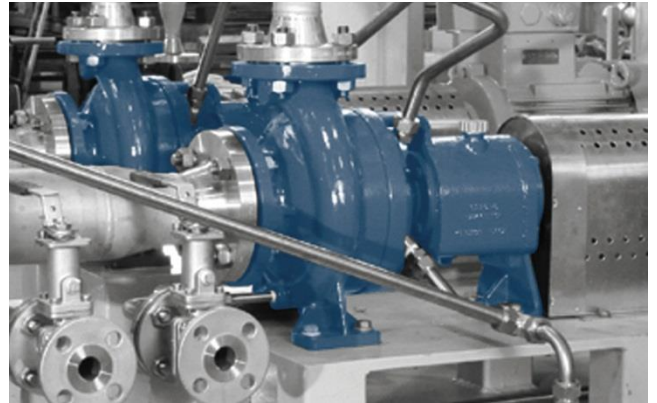


Technical Data

Flow rate:	max. 650 m ³ /h
Head:	max. 150 m
Speed:	max. 3600 min ⁻¹
Materials:	Cast iron, cast steel, stainless steel, hastelloy, duplex
Temperature:	max. 350 °C
Casing pressure:	max. 25 bar
Shaft seal:	Mechanical seal or magnetic coupling
Dimensions of flanges:	according to DIN or ANSI (see flanges)
Direction of rotation	clockwise, when viewed from drive end



Applications

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

- Chemical
- Pharmaceutical
- Petro-chemical
- Paper
- Plastic
- Food processing
- Plant engineering and construction

Design

Chemical process pumps of the **SIHI^{ISOchem}** are horizontal, single-stage volute casing pumps with dimensions to DIN EN ISO 2858 and meet the technical requirements of DIN EN ISO 5199.

It is a modular configuration of either bare shaft end or close-coupled design. Shaft sealing options are single or double-acting mechanical seals or magnetic couplings. The benefits are the interchangeability of the back pull-out assemblies and the reduction of spare parts cost.

Construction

Hydraulic

The hydraulic of the **SIHI^{ISOchem}** is designed with closed impeller.

Casing pressure

PN16 and PN25.

Maximal casing pressure = 25 bar.

Max. casing pressure = inlet pressure + delivery head at zero flow.

Please note

The relevant technical regulations and safety rules must be observed.

Flange location

Axial suction flange, discharge flange radially upwards.

Flanges

According DIN EN 1092 or ANSI.

Materials

Standard materials: Cast iron, cast steel, stainless steel, hastelloy, duplex.

Special materials on request.

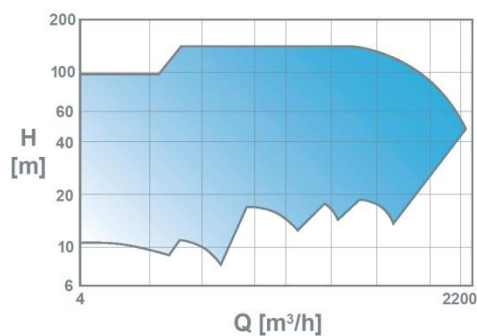
Shaft sealing

Mechanical seals:

- Single-acting seals
- Double-acting seals
- Cartridge seals

Magnetic coupling:

- with or without heat barrier
- Internal strainer
- External partial flow
- Heating jackets



Chemical process pumps in the range **SIHI**ISOchem are horizontal, single-stage volute casing pumps with designs that fully meets technical requirements of DIN EN ISO 5199 and dimensions according to DIN EN ISO 2858.

This modular process pumps consists of **hydraulics** with **closed** impellers. Due to the modular configuration, the pumps can be used in a **bare shaft** or **close-coupled** configuration.

Hydraulics



Volute casing with closed impeller
+ Clean liquids
+ Low NPSH values

Bare shaft design



CBS with single-acting mechanical seal and lifetime lubricated ball bearings



CBS with single or double-acting mechanical seal, shaft sleeve and oil lubricated ball bearings

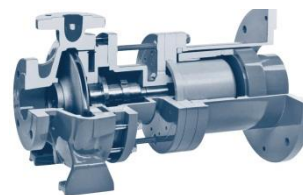


CBM with magnetic coupling according VDMA 24279

Close-coupled design



CBE with magnetic coupling according to VDMA 24279 for temperatures up to 300 °C



CBE with magnetic coupling and heat barrier according VDMA 24279 for temperatures up to 400 °C

Benefits

- + Low power consumption
- + Increased lifetime and longer maintenance intervals
- + Low installation cost
- + High level of availability and short supply times
- + Simple assembly and dismantling
- + Quick on-site servicing
- + Can be used where is a risk of explosion

Execution with mechanical seal

High efficiency

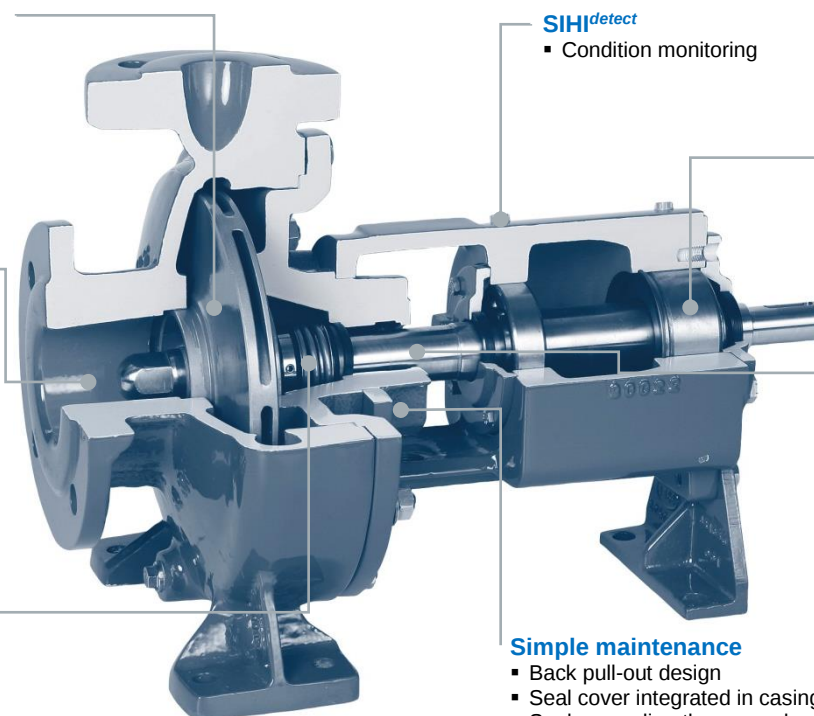
- Modern hydraulics
- High efficiencies
- Optimal velocities

Low installation cost

- Low NPSH value

Shaft seal options

- Single or double-acting mechanical seal
- Cartridge seal



SIHI^{detect}

- Condition monitoring

High reliability

- Heavy duty thrust ball bearings / angular contact ball bearings
- Grease or oil lubrication

Optimised maintenance cost

- Lower shaft deflection than required by ISO 5199
- Longer seal lifetime
- Longer lifetime of bearings
- High quality standard
- Labyrinth seal re-usable

Simple maintenance

- Back pull-out design
- Seal cover integrated in casing cover
- Seal cover directly screwed onto volute casing
- Bearing bracket not subjected to pressure

Execution with magnetic coupling

High efficiency

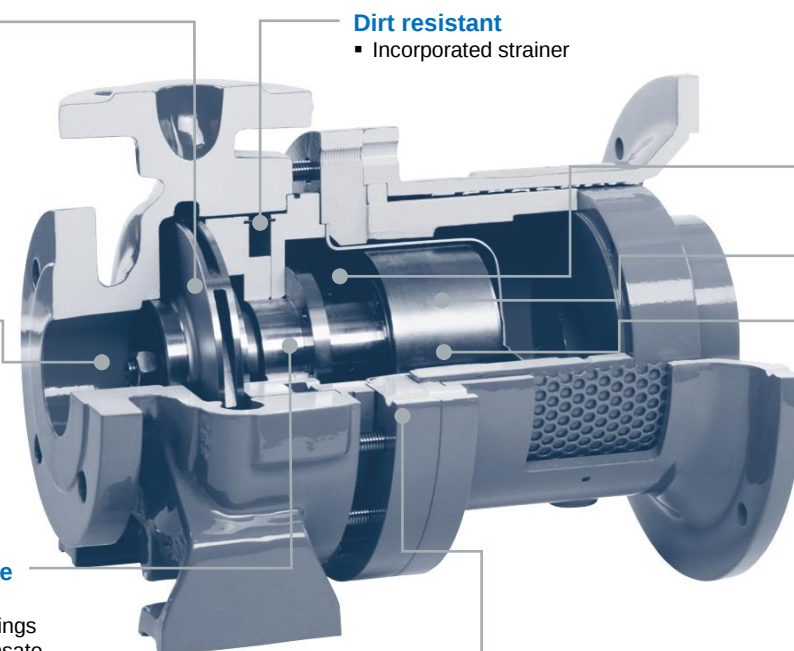
- Modern hydraulics
- High efficiencies
- Optimal velocities

Low installation cost

- Low NPSH value

Optimised maintenance cost due to robust sleeve bearings

- Silicon carbide sleeve bearings
- Patented design to compensate different thermal expansion



Dirt resistant

- Incorporated strainer

High reliability

- Constant partial flow via internal magnet (cooling flow)
- Constant partial flow via axial bearing (lubrication flow)
- Protection against damage for inner and outer magnets
- Samarium cobalt magnets
- Hastelloy C4 or ceramic isolation shroud

Broad range of applications

- Heat barrier for temperatures up to 400 °C with uncooled ceramic isolation shrouds

Operating limits

Temperature / Power

Type	Lubrication	min. Temperature	max. Temperature	max. Power at 2900 min ⁻¹
CBS	grease	-40°C	+140°C	according to characteristic curve
	oil	-40°C	+350°C	
CBM	grease	-40°C	+180°C	65 kW
	oil	-40°C	+350°C	
CBE	Liquid handled	-40°C	+350°C*	90 kW

* with thermal barrier up to 400 °C possible

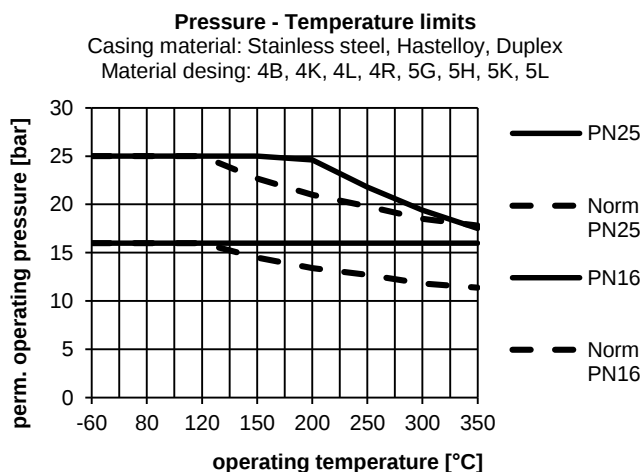
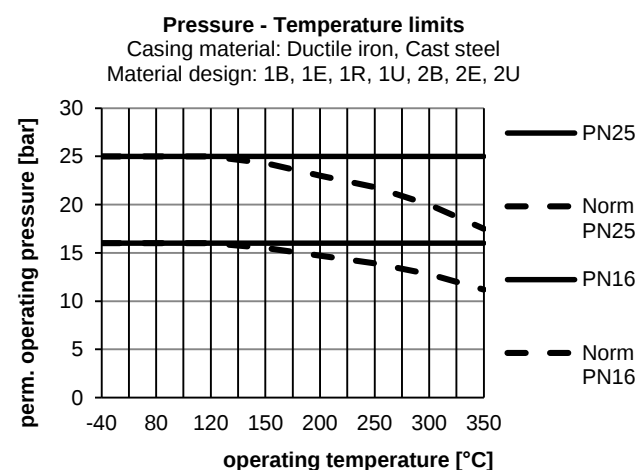
Speed

Size	max. Speed min ⁻¹	Size	max. Speed min ⁻¹	Size	max. Speed min ⁻¹
25125 40250 ¹⁾	3600	40315 ²⁾	3000	80400	1800
25160 50160		50315 ²⁾		100400	
25200 50200		65315 ²⁾		125250	
32125 50250 ¹⁾		80250		125315	
32160 65160		80315 ²⁾		125400	
32200 65200		100200		150250	
32250 ¹⁾ 65250 ¹⁾		100250			
40125 80160		100315			
40160 80200					
40200					

¹⁾ Except impeller material GG-25: n_{max} = 2900 min⁻¹

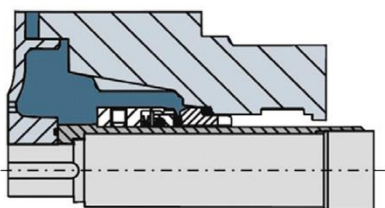
²⁾ Except impeller material GG-25: n_{max} = 1800 min⁻¹

Casing pressure

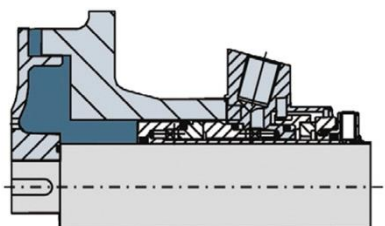


Shaft sealing

Mechanical seal designs

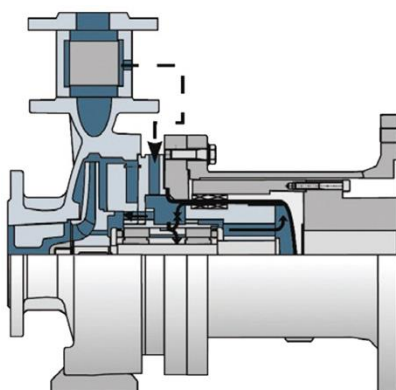


Single-acting mechanical seal

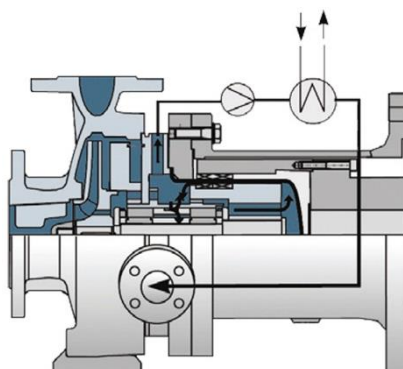


Mechanical seal, type Cartridge

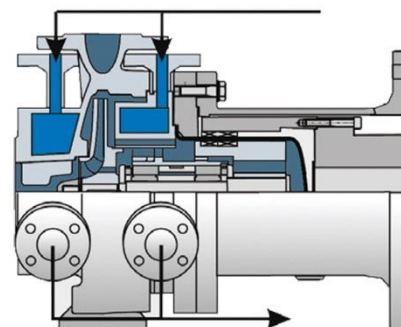
Magnetic coupling designs



Internal strainer



External partial flow

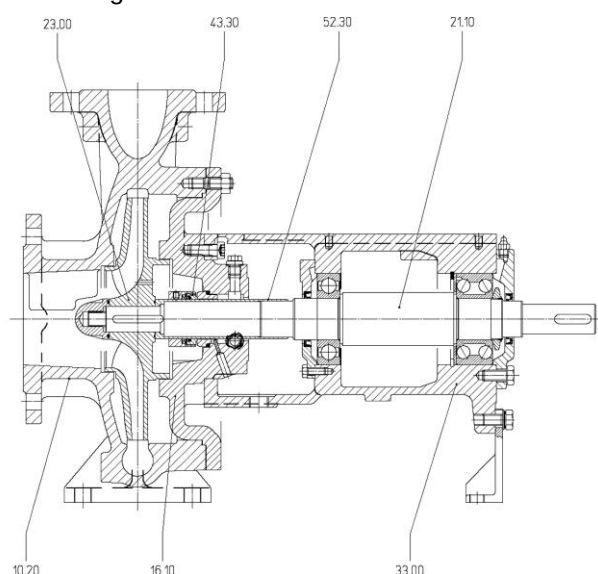


Heating jackets

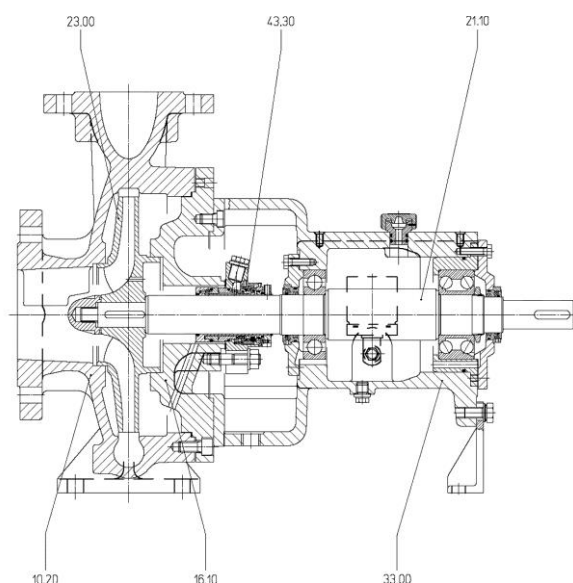
Sectional drawing and materials of construction

Bare shaft end design with mechanical seal

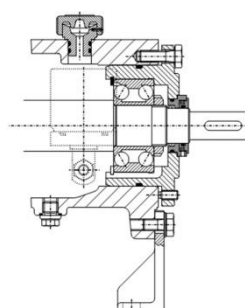
CBS with grease lubrication



CBS with oil lubrication



Design with external axial rotor adjustment



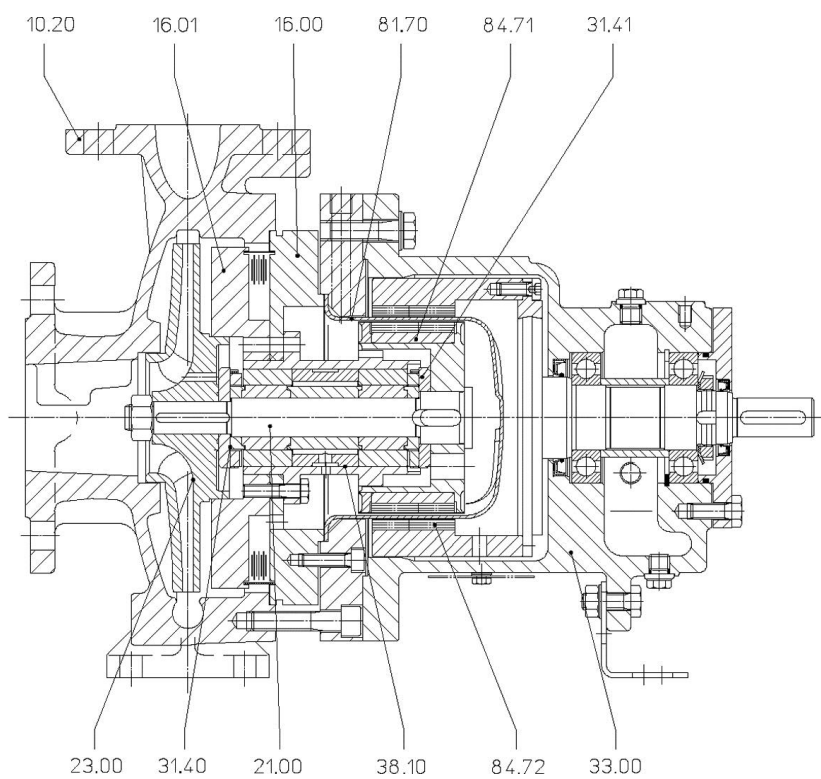
Materials of construction CBS

Pos.	Design.	Materials											
		1B	1E	1R	1U	2B	2R	4B	4R	4K	4L	5K	5L
10.20	Volute casing	EN-JS 1025				1.4408		1.4408				1.4517	
16.10	Casing cover	EN-JS 1025 / GS-C25				1.4408 (BB55 1.0619)		1.4408				1.4517	
21.10	Shaft	CK 45 N		1.4571		CK 45 N	1.4571	CK 45 N	1.4571	CK 45 N	1.4571	CK 45 N	1.4462
52.30	Shaft sleeve	1.4571		-		1.4571	-	1.4571	-	1.4571		1.4462	-
23.00	Impeller	EN-JL 1040	1.4408	EN-JL 1040	1.4408	EN-JL 1040		1.4408		1.4517		1.4517	
33.00	Bearing bracket	EN-JL 1040											
43.30	Mechanical seal	various material combinations											

Sectional drawing and materials of construction

Bare shaft end design with magnetic drive

CBM up to 350 °C



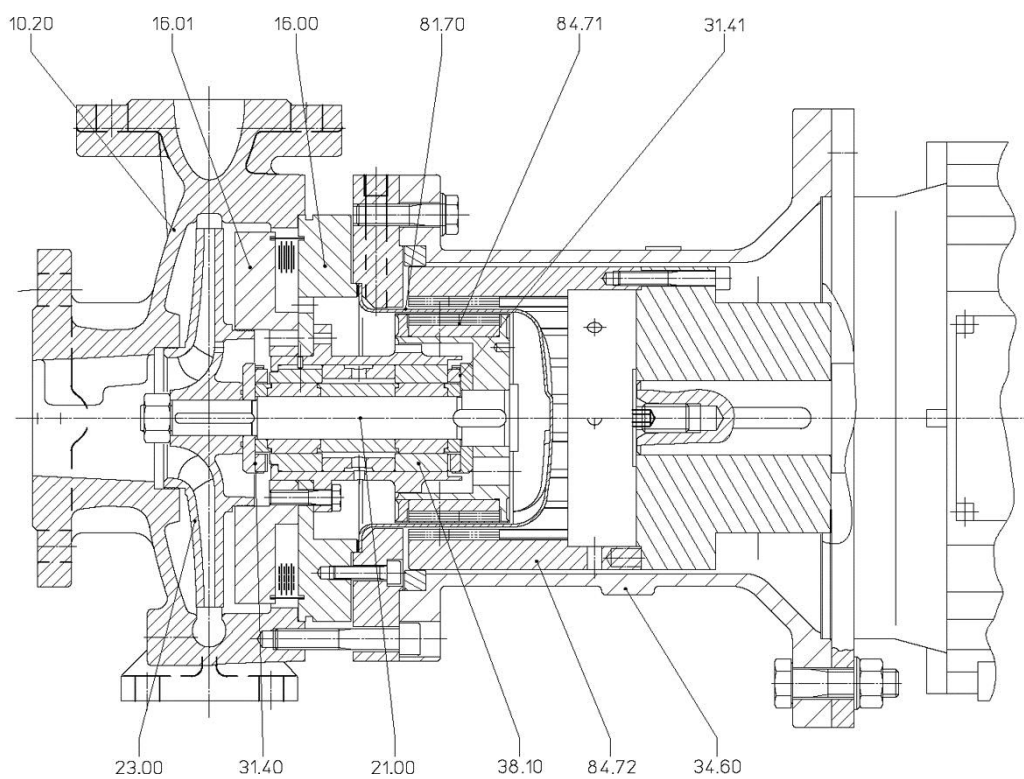
Materials of construction CBM

Pos.	Designation	Material			
		1B	4B	5K	5G
10.20	Volute casing	EN-JS 1025	1.4408	1.4517	2.4686
16.00 16.01	Casing cover	EN-JS 1025	1.4408	1.4517	2.4686
21.00	Shaft	1.4462			2.4610
23.00	Impeller	EN-JL 1040	1.4408	1.4517	2.4686
31.40 31.41	Sleeve bearing	1.4571 / SSiC			2.4610 / SSiC
33.00	Bearing bracket	EN-JS 1025			
38.10	Bearing insert	1.4462 / SSiC			2.4610 / SSiC
81.70	Isolation shroud	2.4610			
84.71	Inner magnet	1.4571 / SmCo			2.4610 / SmCo
84.72	Outer magnet	1.0570 / SmCo			

Sectional drawing and materials of construction

Close-coupled design with magnetic drive

CBE up to 350 °C (for 400 °C on request)



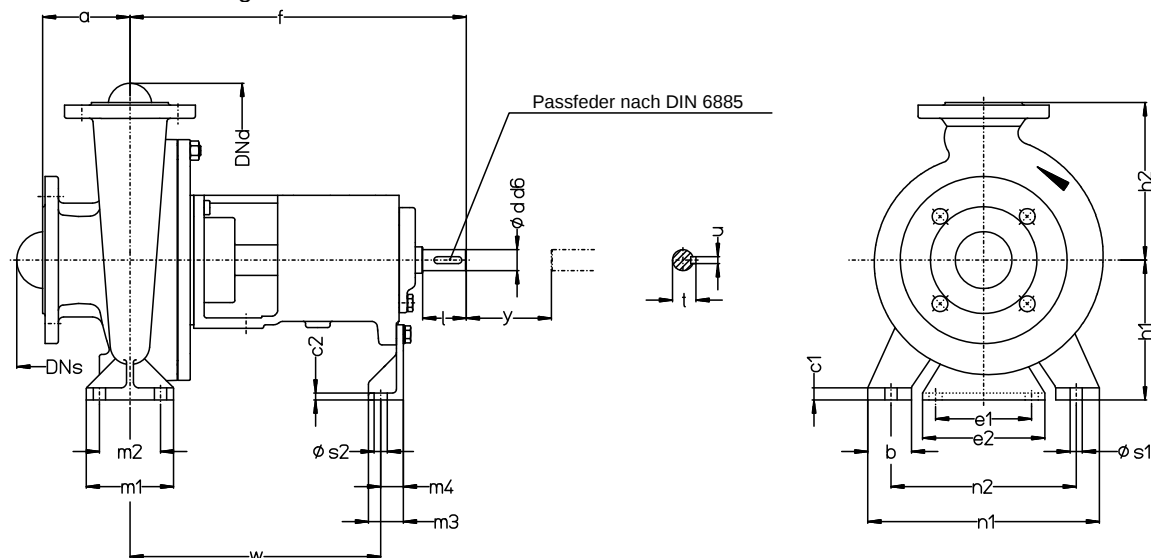
Materials of construction CBE

Pos.	Designation	Material				
		1B	1E	2B	4B	5L
10.20	Volute casing	EN-JS 1025		1.4408	1.4408	1.4517
16.00 16.01	Casing cover	1.0053		1.0053	1.4571	1.4539
21.00	Shaft	1.4462				
23.00	Impeller	EN-JL 1040	1.4408	EN-JL 1040	1.4408	1.4517
31.40 31.41	Sleeve bearing	1.4571 / SSiC				
34.60	Stool	EN-JS 1025				
38.10	Bearing insert	1.4462 / SSiC				
81.70	Isolation shroud	2.4610				
84.71	Inner magnet	1.4571 / SmCo				
84.72	Outer magnet	1.0553 / SmCo				

Table of dimensions

Bare shaft end design with mechanical seal

CBS bare shaft design to DIN EN ISO 2858



y = dimension for removal

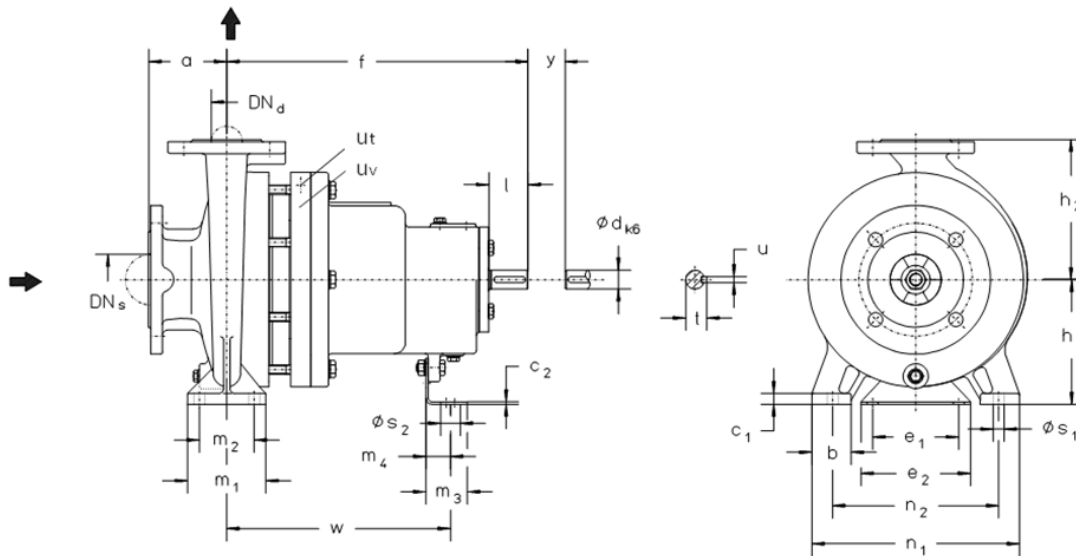
All dimensions in mm, tolerances to DIN EN 735

All dimensions in mm, tolerances to DIN EN 733																																																
Size	Bearing bracket	Pump dimensions						Foot dimensions														Shaft end						Pump weight kg																				
		DN _d	DN _s	a	f	h ₁	h ₂	b	c ₁	c ₂	m ₁	m ₂	m ₃	m ₄	n ₁	n ₂	s ₁	s ₂	e ₁	e ₂	w	d	l	t	u	y																						
025125	35	25	40	80	385	112	140	50	14	100	70	40	28	190	140	14	15	110	140	370	24	50	27	8	140	140	37																					
025160						132	160							55																																		
025200						160	180							60																																		
032125		32	50			112	140							38																																		
032160						132	160							44																																		
032200						160	180							53																																		
032250	45	100	500	180	225	65	125	95			320			250	370												32	80	35	10	91																	
040125	35	40	65	80	385	112	140	50			14			100	70												210	160	14	15	110	140	370	24	50	27	8	140	140	140	38							
040160				132	160	45																																										
040200				160	180	55																																										
040250	45			100	180	225	65	125							95																										320	250	370	32	80	35	10	93
040315					200	250	117																																									
050160					100	385	160	180							54																																	
050200	50	80	125	500	200	250	65	8			125			95	40												28	265	212	15	110	140	370	32	80	35	10	140	140	140	58							
050250					180	225			96																																							
050315					225	280			122																																							
065160					65	100			160	200		72																																				
065200									180	225		83																																				
065250									200	250		106																																				
065315	55	530	225	280	80	16	160	120	400	315	18	42	110	45	12	136																																
080160	45	80	125	500	180	225	65	14	125	95	320	250	14	400	315	18	370	32	80	35	10	140	140	140	140	82																						
080200					250	280																				92																						
080250					225	280																				113																						
080315					55	125	250			315																80	16	160	120	435	355	18	42	110	45	12	204											
080400							280			355																												106										
100200							200			280																												135										
100250	55	100	140	530	225	280	100	18	200	150	500	400	23	15	110	140	370	42	110	45	12	140	140	140	140	157																						
100315					250	315																				199																						
100400					280	355																				142																						
125250					125	150	250			355																100	18	200	150	400	315	18	42	110	45	12	176											
125315							280			355																												209										
125400							315			400																												209										

Table of dimensions

Bare shaft end design with magnetic drive

CBM



Ut : Connection for temperature sensor G1/4

Uv : Connection for condition monitoring sensor SIHidetect M8

x = dimension for removal

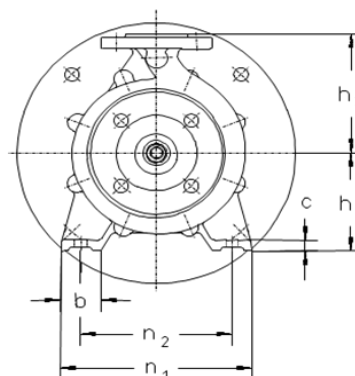
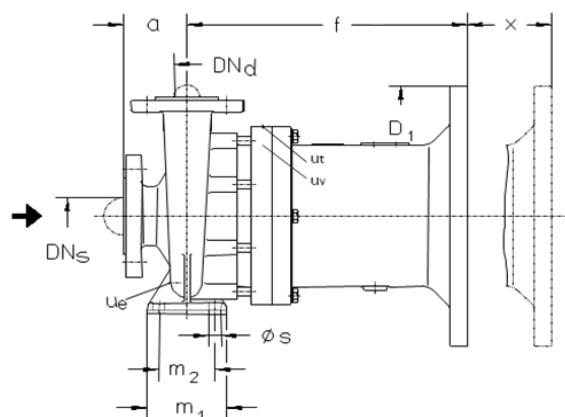
All dimensions in mm, tolerances to DIN EN 735

Size	Bearing bracket	Pump dimensions						Foot dimensions														Shaft end						Pump weight kg	
		DN _d	DN _s	a	f	h ₁	h ₂	b	c ₁	c ₂	m ₁	m ₂	m ₃	m ₄	n ₁	n ₂	s ₁	s ₂	e ₁	e ₂	w	d	l	t	u	y			
025125	35	25	40	80	385	112	140	50	14	3	100	70	53	35	190	140	14	14	110	140	285	24	50	27	8	140	47		
025160						132	160								240	190											57		
025200						160	180								240	190											76		
032125		32	50			112	140								190	140											41		
032160						132	160								240	190											57		
032200						160	180								240	190											76		
032250	45	40	65	100	500	180	225	125	95	53	320	250	370	32	80	35	10	127											
040125	80			385	112	140	210	160	285		24	50	27	8	59														
040160	100			132	160	240	190	265	212		240	190	320	250	370	32	80	35	10	138									
040200				160	180	265	212	345	280		260																		
040250	45			125	500	180	225	65	125		95	320	250	370	32	80	35	10	260										
040315						200	250	345	280		69																		
050160	35	50	80	100	385	160	180	50	100	70	53	265	212	285	24	50	27	8	84										
050200				160	200	265	212	84																					
050250	45	50	80	125	500	180	225	65	125	95	320	250	110	140	370	32	80	35	10	140	167								
050315				225		280	345					280									280								
065160				100		160	200					280									212	75							
065200						180	225					320									250	147							
065250						200	250					360									280	256							
065315				55		530	225					280									80	16	8	160	120	40	28	400	315
080160	45	80	125	500	180	225	65	14	125	95	53	35	320	250	14	370	32	80	35	10	140	107							
080200					180	250	345	280		195																			
080250					225	280	400	315		261																			
080315	55	530			250	315	16	3	43	25	400	315	280	280															
100160	45	100			140	515	200	280	80	20	160	120	53	35	360							280	18	385	32	80	35	10	217
100200					125	500	200	280		43		25	400	315	207														
100250	55	125	150	140	530	225	280	80	16	43	25	400	315	370	42	110	45	12	230										
125250						250	355													43	25								

Table of dimensions

Close-coupled design with magnetic drive

CBE up to 350°C (for 400 °C on request)



Ut : Connection for temperature sensor G1/4

Uv : Connection for condition monitoring sensor SIHIdetect M8

x = dimension for removal

All dimensions in mm, tolerances to DIN EN 735

Size	Motor size	Pump dimensions															Pump weight kg																		
		DN _d	DN _s	a	b	c	f	h ₁	h ₂	m ₁	m ₂	n ₁	n ₂	s	x	D ₁																			
025125	80M, 90S, 90L	25	40				262	112	140			190	140			200	42																		
	100L, 112M						272									250																			
	132S, 132M						292									300																			
025160	80M, 90S, 90L						25	40								302	132	160			240	190			200	54									
	100L, 112M															322									250										
	132S, 132M															352									300										
	160M, 160L															350																			
025200	90S, 90L															25	40								292	160	180			240	190			200	72
	100L, 112M																								302									250	
	132S, 132M																								322									300	
	160M, 160L																								352									350	
	180M, 180L																								350										
032125	80M, 90S, 90L	32	50	80	50	14				262	112			140	100										70	190	140			14	90			200	44
	100L, 112M									272																								250	
	132S, 132M									292																								300	
	160M, 160L						322	350																											
	80M, 90S, 90L						292	200																											
032160	100L, 112M						32	50	80	50	14	302	132	160					100	70			240	190		14	90							250	57
	132S, 132M											322																						300	
	160M, 160L											352				350																			
	180M, 180L											350																							
	100L, 112M											302				250																			
032200	132S, 132M											32	50	80		50	14	322			160	180	100	70				240	190			14	90	300	76
	160M, 160L																	352																350	
	180M, 180L	350																																	
	200L	400																																	
	100L, 112M	302	250																																
032250	132S, 132M	32	50	100	65	14									322			180			225	125			95			320	250	14	90			300	127
	160M, 160L														352																			350	
	180M, 180L						350																												
	200L						400																												
	225S, 225M						382	450																											

All dimensions in mm, tolerances to DIN EN 735

Size	Motor size	Pump dimensions															Pump weight kg								
		DN _d	DN _s	a	b	c	f	h ₁	h ₂	m ₁	m ₂	n ₁	n ₂	s	x	D ₁									
040125	80M, 90S, 90L	40	65	80	50	15	262	112	140	100	70	210	160	15	90	200	47								
	100L, 112M						272									250									
	132S, 132M						292									300									
	160M, 160L						322									350									
040160	90S, 90L					80	50	292	132			160	240			190	90	200	59						
	100L, 112M																	302		250					
	132S, 132M																	322		300					
	160M, 160L																	352		350					
040200	180M, 180L			100	50	302	160	180	265			212						14	250	79					
	132S, 132M																				322	300			
	160M, 160L,																				352	350			
	180M, 180L																				382	400			
040250	225S, 225M			100	65	14	302	180	225			320	250			100			450	138					
	100L, 112M																		322		300				
	132S, 132M																		352		350				
	160M, 160L																		382		400				
	180M, 180L									402	450														
	200L									432	550														
	225S, 225M									462															
	250M, 280S																								
040315	132S, 132M			125	65	14	402	200	250	345	280	130	300	260											
	160M, 160L,												352		350										
	180M, 180L												382		400										
	200L												432		450										
	225S, 225M												462		550										
	250M, 280S, 280M																								
050125	90S, 90L			50	80	100	50	14	262	132	160	100	70	240	190	14	90	200	47						
	100L, 112M								272									250							
	132S, 132M	292	300																						
	160M, 160L	322	350																						
	180M, 180L																								
050160	90S, 90L	100	50						292	180	265			212	90			200	69						
	100L, 112M																	302		250					
	132S, 132M																	322		300					
	160M, 160L																	352		350					
	180M, 180L																	382		400					
050200	200L	125	65						14	302								160	200	320	250	100	450	84	
	100L, 112M																						322		300
	132S, 132M																						352		350
	160M, 160L					382	400																		
	180M, 180L					402	450																		
	200L					432	550																		
050250	225S, 225M	125	65			14	302	180	225	345	280	130	550	167											
	250M, 280S, 280M												402			300									
	132S, 132M														350										
	160M, 160L												432		400										
	180M, 180L												462		450										
	200L														550										
	225S, 225M														660										
250M, 280S, 280M																									
050315	315S						462	225	280		345	280	130												

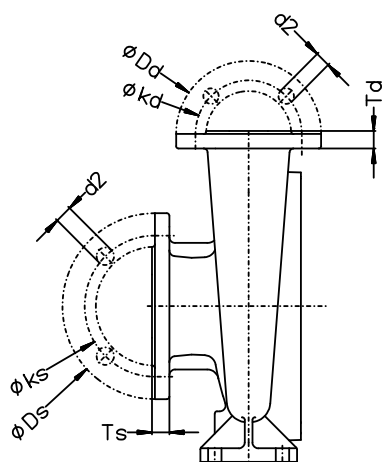
All dimensions in mm, tolerances to DIN EN 735

Size	Motor size	Pump dimensions															Pump weight kg						
		DN _d	DN _S	a	b	c	f	h ₁	h ₂	m ₁	m ₂	n ₁	n ₂	s	x	D ₁							
065160	90S, 90L	65	100	100	65	14	292	160	200	125	95	280	212	14	90	200	75						
	302						250																
	322						300																
	352						350																
							400																
							450																
200L	500																						
065200	100L, 112M						100	65	14	302	180	225	125	95	320	250		14	90	250	147		
	322									300													
	352									350													
										400													
										450													
	225S, 225M			500																			
250M, 280S	550																						
065250	132S, 132M			125	80	16	402	200	250	160	120	360	280	18	130	300	256						
	432						350																
							400																
							450																
	225S, 225M						500																
	250M, 280S, 280M						550																
315S	600																						
065315	132S, 132M						125	80	16	417	225	280	160	120	400	315		18	130	300	295		
	447									350													
										400													
		450																					
	225S, 225M	500																					
	250M, 280S, 280M	550																					
315S	600																						
080160	100L, 112M	80	125	125	65	14				302	180	225	125	95	320	250	14	90	250	107			
	322									300													
	352									350													
										400													
										450													
	225S, 225M						500																
250M	550																						
080200	132S, 132M				80	125	125	65	14	402	180	250	125	95	345	280	120	120	300		195		
	432									350													
										400													
										450													
	225S, 225M									500													
	250M, 280S, 280M	550																					
080250	132S, 132M	125	100	80				16	402	225	280	160	120	400	315	18	130	300	261				
	432								350														
									400														
									450														
	225S, 225M								500														
	250M, 280S, 280M								550														
315S	600																						
100200	132S, 132M				125	100	125		80	16	402	200	280	160	1200	360	280	18		115	300	207	
	432										350												
											400												
											450												
	225S, 225M										500												
	250M, 280S, 280M	550																					
315S, 315M	600																						
100250	132S, 132M	125	100	140				80			16	417	225	280	160	1200	400	315	18	130	300		274
	447											350											
												400											
												450											
	225S, 225M											500											
	250M, 280S, 280M				550																		
315S, 315M	600																						

All dimensions in mm, tolerances to DIN EN 735

Size	Motor size	Pump dimensions															Pump weight kg
		DN _d	DN _S	a	b	c	f	h ₁	h ₂	m ₁	m ₂	n ₁	n ₂	s	x	D ₁	
100315	160M, 160L	100	125	140	80	16	447	250	315	160	120	400	315	18	130	350	277
	180M, 180L															400	
	200L															450	
	225S, 225M						477									550	
	250M, 280S, 280M															660	
	315S, 315M																
125250	160M, 160L	125	150	140	80	16	447	250	355	160	120	400	315	18	130	350	300
	180M, 180L															400	
	200L															450	
	225S, 225M						477									550	
	250M, 280S, 280M															660	
	315S, 315M																
125315	160M, 160L	125	150	140	100	18	447	280	355	200	150	500	400	23	130	350	364
	180M, 180L															400	
	200L															450	
	225S, 225M						477									550	
	250M, 280S, 280M															660	
	315S, 315M																
150250	160M, 160L	150	200	160	100	20	447	280	375	200	150	500	400	22	130	350	300
	180M, 180L															400	
	200L															450	
	225S, 225M						477									550	
	250M, 280S, 280M															660	
	315S, 315M																

Flange dimensions



Dimensions to DIN PN 16										
DN _d DN _s	25	32	40	50	65	80	100	125	150	200
k	85	100	110	125	145	160	180	210	240	295
d ₂ x n	14 x 4	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
Dimensions to DIN PN 25										
DN _d DN _s	25	32	40	50	65	80	100	125	150	200
k	85	100	110	125	145	160	190	220	250	310
d ₂ x n	14 x 4	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
Dimensions to ANSI 150 RF										
DN _d DN _s	25	32	40	50	65	80	100	125	150	200
	1" ²⁾	1,5" ¹⁾	1,5"	2"	2,5"	3"	4"	5"	6"	8"
k	79,4	98,4	98,4	120,6	139,7	152,4	190,5	215,9	241,3	298,4
d ₂ x n	16 x 4	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

¹⁾ Execution 1¼" for DN32 not possible

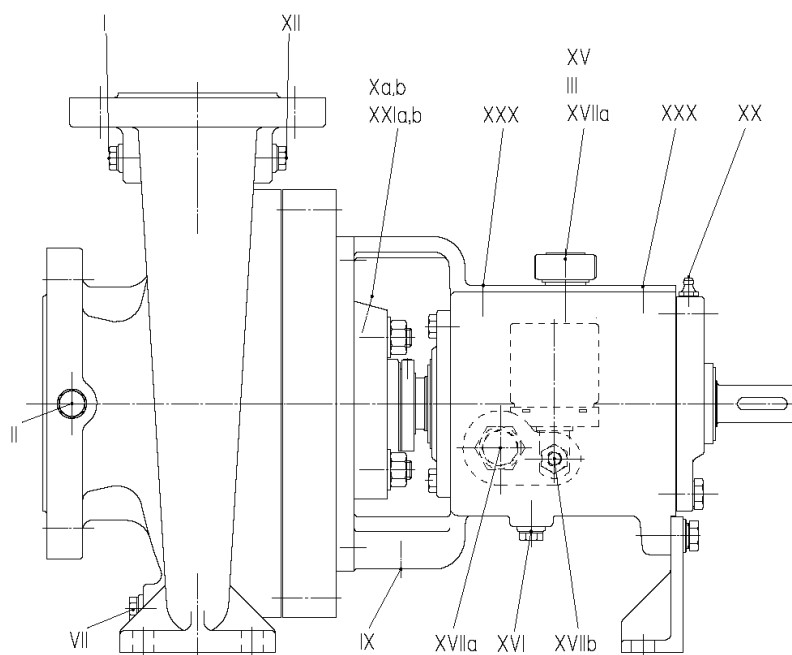
²⁾ Execution 1" on suction side (DN40) with 4 x threads ½" – 13 UNC

All dimensions in mm, tolerances to EN 735

Size	DN _d	DN _s	SG iron PN16 / PN25				Stainless steel PN16 / 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	
			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
025125	25	40	-	-	-	-	115	18	150	19	-	-	-	-	115	18	150	19
025160			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
025200			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
032125	32	50	140	20	165	22	140	18	165	20	140	18	165	20	140	18	165	20
032160			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
032200			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
032250	40	65	-	-	-	-	-	22	185	-	-	-	-	-	-	-	-	-
040125			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
040160			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
040200			150	20	191	24	150	18	191	22	150	18	191	22	150	18	191	22
040250			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
040315			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
050160	50	80	165	22	200	26	165	20	200	24	165	20	200	24	165	20	200	24
050200			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
050250			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
050315			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
065160			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
065200	65	100	191	24	235	28	191	22	235	24	191	22	235	25	191	22	235	24
065250			-	-	-	-	-	-	-	-	-	-	-	26	-	-	-	-
065315			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
080160	80	125	200	26	270	30	200	24	270	26	200	24	270	27	200	24	270	26
080200			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
080250			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
080315			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
080400			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100200	100	125	235	28	270	30	229	24	270	26	235	25	270	27	229	24	270	26
100250			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100315			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100400			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
125250	125	150	270	30	300	34	270	26	300	28	270	27	300	31	270	26	300	28
125315			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
125400			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
150250	150	200	300	34	360	34	300	29	360	32	300	31	360	31	300	29	360	32

Connections

CBS

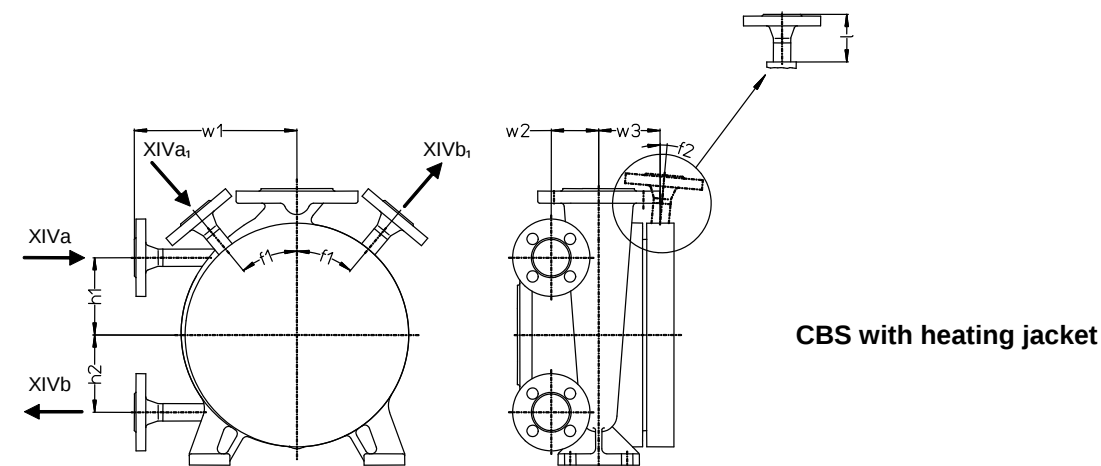


Pos.	Description	Execution	Connection
I	Pressure gauge	By request	G ¼ / G ½ ¹⁾
II	Vacuum and pressure gauge	By request	G ¼ / G ½ ¹⁾
III, XV	Vent, Oil filling	For oil lubrication	Ø 20
VII	Drain	By request	G ¼ / G ¾ ¹⁾
IX	Drainage of leakage	By request	G ½
Xa, b	Sealing liquid, inlet/outlet	Execution mechanical seal	G ¼
XII	Circulation	Execution mechanical seal	G ¼
XVI	Oil drain	For oil lubrication	G ¼
XVIIa	Oil dip stick	Execution with oil dip stick or oil sight glass	Ø 20 G ½
XVIIb	Oil level controller	Execution with oil level controller	G ¼
XX	Grease lubrication	For grease lubrication	1/8"
XXla,b ²⁾	Quench, inlet/outlet	Execution mechanical seal	Dependent of mechanical seal
XXX	Shock pulse measurement	All executions	M8

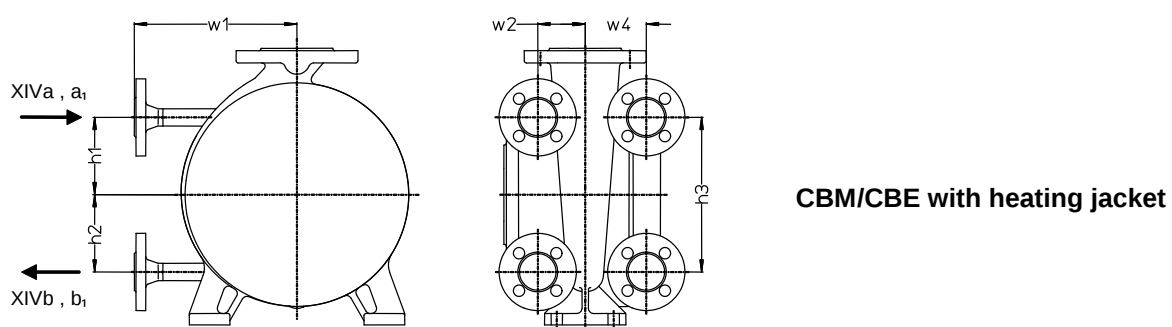
¹⁾ Depending on size

²⁾ For elastomer bellow seals not executed by default

Connections Heating agent supply



CBS with heating jacket



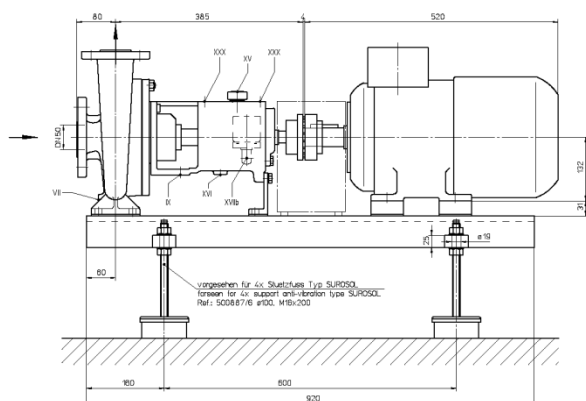
CBM/CBE with heating jacket

XIVa,a₁ = heating jacket connection - inlet
XIVb,b₁ = heating jacket connection - outlet

All dimension in mm or °, tolerances to EN 735

All dimensions in mm or $\frac{1}{8}$ tolerances to EN 733													
Size	Bearing bracket	Values of connections										l	Flange
		h ₁	h ₂	h ₃	w ₁	w ₂	w ₃	w ₄	f ₁	f ₂			
032125	35	70	70	-	160	45	71	-	55	0	75	DN15	
032160		69.5	69.5	152	175	40	77	70		10			
032200		103	97	162	190	50	66	67		0			
032250	45	114.5	110.5	196	200	65	76	70	35	0			
040160	35	82	82	152	175	43	77	70	55	10			
040200		95	95	162	200	60	66	67		0			
040250	45	110	115	196		65	76	70	35	0			
040315		125	125	-		75	93	-		10			
050160	35	87	87	152	175	50	77	70	55	0			
050200		100	100	162	205	55	66	67		10			
050250	45	120	120	-	200	75	76	-	55	0			
050315		-	-	-	230	85	93	-		10			
065160		92	63	152	188	55	73	70		0			
065200		110	110	-	210	60	76	-		10			
065250		115	115	174	235	75	77	83		0			
080160		130	130	-	215	80	73	80		10			
080200		115	115	-	220	75	81	75		0			
100200		135	135	-	215	80	80	-		10			

Foundation plans



Detailed foundation plans are available on request.

These plans can also be supplied in different electronic formats, for example as 3D models (STEP, ...) with the main dimensions of all components.

For the configuration of a pump set the following accessories can be supplied:

- Base plates
- Couplings and coupling guards
- Motors
- Additional accessories

Additional innovative solutions from SIHI

SIHI^{detect}



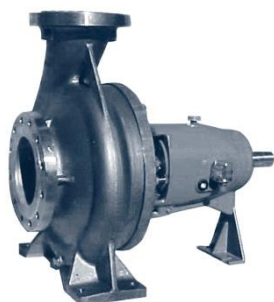
Condition based monitoring

Detect wear before damage occurs

- + Cavitation and process turbulence
- + Simple to connect
- + LED display
- + Available Ex
- + All rotating machinery
- + DCS integration and continual monitoring

Noise and Vibration analysis allows this compact device to diagnose the (often hidden) symptoms of longer term damage even before vibration occurs.

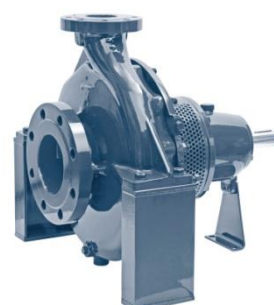
SIHI^{ISOchem}



CBT for larger flow rates

Flow rate:	max. 2200 m ³ /h
Head:	max. 160 m
Casing pressure:	max. 25 bar
Temperature:	max. 350 °C

SIHI^{ISOchem}



RBS for higher casing pressures

Flow rate:	max. 1200 m ³ /h
Head:	max. 150 m
Casing pressure:	max. 40 bar
Temperature:	max. 400 °C

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