

Description

Standard chemical pumps of the SIHI^{ISOchem} range are horizontal single-stage volute casing pumps with dimensions to ISO 2858 / EN 22858. They meet the technical requirements of ISO 5199 / EN 25199.

It is a modular configuration of either bare shaft end or close-coupled design. Shaft sealing options are single or double acting mechanical seals, magnetic drives or canned motor designs.

The benefits are the interchangeability of the back pull-out assemblies and a reduction of spare parts costs.



Application

Pumps of the SIHI^{ISOchem} range meet the requirements on custom-built solutions in the process industry, in the following areas:

- chemical and pharmaceutical
- petrochemical
- paper
- plastics
- food processing
- plant engineering and construction.

Technical data

| | |
|------------------------|---|
| Flowrate: | max. 650 m ³ /h |
| Head: | max. 150 m |
| Speed: | max. 3600 rpm |
| Temperature: | max. 350 °C |
| Casing pressure: | max. 25 bar |
| Shaft seal: | - mechanical seal - magnetic drive - canned motor |
| Direction of rotation: | clockwise, when viewed from drive end |

Design

The SIHI^{ISOchem} hydraulics can be designed either with a closed impeller or a semi-open impeller.

The shaft seal chamber of the back pull-out assemblies can accommodate all usual mechanical seal types (single or double acting mechanical seal to ISO 3069/DIN 24960, cartridge mechanical seals, gas seals).

Close coupled pumps are furnished with standard motors.

Leak-free back pull-out assemblies with magnetic drive or canned motor meet the requirements with regard to job safety, operational reliability and environmental protection.

Magnetic drive isolation shroud materials are Hastelloy, plastics or ceramics.

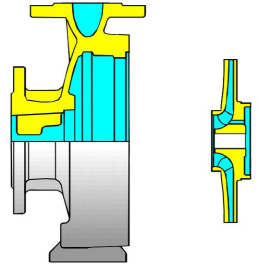
Options

- Temperatures up to 400 °C without external cooling
- Special materials
- Heating of all casing components that come into contact with the fluid handled
- Monitoring systems

Single-stage volute casing pumps
to ISO 5199/EN 25199 and ISO 2858/EN 22858
of either bare shaft end or close coupled
design with:

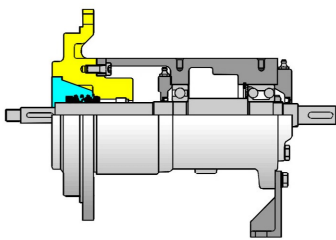
- mechanical seal
- magnetic coupling
- canned motor

Hydraulic



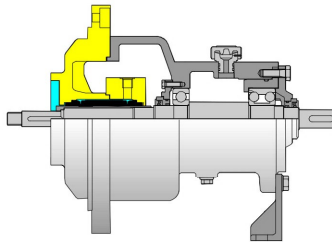
Volute casing with closed impeller

Backpull-out assemblies with bare shaft end



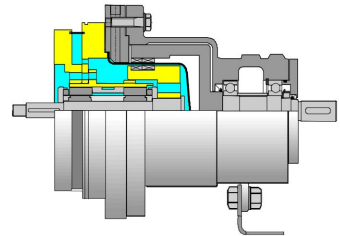
CBS

Pumps with single acting mechanical seal and grease lubricated ball bearings



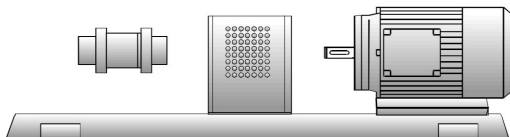
CBS

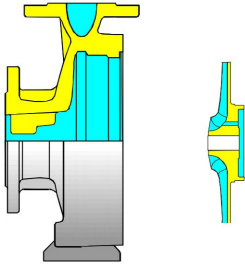
Pumps with single or double acting mechanical seal and oil lubricated ball bearings



CBM

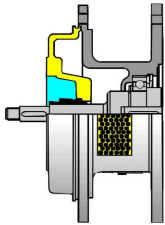
Pumps with magnetic coupling according to VDMA 24279





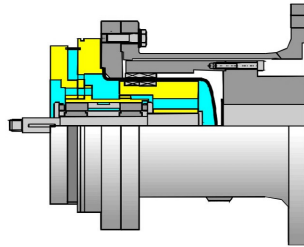
Volute casing with semi-open impeller

Close-coupled back pull-out assemblies



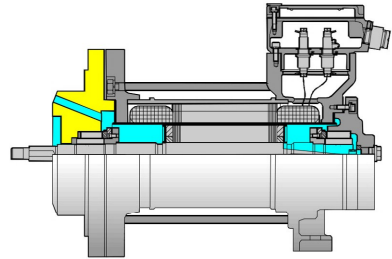
CBB

Pumps with single acting mechanical seal and lifetime-greased ball bearing



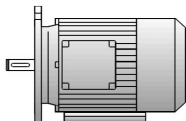
CBE

Pumps with magnetic coupling according to VDMA 24279



CBC

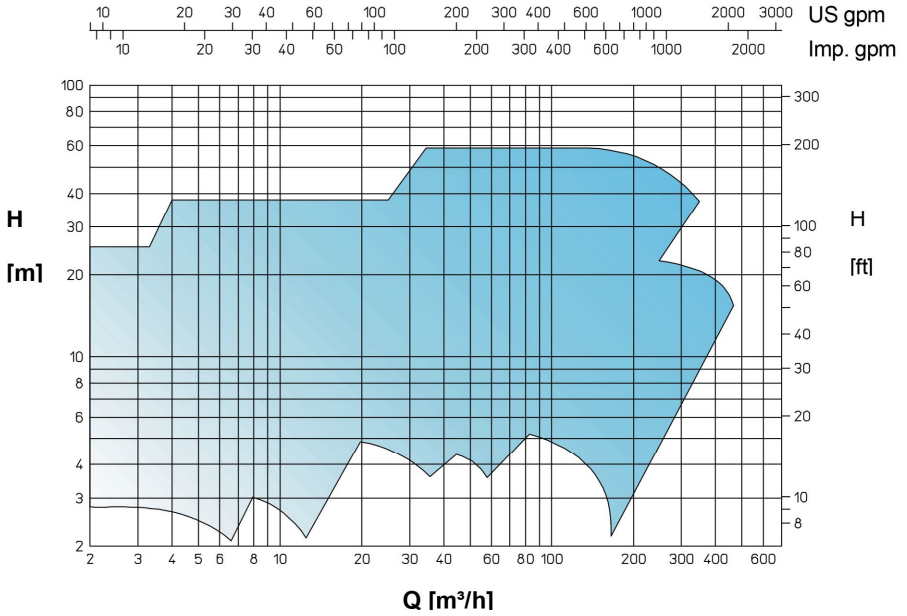
Pumps with standard or explosionproof canned motors



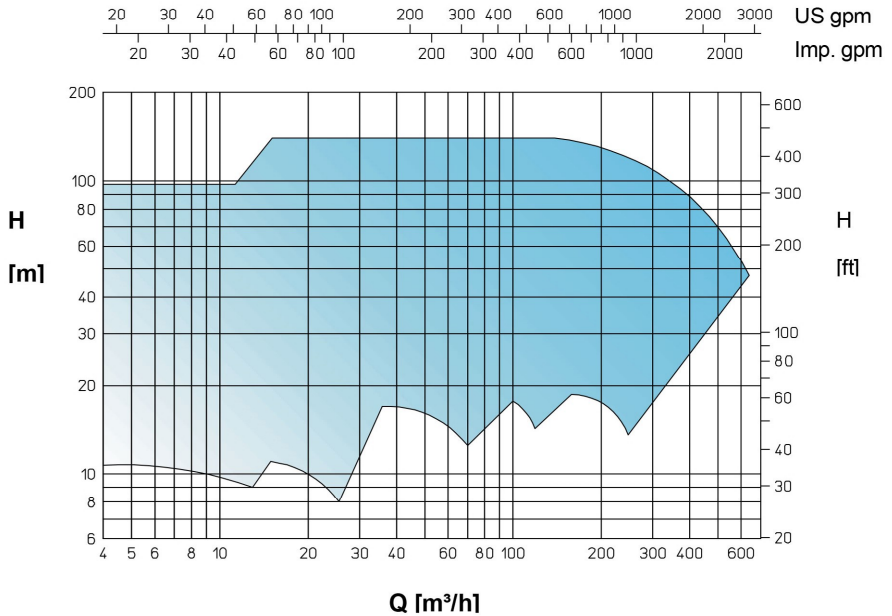
CBS, CBM, CBB, CBE, CBC

Performance chart 50 Hz

n = 1450 rpm



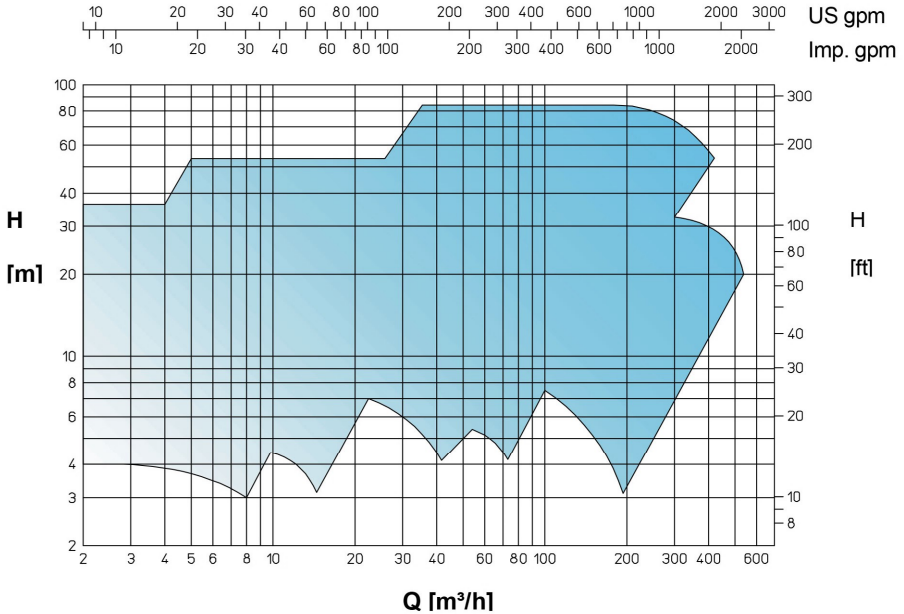
n = 2900 rpm



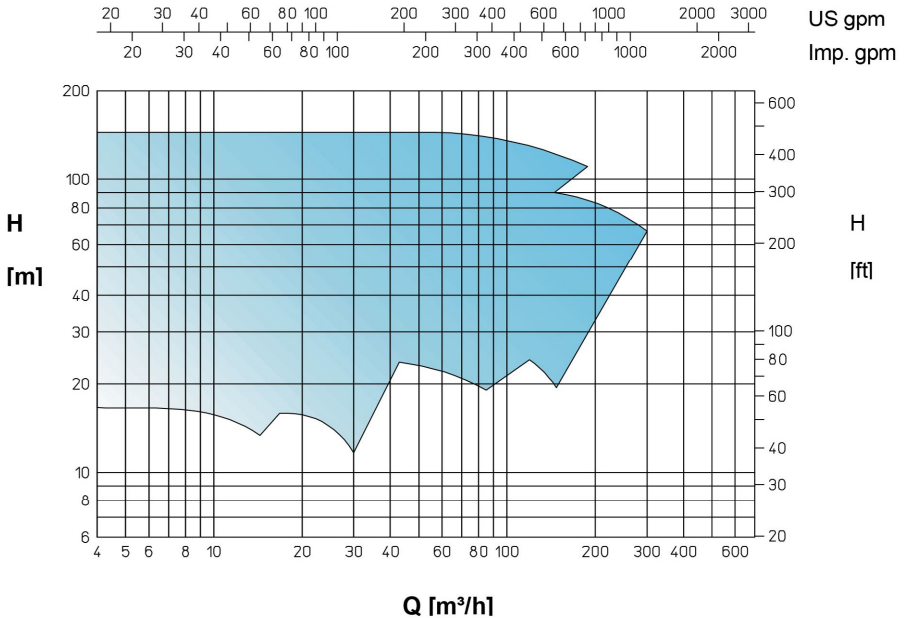
CBS, CBM, CBB, CBE, CBC

Performance chart 60 Hz

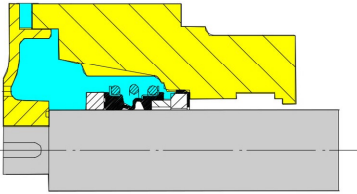
n = 1750 rpm



n = 3500 rpm

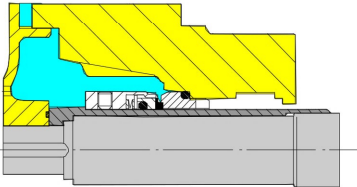


Mechanical seal designs to ISO 3069 / DIN 24960



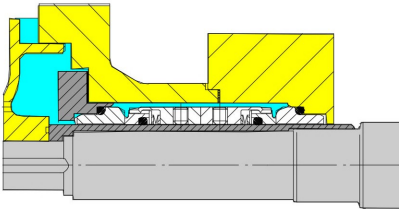
Mechanical seal with elastomeric bellows in conical shaft seal chamber

- shaft seal chamber with vortex breaker
- with or without quench connection, circulation connection
- without shaft sleeve



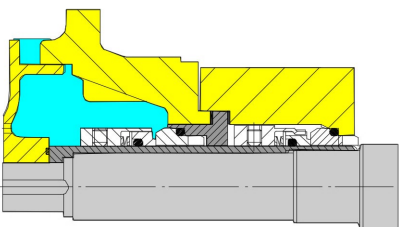
Single-acting mechanical seal in conical shaft seal chamber

- shaft seal chamber with vortex breaker
- with quench connection, circulation connection
- with or without shaft sleeve



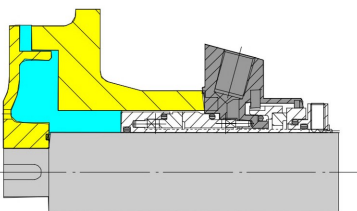
Double acting mechanical seal, back-to-back arrangement, in cylindrical shaft seal chamber

- with barrier liquid connection
- with shaft sleeve



Double-acting mechanical seal, tandem design, in conical shaft seal chamber

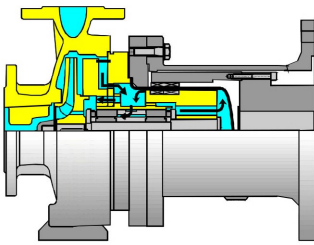
- with buffer liquid connection
- with shaft sleeve



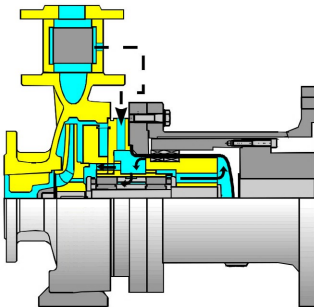
Cartridge type mechanical seal in cylindrical shaft seal chamber

- cartridge mechanical seal, single or double acting
- quench connection and buffer or barrier liquid connection
- with integrated shaft sleeve

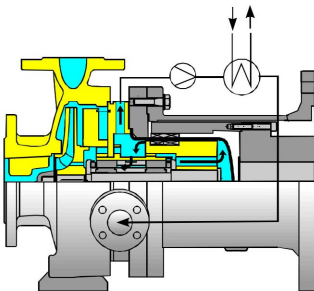
Magnetic coupling designs



Pump with internal strainer
Standard design

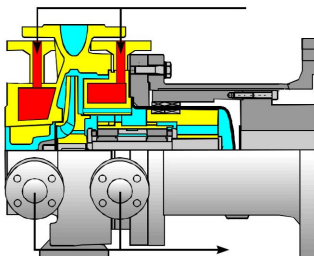


Pump with free flow filter for heavily contaminated liquids handled



Pump with external partial flow for

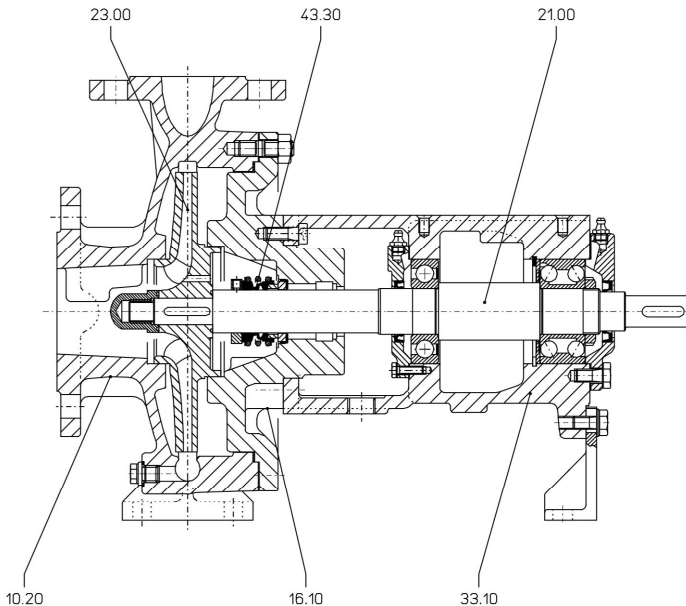
- extremely dirty fluids
- extremely hot liquids
- liquids containing magnetic substances
- liquids that must not be heated



Heatable pumps for handling melts

Back pull-out assemblies with bare shaft end Design with mechanical seal

Type CBS (bearing configuration B or C)



Materials of construction

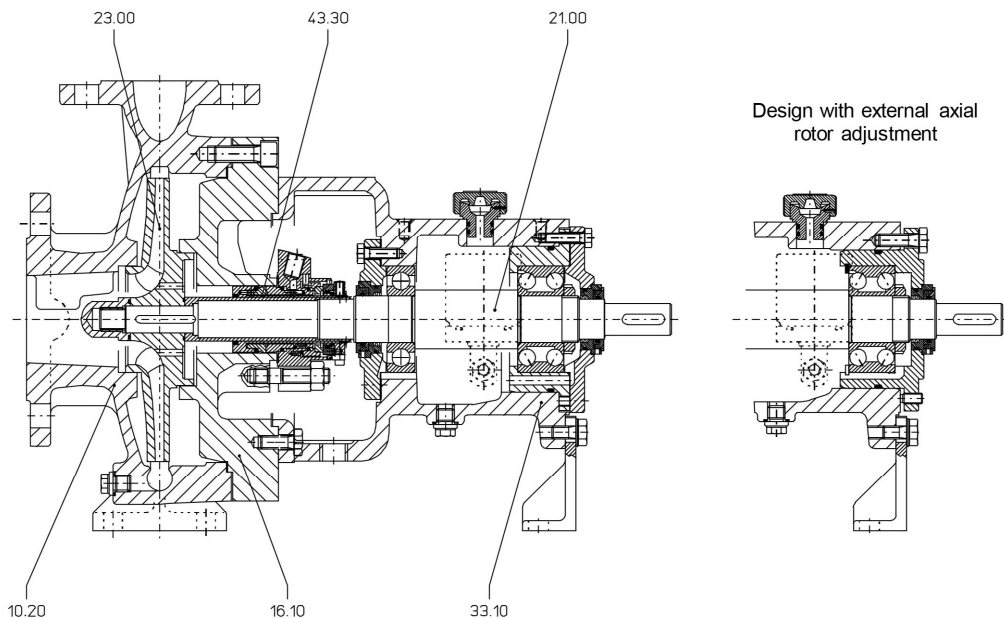
| Item | Designation | Material | | | | | | | | | |
|-------|-----------------|-------------------------------|--------|--------|--------|---------|--------|----------------------|--------|-----------------------|--------|
| | | 1B | 1E | 1R | 1U | 4B | 4R | 5K | 5L | 5G | 5H |
| 10.20 | Volute casing | GGG-40.3 | | | | 1.4408 | | Alloy R48 1.4517* | | Alloy R53 2.4607* | |
| 16.10 | Casing cover | GGG-40.3/GS-C25 | | | | 1.4408 | | Alloy R48 1.4517* | | Alloy R.53 2.4607* | |
| 21.00 | Shaft | CK 45 N | | 1.4571 | | CK 45 N | 1.4571 | CK 45 N | 1.4462 | CK 45 N | 2.4610 |
| 54.30 | Shaft sleeve | 1.4571 | | - | | 1.4571 | - | 1.4462 | - | 2.4610 | - |
| 23.00 | Impeller | GG-25 | 1.4408 | GG-25 | 1.4408 | 1.4408 | | Alloy R48 1.4517* | | Alloy R53 2.4607* | |
| 33.00 | Bearing housing | GG-25 | | | | | | | | | |
| 43.30 | Mechanical seal | various material combinations | | | | | | | | | |

* similar material to DIN 17007

Back pull-out assemblies with bare shaft end

Design with mechanical seal

Type CBS (bearing configuration S or T)



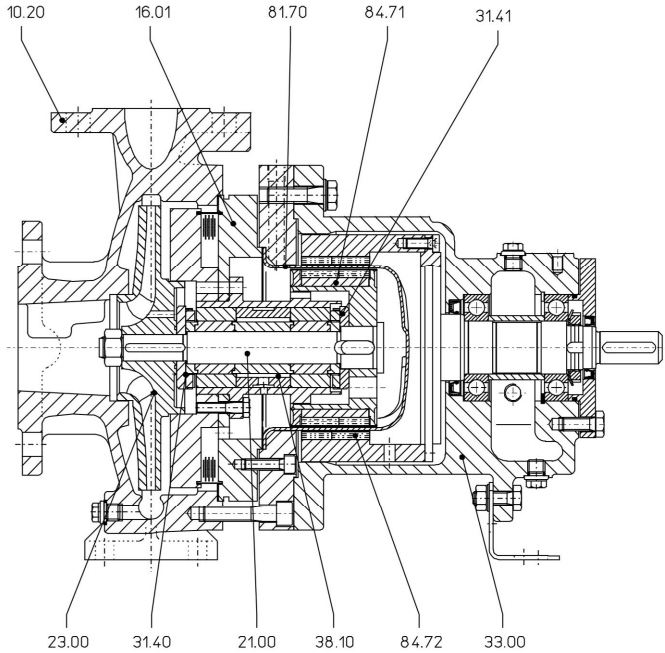
Materials of construction

| Item | Designation | Material | | | | | | | | | |
|-------|-----------------|-------------------------------|--------|--------|--------|---------|--------|----------------------|--------|-----------------------|--------|
| | | 1B | 1E | 1R | 1U | 4B | 4R | 5K | 5L | 5G | 5H |
| 10.20 | Volute casing | GGG-40.3 | | | | 1.4408 | | Alloy R48 1.4517* | | Alloy R53 2.4607* | |
| 16.10 | Casing cover | GGG-40.3/GS-C25 | | | | 1.4408 | | Alloy R48 1.4517* | | Alloy R.53 2.4607* | |
| 21.00 | Shaft | CK 45 N | | 1.4571 | | CK 45 N | 1.4571 | CK 45 N | 1.4462 | CK 45 N | 2.4610 |
| 54.30 | Shaft sleeve | 1.4571 | | - | | 1.4571 | - | 1.4462 | - | 2.4610 | - |
| 23.00 | Impeller | GG-25 | 1.4408 | GG-25 | 1.4408 | 1.4408 | | Alloy R48 1.4517* | | Alloy R53 2.4607* | |
| 33.00 | Bearing housing | GG-25 | | | | | | | | | |
| 43.30 | Mechanical seal | various material combinations | | | | | | | | | |

* similar material to DIN 17007

Back pull-out assemblies with bare shaft end Design with magnetic coupling

Type CBM



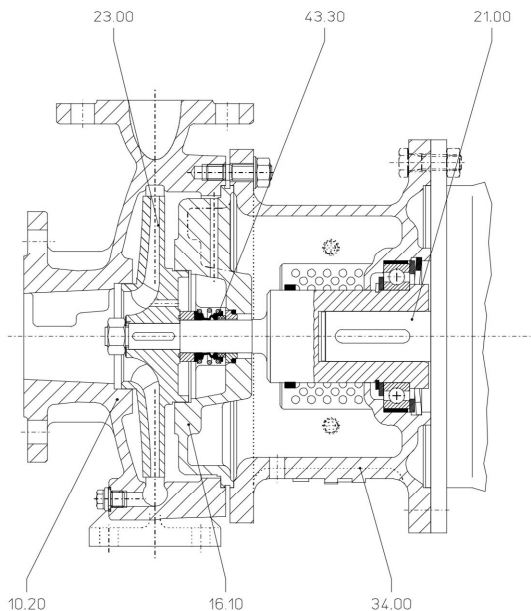
Materials of construction

| Item | Designation | Materials | | | |
|--------------|-------------------------|------------------------|--------|----------------------|----------------------|
| | | 1B | 4B | 5L | 5H |
| 10.20 | Volute casing | GGG-40.3 | 1.4408 | Alloy R48 1.4517* | Alloy R53 2.4607* |
| 16.01 | Casing cover | GGG-40.3 | 1.4408 | Alloy R48 1.4517* | Alloy R53 2.4607* |
| 21.00 | Shaft | 1.4462 | | | 2.4610 |
| 23.00 | Impeller | GG-25 | 1.4408 | Alloy R48 1.4517* | Alloy R53 2.4607* |
| 31.40, 31.41 | Sleeve bearing | 1.4571/SSiC | | | 2.4610/SSiC |
| 33.00 | Bearing housing | GGG-40 | | | |
| 38.10 | Bearing insert | 1.4462/SSiC | | | 2.4610/SSiC |
| 81.70 | Isolation shroud | 2.4610 / ceramic / CFK | | | |
| 84.71 | Inner magnet | 1.4571/SmCo | | | 2.4610/SmCo |
| 84.72 | Outer magnet | 1.0570/SmCo | | | |

* similar material to DIN 17007

Close-coupled back pull-out assemblies Design with mechanical seal

Type CBB

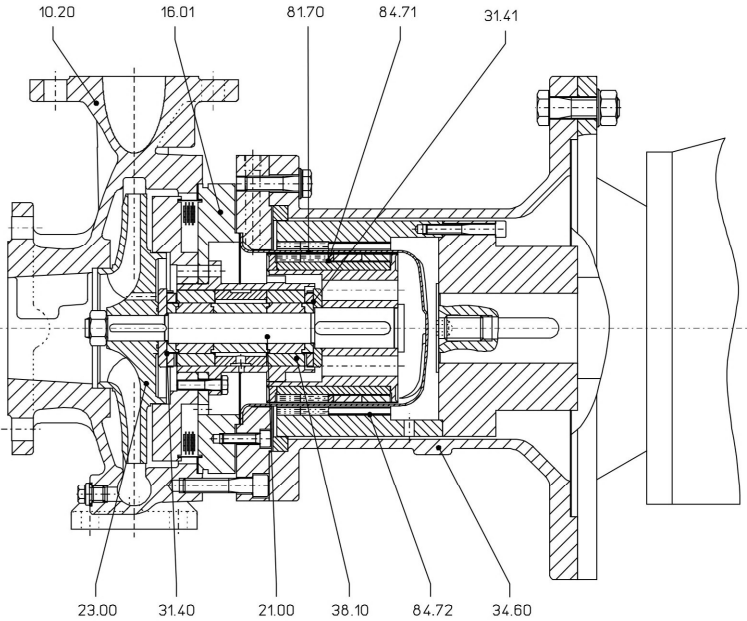


Materials of construction

| Item | Designation | Material | |
|-------|------------------------|-------------------------------|--------|
| | | 1B | 4B |
| 10.20 | Volute casing | GGG-40.3 | 1.4408 |
| 16.01 | Casing cover | GGG-40.3 | 1.4408 |
| 21.00 | Shaft | 1.4021 | 1.4571 |
| 23.00 | Impeller | GG-25 | 1.4408 |
| 34.00 | Lantern | GGG-40 | |
| 43.30 | Mechanical seal | various material combinations | |

Close-coupled back pull-out assemblies Design with magnetic coupling

Type CBE



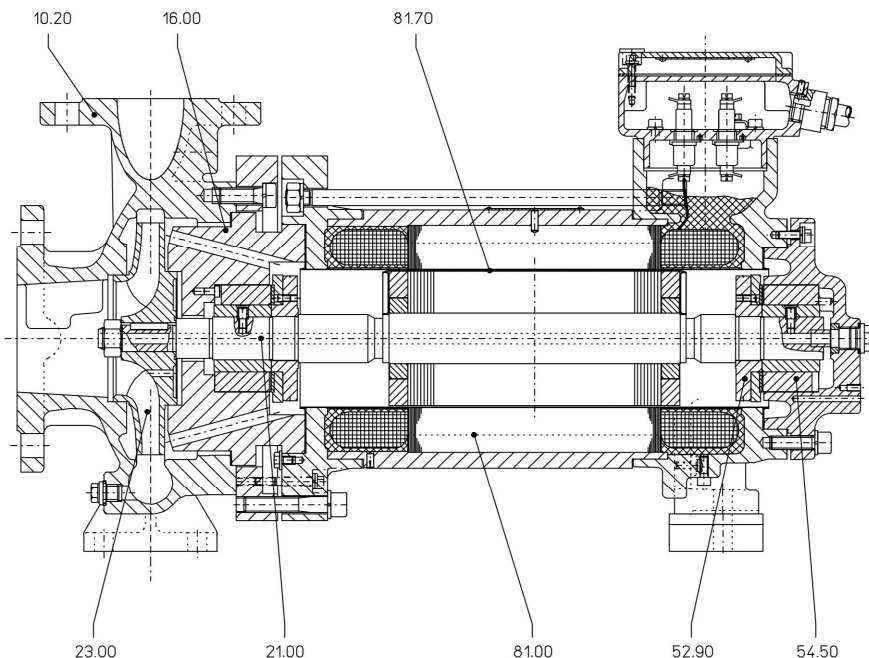
Materials of construction

| Item | Designation | Materials | | | |
|--------------|------------------|------------------------|--------|----------------------|----------------------|
| | | 1B | 4B | 5L | 5H |
| 10.20 | Volute casing | GGG-40.3 | 1.4408 | Alloy R48 1.4517* | Alloy R53 2.4607* |
| 16.01 | Casing cover | GGG-40.3 | 1.4408 | Alloy R48 1.4517* | Alloy R53 2.4607* |
| 21.00 | Shaft | 1.4462 | | | 2.4610 |
| 23.00 | Impeller | GG-25 | 1.4408 | Alloy R48 1.4517* | Alloy R53 2.4607* |
| 31.40, 31.41 | Sleeve bearing | 1.4571/SSiC | | | 2.4610/SSiC |
| 34.60 | Lantern | GGG-40 | | | |
| 38.10 | Bearing insert | 1.4462/SSiC | | | 2.4610/SSiC |
| 81.70 | Isolation shroud | 2.4610 / ceramic / CFK | | | |
| 84.71 | Inner magnet | 1.4571/SmCo | | | 2.4610/SmCo |
| 84.72 | Outer magnet | 1.0570/SmCo | | | |

* similar material to DIN 17007

Close-coupled back pull-out assemblies Design with canned motor

Type CBC



Materials of construction

| Item | Designation | Materials | | | |
|-------|----------------------|-----------|--------|----------------------|----------------------|
| | | 1B | 4B | 5L | 5H |
| 10.20 | Volute casing | GGG-40.3 | 1.4408 | Alloy R48 1.4517* | Alloy R53 2.4607* |
| 16.01 | Casing cover | GGG-40.3 | 1.4408 | Alloy R48 1.4517* | Alloy R53 2.4607* |
| 21.00 | Shaft | 1.4571 | | | 2.4610 |
| 52.90 | Bearing ring carrier | 1.4462 | | | 2.4610 |
| 54.50 | Sleeve bearing | PTFE/SSIC | | | |
| 81.00 | Stator casing | GG-25 | | | |
| 8170 | Can | 2.4610 | | | |

* similar material to DIN 17007

Operating limits

Temperature / Power

| Type | Lubrication | Min. Temperature | Max. Temperature | Max. Power at 2900 rpm |
|------|----------------|------------------|------------------|------------------------|
| CBS | Grease | -40°C | +140°C | 160 kW |
| | Oil | -40°C | +350°C | |
| CBM | Grease | -40°C | +180°C | 65 kW |
| | Oil | -40°C | +300°C | |
| CBB | Grease | -40°C | +140°C | 37 kW |
| CBE | Liquid handled | -40°C | +300°C* | 90 kW |
| CBC | Liquid handled | -40°C | +300°C | 105 kW |

* uncooled up to 400 °C possible with thermal barrier

Speed

| Size | | | | Max. Speed rpm |
|--------|--------|---------------------|---------------------|----------------|
| 32125 | 32160 | 32200 | 32250 ¹⁾ | 3600 |
| 40125 | 40160 | 40200 | 40250 ¹⁾ | |
| | 50160 | 50200 | 50250 ¹⁾ | |
| | 65160 | 65200 | 65250 ¹⁾ | |
| | 80160 | 80200 | | 3000 |
| | | 40315 ²⁾ | | |
| | | 50315 ²⁾ | | |
| | | 65315 ²⁾ | | |
| 100200 | 80250 | 80315 ²⁾ | | 1800 |
| | 100250 | 100315 | | |
| | | 80400 | | |
| | | 100400 | | |
| 125250 | 125315 | 125400 | | 1800 |
| 150250 | | | | |

- 1) Impeller material 1.4408
Impeller material GG-25: $n_{max} = 3000$ rpm
- 2) Impeller material 1.4408
Impeller material GG-25: $n_{max} = 1800$ rpm

Casing pressure

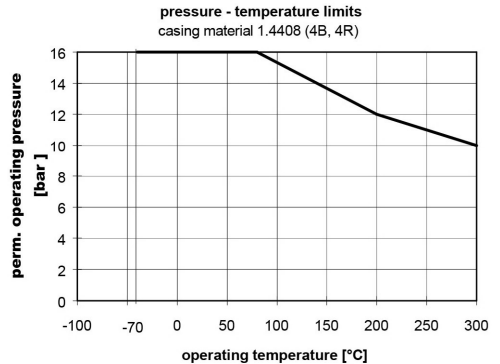
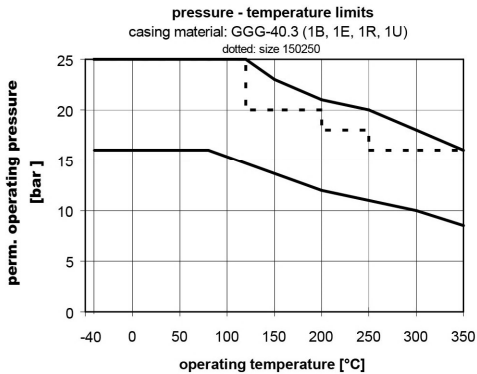
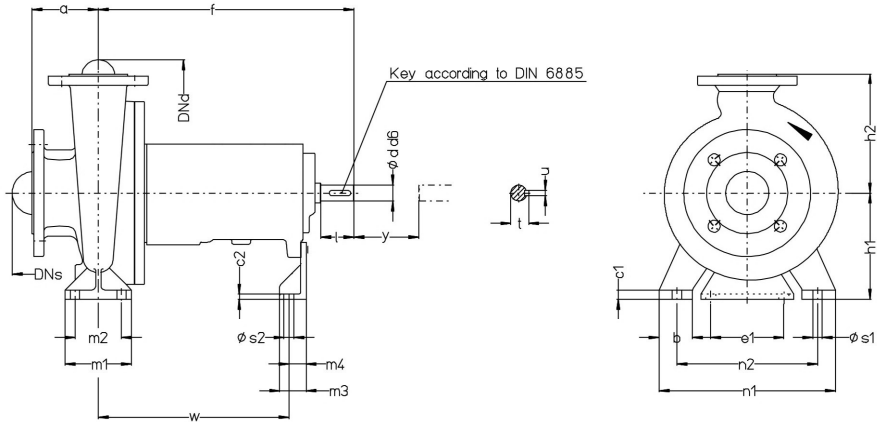


Table of dimensions - Pumps with bare shaft end to ISO 2858 / EN 22858 Types CBS, CBM

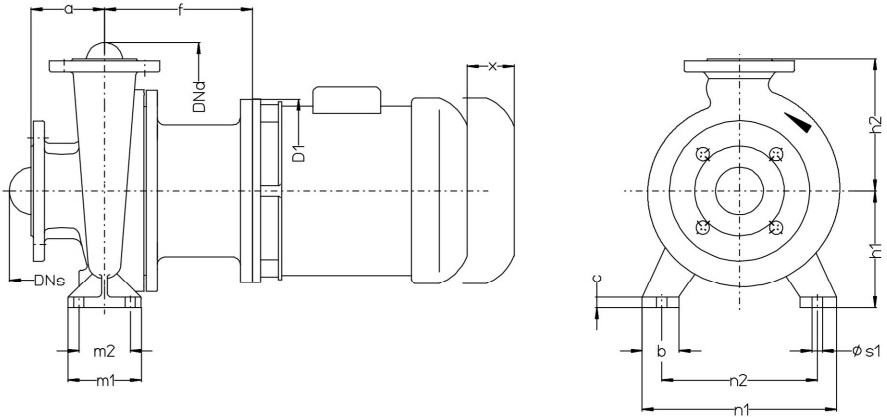


y: distance between pump shaft and motor shaft

| Size | Pump dimension | | | | Foot dimension | | | | | | | | | | | | Shaft end dimension for removal | | | | Pump weight kg | | | | | | |
|--------|-----------------|-----------------|-----|-----|----------------|-----|-----|----|----|-----|-----|----|----|-----|-----|----|---------------------------------|-----|-----|-----|----------------|-----|----|----|-----|-----|-----|
| | DN _d | DN _s | a | f | h1 | h2 | b | c1 | c2 | m1 | m2 | m3 | m4 | n1 | n2 | s1 | s2 | e1 | e2 | w | d | l | t | u | y | CBS | CBM |
| 32125 | | | 80 | 385 | 112 | 140 | 50 | 14 | 8 | 100 | 70 | 40 | 28 | 190 | 140 | 14 | 15 | 110 | 140 | 285 | 24 | 50 | 27 | 8 | 140 | 38 | - |
| 32160 | 32 | 50 | 80 | 385 | 160 | 160 | 50 | 14 | 8 | 100 | 70 | 40 | 28 | 240 | 190 | 14 | 15 | 110 | 140 | 285 | 24 | 50 | 27 | 8 | 140 | 44 | 57 |
| 32200 | | | 80 | 385 | 160 | 180 | 50 | 14 | 8 | 100 | 70 | 40 | 28 | 240 | 190 | 14 | 15 | 110 | 140 | 285 | 24 | 50 | 27 | 8 | 140 | 53 | 76 |
| 32250 | | | 100 | 500 | 180 | 225 | 65 | 14 | 8 | 125 | 95 | 40 | 28 | 320 | 250 | 14 | 15 | 110 | 140 | 370 | 32 | 80 | 35 | 10 | 140 | 91 | 127 |
| 40125 | | | 80 | 385 | 112 | 140 | 50 | 14 | 8 | 100 | 70 | 40 | 28 | 210 | 160 | 14 | 15 | 110 | 140 | 285 | 24 | 50 | 27 | 8 | 140 | 38 | - |
| 40160 | | | 80 | 385 | 132 | 160 | 50 | 14 | 8 | 100 | 70 | 40 | 28 | 240 | 190 | 14 | 15 | 110 | 140 | 285 | 24 | 50 | 27 | 8 | 140 | 45 | 59 |
| 40200 | 40 | 65 | 100 | 385 | 160 | 180 | 50 | 14 | 8 | 100 | 70 | 40 | 28 | 265 | 212 | 14 | 15 | 110 | 140 | 285 | 24 | 50 | 27 | 8 | 140 | 55 | 79 |
| 40250 | | | 100 | 500 | 180 | 225 | 65 | 14 | 8 | 125 | 95 | 40 | 28 | 320 | 250 | 14 | 15 | 110 | 140 | 370 | 32 | 80 | 35 | 10 | 140 | 93 | 138 |
| 40315 | | | 125 | 500 | 200 | 250 | 65 | 14 | 88 | 125 | 95 | 40 | 28 | 345 | 280 | 14 | 15 | 110 | 140 | 370 | 32 | 80 | 35 | 10 | 140 | 117 | 260 |
| 50160 | | | 100 | 385 | 160 | 180 | 50 | 14 | 8 | 100 | 70 | 40 | 28 | 265 | 212 | 14 | 15 | 110 | 140 | 285 | 24 | 50 | 27 | 8 | 140 | 54 | 69 |
| 50200 | 50 | 80 | 100 | 385 | 160 | 200 | 50 | 14 | 8 | 100 | 70 | 40 | 28 | 265 | 212 | 14 | 15 | 110 | 140 | 285 | 24 | 50 | 27 | 8 | 140 | 58 | 84 |
| 50250 | | | 125 | 500 | 180 | 225 | 65 | 14 | 8 | 125 | 95 | 40 | 28 | 320 | 250 | 14 | 15 | 110 | 140 | 370 | 32 | 80 | 35 | 10 | 140 | 96 | 167 |
| 50315 | | | 125 | 500 | 225 | 280 | 65 | 14 | 8 | 125 | 95 | 40 | 28 | 345 | 280 | 14 | 15 | 110 | 140 | 370 | 32 | 80 | 35 | 10 | 140 | 122 | 280 |
| 65160 | | | 100 | 500 | 160 | 200 | 65 | 14 | 8 | 125 | 95 | 40 | 28 | 280 | 212 | 14 | 15 | 110 | 140 | 370 | 32 | 80 | 35 | 10 | 140 | 72 | 75 |
| 65200 | 65 | 100 | 100 | 500 | 180 | 225 | 65 | 14 | 8 | 125 | 95 | 40 | 28 | 320 | 250 | 14 | 15 | 110 | 140 | 370 | 32 | 80 | 35 | 10 | 140 | 83 | 147 |
| 65250 | | | 125 | 500 | 200 | 250 | 80 | 16 | 8 | 160 | 120 | 40 | 28 | 360 | 280 | 18 | 15 | 110 | 140 | 370 | 32 | 80 | 35 | 10 | 140 | 106 | 256 |
| 65315 | | | 125 | 530 | 225 | 280 | 80 | 16 | 88 | 160 | 120 | 40 | 28 | 400 | 315 | 18 | 15 | 110 | 140 | 370 | 42 | 110 | 45 | 12 | 140 | 136 | - |
| 80160 | | | 125 | 500 | 180 | 225 | 65 | 14 | 8 | 125 | 95 | 40 | 28 | 320 | 250 | 14 | 15 | 110 | 140 | 370 | 32 | 80 | 35 | 10 | 140 | 82 | 107 |
| 80200 | | | 125 | 500 | 180 | 250 | 65 | 14 | 8 | 125 | 95 | 40 | 28 | 345 | 280 | 14 | 15 | 110 | 140 | 370 | 32 | 80 | 35 | 10 | 140 | 92 | 195 |
| 80250 | 80 | 125 | 125 | 500 | 225 | 280 | 80 | 16 | 8 | 160 | 120 | 40 | 28 | 400 | 315 | 18 | 15 | 110 | 140 | 370 | 32 | 80 | 35 | 10 | 140 | 113 | 261 |
| 80315 | | | 125 | 530 | 250 | 315 | 80 | 16 | 8 | 160 | 120 | 40 | 28 | 400 | 315 | 18 | 15 | 110 | 140 | 370 | 42 | 110 | 45 | 12 | 140 | 147 | - |
| 80400 | | | 125 | 530 | 280 | 355 | 80 | 16 | 8 | 160 | 120 | 40 | 28 | 435 | 355 | 18 | 15 | 110 | 140 | 370 | 42 | 110 | 45 | 12 | 140 | 204 | - |
| 100200 | | | 125 | 500 | 200 | 280 | 80 | 16 | 8 | 160 | 120 | 40 | 28 | 360 | 280 | 18 | 15 | 110 | 140 | 370 | 32 | 80 | 35 | 10 | 140 | 106 | 207 |
| 100250 | 100 | 125 | 140 | 530 | 225 | 280 | 80 | 16 | 8 | 160 | 120 | 40 | 28 | 400 | 315 | 18 | 15 | 110 | 140 | 370 | 42 | 110 | 45 | 12 | 140 | 135 | - |
| 100315 | | | 140 | 530 | 250 | 315 | 80 | 16 | 8 | 160 | 120 | 40 | 28 | 400 | 315 | 18 | 15 | 110 | 140 | 370 | 42 | 110 | 45 | 12 | 140 | 157 | - |
| 100400 | | | 140 | 530 | 280 | 355 | 100 | 18 | 8 | 200 | 150 | 40 | 28 | 500 | 400 | 23 | 15 | 110 | 140 | 370 | 42 | 110 | 45 | 12 | 140 | 199 | - |
| 125250 | 125 | 150 | 140 | 530 | 250 | 355 | 80 | 16 | 8 | 160 | 120 | 40 | 28 | 400 | 315 | 18 | 15 | 110 | 140 | 370 | 42 | 110 | 45 | 12 | 140 | 142 | - |
| 125315 | | | 140 | 530 | 280 | 355 | 100 | 18 | 8 | 200 | 150 | 40 | 28 | 500 | 400 | 23 | 15 | 110 | 140 | 370 | 42 | 110 | 45 | 12 | 140 | 176 | - |
| 125400 | | | 140 | 530 | 315 | 400 | 100 | 18 | 8 | 200 | 150 | 40 | 28 | 500 | 400 | 23 | 15 | 110 | 140 | 370 | 42 | 110 | 45 | 12 | 140 | 209 | - |
| 150250 | 150 | 200 | 160 | 530 | 280 | 375 | 100 | 20 | 8 | 200 | 150 | 40 | 28 | 500 | 400 | 23 | 15 | 110 | 140 | 370 | 42 | 110 | 45 | 12 | 140 | 202 | - |

All dimensions in mm, tolerances to EN 735

Table of dimensions - Close-coupled pumps with mechanical seal Type CBB



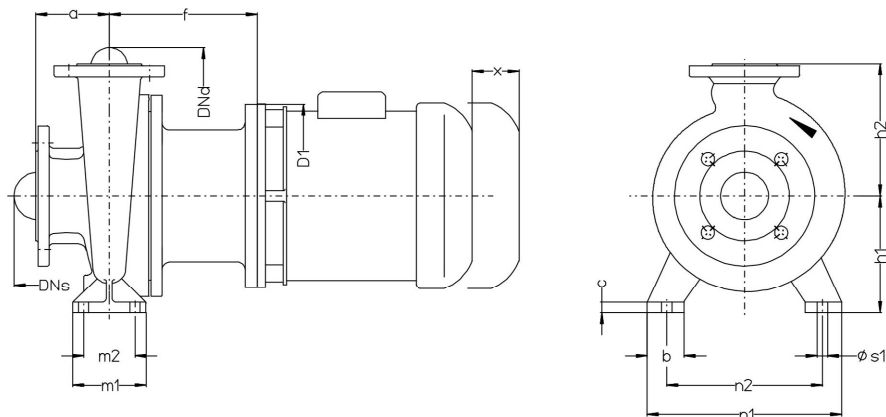
x: dimension for removal

| Size | Motor size | Pump dimensions | | | | | | | | | | | | | | | | Pump weight kg |
|-------|----------------|-----------------|-----------------|-----|----|----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----|-------------------|
| | | DN _a | DN _c | a | b | c | f | h1 | h2 | m1 | m2 | n1 | n2 | s1 | x | D1 | | |
| 32125 | 80b,90S,90L | | | 80 | 50 | 14 | 167 | 112 | 140 | 100 | 70 | 190 | 140 | 14 | 90 | 200 | 30 | |
| 32160 | 80a,90S,90L | | | 80 | 50 | 14 | 167 | 132 | 160 | 100 | 70 | 240 | 190 | 14 | 90 | 200 | 34 | |
| | 100L,112M | | | 80 | 50 | 14 | 162 | 132 | 160 | 100 | 70 | 240 | 190 | 14 | 90 | 250 | 34 | |
| 32200 | 80b,90S | | | 80 | 50 | 14 | 167 | 160 | 180 | 100 | 70 | 240 | 190 | 14 | 90 | 200 | 41 | |
| | 112M | 32 | 50 | 80 | 50 | 14 | 167 | 160 | 180 | 100 | 70 | 240 | 190 | 14 | 90 | 250 | 41 | |
| | 132S | | | 80 | 50 | 14 | 210 | 160 | 180 | 100 | 70 | 240 | 190 | 14 | 90 | 300 | 41 | |
| 32250 | 90S,90L | | | 100 | 65 | 14 | 177 | 180 | 225 | 125 | 70 | 320 | 250 | 14 | 90 | 200 | 52 | |
| | 100L | | | 100 | 65 | 14 | 177 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 250 | 52 | |
| | 132S | | | 100 | 65 | 14 | 210 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 300 | 52 | |
| | 160M | | | 100 | 65 | 14 | 210 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 350 | 52 | |
| 40125 | 90S,90L | | | 80 | 50 | 14 | 162 | 112 | 140 | 100 | 70 | 210 | 160 | 14 | 90 | 200 | 33 | |
| | 100L,112M | | | 80 | 50 | 14 | 162 | 112 | 140 | 100 | 70 | 210 | 160 | 14 | 90 | 250 | 33 | |
| 40160 | 80a,80b | | | 80 | 50 | 14 | 167 | 132 | 160 | 100 | 70 | 240 | 190 | 14 | 90 | 200 | 36 | |
| | 90L | | | 80 | 50 | 14 | 162 | 132 | 160 | 100 | 70 | 240 | 190 | 14 | 90 | 200 | 36 | |
| | 100L,112M | | | 80 | 50 | 14 | 162 | 132 | 160 | 100 | 70 | 240 | 190 | 14 | 90 | 250 | 36 | |
| | 132S | | | 80 | 50 | 14 | 210 | 132 | 160 | 100 | 70 | 240 | 190 | 14 | 90 | 300 | 36 | |
| 40200 | 80b,90S,90L | 40 | 65 | 100 | 50 | 14 | 167 | 160 | 180 | 100 | 70 | 265 | 212 | 14 | 90 | 200 | 42 | |
| | 112M | | | 100 | 50 | 14 | 210 | 160 | 180 | 100 | 70 | 265 | 212 | 14 | 90 | 250 | 42 | |
| | 132S | | | 100 | 50 | 14 | 210 | 160 | 180 | 100 | 70 | 265 | 212 | 14 | 90 | 300 | 42 | |
| | 160M | | | 100 | 50 | 14 | 210 | 160 | 180 | 100 | 70 | 265 | 212 | 14 | 90 | 350 | 42 | |
| 40250 | 90S,90L | | | 100 | 65 | 14 | 177 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 100 | 200 | 52 | |
| | 100L | | | 100 | 65 | 14 | 177 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 100 | 250 | 52 | |
| | 160M,160L,180M | | | 100 | 65 | 14 | 210 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 100 | 350 | 52 | |
| 50160 | 80b,90S,90L | | | 100 | 50 | 14 | 167 | 160 | 180 | 100 | 70 | 265 | 212 | 14 | 90 | 200 | 39 | |
| | 112M | | | 100 | 50 | 14 | 162 | 160 | 180 | 100 | 70 | 265 | 212 | 14 | 90 | 250 | 39 | |
| | 132S | | | 100 | 50 | 14 | 210 | 160 | 180 | 100 | 70 | 265 | 212 | 14 | 90 | 300 | 39 | |
| | 160M | | | 100 | 50 | 14 | 210 | 160 | 180 | 100 | 70 | 265 | 212 | 14 | 90 | 350 | 39 | |
| 50200 | 90S,90L | | | 100 | 50 | 14 | 167 | 160 | 200 | 100 | 70 | 265 | 212 | 14 | 90 | 200 | 44 | |
| | 100L | 50 | 80 | 100 | 50 | 14 | 167 | 160 | 200 | 100 | 70 | 265 | 212 | 14 | 90 | 250 | 44 | |
| | 132S | | | 100 | 50 | 14 | 210 | 160 | 200 | 100 | 70 | 265 | 212 | 14 | 90 | 300 | 44 | |
| | 160M,160L | | | 100 | 50 | 14 | 210 | 160 | 200 | 100 | 70 | 265 | 212 | 14 | 90 | 350 | 44 | |
| 50250 | 100L,112M | | | 125 | 65 | 14 | 177 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 100 | 250 | 54 | |
| | 160L,180M | | | 125 | 65 | 14 | 210 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 100 | 350 | 54 | |
| | 200L | | | 125 | 65 | 14 | 210 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 100 | 400 | 54 | |

All dimensions in mm, tolerances to EN 735

Table of dimensions - Close-coupled pumps with mechanical seal (cont'd)

Type CBB

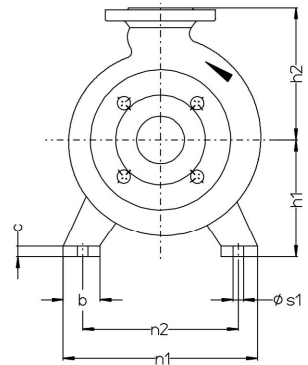
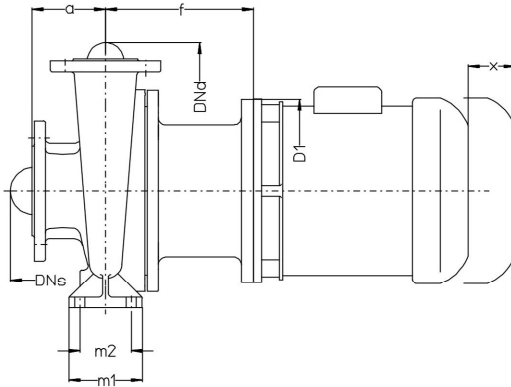


x: dimension for removal

| Size | Motor size | Pump dimensions | | | | | | | | | | | | | | | Pump weight kg |
|--------|----------------|-----------------|-----------------|-----|----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-------------------|
| | | DN _s | DN _s | a | b | c | f | h1 | h2 | m1 | m2 | n1 | n2 | s1 | x | D1 | |
| 65160 | 80b,90S,90L | | | 100 | 65 | 14 | 167 | 160 | 200 | 125 | 95 | 280 | 212 | 14 | 90 | 200 | 47 |
| | 100L | | | 100 | 65 | 14 | 162 | 160 | 200 | 125 | 95 | 280 | 212 | 14 | 90 | 250 | 47 |
| | 132S | | | 100 | 65 | 14 | 210 | 160 | 200 | 125 | 95 | 280 | 212 | 14 | 90 | 300 | 47 |
| | 160M | | | 100 | 65 | 14 | 210 | 160 | 200 | 125 | 95 | 280 | 212 | 14 | 90 | 350 | 47 |
| 65200 | 90L | | | 100 | 65 | 14 | 167 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 200 | 49 |
| | 100L,112M | 65 | 100 | 100 | 65 | 14 | 167 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 250 | 49 |
| | 160M,160L,180M | | | 100 | 65 | 14 | 210 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 350 | 49 |
| | 200L | | | 100 | 65 | 14 | 210 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 400 | 49 |
| 65250 | 100L,112M | | | 125 | 80 | 16 | 187 | 200 | 250 | 160 | 120 | 360 | 280 | 16 | 130 | 250 | 70 |
| | 132S,132N | | | 125 | 80 | 16 | 220 | 200 | 250 | 160 | 120 | 360 | 280 | 16 | 130 | 300 | 70 |
| | 160L,180M | | | 125 | 80 | 16 | 220 | 200 | 250 | 160 | 120 | 360 | 280 | 16 | 130 | 350 | 70 |
| | 200L | | | 125 | 80 | 16 | 220 | 200 | 250 | 160 | 120 | 360 | 280 | 16 | 130 | 400 | 70 |
| 80160 | 90S,90L | | | 125 | 65 | 14 | 167 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 200 | 55 |
| | 100L | | | 125 | 65 | 14 | 162 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 250 | 55 |
| | 132S | | | 125 | 65 | 14 | 210 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 300 | 55 |
| | 160M,160L,180M | | | 125 | 65 | 14 | 210 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 350 | 55 |
| 80200 | 100L,112M | 80 | 125 | 125 | 65 | 14 | 183 | 180 | 250 | 125 | 95 | 345 | 280 | 14 | 120 | 250 | 66 |
| | 132S | | | 125 | 65 | 14 | 226 | 180 | 250 | 125 | 95 | 345 | 280 | 14 | 120 | 300 | 66 |
| | 160L,180M | | | 125 | 65 | 14 | 226 | 180 | 250 | 125 | 95 | 345 | 280 | 14 | 120 | 350 | 66 |
| | 200L | | | 125 | 65 | 14 | 226 | 180 | 250 | 125 | 95 | 345 | 280 | 14 | 120 | 400 | 66 |
| 80250 | 100L,112M | | | 125 | 80 | 16 | 187 | 225 | 280 | 160 | 120 | 400 | 315 | 18 | 130 | 250 | 76 |
| | 132S,132N | | | 125 | 80 | 16 | 220 | 225 | 280 | 160 | 120 | 400 | 315 | 18 | 130 | 300 | 76 |
| 100200 | 100L,112M | 100 | 125 | 125 | 80 | 16 | 183 | 200 | 280 | 160 | 120 | 360 | 280 | 18 | 115 | 250 | 89 |

All dimensions in mm, tolerances to EN 735

Table of dimensions - Close-coupled magnetic drive pumps Type CBE

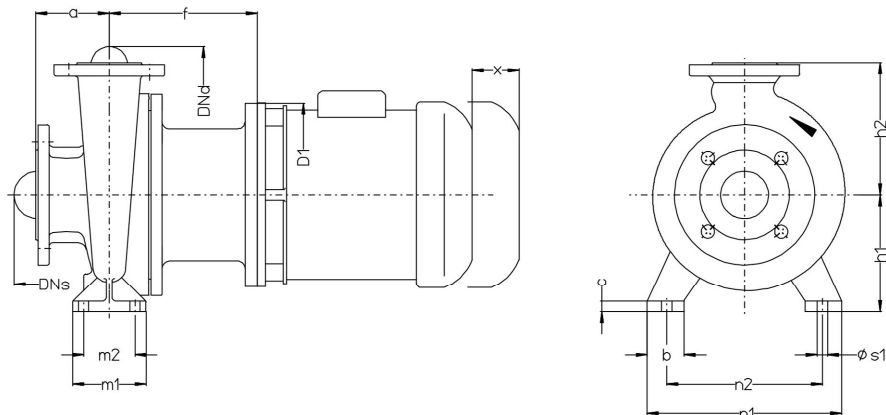


x: dimension for removal

| Size | Motor size | Pump dimensions | | | | | | | | | | | | | | | Pump weight kg |
|-------|------------------|-----------------|-----------------|-----|----|----|-------|-----|-----|-----|----|-----|-----|----|-----|-----|-------------------|
| | | DN _d | DN _s | a | b | c | f | h1 | h2 | m1 | m2 | n1 | n2 | s | x | D1 | |
| 32160 | 100L, 112M | | | 80 | 50 | 14 | 302 | 132 | 160 | 100 | 70 | 240 | 190 | 14 | 90 | 250 | 57 |
| | 132S | | | 80 | 50 | 14 | 322 | 132 | 160 | 100 | 70 | 240 | 190 | 14 | 90 | 300 | 57 |
| | 160M | | | 80 | 50 | 14 | 352 | 132 | 160 | 100 | 70 | 240 | 190 | 14 | 90 | 350 | 57 |
| 32200 | 132S | 32 | 50 | 80 | 50 | 14 | 322 | 160 | 180 | 100 | 70 | 240 | 190 | 14 | 90 | 300 | 76 |
| | 160M, 160L | | | 80 | 50 | 14 | 352 | 160 | 180 | 100 | 70 | 240 | 190 | 14 | 90 | 350 | 76 |
| 32250 | 160M, 160L, 180M | | | 100 | 65 | 14 | 351,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 350 | 127 |
| | 200L | | | 100 | 65 | 14 | 351,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 400 | 127 |
| | | | | 100 | 65 | 14 | 351,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 400 | 127 |
| 40160 | 112M | | | 80 | 50 | 14 | 302 | 132 | 160 | 100 | 70 | 240 | 190 | 14 | 90 | 250 | 59 |
| | 132S | | | 80 | 50 | 14 | 322 | 132 | 160 | 100 | 70 | 240 | 190 | 14 | 90 | 300 | 59 |
| | 160M | | | 80 | 50 | 14 | 352 | 132 | 160 | 100 | 70 | 240 | 190 | 14 | 90 | 350 | 59 |
| 40200 | 132S | | | 80 | 50 | 14 | 322 | 160 | 180 | 100 | 70 | 265 | 212 | 14 | 90 | 300 | 79 |
| | 160M, 160L, 180M | | | 100 | 50 | 14 | 352 | 160 | 180 | 100 | 70 | 265 | 212 | 14 | 90 | 350 | 79 |
| 40250 | 160M, 160L, 180M | | | 100 | 65 | 14 | 351,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 100 | 350 | 138 |
| | 200L | | | 100 | 65 | 14 | 351,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 100 | 400 | 138 |
| | 225M | | | 100 | 65 | 14 | 351,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 100 | 450 | 138 |
| 40315 | 250M | 40 | 65 | 100 | 65 | 14 | 381,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 100 | 550 | 138 |
| | 180M | | | 125 | 65 | 14 | 431,5 | 200 | 250 | 125 | 95 | 345 | 280 | 14 | 130 | 350 | 260 |
| | 200L | | | 125 | 65 | 14 | 431,5 | 200 | 250 | 125 | 95 | 345 | 280 | 14 | 130 | 400 | 260 |
| | 225M | | | 125 | 65 | 14 | 461,5 | 200 | 250 | 125 | 95 | 345 | 280 | 14 | 130 | 450 | 260 |
| | 250M, 280S, 280M | | | 125 | 65 | 14 | 461,5 | 200 | 250 | 125 | 95 | 345 | 280 | 14 | 130 | 550 | 260 |
| 50160 | 132S | | | 100 | 50 | 14 | 322 | 160 | 180 | 100 | 70 | 265 | 212 | 14 | 90 | 300 | 69 |
| | 160M, 160L, 180M | | | 100 | 50 | 14 | 352 | 160 | 180 | 100 | 70 | 265 | 212 | 14 | 90 | 350 | 69 |
| | 200L | | | 100 | 50 | 14 | 352 | 160 | 180 | 100 | 70 | 265 | 212 | 14 | 90 | 400 | 69 |
| 50200 | 160M, 160L, 180M | | | 100 | 50 | 14 | 352 | 160 | 200 | 100 | 70 | 265 | 212 | 14 | 90 | 350 | 84 |
| | 200L | | | 100 | 50 | 14 | 352 | 160 | 200 | 100 | 70 | 265 | 212 | 14 | 90 | 400 | 84 |
| 50250 | 180M | | | 125 | 65 | 14 | 351,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 100 | 350 | 167 |
| | 200L | | | 125 | 65 | 14 | 351,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 100 | 400 | 167 |
| | 225M | 50 | 80 | 125 | 65 | 14 | 351,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 100 | 450 | 167 |
| 50315 | 250M, 280S | | | 125 | 65 | 14 | 381,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 100 | 550 | 167 |
| | 200L | | | 125 | 65 | 14 | 431,5 | 225 | 280 | 125 | 95 | 345 | 280 | 14 | 130 | 400 | 280 |
| | 225M | | | 125 | 65 | 14 | 431,5 | 225 | 280 | 125 | 95 | 345 | 280 | 14 | 130 | 450 | 280 |
| | 250M, 280S, 280M | | | 125 | 65 | 14 | 461,5 | 225 | 280 | 125 | 95 | 345 | 280 | 14 | 130 | 550 | 280 |
| | 315S | | | 125 | 65 | 14 | 461,5 | 225 | 280 | 125 | 95 | 345 | 280 | 14 | 130 | 660 | 280 |

All dimensions in mm, tolerances to EN 735

Table of dimensions - Close-coupled magnetic drive pumps (cont'd)
Type CBE

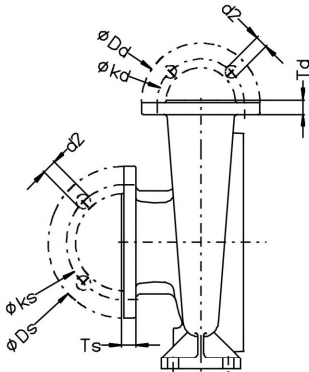


x: dimension for removal

| Size | Motor size | Pump dimensions | | | | | | | | | | | | | | | Pump weight kg |
|------------|------------------|-----------------|-----------------|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|
| | | DN _a | DN _s | a | b | c | f | h1 | h2 | m1 | m2 | n1 | n2 | s | x | D1 | |
| 65160 | 132S | | | 100 | 65 | 14 | 321,5 | 160 | 200 | 125 | 95 | 280 | 212 | 14 | 90 | 300 | 75 |
| | 160M, 160L, 180M | | | 100 | 65 | 14 | 351,5 | 160 | 200 | 125 | 95 | 280 | 212 | 14 | 90 | 350 | 75 |
| | 200L | | | 100 | 65 | 14 | 351,5 | 160 | 200 | 125 | 95 | 280 | 212 | 14 | 90 | 400 | 75 |
| 65200 | 160L, 180M | | | 100 | 65 | 14 | 351,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 350 | 147 |
| | 200L | | | 100 | 65 | 14 | 351,5 | 180 | 225 | 125 | 95 | 32 | 250 | 14 | 90 | 400 | 147 |
| | 225M | 65 | 100 | 100 | 65 | 14 | 351,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 450 | 147 |
| 65250 | 250M, 280S | | | 100 | 65 | 14 | 381,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 550 | 147 |
| | 200L | | | 125 | 80 | 16 | 431,5 | 200 | 250 | 160 | 120 | 360 | 280 | 18 | 130 | 400 | 256 |
| | 225M | | | 125 | 8 | 16 | 431,5 | 200 | 250 | 160 | 120 | 360 | 280 | 18 | 130 | 450 | 256 |
| | 250M, 280S, 280M | | | 125 | 80 | 16 | 461,5 | 200 | 250 | 160 | 120 | 360 | 280 | 18 | 130 | 550 | 256 |
| | 315S | | | 125 | 80 | 16 | 461,5 | 200 | 250 | 160 | 120 | 360 | 280 | 18 | 130 | 660 | 256 |
| 80160 | 160M, 160L, 180M | | | 125 | 65 | 14 | 351,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 350 | 107 |
| | 200L | | | 125 | 65 | 14 | 351,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 400 | 107 |
| | 225M | | | 125 | 65 | 14 | 351,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 450 | 107 |
| | 250M | | | 125 | 65 | 14 | 381,5 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 90 | 550 | 107 |
| | 80200 | 160L, 180M | | | 125 | 65 | 14 | 432,5 | 180 | 250 | 125 | 95 | 345 | 280 | 14 | 120 | 350 |
| 80250 | 200L | 80 | 125 | 125 | 65 | 14 | 432,5 | 180 | 250 | 125 | 95 | 345 | 280 | 14 | 120 | 400 | 195 |
| | 225M | | | 125 | 65 | 14 | 432,5 | 180 | 250 | 125 | 95 | 345 | 280 | 14 | 120 | 450 | 195 |
| | 250M, 280S, 280M | | | 125 | 65 | 14 | 462,5 | 180 | 250 | 125 | 95 | 345 | 280 | 14 | 120 | 550 | 195 |
| | 200L | | | 125 | 80 | 16 | 431,5 | 225 | 280 | 160 | 120 | 400 | 315 | 18 | 130 | 400 | 261 |
| 100200 | 225M | | | 125 | 80 | 16 | 431,5 | 225 | 280 | 160 | 120 | 400 | 315 | 18 | 130 | 450 | 261 |
| | 250M, 280S, 280M | | | 125 | 80 | 16 | 461,5 | 225 | 280 | 160 | 120 | 400 | 315 | 18 | 130 | 550 | 261 |
| | 315S | | | 125 | 80 | 16 | 461,5 | 225 | 280 | 160 | 120 | 400 | 315 | 18 | 130 | 660 | 261 |
| | 180M | | | 125 | 80 | 16 | 432,5 | 200 | 280 | 160 | 120 | 360 | 280 | 18 | 115 | 350 | 207 |
| | 200L | | | 125 | 80 | 16 | 432,5 | 200 | 280 | 160 | 120 | 360 | 280 | 18 | 115 | 400 | 207 |
| 100250 | 225M | | | 125 | 80 | 16 | 432,5 | 200 | 280 | 160 | 120 | 360 | 280 | 18 | 115 | 450 | 207 |
| | 250M, 280S, 280M | 100 | 125 | 125 | 80 | 16 | 462,5 | 200 | 280 | 160 | 120 | 360 | 280 | 18 | 115 | 550 | 207 |
| | 315S, 315M | | | 125 | 80 | 16 | 462,5 | 200 | 280 | 160 | 120 | 360 | 280 | 18 | 115 | 660 | 207 |
| | 225M | | | 140 | 80 | 16 | 431,5 | 225 | 280 | 160 | 120 | 400 | 315 | 18 | 130 | 450 | 274 |
| | 250M, 280S, 280M | | | 140 | 80 | 16 | 461,5 | 225 | 280 | 160 | 120 | 400 | 315 | 18 | 130 | 550 | 274 |
| 315S, 315M | | | 140 | 80 | 16 | 461,5 | 225 | 280 | 160 | 120 | 400 | 315 | 18 | 130 | 660 | 274 | |

All dimensions in mm, tolerances to EN 735

Flange dimensions

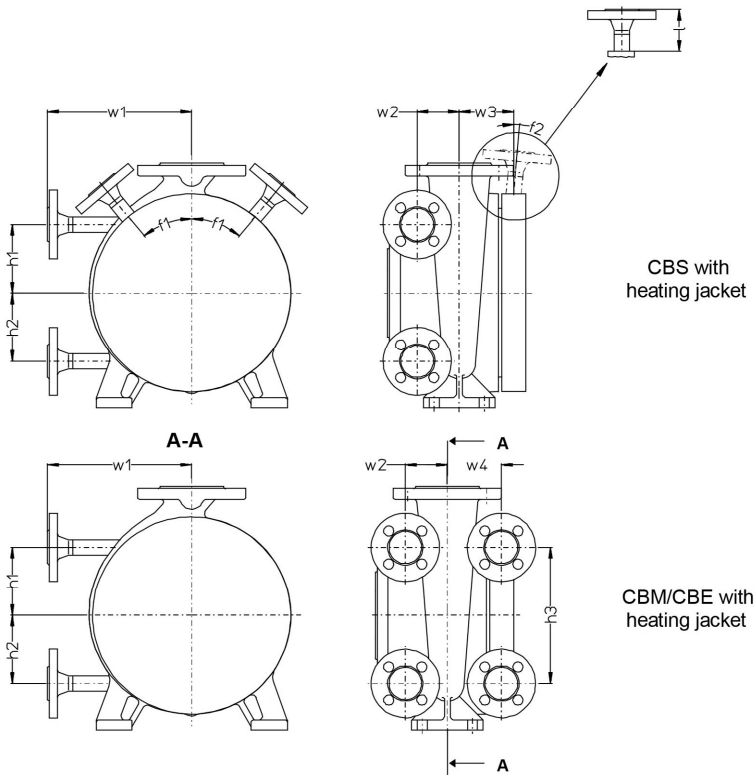


| Dimension to DIN PN 16 | | | | | | | | | |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| DN _s DN _d | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 |
| k | 100 | 110 | 125 | 145 | 160 | 180 | 210 | 240 | 295 |
| d ₂ x n | 18 x 4 | 18 x 4 | 18 x 4 | 18 x 4 | 18 x 8 | 18 x 8 | 18 x 8 | 22 x 8 | 22 x 12 |
| Dimension to DIN PN 25 | | | | | | | | | |
| DN _s DN _d | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 |
| k | 100 | 110 | 125 | 145 | 160 | 190 | 220 | 250 | 310 |
| d ₂ x n | 18 x 4 | 18 x 4 | 18 x 4 | 18 x 8 | 18 x 8 | 22 x 8 | 26 x 8 | 26 x 8 | 26 x 12 |
| Dimension to ANSI 150 RF | | | | | | | | | |
| DN _s DN _d | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 |
| k | 1,5" | 1,5" | 2" | 2,5" | 3" | 4" | 5" | 6" | 8" |
| d ₂ x n | 16 x 4 | 16 x 4 | 20 x 4 | 20 x 4 | 20 x 4 | 20 x 8 | 23 x 8 | 23 x 8 | 23 x 8 |

| Size | SG iron DIN PN16 | | | | Stainless steel DIN PN16 | | | | SG iron DIN PN25 | | | | SG iron ANSI 150 RF | | | | Stainless steel ANSI 150 RF | | | | | |
|--------|---------------------|-----------------|-------------------|----------------|-----------------------------|----------------|-------------------|----------------|---------------------|----------------|-------------------|----------------|------------------------|----------------|-------------------|----------------|--------------------------------|----------------|-------------------|----------------|----------------|----------------|
| | Discharge nozzle | | Suction nozzle | | Discharge nozzle | | Suction nozzle | | Discharge nozzle | | Suction nozzle | | Discharge nozzle | | Suction nozzle | | Discharge nozzle | | Suction nozzle | | | |
| | DN _s | DN _d | D _d | T _d | D _s | T _s | D _d | T _d | D _s | T _s | D _d | T _d | D _s | T _s | D _d | T _d | D _s | T _s | D _d | T _d | D _s | T _s |
| 32125 | | | 140 | 20 | 165 | 22 | 140 | 18 | 165 | 20 | 140 | 20 | 165 | 22 | 140 | 18 | 165 | 20 | 140 | 18 | 165 | 20 |
| 31160 | 32 | 50 | 140 | 20 | 165 | 22 | 140 | 18 | 165 | 20 | 140 | 20 | 165 | 22 | 140 | 18 | 165 | 20 | 140 | 18 | 165 | 20 |
| 32200 | | | 140 | 20 | 165 | 22 | 140 | 18 | 165 | 20 | 140 | 20 | 165 | 22 | 140 | 18 | 165 | 20 | 140 | 18 | 165 | 20 |
| 32250 | | | 140 | 20 | 165 | 22 | 140 | 18 | 165 | 20 | 140 | 20 | 165 | 22 | 140 | 18 | 165 | 20 | 140 | 18 | 165 | 20 |
| 40125 | | | 150 | 20 | 191 | 24 | - | - | - | - | 150 | 20 | 191 | 24 | 150 | 17 | 191 | 21 | - | - | - | - |
| 40160 | | | 150 | 20 | 191 | 24 | 150 | 18 | 191 | 18 | 150 | 20 | 191 | 24 | 150 | 17 | 191 | 21 | 150 | 18 | 191 | 18 |
| 40200 | 40 | 65 | 150 | 20 | 191 | 24 | 150 | 18 | 191 | 18 | 150 | 20 | 191 | 24 | 150 | 17 | 191 | 21 | 150 | 18 | 191 | 18 |
| 40250 | | | 150 | 20 | 191 | 24 | 150 | 18 | 191 | 18 | 150 | 20 | 191 | 24 | 150 | 17 | 191 | 21 | 150 | 18 | 191 | 18 |
| 40315 | | | 150 | 20 | 191 | 24 | 150 | 18 | 191 | 18 | 150 | 20 | 191 | 24 | 150 | 17 | 191 | 21 | 150 | 18 | 191 | 18 |
| 50160 | | | 165 | 22 | 200 | 26 | 165 | 20 | 200 | 20 | 165 | 22 | 200 | 26 | 165 | 19 | 200 | 23 | 165 | 20 | 200 | 20 |
| 50200 | 50 | 80 | 165 | 22 | 200 | 26 | 165 | 20 | 200 | 24 | 165 | 22 | 200 | 26 | 165 | 19 | 200 | 23 | 165 | 20 | 200 | 20 |
| 50250 | | | 165 | 22 | 200 | 26 | 165 | 20 | 200 | 24 | 165 | 22 | 200 | 26 | 165 | 19 | 200 | 23 | 165 | 20 | 200 | 20 |
| 50315 | | | 165 | 22 | 200 | 26 | 165 | 20 | 200 | 20 | 165 | 22 | 200 | 26 | 165 | 19 | 200 | 23 | 165 | 20 | 200 | 20 |
| 65160 | | | 191 | 24 | 235 | 28 | 191 | 18 | 229 | 24 | 191 | 24 | 235 | 28 | 191 | 21 | 235 | 25 | 191 | 18 | 229 | 24 |
| 65200 | 65 | 100 | 191 | 24 | 235 | 28 | 191 | 18 | 229 | 24 | 191 | 24 | 235 | 28 | 191 | 21 | 235 | 25 | 191 | 18 | 229 | 24 |
| 65250 | | | 191 | 24 | 235 | 28 | 191 | 18 | 229 | 24 | 191 | 24 | 235 | 28 | 191 | 21 | 235 | 25 | 191 | 18 | 229 | 24 |
| 65315 | | | 191 | 24 | 235 | 28 | 191 | 18 | 229 | 24 | 191 | 24 | 235 | 28 | 191 | 21 | 235 | 25 | 191 | 18 | 229 | 24 |
| 80160 | | | 200 | 26 | 270 | 30 | 200 | 20 | 254 | 24 | 200 | 26 | 270 | 30 | 200 | 23 | 270 | 27 | 200 | 20 | 254 | 24 |
| 80200 | | | 200 | 26 | 270 | 30 | 200 | 20 | 254 | 24 | 200 | 26 | 270 | 30 | 200 | 23 | 270 | 27 | 200 | 20 | 254 | 24 |
| 80250 | 80 | 125 | 200 | 26 | 270 | 30 | 200 | 20 | 254 | 24 | 200 | 26 | 270 | 30 | 200 | 23 | 270 | 27 | 200 | 20 | 254 | 24 |
| 80315 | | | 200 | 26 | 270 | 30 | 200 | 20 | 254 | 24 | 200 | 26 | 270 | 30 | 200 | 23 | 270 | 27 | 200 | 20 | 254 | 24 |
| 80400 | | | 200 | 26 | 270 | 30 | 200 | 20 | 254 | 24 | 200 | 26 | 270 | 30 | 200 | 23 | 270 | 27 | 200 | 20 | 254 | 24 |
| 100200 | | | 235 | 28 | 270 | 30 | 229 | 24 | 254 | 24 | 235 | 28 | 270 | 30 | 235 | 25 | 270 | 27 | 229 | 24 | 254 | 24 |
| 100250 | 100 | 125 | 235 | 28 | 270 | 30 | 229 | 24 | 254 | 24 | 235 | 28 | 270 | 30 | 235 | 25 | 270 | 27 | 229 | 24 | 254 | 24 |
| 100315 | | | 235 | 28 | 270 | 30 | 229 | 24 | 254 | 24 | 235 | 28 | 270 | 30 | 235 | 25 | 270 | 27 | 229 | 24 | 254 | 24 |
| 100400 | | | 235 | 28 | 270 | 30 | 229 | 24 | 254 | 24 | 235 | 28 | 270 | 30 | 235 | 25 | 270 | 27 | 229 | 24 | 254 | 24 |
| 125250 | | | 270 | 30 | 300 | 34 | 254 | 24 | 285 | 25 | 270 | 30 | 300 | 34 | 270 | 27 | 300 | 31 | 254 | 24 | 285 | 25 |
| 125315 | 125 | 150 | 270 | 30 | 300 | 34 | 254 | 24 | 285 | 25 | 270 | 30 | 300 | 34 | 270 | 27 | 300 | 31 | 254 | 24 | 285 | 25 |
| 125400 | | | 270 | 30 | 300 | 34 | 254 | 24 | 285 | 25 | 270 | 30 | 300 | 34 | 270 | 27 | 300 | 31 | 254 | 24 | 285 | 25 |
| 150250 | 150 | 200 | 300 | 34 | 360 | 34 | 285 | 29 | 343 | 32 | 300 | 34 | 360 | 34 | 300 | 31 | 360 | 31 | 285 | 26 | 343 | 29 |

All dimensions in mm, tolerances to EN 735

Heating agent supply - Connection dimensions



| Size | CBS with heating jacket | | | | | | | | | CBM/CBE with heating jacket | | Flanges DIN2633 PN16 Form C |
|--------|-------------------------|-------|-----|----|----|--------|--------|----|-----|-----------------------------|-------|-----------------------------|
| | h1 | h2 | w1 | w2 | w3 | f1 [°] | f2 [°] | l | h3 | w4 | | |
| 32125 | 70 | 70 | 160 | 45 | 71 | 55 | 0 | 75 | - | - | DN 15 | |
| 31160 | 69,5 | 69,5 | 175 | 40 | 77 | 55 | 10 | 75 | 152 | 70 | DN 15 | |
| 32200 | 103 | 97 | 190 | 50 | 66 | 55 | 0 | 75 | 162 | 67 | DN 15 | |
| 32250 | 114,5 | 110,5 | 200 | 65 | 76 | 35 | 0 | 75 | 196 | 70 | DN 15 | |
| 40160 | 82 | 82 | 175 | 43 | 77 | 55 | 10 | 75 | 152 | 70 | DN 15 | |
| 40200 | 95 | 95 | 200 | 60 | 66 | 55 | 0 | 75 | 162 | 67 | DN 15 | |
| 40250 | 110 | 115 | 200 | 65 | 76 | 35 | 0 | 75 | 196 | 70 | DN 15 | |
| 40315 | 125 | 125 | 200 | 75 | 93 | 35 | 10 | 75 | x | | DN 15 | |
| 50160 | 87 | 87 | 175 | 50 | 77 | 55 | 10 | 75 | 152 | 70 | DN 15 | |
| 50200 | 100 | 100 | 205 | 55 | 66 | 55 | 0 | 75 | 162 | 67 | DN 15 | |
| 50250 | 120 | 120 | 200 | 75 | 76 | 35 | 0 | 75 | x | | DN 15 | |
| 50315 | 120 | 120 | 230 | 85 | 93 | 35 | 10 | 75 | x | | DN 15 | |
| 65160 | 92 | 63 | 188 | 55 | 73 | 55 | 0 | 75 | 152 | 70 | DN 15 | |
| 65200 | 110 | 110 | 210 | 60 | 76 | 55 | 0 | 75 | x | | DN 15 | |
| 65250 | 115 | 115 | 235 | 75 | 77 | 55 | 10 | 75 | 174 | 83 | DN 15 | |
| 80160 | 130 | 130 | 215 | 80 | 73 | 55 | 0 | 75 | x | | DN 15 | |
| 80200 | 115 | 115 | 220 | 75 | 81 | 55 | 10 | 75 | x | | DN 15 | |
| 100200 | 135 | 135 | 215 | 80 | 80 | 55 | 10 | 75 | x | | DN 15 | |

All dimensions are reference values in mm or °

x = adaptation to customer requirements