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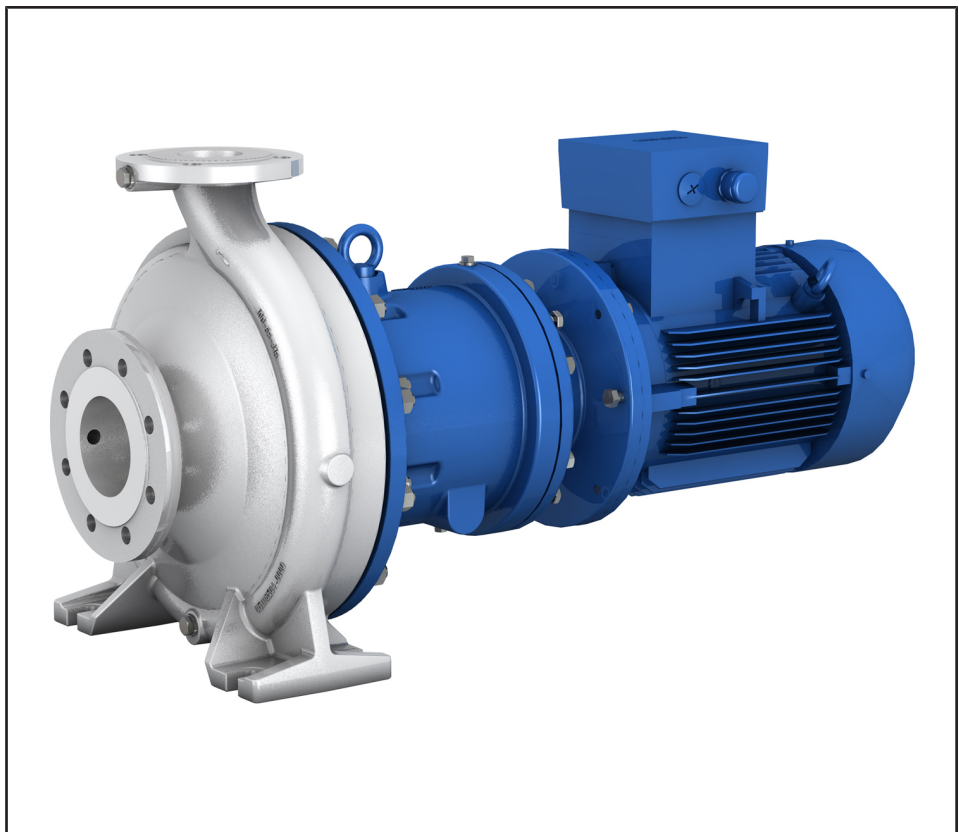
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Насосы с магнитной муфтой KSB. Техническое описание

Mag-drive Pump

Magnochem-Bloc

Type Series Booklet



Legal information/Copyright

Type Series Booklet Magnochem-Bloc

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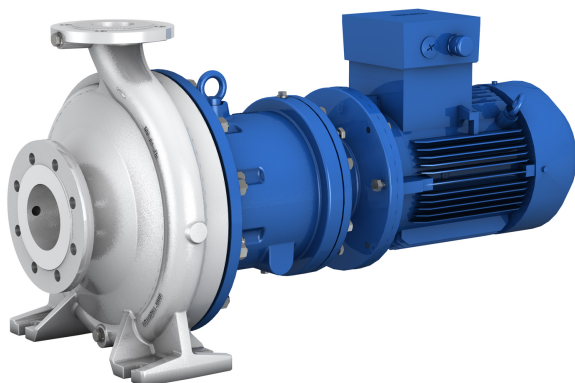
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Seal-less Pumps

Mag-drive Pumps

Magnochem-Bloc



Main applications

- Chemical industry
- District heating
- Industrial recirculation systems
- Air-conditioning systems
- Condensate transport
- Cooling circuits
- Petrochemical industry
- Pipelines and tank farms
- Refineries
- Process engineering
- Hot-water heating systems
- Sugar industry

Fluids handled

- Aggressive fluids
- Explosive fluids
- Flammable fluids
- Toxic fluids
- Valuable fluids
- Fluids which are injurious to health
- Malodorous fluids

Operating data

Operating properties

| Characteristic | Value | |
|---------------------|-----------------------|----------------|
| | 50 Hz | 60 Hz |
| Flow rate | Q [m ³ /h] | ≤ 625 ≤ 754 |
| Head | H [m] | ≤ 162 ≤ 236 |
| Fluid temperature | T ₁ [°C] | -20 to +200 |
| Ambient temperature | T ₂ [°C] | -20 to +40 |
| Operating pressure | p [bar] | ≤ 40 |

Designation

Example: MACB050-032-2501CCHX1A

Key to the designation

| Code | Description |
|------|---|
| MACB | Type series (full name: Magnochem-Bloc) |
| 050 | Nominal suction nozzle diameter [mm] |
| 032 | Nominal discharge nozzle diameter [mm] |
| 250 | Nominal impeller diameter [mm] |
| 1 | Hydraulic system, e.g. 1 = hydraulic system optimised for part-load operation |
| C | Casing material, e.g. C = stainless steel |
| C | Impeller material, e.g. C = stainless steel |
| H | Additional code, e.g. H = heatable casing |
| X | Special design |
| 1 | Nominal diameter of magnetic coupling, e.g. 1 = 85 mm |
| A | Effective length of magnetic coupling, e.g. A = 10 mm |

Further information on the designation

(⇒ Page 35)

Design details

Design

- Volute casing pump
- Horizontal installation
- Vertical installation
- Close-coupled design
- Single-stage
- Meets the technical requirements to ISO 5199
- Ratings to ISO 2858 complemented by pumps of nominal diameters DN 25

Pump casing

- Single or double volute, depending on the pump size
- Radially split volute casing
- Volute casing with integrally cast pump feet
- Replaceable casing wear rings
- Heatable
- Draining facility

Impeller type

- Closed radial impeller with multiply curved vanes
- Discharge-side sealing clearance reduces axial thrust

Shaft seal

- Seal-less, with magnetic coupling
- Containment shroud as sealing element
- **Optional:** leakage barrier

Casing cover variants

- Internal circulation
- Low-boiling fluids
- External circulation
 - With fluid handled
 - With barrier fluid
- Dead-end configuration

In addition:

- Flushing connection
- Heatable
- Draining facility
- Internal ring filter or main flow filter

Bearings

Drive-end bearings:

- Shaft supported by motor

Pump-end bearing:

- Hydrodynamic plain bearings
- Product-lubricated

Automation

Automation options:

- PumpDrive
- PumpMeter

Materials

Overview of available materials

| Part. No. | Description | Material | Material variant S=standard, O=option | | | | | | | | | | |
|-------------------|---|--|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | CC | CD | VC | VD | EG | EC | ED | YG | YC | YD | DD |
| 102 | Casing | Stainless steel 1.4408/ A743 Gr CF8 M | S | S | - | - | - | - | - | - | - | - | - |
| | | Stainless steel 1.4408 | - | - | S ¹⁾ | S ¹⁾ | - | - | - | - | - | - | - |
| | | Duplex stainless steel 1.4593/1.4517/ A995 GR 1B | - | - | - | - | - | - | - | - | - | - | S |
| | | Steel GP240GH+N/ A216 Gr WCB | - | - | - | - | S | S | S | - | - | - | - |
| | | 1.7706 | - | - | - | - | - | - | - | S | S | S | - |
| 132.01 | Intermediate piece, containment shroud | Stainless steel 1.4408/ A743 GR CF8M | S | S | - | - | - | - | - | - | - | - | |
| | | Stainless steel 1.4408 | - | - | S | S | - | - | - | - | - | - | |
| | | Steel GP240GH+N/ A216 Gr WCB | - | - | - | - | S | S | S | S | S | S | |
| | | Duplex stainless steel 1.4593/ 1.4517/A995 Gr CD4MCuN | - | - | - | - | - | - | - | - | - | - | S |
| 132.03 | Intermediate piece, motor | Steel GP240GH+N/ A216 Gr WCB | S | S | S | S | S | S | S | S | S | S | |
| 161 | Casing cover | Stainless steel 1.4408/ A743 GR CF8M | S ²⁾ | S ²⁾ | - | - | - | - | - | - | - | - | |
| | | Stainless steel 1.4408 | - | - | S ²⁾ | S ²⁾ | - | - | - | - | - | - | |
| | | Duplex stainless steel 1.4593/1.4517/A995 Gr CD4MCuN | - | - | - | - | - | - | - | - | - | - | S ²⁾ |
| | | Steel GP240GH+N/ A216 Gr WCB | - | - | - | - | S ²⁾ | S ²⁾ | S ²⁾ | S ²⁾ | S ²⁾ | S ²⁾ | - |
| 23-2.02 | Auxiliary impeller | CrNiMo St INT | S | S | S | S | S | S | S | S | S | - | |
| 210.03 | Shaft (plain bearing) | Duplex stainless steel 1.4462/ UNS S31803 | S | S | S | S | S | S | S | S | S | S | |
| | | 1.4313+QT780/ A479 UNS S41500 | O | O | O | O | O | O | O | O | O | O | - |
| 230 | Impeller | Stainless steel 1.4408/ A743 GR CF8M | S | - | S | - | - | S | - | - | S | - | |
| | | Grey cast iron EN-GJL-250/ A48 CL 35B | - | - | - | - | S | - | - | S | - | - | |
| | | Duplex stainless steel 1.4593/1.4517/A995 GR 1B | - | S | - | S | - | - | S | - | - | S | S |
| 344 | Bearing bracket lantern | Steel GP240GH+N/ A216 Gr WCB | S | S | S | S | S | S | S | S | S | S | |
| 386.01/ 386.02 | Thrust bearing ring | SiC | S | S | S | S | S | S | S | S | S | S | |
| | | SiC, DLC-coated | O | O | O | O | O | O | O | O | O | O | O |
| 391.01 | Bearing ring carrier | Stainless steel 1.4408/ A743 Gr CF8M | S | S | S | S | S | S | S | S | S | - | |
| | | Duplex stainless steel 1.4593/ 1.4517/A995 Gr CD4MCuN | - | - | - | - | - | - | - | - | - | - | S |
| 411.10 | Joint ring | CrNi steel/graphite | O | O | O | O | O | O | O | S | S | S | O |
| | | Thermoplastic | S | S | S | S | S | S | S | - | - | - | S |
| | | Gylon 3501E | O | O | O | O | O | O | O | - | - | - | O |
| 502.01/ 502.02 | Casing wear ring | Grey cast iron GG/cast iron | - | - | - | - | O | O | O | O | O | - | |
| | | CrNiMo steel | O | O | O | O | - | - | - | - | - | - | |
| | | Duplex steel | - | - | - | - | - | - | - | - | - | O | |
| | | CrNi steel VG 434 | - | - | - | - | O | O | O | O | O | - | |
| | | None | S | S | S | S | S | S | S | S | S | S | |
| 503 | Impeller wear ring | CrNiMo steel | O | - | O | - | - | O | - | - | O | - | |
| | | Stainless steel 1.4027+QT | - | - | - | - | O | - | - | O | - | - | |
| | | Duplex steel | - | O | - | O | - | - | O | - | - | O | |
| | | None | S | S | S | S | S | S | S | S | S | S | |
| 529.21/ 529.22 | Bearing sleeve | SiC | S | S | S | S | S | S | S | S | S | S | |
| | | SiC, DLC-coated | O | O | O | O | O | O | O | O | O | O | |

- 1) Heatable casing optionally available.
- 2) Heatable casing cover optionally available.

| Part. No. | Description | Material | Material variant S=standard, O=option | | | | | | | | | | |
|--|--------------------|--|--|----|----|----|-----------------|-----------------|-----------------|----|----|----|-----------------|
| | | | CC | CD | VC | VD | EG | EC | ED | YG | YC | YD | DD |
| 545.21/ 545.22 | Bearing bush | SSiC | S | S | S | S | S | S | S | S | S | S | S |
| 82-15 | Containment shroud | 1.4571-2.4610 | S | S | S | S | S | S | S | S | S | S | - |
| | | 1.4462-2.4610 | - | - | - | - | - | - | - | - | - | - | S |
| | | Zirconium oxide | O | O | O | O | O | O | O | O | O | O | O |
| 818.01 | Inner rotor | 1.4571-SAMCO | S | S | S | S | S | S | S | S | S | S | - |
| | | 1.4462-SAMCO | - | - | - | - | - | - | - | - | - | - | - |
| 818.02 | Outer rotor | ST-SAMCO | S | S | S | S | S | S | S | S | S | S | S |
| 920.95 | Impeller nut | A4/AISI 316 | S | S | S | S | S | S | S | S | S | S | - |
| | | Duplex stainless steel 1.4462/ UNS S31803 | - | - | - | - | - | - | - | - | - | - | - |
| 940.01 | Key | 1.4571+C/A276 TP316 COND B | S | S | S | S | S | S | S | S | S | S | - |
| | | Duplex stainless steel 1.4462/ UNS S31803 | - | - | - | - | - | - | - | - | - | - | - |
| Leakage barrier shaft seal ring | | | | | | | | | | | | | |
| 184 | Clamping ring | C45+N/ A108 UNS G10450 | O | O | O | O | O ³⁾ | O ³⁾ | O ³⁾ | - | - | - | O ³⁾ |
| 400.01 | Gasket | Thermoplastic | O | O | O | O | O ³⁾ | O ³⁾ | O ³⁾ | - | - | - | O ³⁾ |
| 412.28/ 97/.98 | O-ring | FKM 80 | O | O | O | O | O ³⁾ | O ³⁾ | O ³⁾ | - | - | - | O ³⁾ |
| 420.97 | Shaft seal ring | GYLON-MS | O | O | O | O | O ³⁾ | O ³⁾ | O ³⁾ | - | - | - | O ³⁾ |
| 723.97 | Flange | C45+N/ A108 UNS G10450 | O | O | O | O | O ³⁾ | O ³⁾ | O ³⁾ | - | - | - | O ³⁾ |

Coating and preservation

- Coating and preservation to KSB standard

- Temperature maintenance and heating facility for casing and casing cover

Product benefits

- High operating reliability:
 - Only static seals are required.
 - Optional leakage barrier
 - Containment shroud protected by anti-rub feature on outer rotor and inner rotor
 - Self-draining facility of containment shroud
 - Pump does not need to be drained before drive unit is fitted/removed.
- Broad application range:
 - Product-lubricated plain bearings made of silicon carbide (DLC coating optionally available)
 - Modular design principle for hydraulic system and magnetic coupling
 - Large number of operating modes

Acceptance tests and warranty

- Materials testing
 - Test report 2.2 on request
- Final inspection
 - Inspection certificate 3.1 to EN 10204 on request
- Hydraulic test

The duty point of each pump is guaranteed according to ISO 9906/2A.

The following acceptance tests can be performed and certified at extra charge:

 - Performance test to ISO 9906
 - NPSH test
- Other tests (e.g. vibrations, strength) on request.
- Warranty

Warranties are given within the scope of the valid terms and conditions of sale and delivery.

3) Only applies up to PN16.

Pressure limits and temperature limits

Pressure limits and temperature limits of the hydraulic system

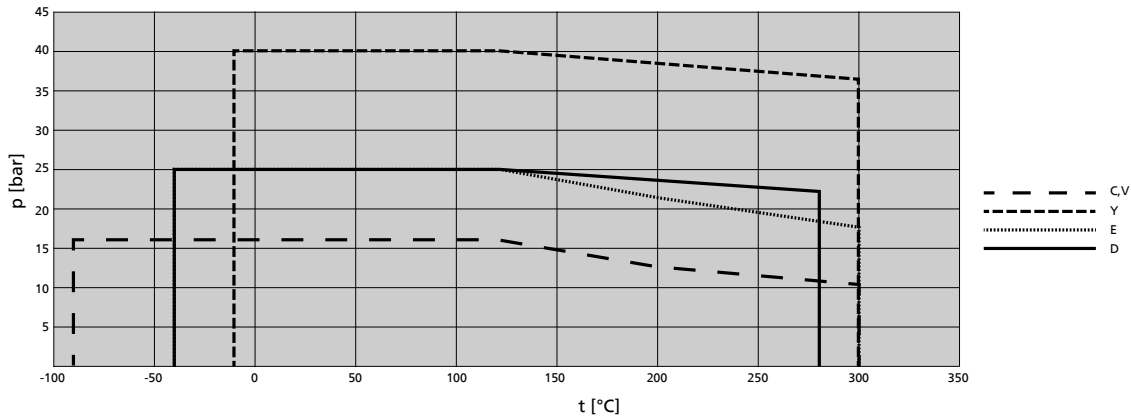


Fig. 1: Pressure limits and temperature limits of the hydraulic system
The pressure limits and temperature limits depend on the configuration.

Pressure limits and temperature limits of ASME flanges

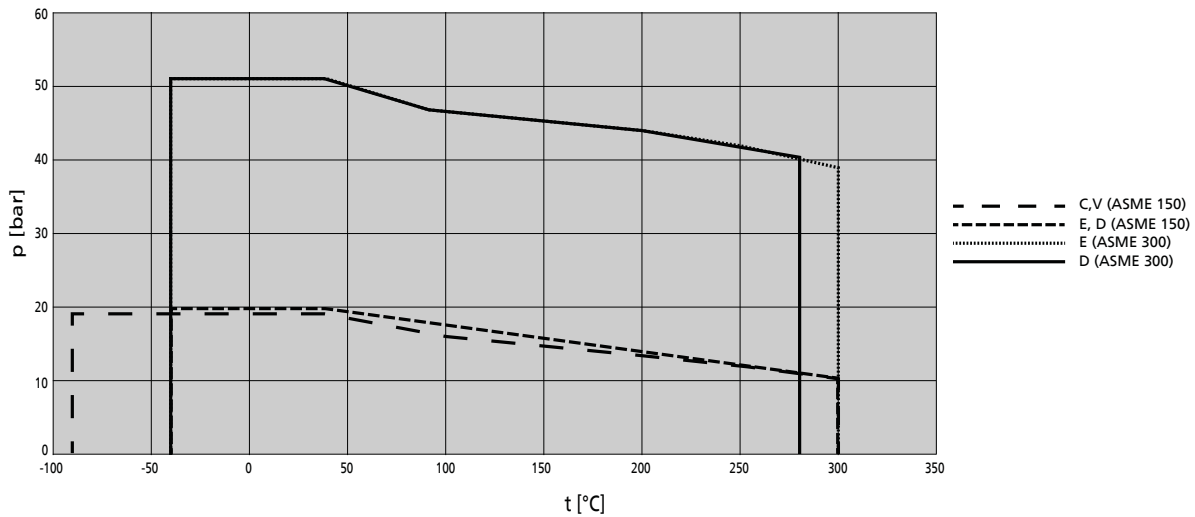


Fig. 2: Pressure limits and temperature limits of ASME flanges⁴⁾

On models with ASME flanges, the pressure limits and temperature limits are determined by the lowest value given in the "Pressure limits and temperature limits of the hydraulic system" diagram and the "Pressure and temperature limits of ASME flanges" diagram.

4) If material Y (ASME 300) is used, the pressure limits and temperature limits are higher than those stipulated for the hydraulic system.

Technical data

Technical data

| Size | Bearing bracket | Impeller | | | | | Volute casing design ⁵⁾ | Hydraulic system design ⁶⁾ | Heatable casing | Heatable casing cover | Nominal diameter | | | | | |
|---------------|-----------------|--------------------------|--------------|-------------------------|-------------------|------|------------------------------------|---------------------------------------|-----------------|-----------------------|-------------------------------|------|------|------|------|------|
| | | Impeller outlet diameter | Free passage | Impeller inlet diameter | Impeller diameter | | | | | | 85 | | 123 | | 172 | |
| | | | | | Max. | Min. | | | | | Magnetic coupling length [mm] | | | | | |
| | | [mm] | [mm] | [mm] | [mm] | [mm] | | | | | Min. | Max. | Min. | Max. | Min. | Max. |
| | | | | | | | | | | | 10 | 60 | 10 | 70 | 10 | 100 |
| 040-025-160 | CS40 | 6 | 5,7 | 44 | 169 | 130 | E | L | X | X | X | X | - | | | |
| 040-025-200 | CS40 | 6 | 5,7 | 44 | 209 | 160 | E | L | - | X | X | X | - | | | |
| 050-032-125 | CS40 | 10 | 5,7 | 63 | 139 | 110 | E | E | X | X | X | X | - | | | |
| 050-032-125.1 | CS40 | 7 | 6,0 | 52 | 139 | 114 | E | E | - | X | X | X | - | | | |
| 050-032-160 | CS40 | 9 | 5,8 | 63 | 174 | 135 | E | E | X | X | X | X | - | | | |
| 050-032-160.1 | CS40 | 6 | 5,4 | 52 | 170 | 138 | E | L | X | X | X | X | - | | | |
| 050-032-200 | CS40 | 7 | 6,7 | 62 | 209 | 178 | E | E | X | X | X | X | - | | | |
| 050-032-200.1 | CS40 | 6 | 5,3 | 54 | 204 | 138 | E | E | X | X | X | X | - | | | |
| 050-032-250 | CS50 | 8 | 7,1 | 63 | 261 | 212 | E | E | X | X | X | X | X | | | |
| 050-032-250.1 | CS50 | 6 | 5,2 | 58 | 254 | 220 | E | E | X | X | X | X | X | | | |
| 065-040-125 | CS40 | 14 | 9,6 | 74 | 139 | 110 | E | E | - | X | X | X | - | | | |
| 065-040-160 | CS40 | 13 | 11,5 | 70 | 174 | 135 | E | E | X | X | X | X | - | | | |
| 065-040-160.1 | CS40 | 9 | 8,5 | 65 | 169 | 130 | E | L | - | X | X | X | - | | | |
| 065-040-200 | CS40 | 9 | 8,9 | 69 | 209 | 175 | E | E | X | X | X | X | - | | | |
| 065-040-200.1 | CS40 | 7 | 6,6 | 65 | 209 | 160 | E | L | - | X | X | X | - | | | |
| 065-040-250 | CS50 | 8 | 8,0 | 73 | 260 | 214 | E | E | X | X | X | X | X | | | |
| 065-040-250.1 | CS50 | 7 | 6,6 | 68 | 260 | 200 | E | L | X | X | X | X | X | | | |
| 065-040-315 | CS50 | 8 | 7,1 | 75 | 326 | 278 | E | E | X | X | X | X | X | | | |
| 080-050-125 | CS40 | 20 | 11,6 | 88 | 142 | 114 | E | E | - | X | X | X | - | | | |
| 080-050-160 | CS40 | 17 | 11,6 | 87 | 174 | 135 | E | E | X | X | X | X | - | | | |
| 080-050-160.1 | CS40 | 15 | 9 | 82 | 169 | 130 | E | L | - | X | X | X | - | | | |
| 080-050-200 | CS40 | 14 | 11,9 | 83 | 219 | 180 | E | E | X | X | X | X | - | | | |
| 080-050-200.1 | CS40 | 12 | 6,7 | 82 | 209 | 160 | E | L | - | X | X | X | - | | | |
| 080-050-250 | CS50 | 11 | 10,0 | 84 | 260 | 220 | E | E | X | X | X | X | X | | | |
| 080-050-250.1 | CS50 | 10 | 7,0 | 85 | 260 | 200 | E | L | - | X | X | X | X | | | |
| 080-050-315 | CS50 | 10 | 9,5 | 86 | 323 | 270 | E | E | X | X | X | X | X | | | |
| 080-050-315.1 | CS50 | 8 | 7,6 | 85 | 320 | 260 | E | L | X | X | X | X | X | | | |
| 100-065-125 | CS40 | 26 | 12,9 | 99 | 141 | 114 | E | L | - | X | X | X | - | | | |
| 100-065-160 | CS50 | 21 | 12,2 | 92 | 174 | 132 | E | L | - | X | X | X | X | | | |
| 100-065-200 | CS50 | 17 | 13,3 | 100 | 219 | 180 | E | L | X | X | X | X | X | | | |
| 100-065-250 | CS50 | 15 | 14,3 | 101 | 260 | 220 | E | L | - | X | X | X | X | | | |
| 100-065-315 | CS60 | 14 | 13 | 107 | 320 | 270 | E | E | - | X | X | X | X | | | |
| 125-080-160 | CS50 | 32 | 15,1 | 124 | 174 | 122 | E | E | - | X | X | X | X | | | |
| 125-080-200 | CS50 | 25 | 15,2 | 115 | 219 | 180 | D | L | X | X | X | X | X | | | |
| 125-080-200.1 | CS50 | 22 | 11,9 | 116 | 209 | 140 | D | L | - | X | X | X | X | | | |
| 125-080-250 | CS50 | 19 | 15,8 | 115 | 269 | 220 | D | L | X | X | X | X | X | | | |
| 125-080-315 | CS60 | 19 | 17,8 | 115 | 334 | 281 | D | L | X | X | X | X | X | | | |
| 125-080-400 | CS60 | 15 | 14,3 | 129 | 398 | 330 | E | E | X | X | X | X | X | | | |
| 125-100-160 | CS50 | 38 | 16,4 | 135 | 185 | 155 | E | L | - | X | X | X | X | | | |
| 125-100-200 | CS50 | 33 | 17,9 | 142 | 219 | 179 | D | L | - | X | X | X | X | | | |
| 125-100-250 | CS60 | 27 | 18,8 | 145 | 262 | 216 | D | L | X | X | X | X | X | | | |
| 125-100-315 | CS60 | 23 | 19,9 | 142 | 334 | 280 | D | E | - | X | X | X | X | | | |
| 125-100-400 | CS60 | 18 | 17,1 | 142 | 401 | 329 | E | E | - | X | X | X | X | | | |
| 150-125-200 | CS60 | 41 | 21,1 | 160 | 224 | 162 | D | L | - | X | X | X | X | | | |
| 150-125-250 | CS60 | 37 | 22,4 | 162 | 269 | 218 | E | E | - | X | X | X | X | | | |
| 150-125-315 | CS60 | 31 | 22,6 | 162 | 334 | 280 | D | E | X | X | X | X | X | | | |
| 150-125-400 | CS60 | 26 | 20,9 | 162 | 419 | 330 | D | E | X | X | X | X | X | | | |
| 200-150-200 | CS60 | 60 | 25,2 | 179 | 224 | 158 | E | - | - | X | X | X | X | | | |
| 200-150-250 | CS60 | 49 | 23,0 | 191 | 269 | 220 | E | L | X | X | X | X | X | | | |

5) E = single volute, D = double volute

6) E = extended-flow hydraulic system, L = standard-flow hydraulic system

Weight

 Weight of pump [kg]⁷⁾

| Size | Bearing bracket | Motor | | | | | | | | | |
|---------------|-----------------|------------|--------------|--------------|------------------------------|-----|------------------|--|------------------|--|--|
| | | 90S 90L | 100L 112M | 132S 132M | 160M 160L 180M 180L | 200 | 225M, 2 poles | 225S, 4-6 poles 225M, 4-6 poles | 250M, 2 poles | 250M, 4-6-poles 280S, 2 poles 280M, 2 poles | 280S, 4-6 poles 280M, 4-6 poles |
| 040-025-160 | CS40 | 68 | 79 | 83 | - | - | - | - | - | - | - |
| 040-025-200 | CS40 | 81 | 92 | 95 | 100 | - | - | - | - | - | - |
| 050-032-125 | CS40 | 65 | 76 | 80 | - | - | - | - | - | - | - |
| 050-032-125.1 | CS40 | 65 | 77 | 80 | - | - | - | - | - | - | - |
| 050-032-160 | CS40 | 68 | 79 | 82 | - | - | - | - | - | - | - |
| 050-032-160.1 | CS40 | 68 | 80 | 83 | - | - | - | - | - | - | - |
| 050-032-200 | CS40 | 81 | 93 | 96 | 99 | - | - | - | - | - | - |
| 050-032-200.1 | CS40 | 82 | 93 | 97 | 100 | - | - | - | - | - | - |
| 050-032-250 | CS50 | 125 | 138 | 164 | 170 | 185 | 193 | 194 | 207 | 207 | 208 |
| 050-032-250.1 | CS50 | 125 | 138 | 164 | 170 | 185 | 193 | 194 | 207 | 207 | 208 |
| 065-040-125 | CS40 | 66 | 78 | 81 | - | - | - | - | - | - | - |
| 065-040-160.1 | CS40 | 72 | 83 | 87 | - | - | - | - | - | - | - |
| 065-040-160 | CS40 | 70 | 81 | 85 | - | - | - | - | - | - | - |
| 065-040-200 | CS40 | 83 | 95 | 98 | 104 | - | - | - | - | - | - |
| 065-040-200.1 | CS40 | 86 | 98 | 101 | 107 | - | - | - | - | - | - |
| 065-040-250 | CS50 | 126 | 139 | 165 | 171 | 186 | 194 | 195 | 208 | 208 | 209 |
| 065-040-250.1 | CS50 | 125 | 137 | 164 | 169 | 185 | 193 | 194 | 207 | 207 | 208 |
| 065-040-315 | CS50 | 161 | 173 | 200 | 205 | 219 | 227 | 228 | 241 | 241 | 242 |
| 080-050-125 | CS40 | 71 | 83 | 86 | - | - | - | - | - | - | - |
| 080-050-160 | CS40 | 73 | 84 | 88 | 92 | - | - | - | - | - | - |
| 080-050-160.1 | CS40 | 77 | 88 | 92 | 96 | - | - | - | - | - | - |
| 080-050-200 | CS40 | 86 | 97 | 101 | 105 | - | - | - | - | - | - |
| 080-050-200.1 | CS40 | 87 | 98 | 102 | 106 | - | - | - | - | - | - |
| 080-050-250 | CS50 | 129 | 142 | 168 | 174 | 189 | 197 | 198 | 211 | 211 | 212 |
| 080-050-250.1 | CS50 | 133 | 146 | 172 | 178 | 193 | 201 | 202 | 215 | 215 | 216 |
| 080-050-315 | CS50 | 166 | 178 | 205 | 210 | 223 | 231 | 232 | 245 | 245 | 246 |
| 080-050-315.1 | CS50 | 160 | 172 | 198 | 204 | 217 | 225 | 226 | 239 | 239 | 240 |
| 100-065-125 | CS40 | 76 | 88 | 91 | 96 | - | - | - | - | - | - |
| 100-065-160 | CS50 | 119 | 133 | 160 | 165 | 179 | 187 | 188 | 201 | 201 | 202 |
| 100-065-200 | CS50 | 119 | 134 | 160 | 166 | 179 | 187 | 188 | 201 | 201 | 202 |
| 100-065-250 | CS50 | 141 | 154 | 180 | 186 | 201 | 209 | 210 | 223 | 223 | 224 |
| 100-065-315 | CS60 | 170 | 183 | 209 | 215 | 230 | 238 | 239 | 252 | 252 | 253 |
| 125-080-160 | CS50 | 122 | 136 | 163 | 168 | 182 | 190 | 191 | 204 | 204 | 205 |
| 125-080-200 | CS50 | 135 | 147 | 174 | 180 | 194 | 202 | 203 | 216 | 216 | 217 |
| 125-080-200.1 | CS50 | 136 | 148 | 175 | 181 | 195 | 203 | 204 | 217 | 217 | 218 |
| 125-080-250 | CS50 | 160 | 172 | 198 | 204 | 219 | 227 | 228 | 241 | 241 | 242 |
| 125-080-315 | CS60 | 195 | 207 | 234 | 239 | 254 | 262 | 263 | 276 | 276 | 277 |
| 125-080-400 | CS60 | 218 | 231 | 258 | 263 | 291 | 299 | 300 | 313 | 313 | 314 |
| 125-100-160 | CS50 | 137 | 151 | 178 | 183 | 197 | 205 | 206 | 219 | 219 | 220 |
| 125-100-200 | CS50 | 148 | 160 | 186 | 192 | 207 | 215 | 216 | 229 | 229 | 230 |
| 125-100-250 | CS60 | 170 | 182 | 208 | 214 | 228 | 236 | 237 | 250 | 250 | 251 |
| 125-100-315 | CS60 | 204 | 217 | 243 | 249 | 263 | 271 | 272 | 285 | 285 | 286 |
| 125-100-400 | CS60 | 227 | 245 | 272 | 277 | 287 | 295 | 296 | 309 | 309 | 310 |
| 150-125-200 | CS60 | 171 | 183 | 209 | 215 | 230 | 238 | 239 | 252 | 252 | 253 |
| 150-125-250 | CS60 | 173 | 186 | 212 | 218 | 233 | 241 | 242 | 255 | 255 | 256 |
| 150-125-315 | CS60 | 236 | 248 | 275 | 280 | 295 | 303 | 304 | 317 | 317 | 318 |
| 150-125-400 | CS60 | 290 | 302 | 329 | 334 | 349 | 357 | 358 | 371 | 371 | 372 |
| 200-150-200 | CS60 | 207 | 219 | 246 | 251 | 267 | 275 | 276 | 289 | 289 | 290 |
| 200-150-250 | CS60 | 200 | 213 | 239 | 245 | 260 | 268 | 269 | 282 | 282 | 283 |

7) The weight data applies to a pump of max. possible length and with the largest magnetic coupling diameter. The weight data only applies to unheated models without motor.

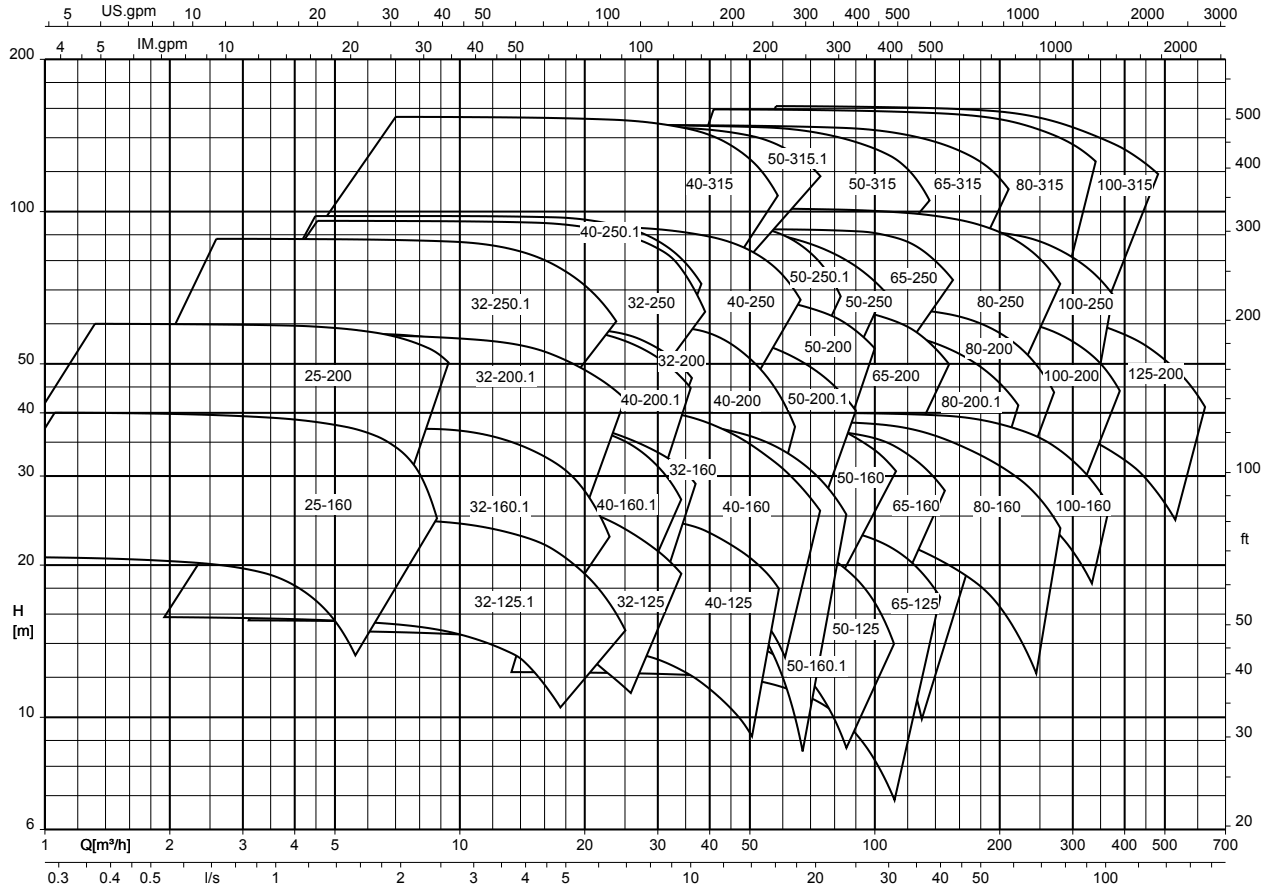
Motor weight

| Motor | Weight ⁸⁾ [kg] |
|-------|------------------------------|
| 90S | 13 |
| 90L | 16 |
| 100L | 24 |
| 112M | 29 |
| 132S | 39 |
| 132M | 53 |
| 160M | 74 |
| 160L | 90 |
| 180M | 165 |
| 180L | 180 |
| 200L | 240 |
| 225S | 300 |
| 225M | 330 |
| 250M | 435 |
| 280S | 640 |
| 280M | 660 |

8) Weight applies to a 4-pole standard Siemens motor

Selection charts

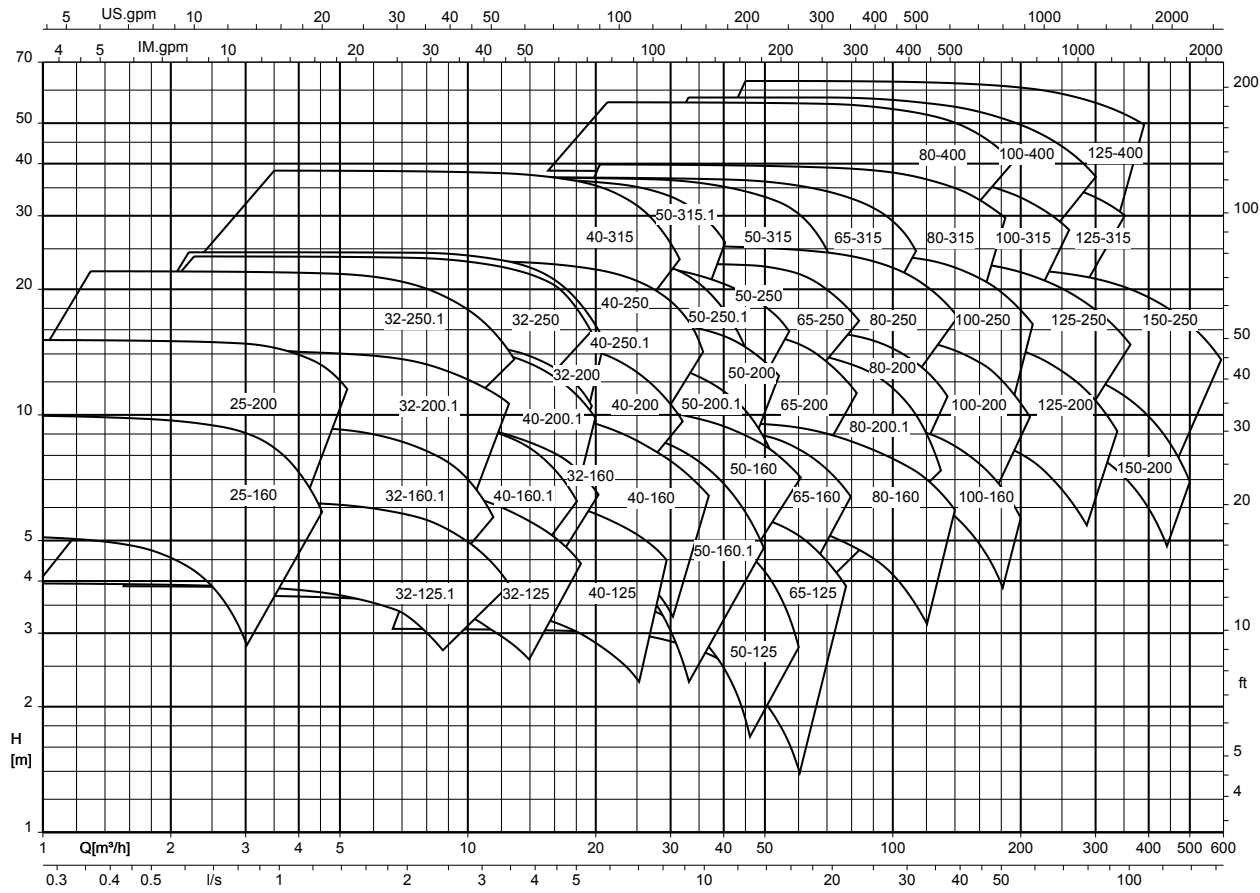
Magnochem-Bloc, n = 2900 rpm



The following sizes are **only** available in the countries indicated:

- Europe: 040-200.1, 050-160.1, 050-200.1, 050-250.1, 080-200.1

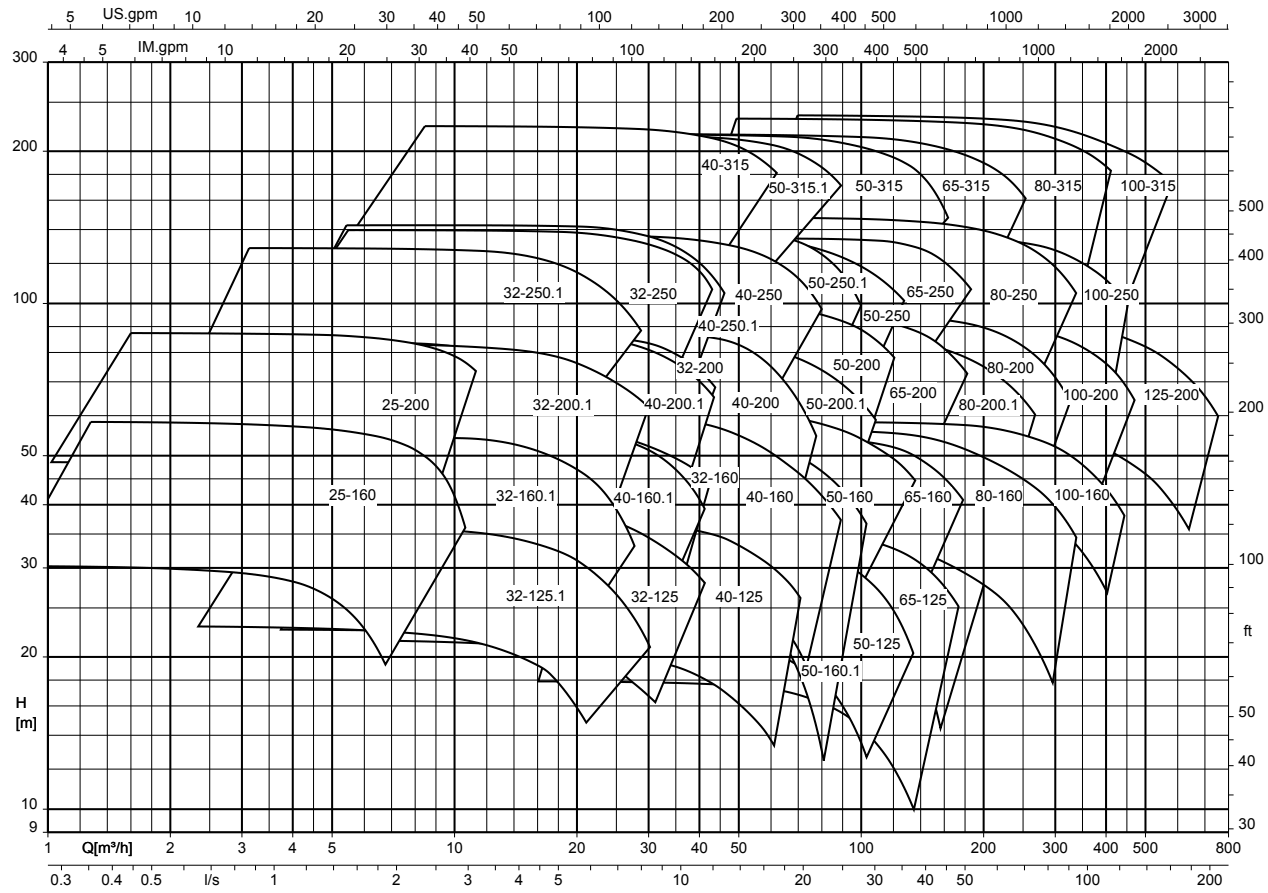
Magnochem-Bloc, n = 1450 rpm



The following sizes are **only** available in the countries indicated:

- Europe: 040-200.1, 050-160.1, 050-200.1, 050-250.1, 080-200.1

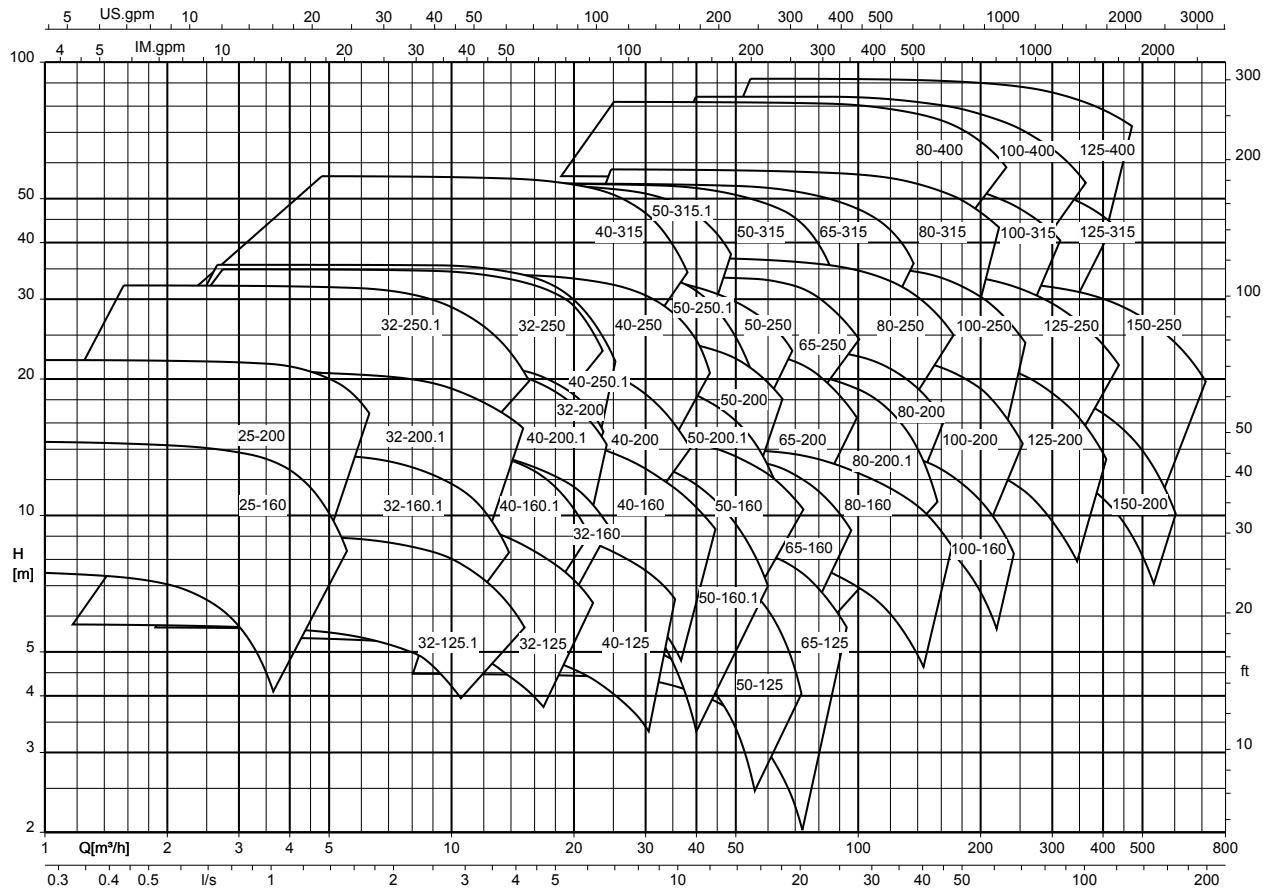
Magnochem-Bloc, n = 3500 rpm



The following sizes are **only** available in the countries indicated:

- Europe: 040-200.1, 050-160.1, 050-200.1, 050-250.1, 080-200.1

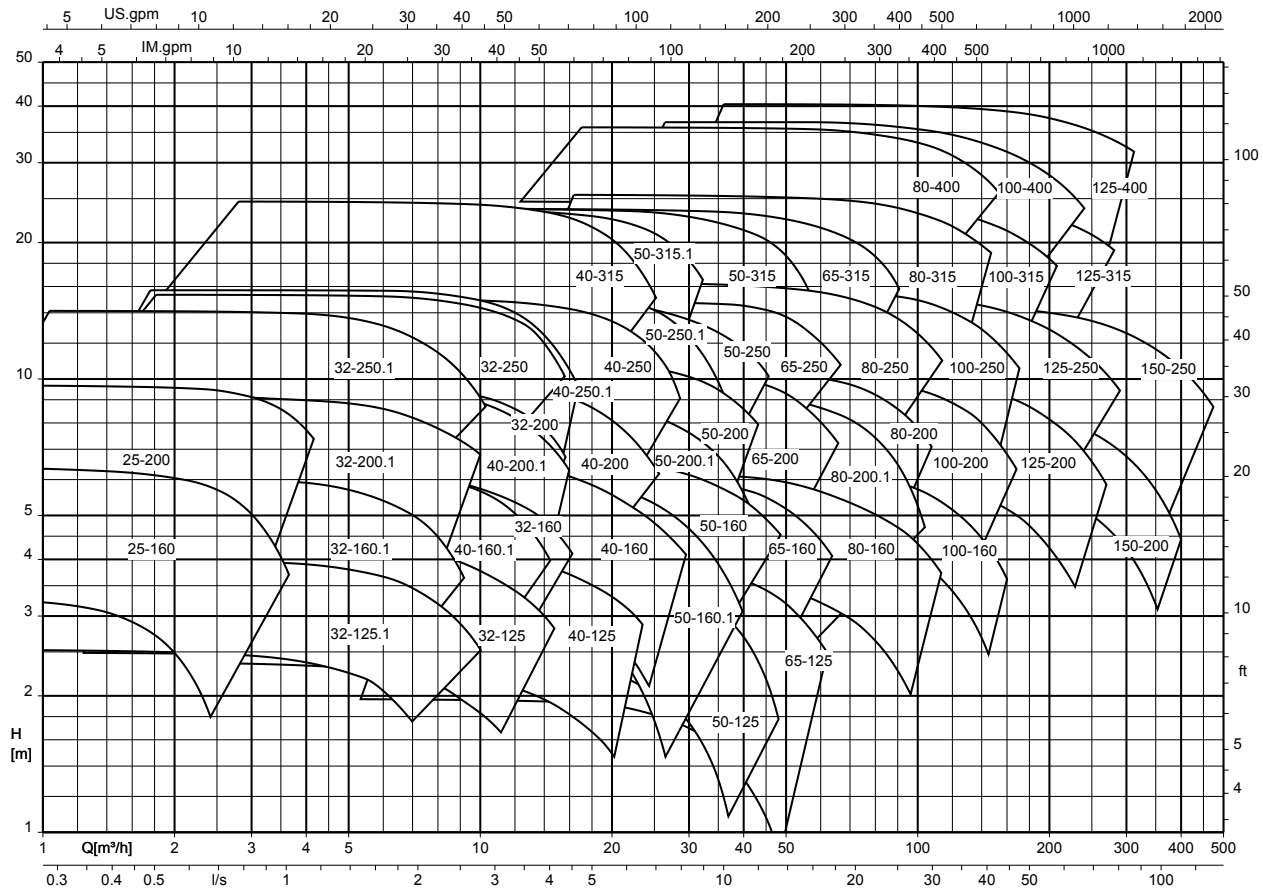
Magnechem-Bloc, n = 1750 rpm



The following sizes are **only** available in the countries indicated:

- Europe: 040-200.1, 050-160.1, 050-200.1, 050-250.1, 080-200.1

Magnochem-Bloc, n = 1160 rpm



Dimensions and connections

Dimensions of the pump set

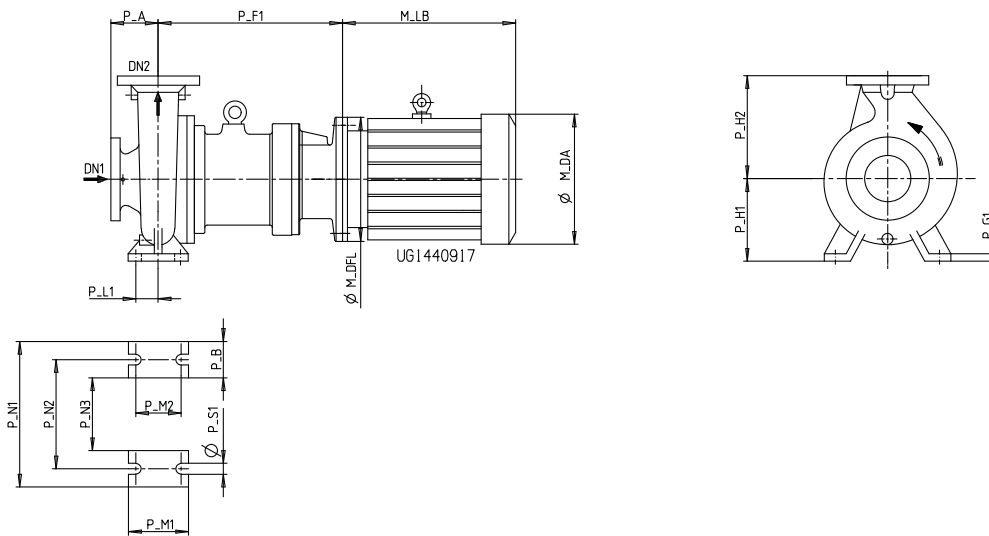


Fig. 3: Dimensions for installation without mounting plate and without support foot

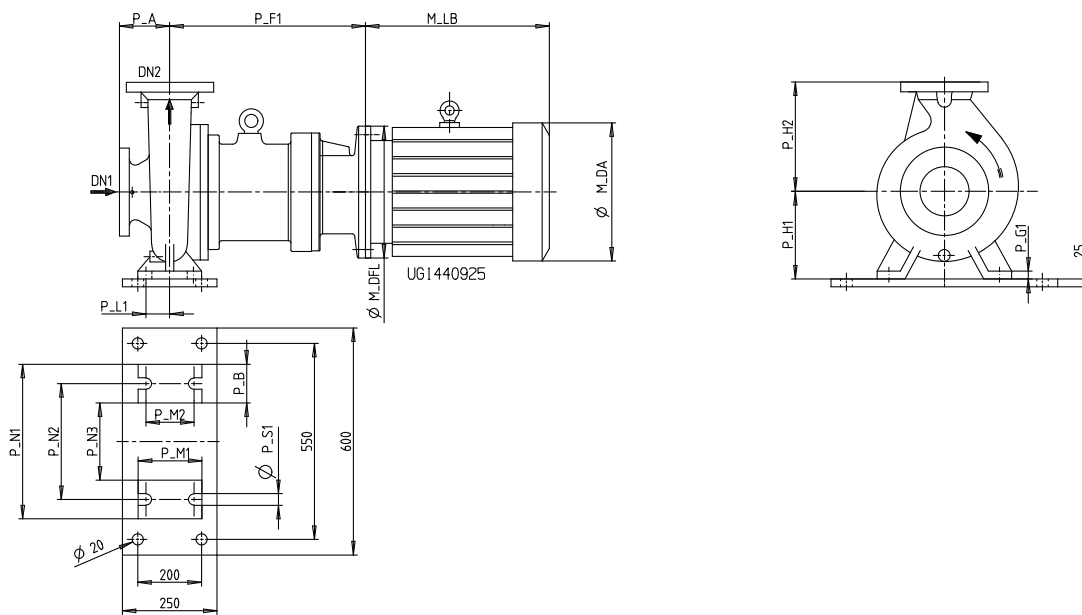


Fig. 4: Dimensions for installation with mounting plate

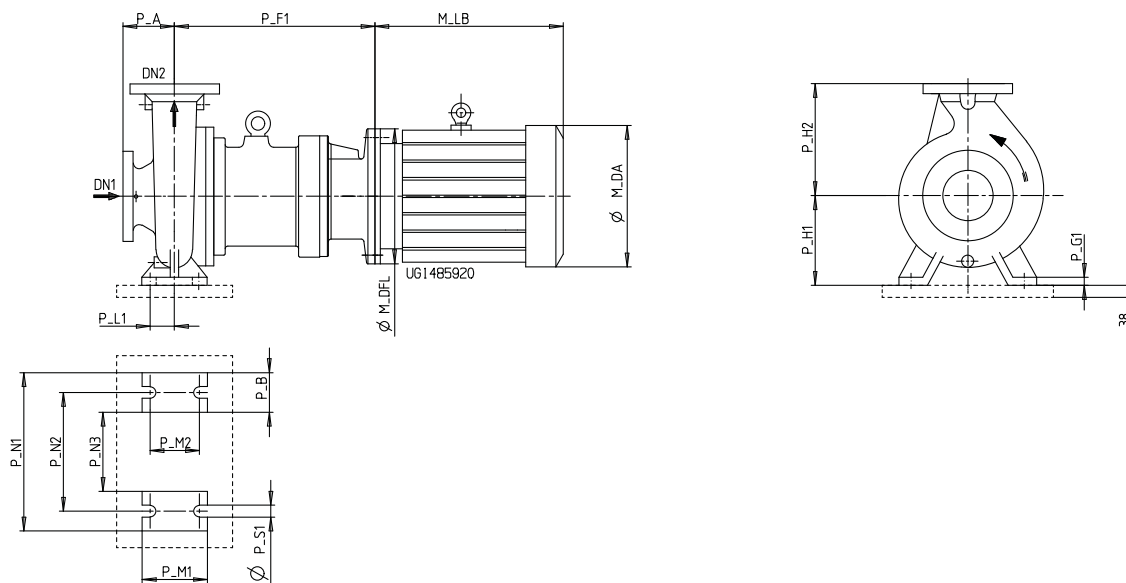


Fig. 5: Dimensions for installation with site-supplied mounting plate (mounting plate is not included in KSB' scope of supply.)

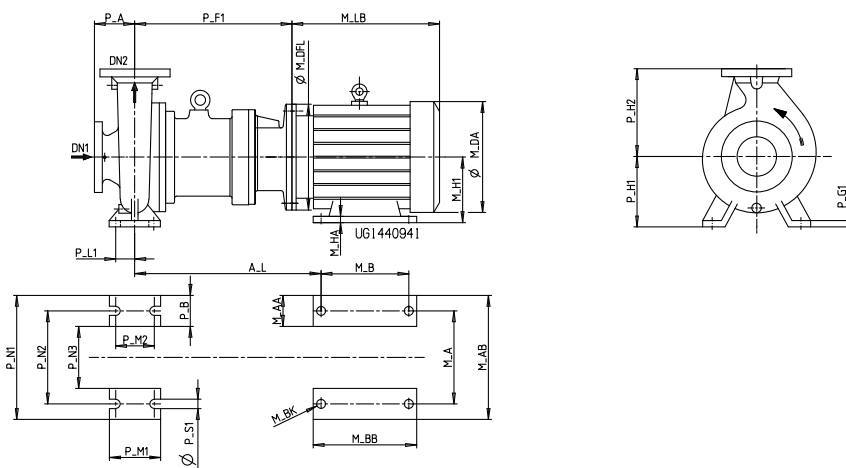


Fig. 6: Dimensions for installation with motor feet

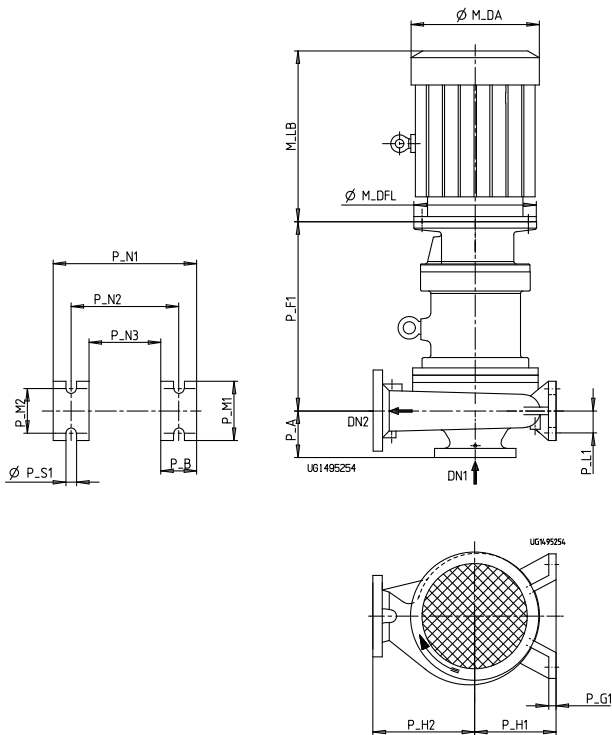


Fig. 7: Dimensions for vertical installation

Technical data of mounting plate

| Dimensions [mm] | Weight [kg] |
|-------------------|-------------|
| <p>Height: 25</p> | 24 |

Pump dimensions

| Size | Bearing bracket | Pump dimensions | | | | | | | | | | | | | |
|---------------------------------|-----------------|-----------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|----------------------|
| | | DN1 | DN2 | P_A | P_B | P_G1 | P_H1 | P_H2 | P_L1 | P_M1 | P_M2 | P_N1 | P_N2 | P_N3 | $\varnothing P_{S1}$ |
| 040-025-160 ⁹⁾ | CS40 | 40 | 25 | 80 | 50 | 15 | 132 | 160 | 35 | 100 | 70 | 240 | 190 | 140 | 14 |
| 040-025-200 ¹⁰⁾ | CS40 | 40 | 25 | 80 | 50 | 15 | 160 | 180 | 35 | 100 | 70 | 240 | 190 | 140 | 14 |
| 050-032-125 ¹¹⁾¹²⁾ | CS40 | 50 | 32 | 80 | 50 | 15 | 112 | 140 | 35 | 100 | 70 | 190 | 140 | 90 | 14 |
| 050-032-125.1 ¹¹⁾¹²⁾ | CS40 | 50 | 32 | 80 | 50 | 15 | 112 | 140 | 35 | 100 | 70 | 190 | 140 | 90 | 14 |
| 050-032-160 ⁹⁾ | CS40 | 50 | 32 | 80 | 50 | 15 | 132 | 160 | 35 | 100 | 70 | 240 | 190 | 140 | 14 |
| 050-032-160.1 ⁹⁾ | CS40 | 50 | 32 | 80 | 50 | 15 | 132 | 160 | 35 | 100 | 70 | 240 | 190 | 140 | 14 |

9) A mounting plate with a height of 25 mm is supplied for motor size 132.

10) A mounting plate with a height of 25 mm is supplied for motor size 160 or 180.

11) A mounting plate with a height of 25 mm is supplied for motor size 100 or 112.

12) A mounting plate with a height of 38 mm is required for motor size 132. This mounting plate is not included in the scope of supply.

| Size | Bearing bracket | Pump dimensions | | | | | | | | | | | | | |
|-------------------------------|-----------------|-----------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|--------|
| | | DN1 | DN2 | P_A | P_B | P_G1 | P_H1 | P_H2 | P_L1 | P_M1 | P_M2 | P_N1 | P_N2 | P_N3 | Ø P_S1 |
| 050-032-200 ¹⁰⁾ | CS40 | 50 | 32 | 80 | 50 | 18 | 160 | 180 | 35 | 100 | 70 | 240 | 190 | 140 | 14 |
| 050-032-200.1 ¹⁰⁾ | CS40 | 50 | 32 | 80 | 50 | 18 | 160 | 180 | 35 | 100 | 70 | 240 | 190 | 140 | 14 |
| 050-032-250 | CS50 | 50 | 32 | 100 | 65 | 18 | 180 | 225 | 47,5 | 125 | 95 | 320 | 250 | 190 | 14 |
| 050-032-250.1 | CS50 | 50 | 32 | 100 | 65 | 18 | 180 | 225 | 47,5 | 125 | 95 | 320 | 250 | 190 | 14 |
| 065-040-125 ¹¹⁾¹²⁾ | CS40 | 65 | 40 | 80 | 50 | 15 | 112 | 140 | 35 | 100 | 70 | 210 | 160 | 110 | 14 |
| 065-040-160 ⁹⁾ | CS40 | 65 | 40 | 80 | 50 | 15 | 132 | 160 | 35 | 100 | 70 | 240 | 190 | 140 | 14 |
| 065-040-160.1 ⁹⁾ | CS40 | 65 | 40 | 80 | 50 | 15 | 132 | 160 | 35 | 100 | 70 | 240 | 190 | 140 | 14 |
| 065-040-200 ¹⁰⁾ | CS40 | 65 | 40 | 100 | 50 | 18 | 160 | 180 | 35 | 100 | 70 | 265 | 212 | 165 | 14 |
| 065-040-200.1 ¹⁰⁾ | CS40 | 65 | 40 | 100 | 50 | 18 | 160 | 180 | 35 | 100 | 70 | 265 | 212 | 165 | 14 |
| 065-040-250 | CS50 | 65 | 40 | 100 | 65 | 18 | 180 | 225 | 47,5 | 125 | 95 | 320 | 250 | 190 | 14 |
| 065-040-250.1 | CS50 | 65 | 40 | 100 | 65 | 18 | 180 | 225 | 47,5 | 125 | 95 | 320 | 250 | 190 | 14 |
| 065-040-315 | CS50 | 65 | 40 | 125 | 65 | 18 | 200 | 250 | 47,5 | 125 | 95 | 345 | 280 | 215 | 14 |
| 080-050-125 ⁹⁾ | CS40 | 80 | 50 | 100 | 50 | 18 | 132 | 160 | 35 | 100 | 70 | 240 | 190 | 140 | 14 |
| 080-050-160 ¹⁰⁾ | CS40 | 80 | 50 | 100 | 50 | 18 | 160 | 180 | 35 | 100 | 70 | 265 | 212 | 165 | 14 |
| 080-050-160.1 ¹⁰⁾ | CS40 | 80 | 50 | 100 | 50 | 18 | 160 | 180 | 35 | 100 | 70 | 265 | 212 | 165 | 14 |
| 080-050-200 ¹⁰⁾ | CS40 | 80 | 50 | 100 | 50 | 18 | 160 | 200 | 35 | 100 | 70 | 265 | 212 | 165 | 14 |
| 080-050-200.1 ¹⁰⁾ | CS40 | 80 | 50 | 100 | 50 | 18 | 160 | 200 | 35 | 100 | 70 | 265 | 212 | 165 | 14 |
| 080-050-250 | CS50 | 80 | 50 | 125 | 65 | 18 | 180 | 225 | 47,5 | 125 | 95 | 320 | 250 | 190 | 14 |
| 080-050-250.1 | CS50 | 80 | 50 | 125 | 65 | 18 | 180 | 225 | 47,5 | 125 | 95 | 320 | 250 | 190 | 14 |
| 080-050-315 | CS50 | 80 | 50 | 125 | 65 | 18 | 225 | 280 | 47,5 | 125 | 95 | 345 | 280 | 215 | 14 |
| 080-050-315.1 | CS50 | 80 | 50 | 125 | 65 | 18 | 225 | 280 | 47,5 | 125 | 95 | 345 | 280 | 215 | 14 |
| 100-065-125 ¹⁰⁾ | CS40 | 100 | 65 | 100 | 65 | 18 | 160 | 180 | 47,5 | 125 | 95 | 280 | 212 | 150 | 14 |
| 100-065-160 ¹⁰⁾ | CS50 | 100 | 65 | 100 | 65 | 18 | 160 | 200 | 47,5 | 125 | 95 | 280 | 212 | 150 | 14 |
| 100-065-200 | CS50 | 100 | 65 | 100 | 65 | 18 | 180 | 225 | 47,5 | 125 | 95 | 320 | 250 | 190 | 14 |
| 100-065-250 | CS50 | 100 | 65 | 125 | 80 | 20 | 200 | 250 | 60 | 160 | 120 | 360 | 280 | 200 | 18 |
| 100-065-315 | CS60 | 100 | 65 | 125 | 80 | 20 | 225 | 280 | 60 | 160 | 120 | 400 | 315 | 240 | 18 |
| 125-080-160 | CS50 | 125 | 80 | 125 | 65 | 18 | 180 | 225 | 47,5 | 125 | 95 | 320 | 250 | 190 | 14 |
| 125-080-200 | CS50 | 125 | 80 | 125 | 65 | 18 | 180 | 250 | 47,5 | 125 | 95 | 345 | 280 | 215 | 14 |
| 125-080-200.1 | CS50 | 125 | 80 | 125 | 65 | 18 | 180 | 250 | 47,5 | 125 | 95 | 345 | 280 | 215 | 14 |
| 125-080-250 | CS50 | 125 | 80 | 125 | 80 | 18 | 225 | 280 | 60 | 160 | 120 | 400 | 315 | 240 | 18 |
| 125-080-315 | CS60 | 125 | 80 | 125 | 80 | 20 | 250 | 315 | 60 | 160 | 120 | 400 | 315 | 240 | 18 |
| 125-080-400 | CS60 | 125 | 80 | 125 | 80 | 20 | 280 | 355 | 60 | 160 | 120 | 435 | 355 | 275 | 18 |
| 125-100-160 | CS50 | 125 | 100 | 125 | 80 | 18 | 200 | 280 | 60 | 160 | 120 | 360 | 280 | 200 | 19 |
| 125-100-200 | CS50 | 125 | 100 | 125 | 80 | 18 | 200 | 280 | 60 | 160 | 120 | 360 | 280 | 200 | 18 |
| 125-100-250 | CS60 | 125 | 100 | 140 | 80 | 18 | 225 | 280 | 60 | 160 | 120 | 400 | 315 | 240 | 18 |
| 125-100-315 | CS60 | 125 | 100 | 140 | 80 | 18 | 250 | 315 | 60 | 160 | 120 | 400 | 315 | 240 | 18 |
| 125-100-400 | CS60 | 125 | 100 | 140 | 100 | 20 | 280 | 355 | 75 | 200 | 150 | 500 | 400 | 300 | 23 |
| 150-125-200 | CS60 | 150 | 125 | 140 | 80 | 20 | 250 | 315 | 60 | 160 | 120 | 400 | 315 | 240 | 19 |
| 150-125-250 | CS60 | 150 | 125 | 140 | 80 | 20 | 250 | 355 | 60 | 160 | 120 | 400 | 315 | 240 | 18 |
| 150-125-315 | CS60 | 150 | 125 | 140 | 100 | 20 | 280 | 355 | 75 | 200 | 150 | 500 | 400 | 300 | 23 |
| 150-125-400 | CS60 | 150 | 125 | 140 | 100 | 20 | 315 | 400 | 75 | 200 | 150 | 500 | 400 | 300 | 23 |
| 200-150-200 | CS60 | 200 | 150 | 180 | 100 | 20 | 280 | 400 | 75 | 200 | 150 | 550 | 450 | 350 | 24 |
| 200-150-250 | CS60 | 200 | 150 | 160 | 100 | 20 | 280 | 375 | 75 | 200 | 150 | 500 | 400 | 300 | 23 |

Pump dimensions

| Size | Bearing bracket | Motor size ¹³⁾ | | | | | | |
|-------------------------------|-----------------|---------------------------|--------------|--------------|------------------------------|-----|---|--|
| | | 90S 90L | 100L 112M | 132S 132M | 160M 160L 180M 180L | 200 | 225M, 2 poles 225S, 4-6 poles 225M, 4-6 poles | 250M, 2 poles 250M, 4-6 poles 280S, 2 poles 280M, 2 poles 280S, 4-6 poles 280M, 4-6 poles |
| | | P_F1 | | | | | | |
| 040-025-160 ⁹⁾ | CS40 | 314 | 319 | 345 | - | - | - | - |
| 040-025-200 ¹⁰⁾ | CS40 | 314 | 319 | 345 | 379 | - | - | - |
| 050-032-125 ¹¹⁾¹²⁾ | CS40 | 314 | 319 | 345 | - | - | - | - |

13) From motor size 200, always with motor foot

| Size | Bearing bracket | Motor size ¹³⁾ | | | | | | |
|---------------------------------|-----------------|---------------------------|--------------|--------------|------------------------------|-----|---|--|
| | | 90S 90L | 100L 112M | 132S 132M | 160M 160L 180M 180L | 200 | 225M, 2 poles 225S, 4-6 poles 225M, 4-6 poles | 250M, 2 poles 250M, 4-6 poles 280S, 2 poles 280M, 2 poles 280S, 4-6 poles 280M, 4-6 poles |
| | | P_F1 | | | | | | |
| 050-032-125.1 ¹¹⁾¹²⁾ | CS40 | 314 | 319 | 345 | - | - | - | - |
| 050-032-160 ⁹⁾ | CS40 | 314 | 319 | 345 | - | - | - | - |
| 050-032-160.1 ⁹⁾ | CS40 | 314 | 319 | 345 | - | - | - | - |
| 050-032-200 ¹⁰⁾ | CS40 | 314 | 319 | 345 | 379 | - | - | - |
| 050-032-200.1 ¹⁰⁾ | CS40 | 314 | 319 | 345 | 379 | - | - | - |
| 050-032-250 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 050-032-250.1 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 065-040-125 ¹¹⁾¹²⁾ | CS40 | 314 | 319 | 345 | - | - | - | - |
| 065-040-160 ⁹⁾ | CS40 | 314 | 319 | 345 | - | - | - | - |
| 065-040-160.1 ⁹⁾ | CS40 | 314 | 319 | 345 | - | - | - | - |
| 065-040-200 ¹⁰⁾ | CS40 | 314 | 319 | 345 | 379 | - | - | - |
| 065-040-200.1 ¹⁰⁾ | CS40 | 314 | 319 | 345 | 379 | - | - | - |
| 065-040-250 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 065-040-250.1 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 065-040-315 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 080-050-125 ⁹⁾ | CS40 | 314 | 319 | 345 | - | - | - | - |
| 080-050-160 ¹⁰⁾ | CS40 | 314 | 319 | 345 | 379 | - | - | - |
| 080-050-160.1 ¹⁰⁾ | CS40 | 314 | 319 | 345 | 379 | - | - | - |
| 080-050-200 ¹⁰⁾ | CS40 | 314 | 319 | 345 | 379 | - | - | - |
| 080-050-200.1 ¹⁰⁾ | CS40 | 314 | 319 | 345 | 379 | - | - | - |
| 080-050-250 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 080-050-250.1 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 080-050-315 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 080-050-315.1 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 100-065-125 ¹⁰⁾ | CS40 | 314 | 319 | 345 | 379 | - | - | - |
| 100-065-160 ¹⁰⁾ | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 100-065-200 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 100-065-250 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 100-065-315 | CS60 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 125-080-160 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 125-080-200 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 125-080-200.1 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 125-080-250 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 125-080-315 | CS60 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 125-080-400 | CS60 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 125-100-160 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 125-100-200 | CS50 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 125-100-250 | CS60 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 125-100-315 | CS60 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 125-100-400 | CS60 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 150-125-200 | CS60 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 150-125-250 | CS60 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 150-125-315 | CS60 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 150-125-400 | CS60 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 200-150-200 | CS60 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |
| 200-150-250 | CS60 | 399 | 404 | 430 | 464 | 504 | 524 | 534 |

14) The figures indicated refer to the maximum dimensions.

15) The dimension applies to a motor combined with a CS50 or CS60 bearing bracket.

Motor dimensions

Motor dimensions

| Designation | 90S | 90L | 100L | 112M | 132S | 132M | 160M | 160L | 180M | 180L | 200L | 2 poles | | | | 4 poles | | | | |
|---------------------|-----|-----|------|------|------|------|------|------|------|------|------|---------|------|------|------|---------|------|------|------|------|
| | | | | | | | | | | | | 225M | 250M | 280S | 280M | 225M | 225S | 250M | 280S | 280M |
| M_LB ¹⁴⁾ | 282 | 308 | 382 | 371 | 413 | 441 | 546 | 552 | 610 | 610 | 669 | 755 | 817 | 925 | 980 | 725 | 695 | 817 | 925 | 980 |
| M_DA ¹⁴⁾ | 190 | 190 | 213 | 234 | 266 | 298 | 325 | 325 | 370 | 370 | 422 | 468 | 520 | 575 | 575 | 468 | 460 | 520 | 575 | 575 |
| M_DFL | 200 | 200 | 250 | 250 | 300 | 300 | 350 | 350 | 350 | 350 | 400 | 450 | 550 | 550 | 550 | 450 | 450 | 550 | 550 | 550 |
| A_L ¹⁵⁾ | - | - | - | - | - | - | - | - | - | - | 637 | 673 | 702 | 724 | 724 | 673 | 673 | 702 | 724 | 724 |
| M_H1 | - | - | - | - | - | - | - | - | - | - | 200 | 225 | 250 | 280 | 280 | 225 | 225 | 250 | 280 | 280 |
| M_A | - | - | - | - | - | - | - | - | - | - | 318 | 356 | 406 | 457 | 457 | 356 | 356 | 406 | 457 | 457 |
| M_AA ¹⁴⁾ | - | - | - | - | - | - | - | - | - | - | 85 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| M_AB ¹⁴⁾ | - | - | - | - | - | - | - | - | - | - | 400 | 450 | 506 | 557 | 557 | 450 | 450 | 506 | 557 | 557 |
| M_B | - | - | - | - | - | - | - | - | - | - | 305 | 311 | 349 | 368 | 419 | 311 | 286 | 349 | 368 | 419 |
| M_BB ¹⁴⁾ | - | - | - | - | - | - | - | - | - | - | 388 | 410 | 425 | 480 | 530 | 410 | 385 | 425 | 480 | 530 |
| M_BK | - | - | - | - | - | - | - | - | - | - | 19 | 19 | 24 | 24 | 24 | 19 | 19 | 24 | 24 | 24 |
| M_HA ¹⁴⁾ | - | - | - | - | - | - | - | - | - | - | 30 | 35 | 40 | 40 | 40 | 35 | 35 | 40 | 40 | 40 |

Dimensions of pump with support foot

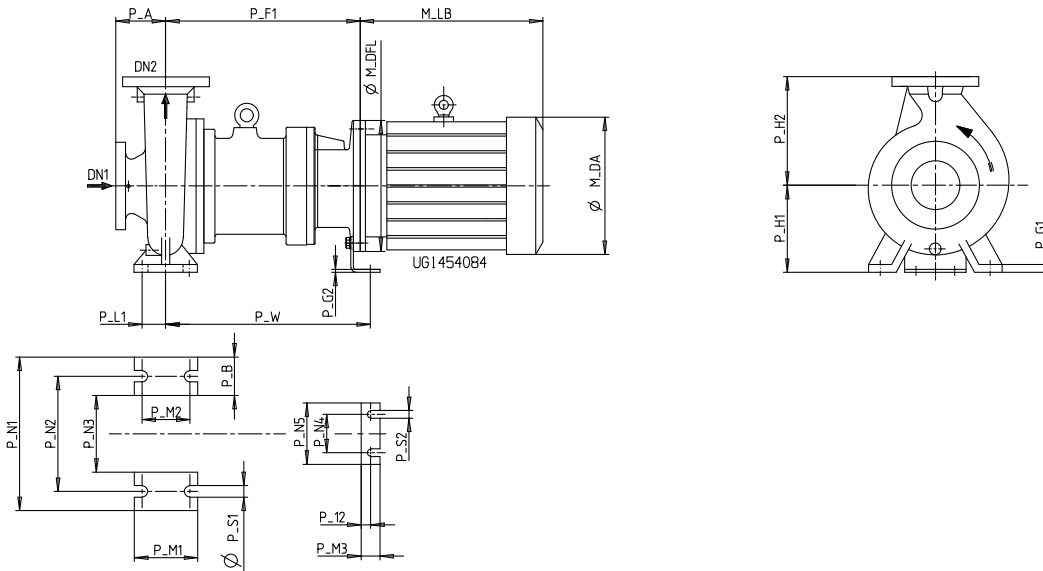
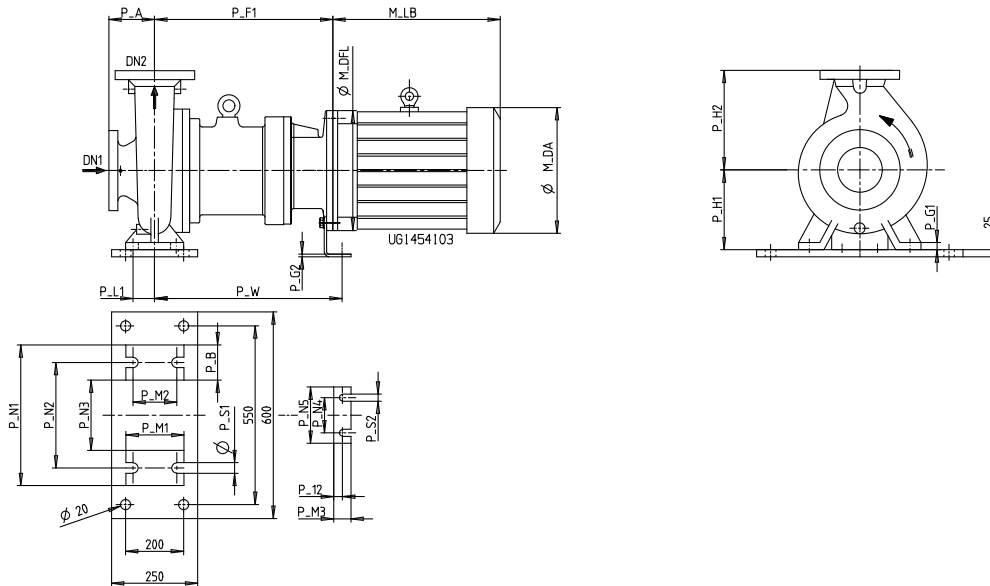


Fig. 8: Dimensions for installation with support foot


Fig. 9: Dimensions for installation with support foot and mounting plate

 Dimensions of pump with support foot¹⁶⁾

| Size | Bearing bracket | P_W | P_S2 | P_N4 | P_N5 | P_12 | P_M3 | P_G2 |
|---------------|-----------------|-----|------|------|------|------|------|------|
| 040-025-160 | CS40 | - | - | - | - | - | - | - |
| 040-025-200 | CS40 | 370 | 14 | 110 | 160 | 20 | 48 | 4 |
| 050-032-125 | CS40 | - | - | - | - | - | - | - |
| 050-032-125.1 | CS40 | - | - | - | - | - | - | - |
| 050-032-160 | CS40 | - | - | - | - | - | - | - |
| 050-032-160.1 | CS40 | - | - | - | - | - | - | - |
| 050-032-200 | CS40 | 370 | 14 | 110 | 160 | 20 | 48 | 4 |
| 050-032-200.1 | CS40 | 370 | 14 | 110 | 160 | 20 | 48 | 4 |
| 050-032-250 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 050-032-250.1 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 065-040-125 | CS40 | - | - | - | - | - | - | - |
| 065-040-160 | CS40 | - | - | - | - | - | - | - |
| 065-040-160.1 | CS40 | - | - | - | - | - | - | - |
| 065-040-200 | CS40 | 370 | 14 | 110 | 160 | 20 | 48 | 4 |
| 065-040-200.1 | CS40 | 370 | 14 | 110 | 160 | 20 | 48 | 4 |
| 065-040-250 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 065-040-250.1 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 065-040-315 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 080-050-125 | CS40 | - | - | - | - | - | - | - |
| 080-050-160 | CS40 | 370 | 14 | 110 | 160 | 20 | 48 | 4 |
| 080-050-160.1 | CS40 | 370 | 14 | 110 | 160 | 20 | 48 | 4 |
| 080-050-200 | CS40 | 370 | 14 | 110 | 160 | 20 | 48 | 4 |
| 080-050-200.1 | CS40 | 370 | 14 | 110 | 160 | 20 | 48 | 4 |
| 080-050-250 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 080-050-250.1 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 080-050-315 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 080-050-315.1 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 100-065-125 | CS40 | 370 | 14 | 110 | 160 | 20 | 48 | 4 |
| 100-065-160 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 100-065-200 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 100-065-250 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 100-065-315 | CS60 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 125-080-160 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 125-080-200 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 125-080-200.1 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |

16) A support foot is only supplied for motor sizes 160M, 160L, 180M, 180L.

| Size | Bearing bracket | P_W | P_S2 | P_N4 | P_N5 | P_12 | P_M3 | P_G2 |
|-------------|-----------------|-----|------|------|------|------|------|------|
| 125-080-250 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 125-080-315 | CS60 | 453 | 14 | 110 | 160 | 20 | 48 | 6 |
| 125-080-400 | CS60 | 453 | 14 | 110 | 160 | 20 | 48 | 6 |
| 125-100-160 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 125-100-200 | CS50 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 125-100-250 | CS60 | 455 | 14 | 110 | 160 | 20 | 48 | 4 |
| 125-100-315 | CS60 | 453 | 14 | 110 | 160 | 20 | 48 | 6 |
| 125-100-400 | CS60 | 453 | 14 | 110 | 160 | 20 | 48 | 6 |
| 150-125-200 | CS60 | 453 | 14 | 110 | 160 | 20 | 48 | 6 |
| 150-125-250 | CS60 | 453 | 14 | 110 | 160 | 20 | 48 | 6 |
| 150-125-315 | CS60 | 453 | 14 | 110 | 160 | 20 | 48 | 6 |
| 150-125-400 | CS60 | 453 | 14 | 110 | 160 | 20 | 48 | 6 |
| 200-150-200 | CS60 | 453 | 14 | 110 | 160 | 20 | 48 | 6 |
| 200-150-250 | CS60 | 453 | 14 | 110 | 160 | 20 | 48 | 6 |

Connections

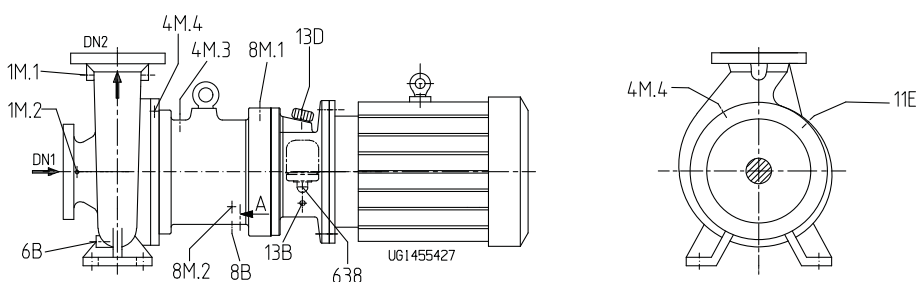


Fig. 10: Connections for operating modes: internal circulation and low-boiling fluids

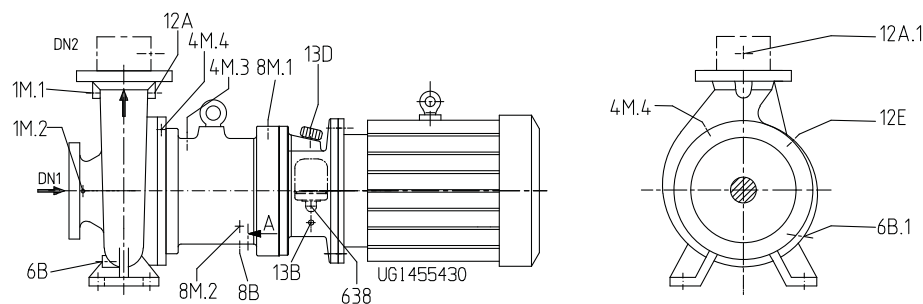


Fig. 11: Connections for operating modes: external circulation and external circulation with main flow filter

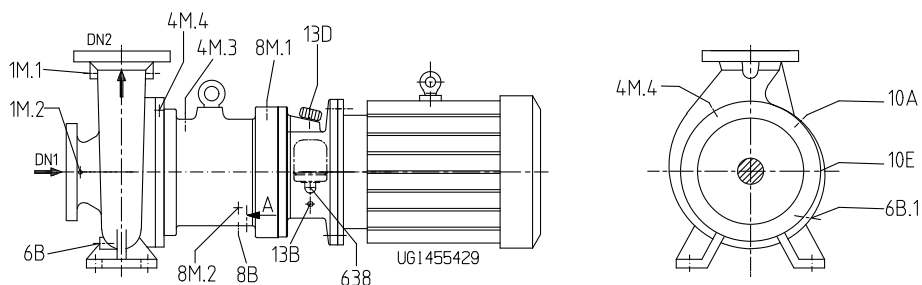
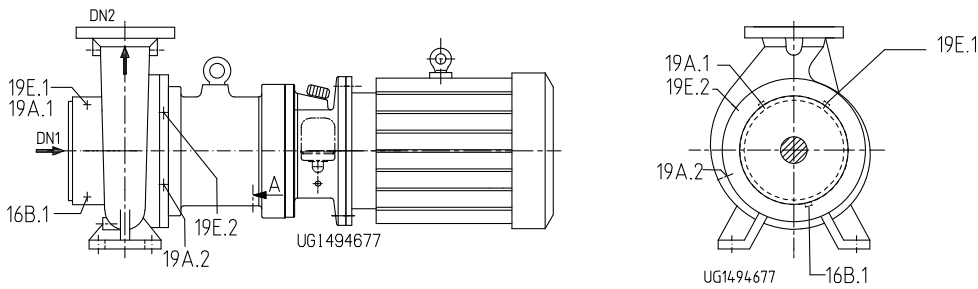
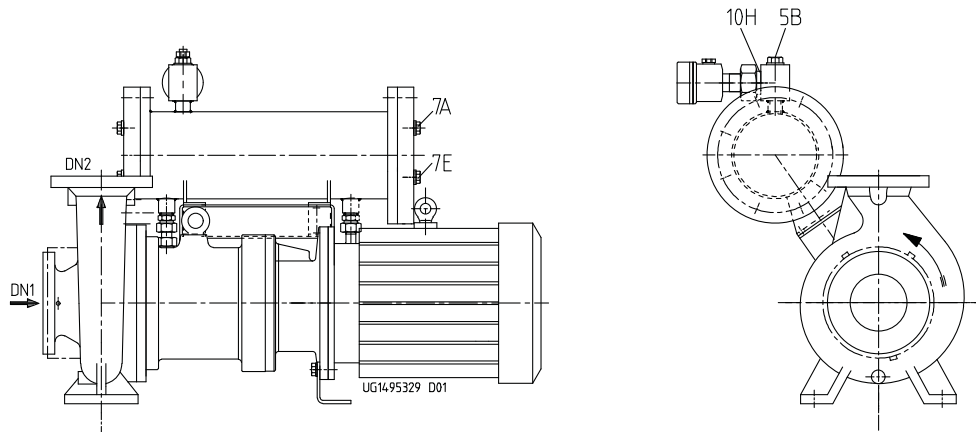


Fig. 12: Connections for dead-end configuration operating mode


Fig. 13: Connections for heating¹⁷⁾

Fig. 14: Connections for heat exchanger
Connections at the volute casing

| Connection | Description | Discharge nozzle | | |
|-------------------|------------------------------------|------------------|---------------|----------|
| | | ≤ DN 50 | DN 65 - DN 80 | ≥ DN 100 |
| 1M.1 | Pressure gauge | G1/4 | G3/8 | G1/2 |
| 1M.2 | Pressure gauge | G1/4 | G3/8 | G1/2 |
| 6B ¹⁸⁾ | Fluid drain (volute casing) | G1/4 | G3/8 | G1/2 |
| 12A | Circulation liquid OUT | G1/4 | G3/8 | G1/2 |
| 16B.1 | Condensate drain (volute casing) | | G1/4 | |
| 19A.1 | Heating liquid OUT (volute casing) | | G3/8 | |
| 19E.1 | Heating liquid IN (volute casing) | | G3/8 | |

Connections for casing cover 161, bearing bracket lantern 344, intermediate piece 132.03, main flow filter

| Connection | Description | Bearing bracket CS40/CS50/CS60 with MD 85/123/172 |
|------------|--|--|
| 4M.3 | Temperature monitoring of containment shroud, Pt100 resistance thermometer | G1/4 |
| 4M.4 | Temperature monitoring of containment shroud, thermocouple | G1/4 |
| 6B.1 | Containment shroud drain | G1/4 |
| 8B | Bearing bracket lantern drain | G1/4 |
| 8M.1 | Leakage monitoring (gas, vapour) | G1/4 |
| 8M.2 | Leakage monitoring (liquid) | G3/4 |
| 10A | Barrier fluid OUT | G1/4 |
| 10E | Barrier fluid IN | G1/4 |
| 11E | Flushing liquid, containment shroud IN | G1/4 |
| 12A.1 | Main flow filter OUT | G1/4 |
| 12E | Circulation liquid IN | G1/4 |
| 13B | Oil drain | G1/4 |
| 13D | Vent plug | Diameter 20 |

17) Only possible for operating modes: internal circulation, low-boiling fluids and dead-end configuration

18) Design with DN 15 flange if drain line is provided.

| Connection | Description | Bearing bracket CS40/CS50/CS60 with MD 85/123/172 |
|------------|-----------------------------------|--|
| 19A.2 | Heating liquid OUT (casing cover) | G3/8 |
| 19E.2 | Heating liquid IN (casing cover) | G3/8 |
| 638 | Constant level oiler | Rp 1/4 |

Connections for heat exchanger

| Connection | Description | Heat exchanger size | Connection size |
|------------|----------------------|---------------------|-----------------|
| 7A | Cooling liquid OUT | 76 | G 3/8 |
| | | 115 | G 3/4 |
| | | 152 | G 1 |
| 7E | Cooling liquid IN | 76 | G 3/8 |
| | | 115 | G 3/4 |
| | | 152 | G 1 |
| 5B | Vent | 76 | G 3/4 |
| | | 115 | |
| | | 152 | |
| 10H | Monitoring and check | 76 | G 1 |
| | | 115 | |
| | | 152 | |

Flange design

Overview of available flange designs

| Material | Standard | Pressure class |
|-----------------|-----------------------|---------------------|
| C | EN 1092-1 | PN16 |
| | Drilled to ASME B16.5 | Class 150 |
| V | EN 1092-1 | PN16 |
| | Drilled to ASME B16.5 | Class 150 |
| E | EN 1092-1 | PN16 |
| | Drilled to ASME B16.5 | Class 150/Class 300 |
| E | EN 1092-1 | PN25 |
| | Drilled to ASME B16.5 | Class 150/Class 300 |
| Y | EN 1092-1 | PN40 |
| | Drilled to ASME B16.5 | Class 300 |
| D | EN 1092-1 | PN16 |
| | Drilled to ASME B16.5 | Class 150/Class 300 |
| D | EN 1092-1 | PN25 |
| | Drilled to ASME B16.5 | Class 150/Class 300 |
| Heatable casing | EN 1092-1 | PN16 |
| | Drilled to ASME B16.5 | Class 150 |

Scope of supply

Depending on the model, the following items are included in the scope of supply:

- Pump
- KSB surface-cooled IEC frame three-phase current squirrel-cage motor
- Mounting plate
- Mounting plate adjusting elements for installation without foundation

Special accessories

- As required

Accessories

- Temperature monitoring (metal containment shroud)

- Pt100 resistance thermometer
- Mineral-insulated thermocouple
- Fill level monitoring as dry running protection
 - Liquiphant level transmitter
- Monitoring for containment shroud leakage
 - Liquiphant level transmitter
 - Contact pressure gauge
 - Pressure switch
 - Pressure transducer
- Monitoring of pump power to detect dry running and/or asynchronous operation of the magnetic coupling and to protect against overload operation
 - Motor load monitor

Electronic analysis equipment as well as additional components for operation in potentially explosive atmospheres can also be ordered from KSB.

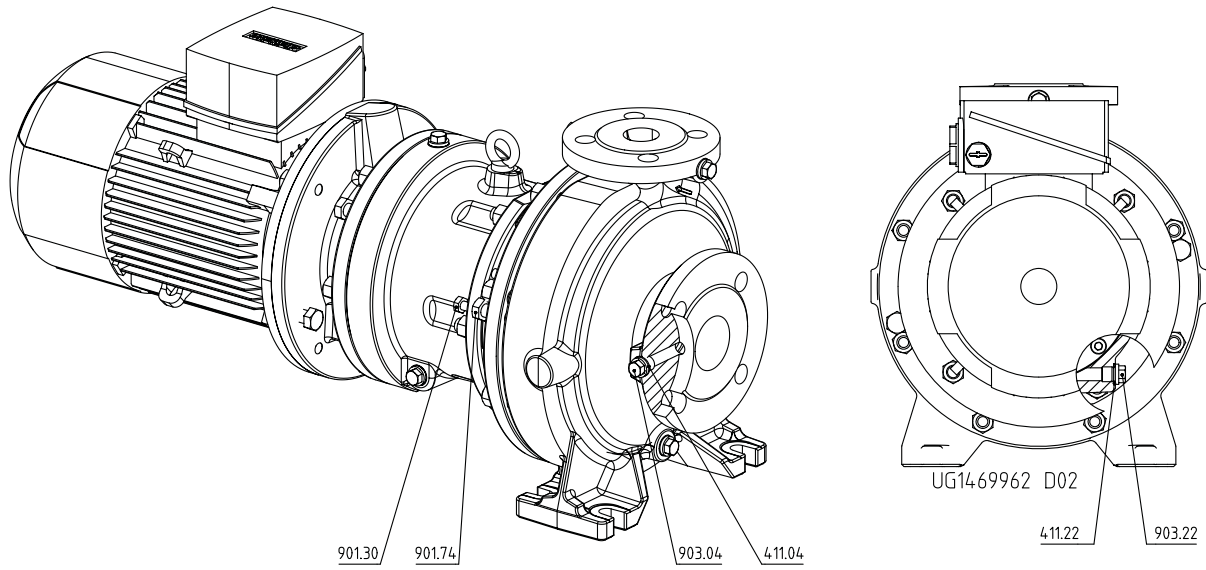


Fig. 16: Fitting the discharge cover on the pump casing on designs with bolted cover

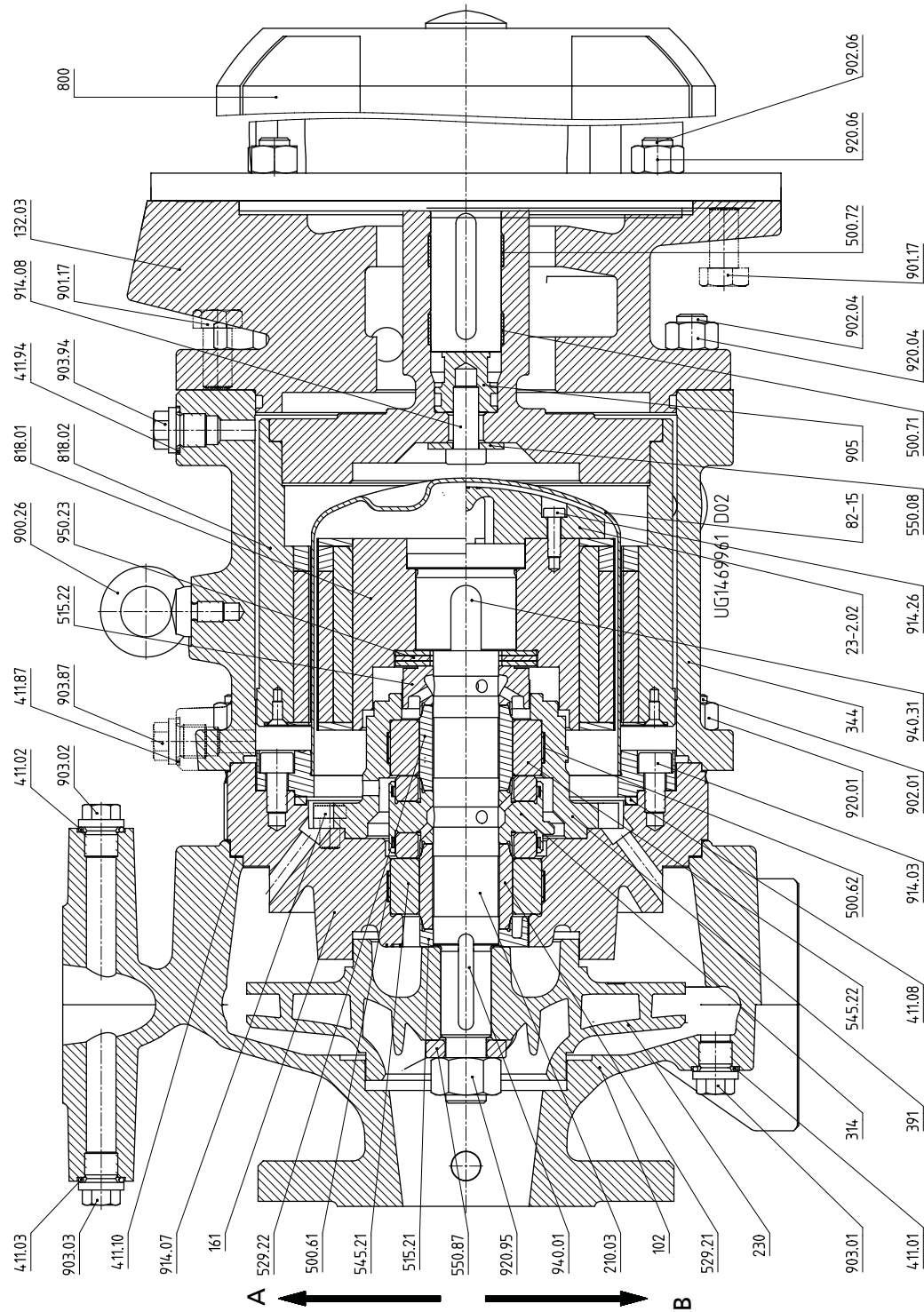


Fig. 17: General assembly drawing of model with clamped cover and without intermediate piece

| | | | |
|---|--|---|--|
| A | Internal circulation, external circulation | B | Low-boiling fluids, dead-end configuration |
|---|--|---|--|

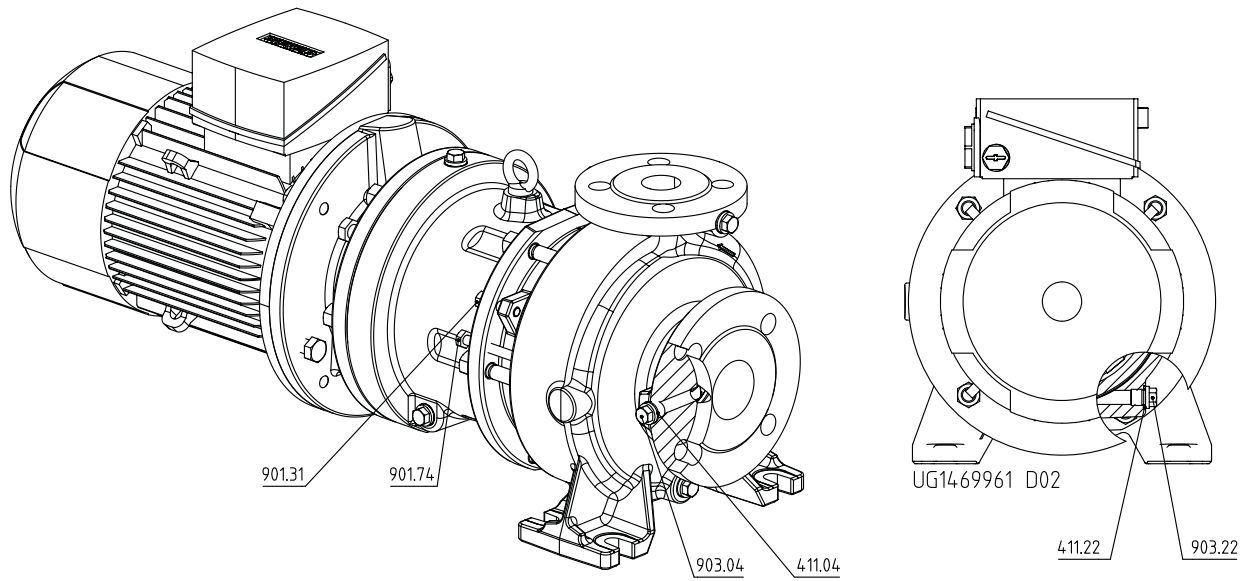


Fig. 18: Fitting the discharge cover on the pump casing on designs with bolted cover

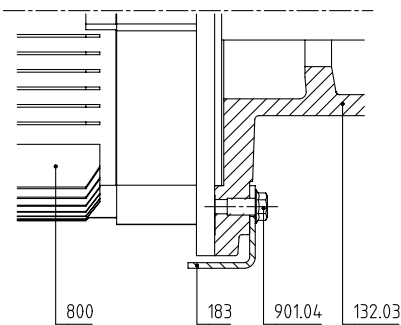


Fig. 19: Fitting the support foot for motors 160 and 180

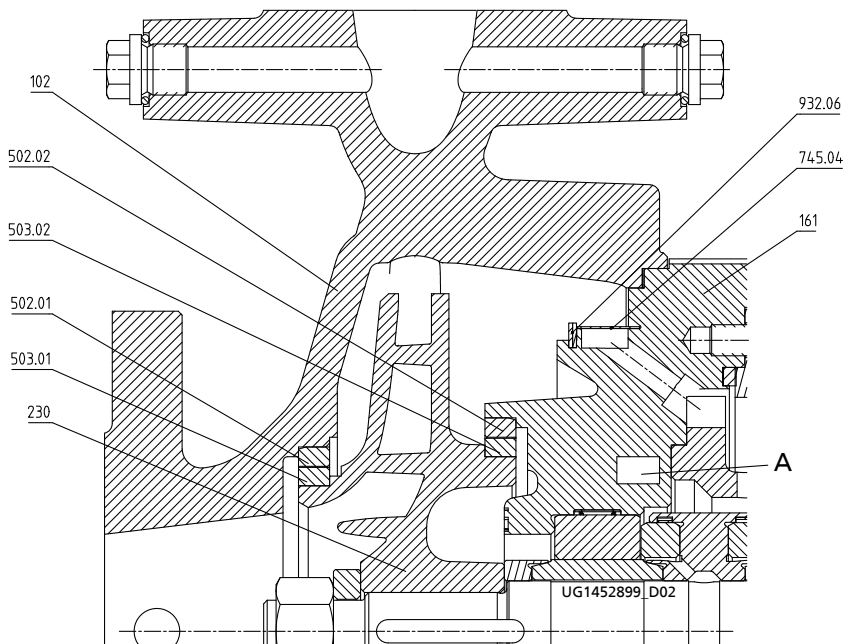
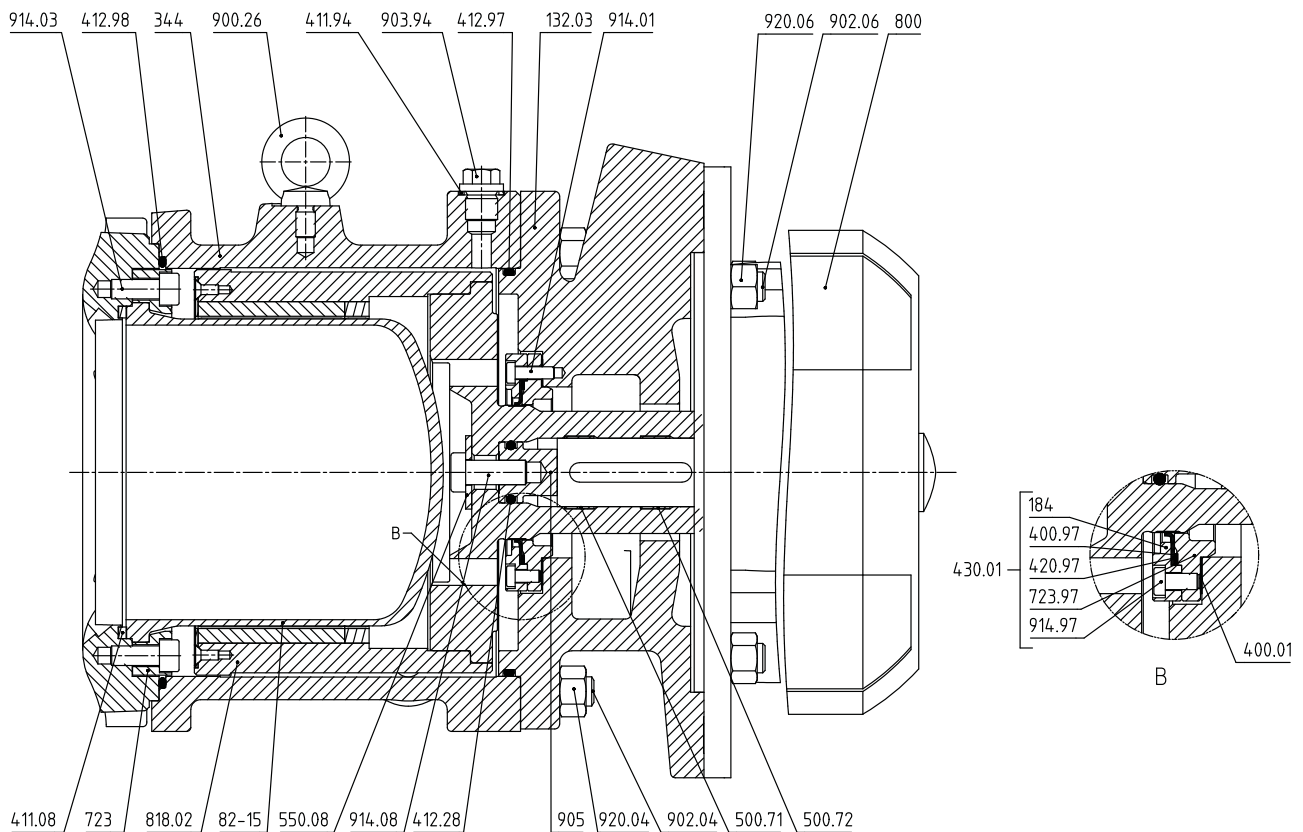


Fig. 20: Model with volute casing and ring filter, heating chamber, casing wear ring and impeller wear ring

A Heating chamber


Fig. 21: Model with ceramic containment shroud and leakage barrier with shaft seal ring
List of components

| Part No. | Comprising | Description |
|-----------------------|--|-------------------------------|
| 102 | 102 | Volute casing |
| | 411.01 ¹⁹⁾ / .02 ¹⁹⁾ / .03 ¹⁹⁾ / .04 ¹⁹⁾ | Joint ring |
| | 502.01 ¹⁹⁾ | Casing wear ring |
| | 902.01 | Stud |
| | 903.01 ¹⁹⁾ / .02 ¹⁹⁾ / .03 ¹⁹⁾ / .04 ¹⁹⁾ | Screw plug |
| | 920.01 | Hexagon nut |
| 132.03 | 132.03 | Intermediate piece |
| 161 | 161 | Casing cover |
| 502.02 ¹⁹⁾ | 502.02 ¹⁹⁾ | Casing wear ring |
| 183 | 183 ¹⁹⁾ | Support foot |
| 210.03 | 210.03 | Shaft |
| | 550.87 | Disc |
| | 920.95 | Nut |
| | 940.01/.31 | Key |
| 230 | 230 | Impeller |
| | 503.01 ¹⁹⁾ / .02 ¹⁹⁾ | Impeller wear ring |
| 23-2.02 | 23-2.02 ¹⁹⁾ | Auxiliary impeller |
| | 914.26 ¹⁹⁾ | Hexagon socket head cap screw |
| 310 | 310 | Plain bearing assembly |
| | 500.61 | Locking element |
| | 500.62 | Locking element |
| | 515.21 | Taper lock ring |
| | 515.22 | Taper lock ring |
| | 529.21 | Plain bearing sleeve |
| | 529.22 | Plain bearing sleeve |
| | 545.21 | Plain bearing bush |
| 545.22 | Plain bearing bush | |

¹⁹⁾ Not on all versions

| Part No. | Comprising | Description |
|--|-----------------------|---------------------------------------|
| 314 | 314 | Thrust bearing |
| 344 | 344 | Bearing bracket lantern |
| 391 | 391 | Bearing ring carrier |
| 411.08 | 411.08 | Joint ring |
| 411.09 | 411.09 | Joint ring |
| 411.10 | 411.10 | Joint ring |
| 411.22 /.87 /.94 | 411.22 /.87 /.94 | Joint ring |
| 500.71 /.72 | 500.71 /.72 | Locking elements |
| 509.02 | 509.02 | Intermediate ring |
| 550.08 | 550.08 | Disc |
| 800 | 800 | Motor |
| 818.01 | 818.01 | Inner rotor |
| 818.02 | 818.02 | Outer rotor |
| 82-15 | 82-15 | Containment shroud |
| | 132.01 | Containment shroud intermediate piece |
| | 723 ²⁰⁾ | Containment shroud flange |
| | 914.03 | Hexagon socket head cap screw |
| | 914.28 | Hexagon socket head cap screw |
| 900.26 | 900.26 | Eyebolt |
| 901.04 | 901.04 ¹⁹⁾ | Hexagon head bolt |
| 901.17 | 901.17 | Hexagon head bolt |
| 901.30 | 901.30 | Hexagon head bolt |
| 901.31 | 901.31 | Hexagon head bolt |
| 901.74 | 901.74 | Hexagon head bolt |
| 902.04 | 902.04 | Stud |
| 902.06 | 902.06 | Stud |
| 902.15 | 902.15 | Stud |
| 903.22 /.87 /.94 | 903.22 /.87 /.94 | Screw plug |
| 905 | 905 | Threaded connecting element |
| 914.07 | 914.07 | Hexagon socket head cap screw |
| 914.08 | 914.08 | Hexagon socket head cap screw |
| 920.04 | 920.04 | Nut |
| 920.06 | 920.06 | Nut |
| 920.15 | 920.15 | Nut |
| 950.23 | 950.23 | Disc spring |
| Casing cover design with ring filter | | |
| 745.04 | 745.04 | Filter |
| 932.06 | 932.06 | Circlip |
| Models with leakage barrier – shaft seal ring | | |
| 340.01 | 340.01 | Shaft seal |
| | 184 | Clamping ring |
| | 400.97 | Gasket |
| | 420.97 | Shaft seal ring |
| | 723.97 | Flange |
| | 914.97 | Hexagon socket head cap screw |
| 400.01 | 400.01 | Gasket |
| 412.28 /.97 /.98 | 412.28 /.97 /.98 | O-ring |
| 914.01 | 914.01 | Hexagon socket head cap screw |

20) For versions with containment shroud only

Plain bearings arrangement
Designation example for a magnetic coupling: A 31

Key to designation of magnetic coupling

| Code | Description |
|------|----------------------------|
| A | Components and position |
| A | Without 509.02 |
| B | With 509.02 / 950.23 left |
| C | With 509.02 / 950.23 right |

| Code | Description |
|------|---------------------------------------|
| 3 | Number of disc springs |
| | 2 2x 950.23 |
| | 3 3x 950.23 |
| 1 | Variant with 515.xx on thrust bearing |
| | 1 515.11, single-piece |
| | 2 515.11 / 515.12, two-piece |

Overview of plain bearings arrangement

| Size | Bearing bracket | Nominal diameter of magnetic coupling [mm] | | |
|--------------|-----------------|--|------------------|------------------|
| | | 85 | 123 | 172 |
| | | 1 | 2 ²¹⁾ | 3 ²¹⁾ |
| 040-25-160 | CS40 | A31 | A31 | - |
| 040-25-200 | CS40 | A31 | A31 | - |
| 050-32-125 | CS40 | A31 | A31 | - |
| 050-32-125.1 | CS40 | A31 | A31 | - |
| 050-32-160 | CS40 | A31 | A31 | - |
| 050-32-160.1 | CS40 | A31 | A31 | - |
| 050-32-200 | CS40 | A31 | A31 | - |
| 050-32-200.1 | CS40 | A31 | A31 | - |
| 050-32-250 | CS50 | B21 | B21 | A21 |
| 050-32-250.1 | CS50 | B21 | B21 | A21 |
| 065-40-125 | CS40 | A31 | A31 | - |
| 065-40-160 | CS40 | A31 | A31 | - |
| 065-40-160.1 | CS40 | A31 | A31 | - |
| 065-40-200 | CS40 | A31 | A31 | - |
| 065-40-200.1 | CS40 | A31 | A31 | - |
| 065-40-250 | CS50 | B21 | B21 | A21 |
| 065-40-250.1 | CS50 | B21 | B21 | A21 |
| 065-40-315 | CS50 | B21 | B21 | A21 |
| 080-50-125 | CS40 | A31 | A31 | - |
| 080-50-160 | CS40 | A31 | A31 | - |
| 080-50-160.1 | CS40 | A31 | A31 | - |
| 080-50-200 | CS40 | A31 | A31 | - |
| 080-50-200.1 | CS40 | A31 | A31 | - |
| 080-50-250 | CS50 | B21 | B21 | A21 |
| 080-50-250.1 | CS50 | B21 | B21 | A21 |
| 080-50-315 | CS50 | B21 | B21 | A21 |
| 080-50-315.1 | CS50 | B21 | B21 | A21 |
| 100-65-125 | CS40 | A31 | A31 | - |
| 100-65-160 | CS50 | B21 | B21 | A21 |
| 100-65-200 | CS50 | B21 | B21 | A21 |
| 100-65-250 | CS50 | B21 | B21 | A21 |
| 100-65-315 | CS60 | B21 | B21 | A21 |
| 125-80-160 | CS50 | B21 | B21 | A21 |
| 125-80-200 | CS50 | B21 | B21 | A21 |
| 125-80-200.1 | CS50 | B21 | B21 | A21 |
| 125-80-250 | CS50 | B21 | B21 | A21 |
| 125-80-315 | CS60 | B21 | B21 | A21 |
| 125-80-400 | CS60 | B21 | B21 | A21 |
| 125-100-160 | CS50 | B21 | B21 | A21 |
| 125-100-200 | CS50 | B21 | B21 | A21 |
| 125-100-250 | CS60 | B21 | B21 | A21 |
| 125-100-315 | CS60 | B21 | B21 | A21 |
| 125-100-400 | CS60 | B21 | B21 | A21 |
| 150-125-200 | CS60 | B21 | B21 | A21 |
| 150-125-250 | CS60 | B21 | B21 | A21 |

21) Nominal diameter of magnetic coupling as per name plate

| Size | Bearing bracket | Nominal diameter of magnetic coupling [mm] | | |
|-------------|-----------------|--|------------------|------------------|
| | | 85 | 123 | 172 |
| | | 1 | 2 ²¹⁾ | 3 ²¹⁾ |
| 150-125-315 | CS60 | B21 | B21 | A21 |
| 150-125-400 | CS60 | B21 | B21 | A21 |
| 200-150-200 | CS60 | B21 | B21 | A21 |
| 200-150-250 | CS60 | B21 | B21 | A21 |

Plain bearings arrangement

| Description | Illustration |
|---|--------------|
| Case A21 <ul style="list-style-type: none"> Bearing brackets CS50 and CS60 Magnetic coupling 172 | |
| Case B21 <ul style="list-style-type: none"> Bearing brackets CS50 and CS60 Magnetic couplings 85 and 123 | |
| Case A31 <ul style="list-style-type: none"> Bearing bracket CS40 Magnetic coupling 85/123 | |

Detailed designation
Designation example

| Position | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| M | A | C | D | 0 | 5 | 0 | - | 0 | 3 | 2 | - | 2 | 5 | 0 | 1 | C | C | - | X | 1 | A | E | N | - | - | 1 | 3 | 2 | S | 6 | B |
| See name plate and data sheet | | | | | | | | | | | | | | | | See data sheet | | | | | | | | | | | | | | | |

Designation key

| Position | Code | Description |
|----------|-----------|--|
| 1-4 | Pump type | |
| | MACD | Magnochem |
| | MACB | Magnochem-Bloc |
| 5-16 | Size | |
| | 050 | Nominal suction nozzle diameter [mm] |
| | 032 | Nominal discharge nozzle diameter [mm] |

| Position | Code | Description |
|----------|---|---|
| 5-16 | 2501 | Nominal impeller diameter [mm] |
| 17 | Pump casing material | |
| | C | 1.4408/A743CF8M |
| | E | GP240GH+N/WCB |
| | Y | 1.7706 |
| | V | 1.4408 |
| 18 | Impeller material | |
| | D | Noridur 1.4593/1.4517/A995 CD4MCuN |
| | G | JL 1040/A48CL35 |
| | C | 1.4408/A743CF8M |
| 19 | Heatable model | |
| | H | Heatable casing |
| | - | Standard |
| 20 | Special design | |
| | L | Standard-flow hydraulic system to ISO 2858 |
| | E | Extended-flow hydraulic system |
| | X | Special design |
| 21 | Magnetic coupling diameter | |
| | 5 | 265 |
| | 4 | 235 |
| | 3 | 172 |
| | 2 | 123 |
| 22 | Magnetic coupling length | |
| | 1 | 85 |
| | A | 10 |
| | B | 20 |
| | C | 30 |
| | D | 40 |
| | E | 50 |
| | F | 60 |
| | G | 70 |
| | H | 80 |
| | I | 90 |
| | J | 100 |
| | K | 110 |
| | L | 120 |
| | M | 130 |
| 23-26 | Operating modes | |
| | IPRH | Low-boiling fluids, ring filter, heatable |
| | IPR- | Low-boiling fluids, ring filter |
| | IP-H | Low-boiling fluids, heatable |
| | IP-- | Low-boiling fluids |
| | INRH | Internal circulation, ring filter, heatable |
| | INR- | Internal circulation, ring filter |
| | IN-H | Internal circulation, heatable |
| | IN-- | Internal circulation |
| | EP-H | Dead-end configuration, heatable |
| | EP-- | Dead-end configuration |
| | EN-- | External circulation with fluid handled |
| EF-- | External circulation with barrier fluid | |
| 27-30 | IEC motor frame size | |
| | 090S | 090S |
| | 100L | 100L |
| | 112M | 112M |
| | ... | Other |

| Position | Code | Description |
|----------|--------------------|--|
| 31 | Number of poles | |
| | 2 | 2 poles |
| | 4 | 4 poles |
| | 6 | 6 poles |
| 32 | Product generation | |
| | B | Magnochem Global Pump product generation |

По вопросам продаж и поддержки обращайтесь:

| | | |
|-----------------------------|---------------------------------|--------------------------------|
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