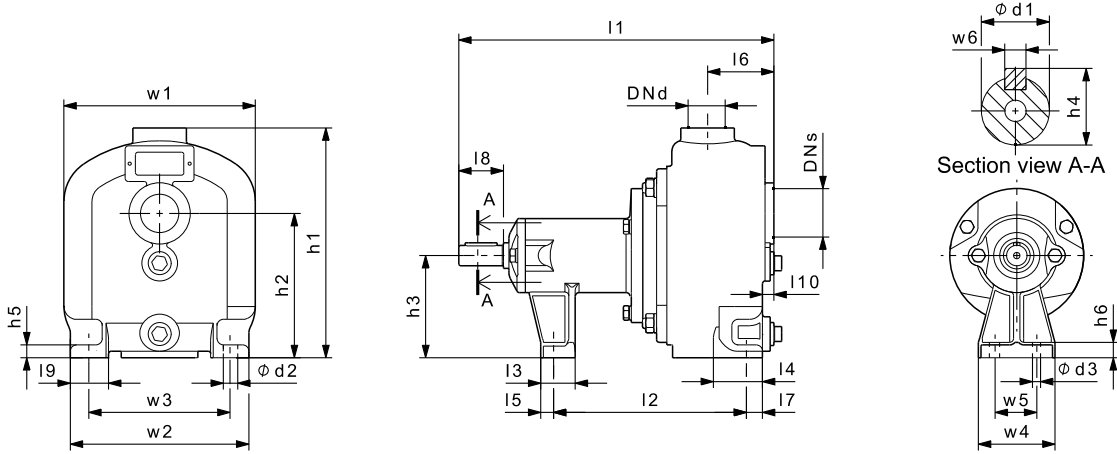
Fig. 8 Performance curves for three-phase motors and diesel engine

Technical data

| Pump type | Weight [kg] | Connection DN | Pump passage [mm] | Frame | Power P2 [kW] | Speed [min ⁻¹] | Impeller material | Sealing material | Voltage [V] (50 Hz) | Product number |
|--------------------------|-------------|---------------|-------------------|------------|---------------|----------------------------|-------------------|------------------|---------------------|----------------|
| PO42.30.BA.0.0.G.P | 71.0 | 100 | 30 | - | 11.0 required | 2900 required | Cast iron | NBR | - | L6123439 |
| PO42.30.BA.0.0.B.P | 71.0 | 100 | 30 | - | 11.0 required | 2900 required | Cast bronze | NBR | - | L6123412 |
| PO42.30.CM.E.1.G.P.110.3 | 220.5 | 100 | 30 | Base frame | 11 | 2900 | Cast iron | NBR | 3 x 400 | L6Z40008 |
| PO42.30.CM.E.1.B.P.110.3 | 220.5 | 100 | 30 | Base frame | 11 | 2900 | Cast bronze | NBR | - | L6Z40007 |
| PO42.30.CM.D.1.G.P.131 | 237.0 | 100 | 30 | Base frame | 13.1 | 2900 | Cast iron | NBR | - | L6Z40004 |
| PO42.30.CM.D.3.G.P.131 | 280.0 | 100 | 30 | Trolley | 13.1 | 2900 | Cast iron | NBR | - | L6Z40022 |

6. Dimensions

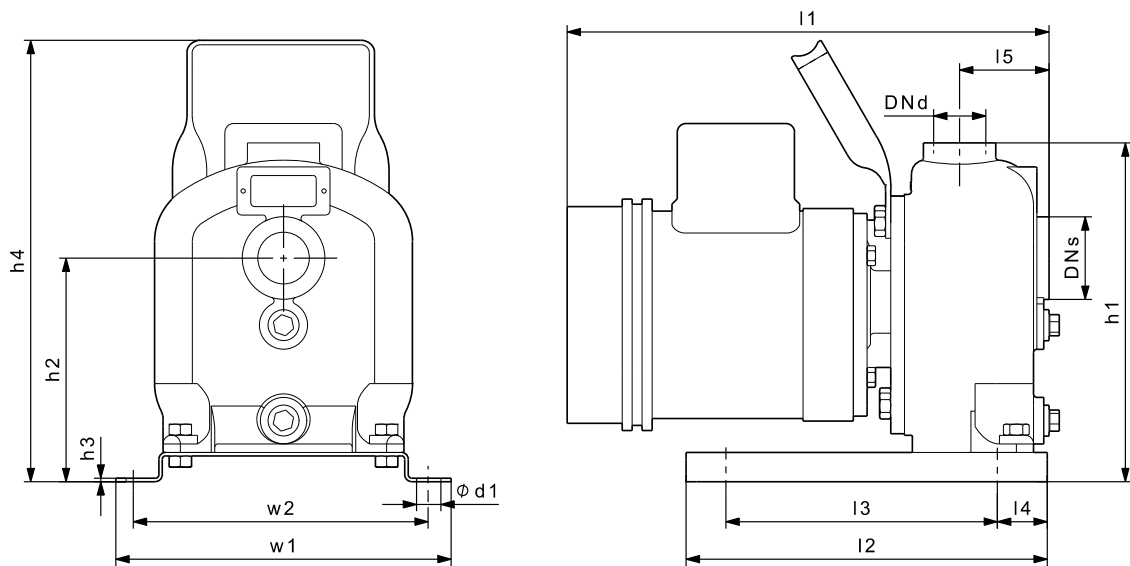
PO07 to PO42 bare-shaft pumps



TM04 3835 0309

| Type | DNs DNd | | Dimensions [mm] | | | | | | | | | | | | | | | | | Ød1 | Ød2 | Ød3 | | | | | |
|------------|---------|------|-----------------|-----|----|-----|----|-----|----|----|----|----|-----|-----|---------------------|----------------------|----|----|-----|-----|-----|-----|-----|----|------|------|------|
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 10 | h1 | h2 | h3 | h4 | h5 | h6 | w1 | w2 | w3 | | | | w4 | w5 | w6 | | |
| PO07.3.BA | 3/4" | 3/4" | 247 | 154 | 27 | 38 | 10 | 52 | 10 | 35 | 30 | 9 | 180 | 113 | 80 _{-0.2} | 18.0 ^{+0.1} | 10 | 12 | 150 | 140 | 120 | 60 | 36 | 5 | 16k6 | 9.5 | 9.5 |
| PO23.10.BA | 2" | 2" | 417 | 293 | 40 | 93 | 17 | 112 | 13 | 40 | 40 | 19 | 270 | 167 | 115 | 20.6 ^{+0.1} | 11 | 11 | 230 | 185 | 150 | 185 | 150 | 6 | 18k5 | 12 | 12 |
| PO32.20.BA | 3" | 3" | 500 | 348 | 38 | 106 | 14 | 129 | 20 | 60 | 48 | 23 | 333 | 210 | 142 _{-0.2} | 24.5 ^{+0.1} | 14 | 12 | 275 | 220 | 180 | 220 | 180 | 6 | 22k5 | 13.5 | 13.5 |
| PO42.30.BA | 4" | 4" | 577 | 411 | 50 | 124 | 19 | 151 | 27 | 60 | 70 | 27 | 397 | 230 | 170 _{-0.2} | 24.5 ^{+0.1} | 15 | 14 | 360 | 310 | 254 | 310 | 254 | 6 | 22k5 | 18.0 | 18.0 |

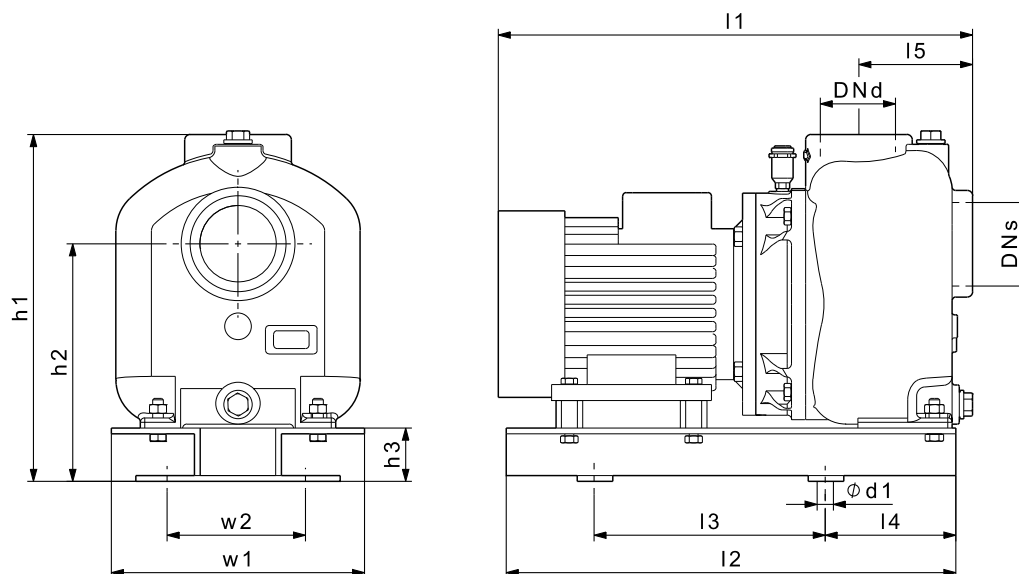
PO07 block version on base frame



TM04 3831 0309

| Type | DNs DNd | | Dimensions [mm] | | | | | | | | | | | w1 | w2 | Ød1 |
|--------------|---------|------|-----------------|-----|-----|----|----|-----|-----|---|-----|-----|-----|----|----|-----|
| | 11 | 12 | 13 | 14 | 15 | h1 | h2 | h3 | h4 | | | | | | | |
| PO07.3.BLE.1 | 3/4" | 3/4" | 306 | 210 | 150 | 30 | 52 | 197 | 130 | 2 | 257 | 195 | 175 | 12 | | |

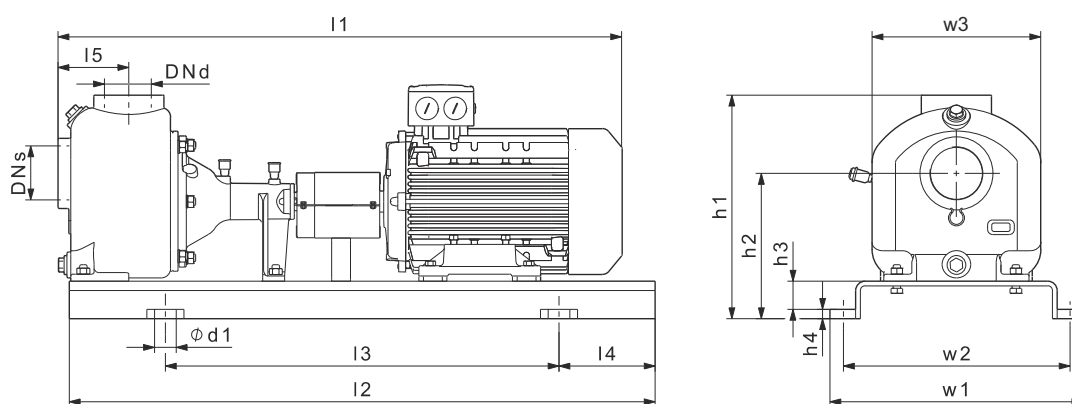
PO23 and PO32 block versions on base frame



TM04 3830 0309

| Type | DN _s | DN _d | Dimensions [mm] | | | | | | | | | | |
|----------------|-----------------|-----------------|-----------------|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|
| | | | l1 | l2 | l3 | l4 | l5 | h1 | h2 | h3 | w1 | w2 | Ød1 |
| PO23.10.BL.E.1 | 2" | 2" | 486 | 435 | 260 | 110 | 112 | 328 | 225 | 58 | 230 | 190 | 14 |
| PO32.20.BL.E.1 | 3" | 3" | 630 | 506 | 260 | 140 | 130 | 391 | 286 | 58 | 285 | 190 | 19 |

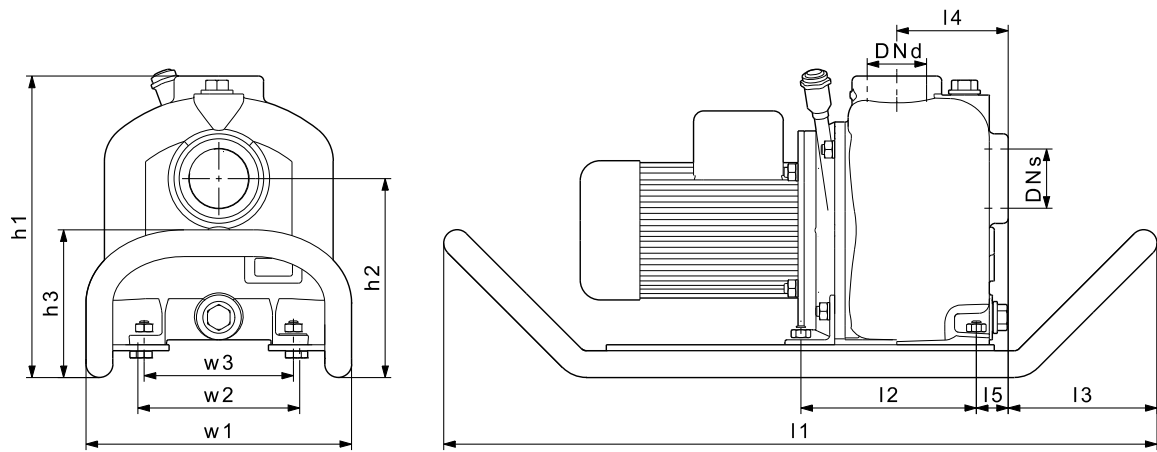
PO07 to PO42 pumps with coupling and motor



TM04 3839 2710

| Type | DN _s | DN _d | Dimensions [mm] | | | | | | | | | | | | |
|----------------|-----------------|-----------------|-----------------|------|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|
| | | | l1 | l2 | l3 | l4 | h1 | h2 | h3 | h4 | l5 | w1 | w2 | w3 | Ød1 |
| PO07.3.CM.E.1 | 3/4" | 3/4" | 485 | 465 | 300 | 82 | 245 | 173 | 58 | 20 | 52 | 200 | 180 | 150 | 10 |
| PO23.10.CM.E.1 | 2" | 2" | 740 | 720 | 480 | 115 | 335 | 232 | 45 | 20 | 112 | 330 | 292 | 230 | 19 |
| PO32.20.CM.E.1 | 3" | 3" | 974 | 1000 | 660 | 170 | 413 | 222 | 60 | 20 | 128 | 450 | 402 | 275 | 24 |
| PO42.30.CM.E.1 | 4" | 4" | 1203 | 1250 | 840 | 205 | 477 | 310 | 60 | 20 | 151 | 540 | 484 | 360 | 24 |

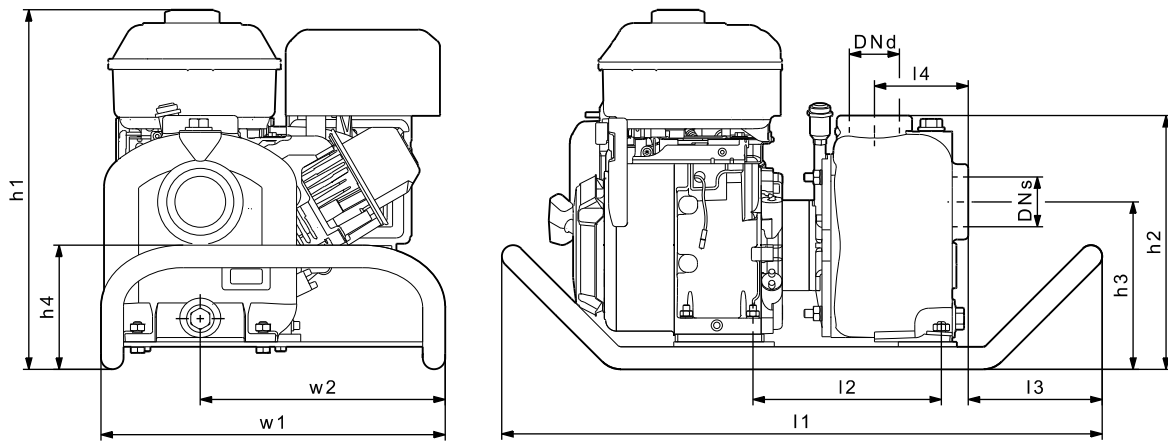
PO23 block version on carrying frame



TM04 3832 0309

| Type | DN _s | DN _d | Dimensions [mm] | | | | | | | | | | |
|----------------|-----------------|-----------------|-----------------|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|
| | | | l1 | l2 | l3 | l4 | l5 | h1 | h2 | h3 | w1 | w2 | w3 |
| PO23.10.BL.E.2 | 2" | 2" | 717 | 176 | 149 | 112 | 32 | 303 | 200 | 148 | 267 | 163 | 150 |

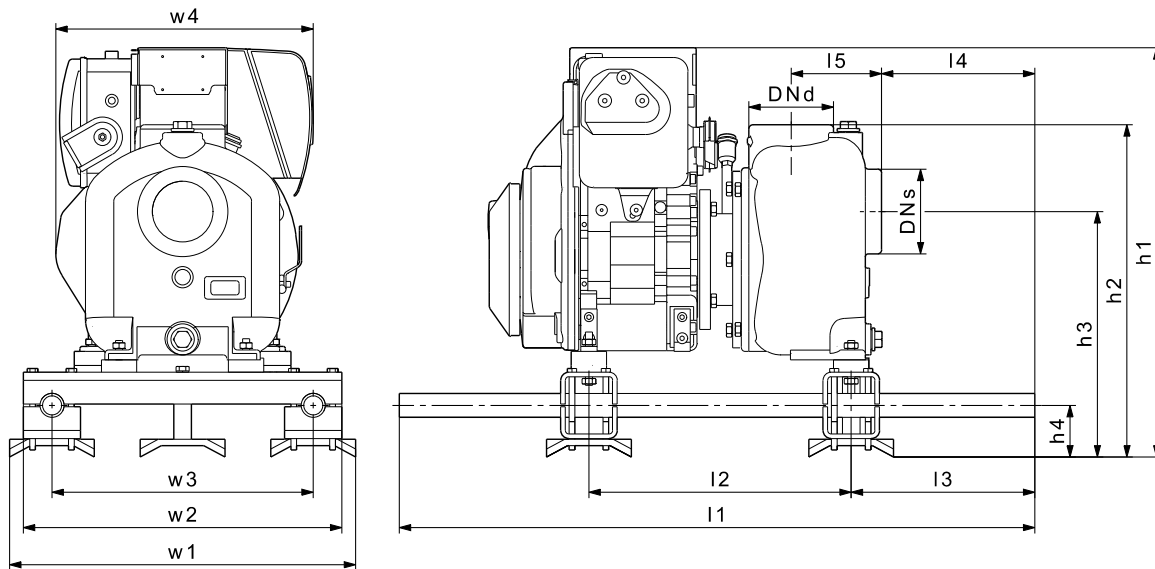
PO23 block version with petrol engine on carrying frame



TM04 3833 1412

| Type | DN _s | DN _d | Dimensions [mm] | | | | | | | | | | |
|----------------|-----------------|-----------------|-----------------|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|
| | | | l1 | l2 | l3 | l4 | l5 | h1 | h2 | h3 | h4 | w1 | w2 |
| PO23.10.BL.P.2 | 2" | 2" | 717 | 225 | 160 | 112 | 32 | 429 | 303 | 200 | 148 | 292 | 119 |

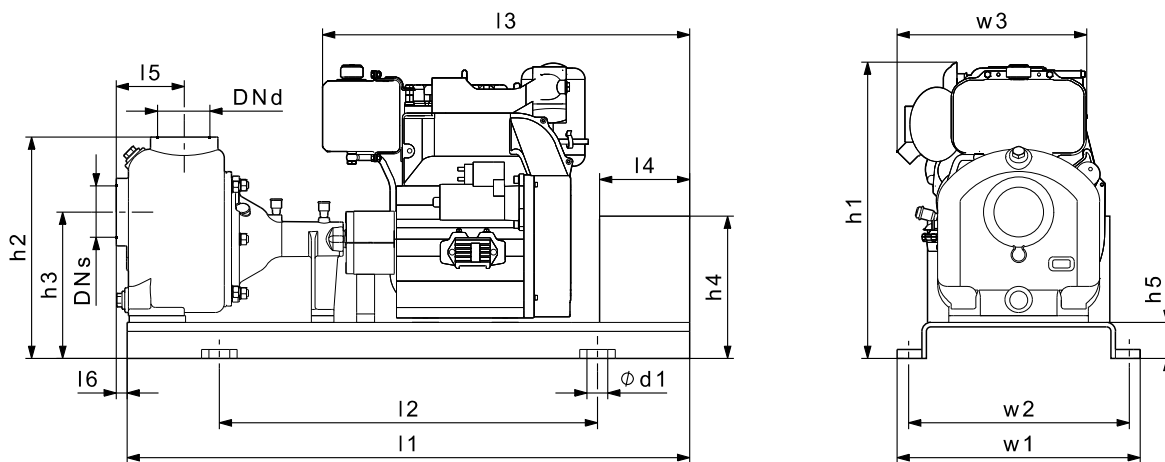
PO32 block version with diesel engine on carrying frame



TM04 3834 0309

| Type | DN _s | DN _d | Dimensions [mm] | | | | | | | | | | | | |
|----------------|-----------------|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| | | | l1 | l2 | l3 | l4 | l5 | h1 | h2 | h3 | h4 | w1 | w2 | w3 | w4 |
| PO32.20.BL.D.2 | 3" | 3" | 900 | 372 | 260 | 217 | 128 | 580 | 471 | 348 | 73 | 490 | 451 | 370 | 365 |

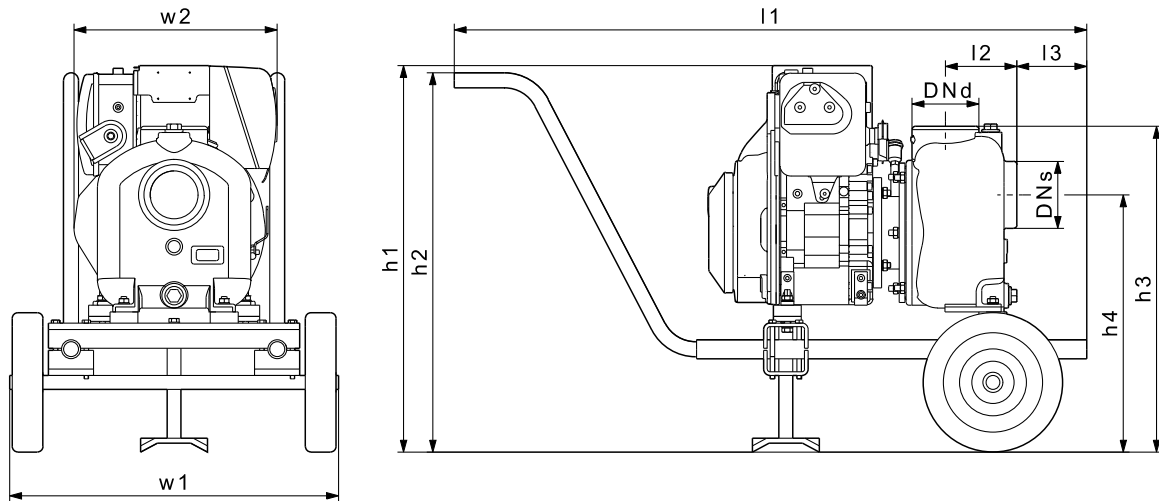
PO42 pump with coupling and diesel engine



TM04 3838 0209

| Type | DN _s | DN _d | Dimensions [mm] | | | | | | | | | | | | | | |
|----------------|-----------------|-----------------|-----------------|-----|-----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| | | | l1 | l2 | l3 | l4 | l5 | l6 | h1 | h2 | h3 | h4 | h5 | w1 | w2 | w3 | ∅d1 |
| PO42.30.CM.D.1 | 4" | 4" | 1250 | 840 | 816 | 200 | 151 | 24 | 658 | 492 | 325 | 316 | 80 | 540 | 490 | 421 | 24 |

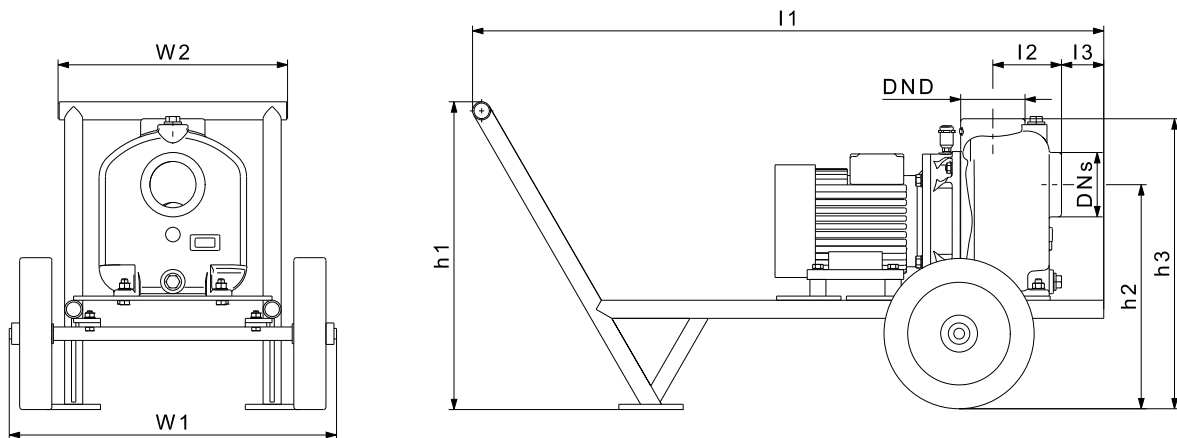
PO32 pump with diesel engine on trolley



TM04 3836 0309

| Type | DNs | DNd | Dimensions [mm] | | | | | | | | |
|----------------|-----|-----|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | l1 | l2 | l3 | h1 | h2 | h3 | h4 | w1 | w2 |
| PO32.20.BL.D.3 | 3" | 3" | 1135 | 128 | 126 | 694 | 680 | 585 | 462 | 590 | 365 |

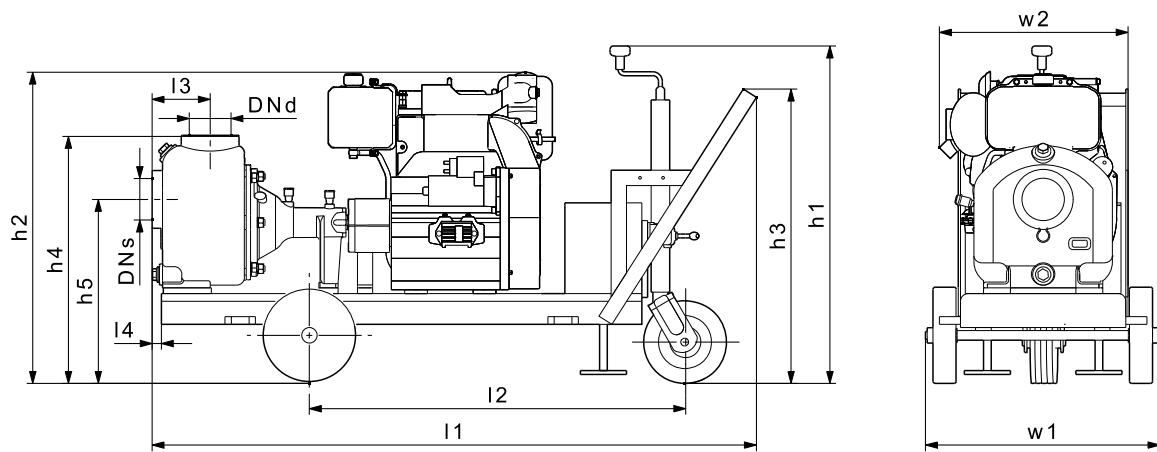
PO32 pump with electric motor on trolley



TM04 8023 2710

| Type | DNs | DNd | Dimensions [mm] | | | | | | | |
|----------------|-----|-----|-----------------|-----|----|-----|-----|-----|-----|-----|
| | | | l1 | l2 | l3 | h1 | h2 | h3 | w1 | w2 |
| PO32.20.BL.E.3 | 3" | 3" | 1177 | 128 | 79 | 574 | 419 | 542 | 610 | 428 |

PO42 pump with diesel engine on trolley



TM04 3837 0209

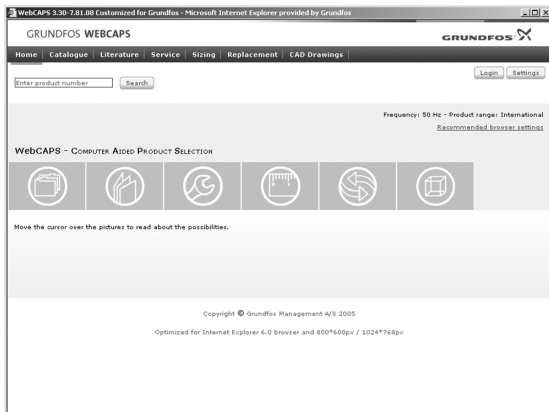
| Type | DN _s | DN _d | Dimensions [mm] | | | | | | | | | | |
|----------------|-----------------|-----------------|-----------------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|
| | | | l1 | l2 | l3 | l4 | h1 | h2 | h3 | h4 | h5 | w1 | w2 |
| PO42.30.CM.D.3 | 4" | 4" | 1572 | 979 | 151 | 24 | 877 | 809 | 766 | 643 | 476 | 610 | 491 |

7. Accessories

| Pump type | Accessory | Product number |
|---|---|----------------|
| PO07 | Base frame for PO07.3.CM | 97788045 |
| | Coupling guard for PO07.3.CM | 97791488 |
| | Coupling (motor shaft diameter = 11 mm) | 97791494 |
| | Coupling (motor shaft diameter = 14 mm) | 97791498 |
| | Motor 400 V, 0.25 kW, foot-mounted (motor shaft diameter = 11 mm) | 97792111 |
| PO23 | Base frame for PO23.10.CM | 97792119 |
| | Coupling guard for PO23.10.CM | 97792124 |
| | Coupling (motor shaft diameter = 24 mm) | 97792128 |
| | Hexagon nipple, R 2 - R 2 AG | 96001993 |
| | STORZ coupling connection, Rp 2 | 96001982 |
| | STORZ coupling connection, R 2 | 97792130 |
| | Flange connection set, PN 10, DN 50 - Rp 2 | 549801 |
| | 90 ° elbow, Rp 2 - R 2 (DIN 2950) | 97792132 |
| | Non-return ball valve for discharge side, threaded connection Rp 2 | 96002002 |
| | Discharge hose, 10 m, with STORZ coupling, C-2" | 96001987 |
| | Discharge hose, 20 m, with STORZ coupling, C-2" | 96005257 |
| | Discharge connection complete for 2" hose | S6127248 |
| | Spiral suction hose 2", 4 m, with screwed connection, foot valve and strainer | S6127302 |
| | Spiral suction hose 2", 8 m, with screwed connection, foot valve and strainer | S6127329 |
| | Motor 400 V, 1.5 kW, foot-mounted (motor shaft diameter = 24 mm) | 97792135 |
| PO32 | Base frame for PO32.20.CM | 97792138 |
| | Coupling guard | 97792139 |
| | Coupling (motor shaft diameter = 28 mm) | 97792141 |
| | Coupling (motor shaft diameter = 38 mm) | 97792143 |
| | Hexagon nipple, R 3 - R 3, steel zinc-plated | 91713477 |
| | STORZ coupling connection, Rp 3 | 96001984 |
| | STORZ coupling connection, R 3 | 97792144 |
| | Flange connection set, PN 10, DN 80 - Rp 3 | 569802 |
| | 90 ° elbow, Rp 3 - R 3, for PO32.20.BL.E | 97792145 |
| | 90 ° elbow, Rp 3 - R 3, for PO32.20.BL.D | 97792146 |
| | Non-return ball valve for discharge side, flange connection DN 80 | 96002009 |
| | Discharge hose, 10 m, with STORZ coupling, C-3" | 96001989 |
| | Discharge hose, 20 m, with STORZ coupling, C-3" | 96005259 |
| | Discharge connection complete for pump with three-phase motor, for 3" hose | S6126896 |
| | Discharge connection complete for pump with diesel engine, for 3" hose | S6126934 |
| PO42 | Spiral suction hose 3", 4 m, with foot valve and strainer | S6126993 |
| | Spiral suction hose 3", 8 m, with foot valve and strainer | S6127019 |
| | Base frame for PO42.30.CM | 97792148 |
| | Coupling guard | 97792149 |
| | Coupling (motor shaft diameter = 42 mm) | 97792150 |
| | Hexagon nipple, R 4 - R 4 AG | 96006566 |
| | STORZ coupling connection, Rp 4 | 96005252 |
| | STORZ coupling connection, R 4 | 97792153 |
| | Flange connection set, PN 10, DN 100 - Rp 4 | 579801 |
| | 90 ° elbow, Rp 4 - R 4 | 97792155 |
| | Non-return ball valve for discharge side, flange connection DN 100 | 96002085 |
| | Discharge hose, 10 m, with STORZ coupling, C-4" | 96005255 |
| | Discharge hose, 20 m, with STORZ coupling, C-4" | 96005260 |
| | Discharge connection complete for 4" hose | S6127035 |
| | Spiral suction hose 4", 8 m, with foot valve and strainer | S6127078 |
| Motor 400 V, 11 kW, foot-mounted (motor shaft diameter = 42 mm) | 97792156 | |

8. Further product information

WebCAPS

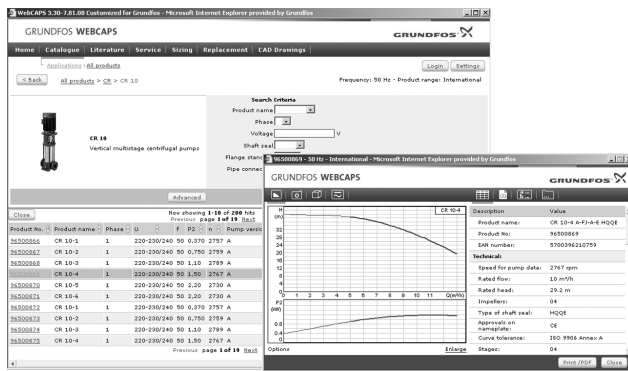


WebCAPS is a **Web-based Computer Aided Product Selection** program available on www.grundfos.com.

WebCAPS contains detailed information on more than 220,000 Grundfos products in more than 30 languages.

Information in WebCAPS is divided into six sections:

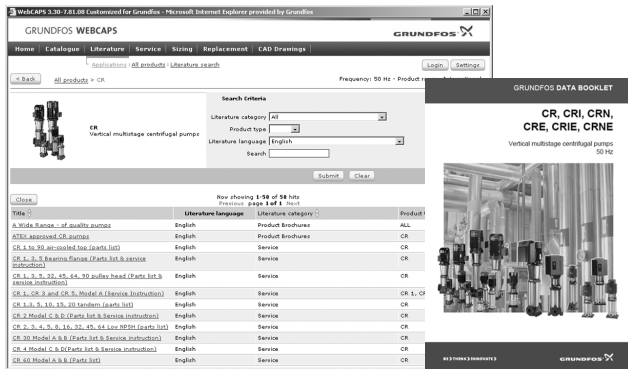
- Catalogue
- Literature
- Service
- Sizing
- Replacement
- CAD drawings.



Catalogue

Based on fields of application and pump types, this section contains the following:

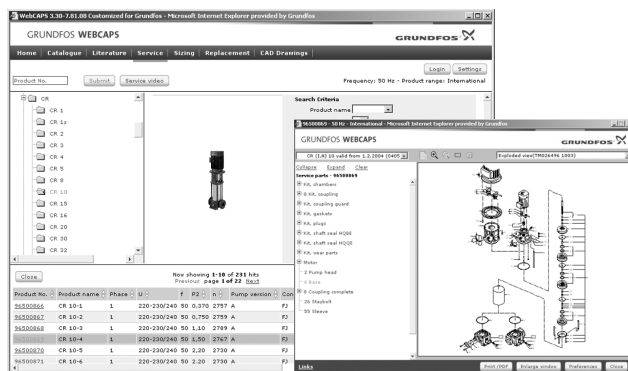
- technical data
- curves (QH, Eta, P1, P2, etc.) which can be adapted to the density and viscosity of the pumped liquid and show the number of pumps in operation
- product photos
- dimensional drawings
- wiring diagrams
- quotation texts, etc.



Literature

This section contains all the latest documents of a given pump, such as

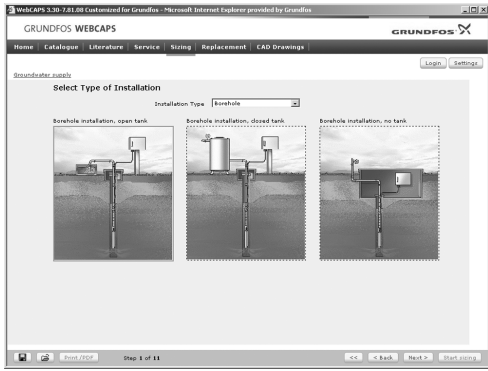
- data booklets
- installation and operating instructions
- service documentation, such as Service kit catalogue and Service kit instructions
- quick guides
- product brochures.



Service

This section contains an easy-to-use interactive service catalogue. Here you can find and identify service parts of both existing and discontinued Grundfos pumps.

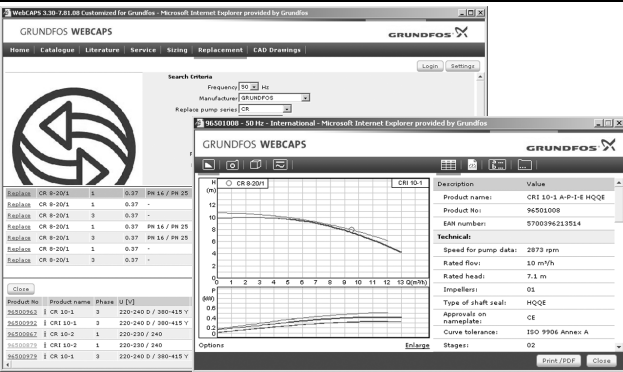
Furthermore, the section contains service videos showing you how to replace service parts.



Sizing

This section is based on different fields of application and installation examples and gives easy step-by-step instructions in how to size a product:

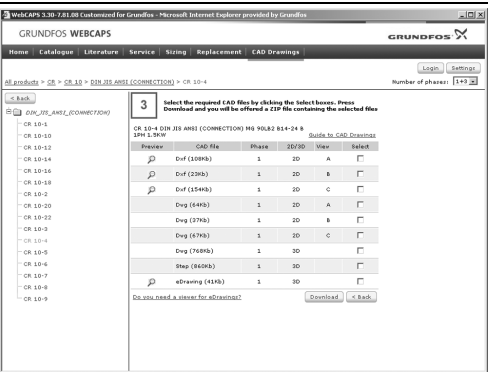
- Select the most suitable and efficient pump for your installation.
- Carry out advanced calculations based on energy, consumption, payback periods, load profiles, life cycle costs, etc.
- Analyse your selected pump via the built-in life cycle cost tool.
- Determine the flow velocity in wastewater applications, etc.



Replacement

In this section you find a guide to selecting and comparing replacement data of an installed pump in order to replace the pump with a more efficient Grundfos pump. The section contains replacement data of a wide range of pumps produced by other manufacturers than Grundfos.

Based on an easy step-by-step guide, you can compare Grundfos pumps with the one you have installed on your site. When you have specified the installed pump, the guide will suggest a number of Grundfos pumps which can improve both comfort and efficiency.



CAD drawings

In this section, it is possible to download 2-dimensional (2D) and 3-dimensional (3D) CAD drawings of most Grundfos pumps.

These formats are available in WebCAPS:

2-dimensional drawings:

- .dxf, wireframe drawings
- .dwg, wireframe drawings.

3-dimensional drawings:

- .dwg, wireframe drawings (without surfaces)
- .stp, solid drawings (with surfaces)
- .eprt, E-drawings.



WinCAPS



Fig. 9 WinCAPS DVD

WinCAPS is a **Windows-based Computer Aided Product Selection** program containing detailed information on more than 220,000 Grundfos products in more than 30 languages.

The program contains the same features and functions as WebCAPS, but is an ideal solution if no internet connection is available.

WinCAPS is available on DVD and updated once a year.

GO CAPS

Mobile solution for professionals on the GO!



CAPS functionality on the mobile workplace.



Subject to alterations.

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