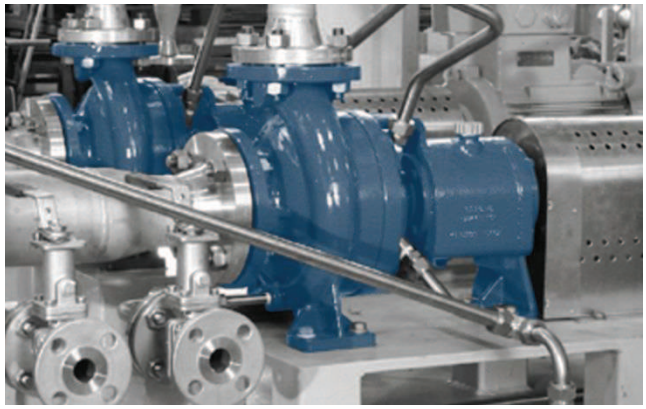
Modular Chemical Process Pumps

SIHI*ISOchem*

Type CBS, CBM, CBE

Technical Data

Flow rate:	max. 650 m³/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.

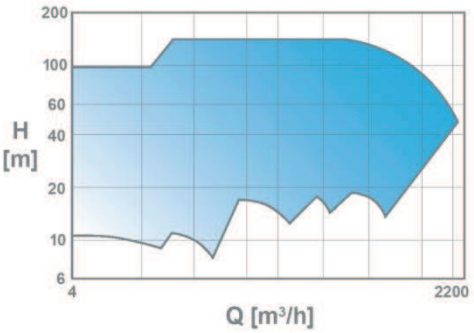
Flanges
According DIN EN 1092 or ANSI.

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

SIHI*ISOchem*



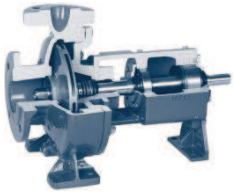
Chemical process pumps in the range **SIHI***ISOchem* are horizontal, single-stage volute casing pumps with designs that fully meets technical requirements of DIN EN **ISO 5199** and dimensions according DIN EN **ISO 2858**.

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.

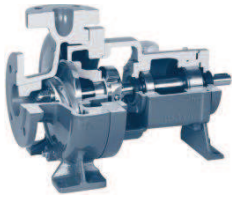
Hydraulics

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

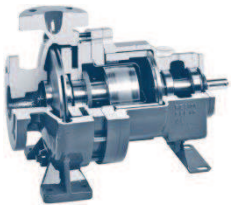
Bare shaft design



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

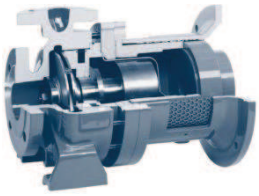


CBS with single or double-acting mechanical seal, shaft sleeve and oil lubricated ball bearings

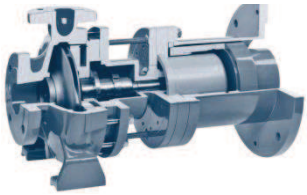


CBM with magnetic coupling according VDMA 24279

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

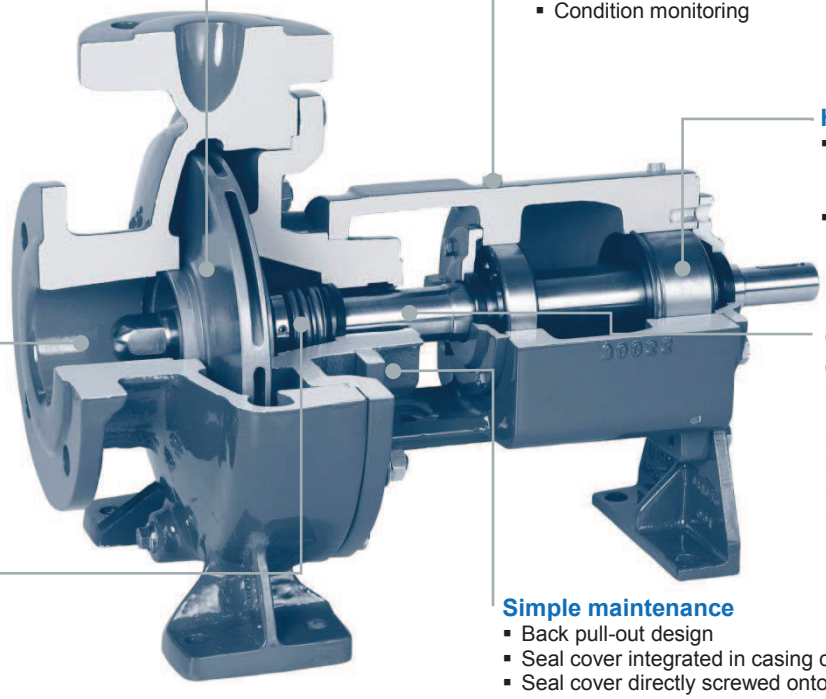
+ Low power consumption
+ Increased lifetime and longer maintenance intervals
+ Low installation cost
+ High level of availability and short supply times
+ Simple assembly and dismantling
+ Quick on-site servicing
+ Can be used where is a risk of explosion

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

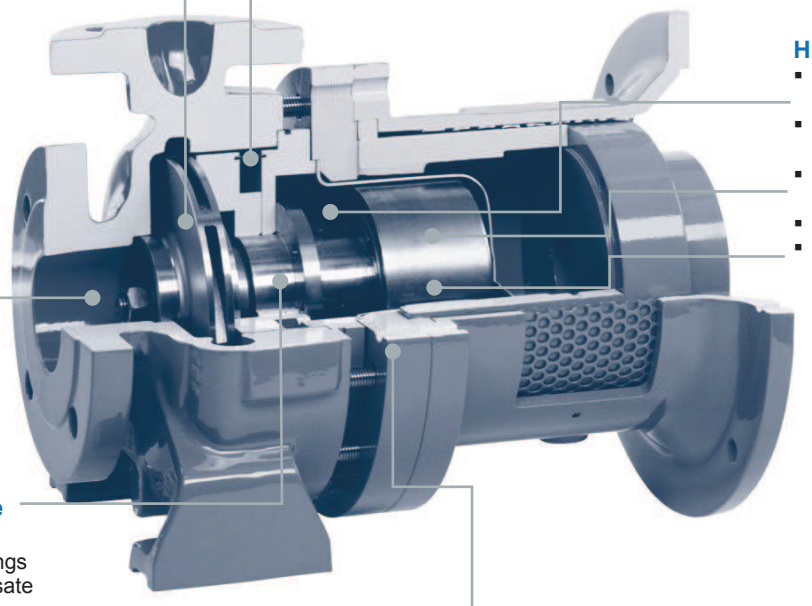
Simple maintenance
- Back pull-out design
- Seal cover integrated in casing cover
- Seal cover directly screwed onto volute casing
- Bearing bracket not subjected to pressure

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

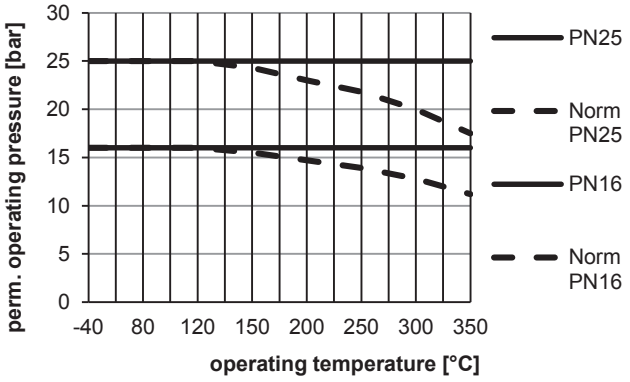
Speed

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						

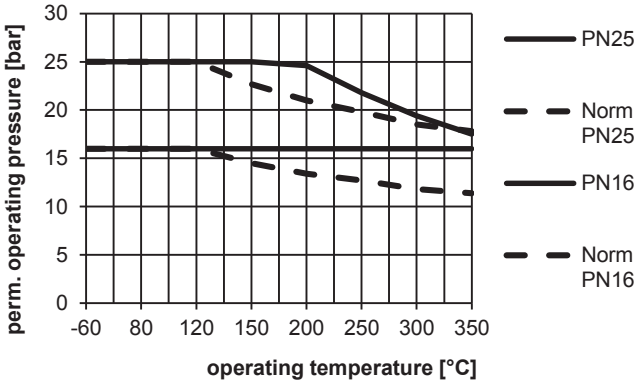
[1] Except impeller material GG-25: n_{max} = 2900 min^{-1}
[2] Except impeller material GG-25: n_{max} = 1800 min^{-1}

Casing pressure

Pressure - Temperature limits
Casing material: Ductile iron, Cast steel
Material design: 1B, 1E, 1R, 1U, 2B, 2E, 2U

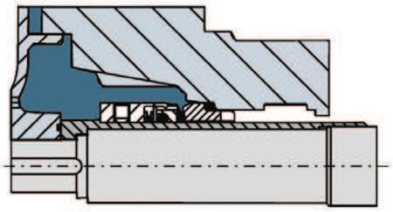


Pressure - Temperature limits
Casing material: Stainless steel, Hastelloy, Duplex
Material desing: 4B, 4K, 4L, 4R, 5G, 5H, 5K, 5L

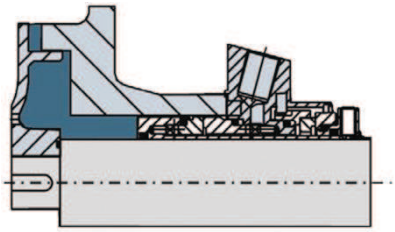


Shaft sealing

Mechanical seal designs

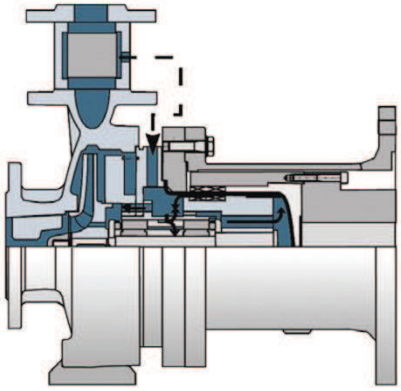


Single-acting mechanical seal

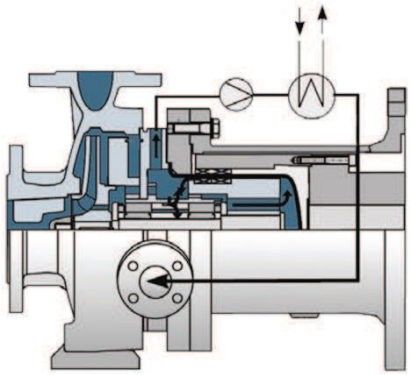


Mechanical seal, type Cartridge

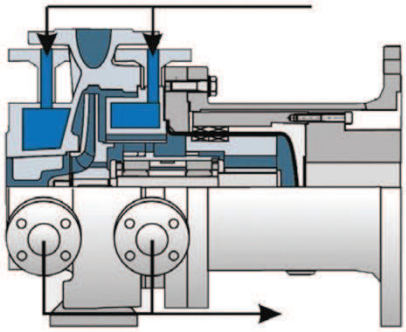
Magnetic coupling designs



Internal strainer



External partial flow

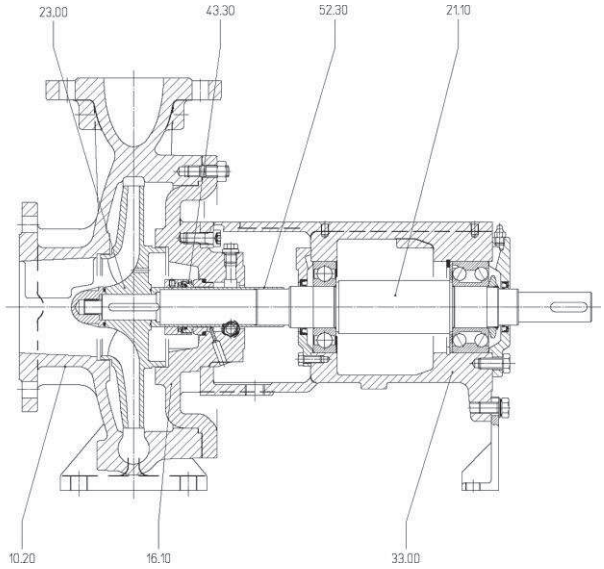


Heating jackets

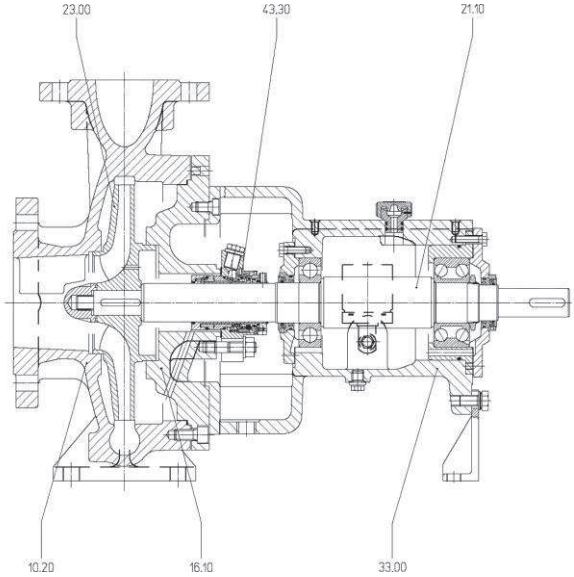
Sectional drawing and materials of construction

Bare shaft end design with mechanical seal

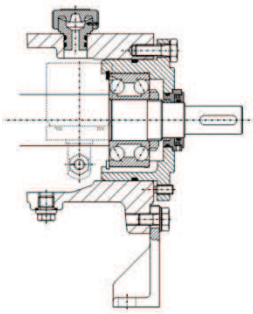
CBS with grease lubrication



CBS with oil lubrication



Design with external axial rotor adjustment



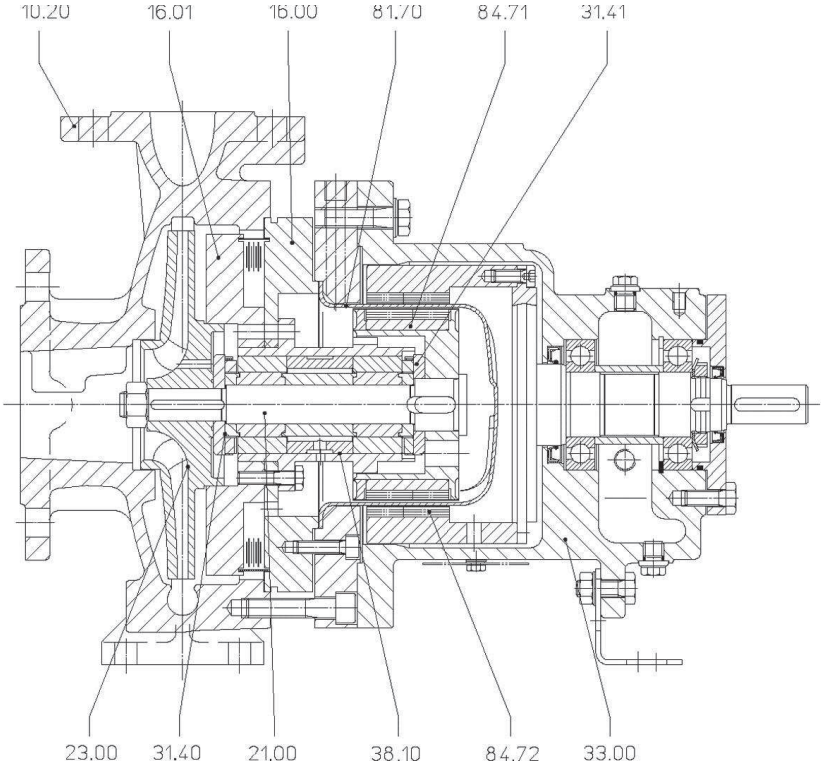
Materials of construction CBS

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



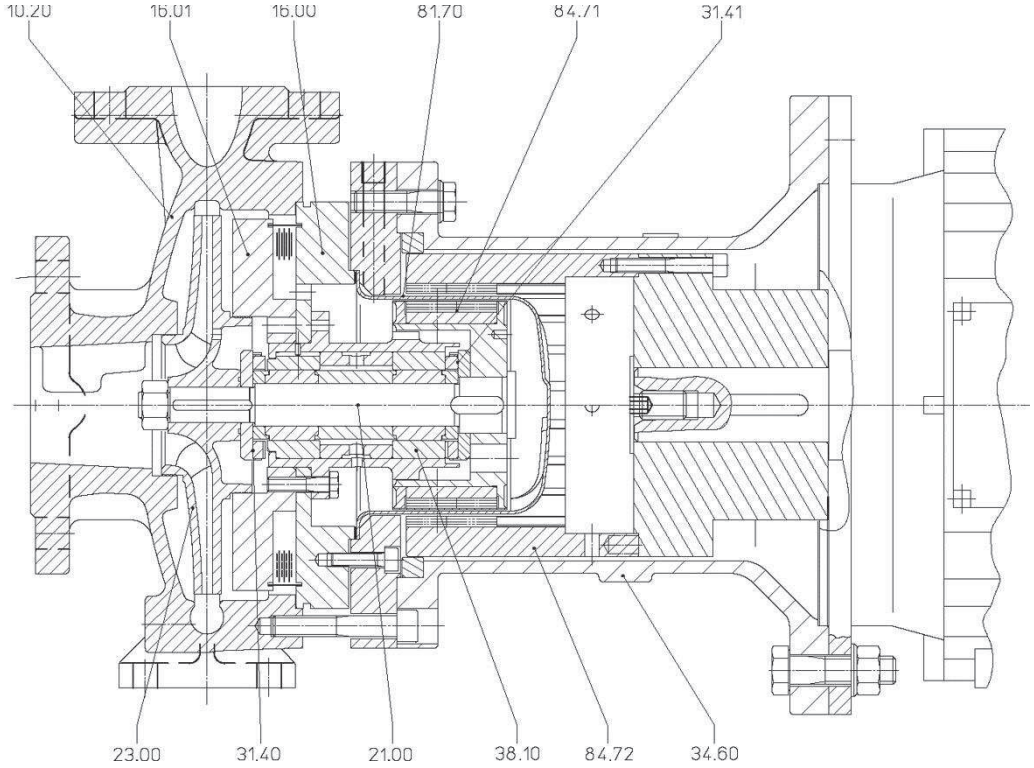
Materials of construction CBM

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)



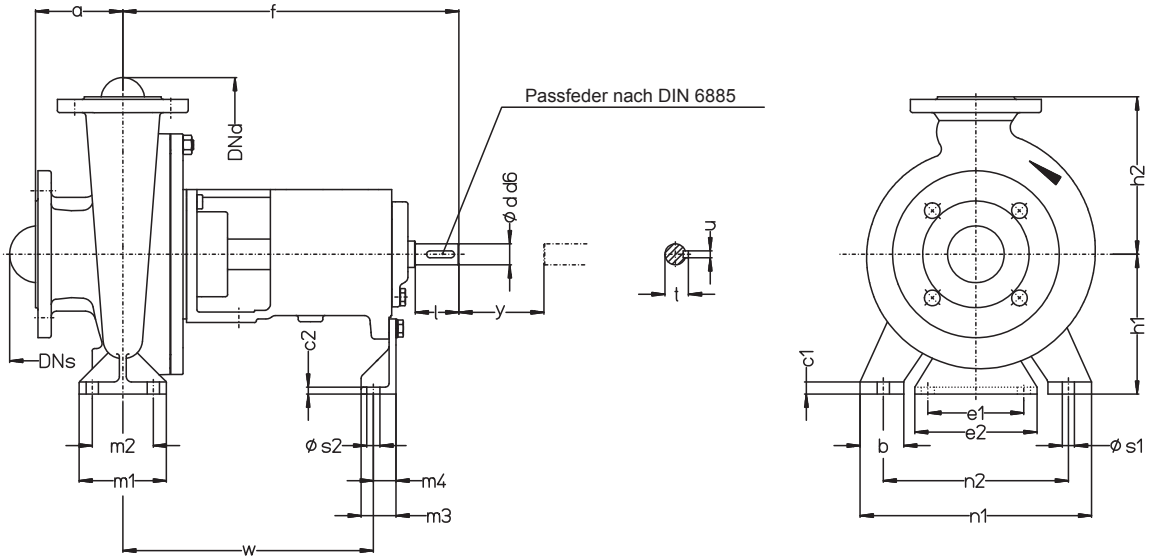
Materials of construction CBE

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

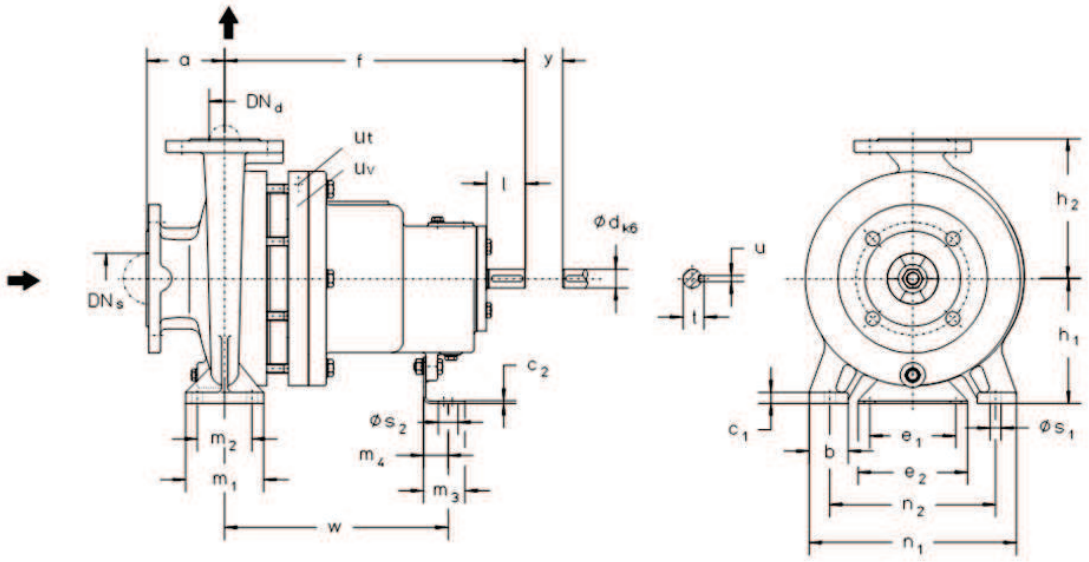
All dimensions in mm, tolerances to DIN EN 735

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						112	140								190	140											37
025160		25	40			132	160								240	190											55
025200	35			80	385	160	180	50			100	70									285	24	50	27	8		60
032125						112	140								190	140											38
032160		32	50			132	160								240	190											44
032200						160	180																				53
032250	45			100	500	180	225	65			125	95			320	250					370	32	80	35	10		91
040125				80		112	140								210	160											38
040160	35	40	65		385	132	160	50	14		100	70			240	190	14				285	24	50	27	8		45
040200				100		160	180								265	212											55
040250	45				500	180	225	65			125	95			320	250					370	32	80	35	10		93
040315				125		200	250								345	280											117
050160	35	50	80	100	385	160	180	50			100	70			265	212					285	24	50	27	8		54
050200							200																				58
050250	45			125	500	180	225	65		8	125	95	40	28	320	250		15	110	140	370	32	80	35	10	140	96
050315						225	280								345	280											122
065160		65	100	100		160	200								280	212											72
065200						180	225								320	250											83
065250				125		200	250	80	16		160	120			360	280	18										106
065315	55				530	225	280								400	315						42	110	45	12		136
080160						180	225	65	14		125	95			320	250	14										82
080200	45	80	125		500		250								345	280						32	80	35	10		92
080250						225	280	80	16		160	120			400	315	18				370						113
080315	55				530	250	315															42	110	45	12		147
080400			125			280	355								435	355											204
100200	45	100			500	200	280								360	280						32	80	35	10		106
100250	55			140	530	225									400	315						42	110	45	12		135
100315						250	315																				157
100400						280		100	18		200	150			500	400	23										199
125250		125	150			250	355	80	16		160	120			400	315	18										142
125315						280		100	18		200	150			500	400	23										176
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

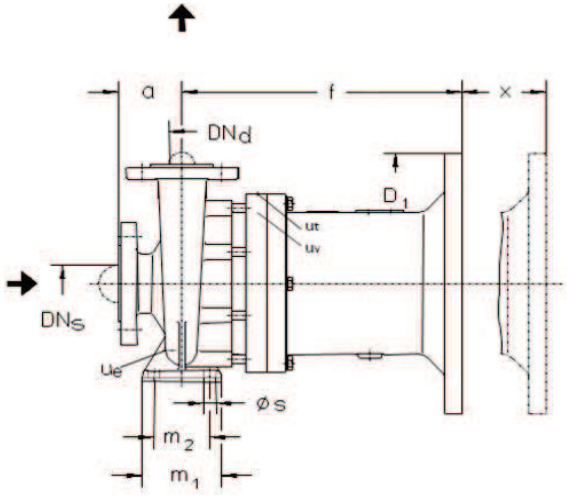
All dimensions in mm, tolerances to DIN EN 735

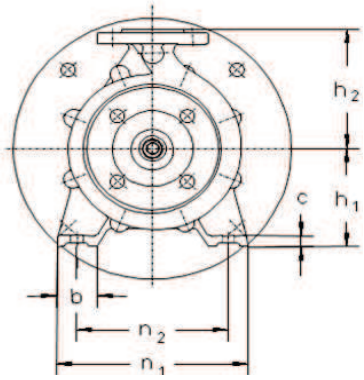
Size	Bearing bracket	Pump dimensions						Foot dimensions													Shaft end					Pump weight kg
		DN_d	DN_s	a	f	h_1	h_2	b	c_1	c_2	m_1	m_2	m_3	m_4	n_1	n_2	s_1	s_2	e_1	e_2	w	d	l	t	u	y	
025125	35	25	40	80	385	112	140	50	14	3	100	70	53	35	190	140	14	14	110	140	285	24	50	27	8	140	47
025160						132	160								240	190											57
025200						160	180																				76
032125		32	50			112	140								190	140											41
032160						132	160								240	190											57
032200						160	180																				76
032250	45			100	500	180	225				125	95	53		320	250					370	32	80	35	10		127
040125	35	40	65	80	385	112	140				100	70			210	160					285	24	50	27	8		59
040160						132	160								240	190											69
040200				100		160	180								265	212											79
040250	45				500	180	225	65			125	95			320	250					370	32	80	35	10		138
040315				125		200	250								345	280											260
050160	35	50	80	100	385	160	180	50			100	70	53		265	212					285	24	50	27	8		69
050200						160	200																				84
050250	45			125	500	180	225	65			125	95			320	250					370	32	80	35	10		167
050315						225	280								345	280											280
065160		65	100	100		160	200								280	212											75
065200						180	225								320	250											147
065250				125		200	250	80	16	8	160	120	40	28	360	280	18	15									256
065315	55				530	225	280								400	315						42	11	45	12		295
080160	45	80	125	125	500	180	225	65	14	3	125	95	53	35	320	250	14	14				32	80	35	10		107
080200						180	250								345	280											195
080250						225	280	80	16		160	120			400	315	18										261
080315	55				530	250	315						43	25								42	11	45	12		280
100160	45	100		140	515	200	280		20				53	35	360	280					385	32	80	35	10		217
100200				125	500	200	280																				207
100250	55			140	530	225	280		16				43	25	400	315					370	42	110	45	12		262
125250		125	150			250	355																				230

Table of dimensions

Close-coupled design with magnetic drive

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





U_t : Connection for temperature sensor G1/4

U_v : 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	80	50	14	262	112	140	100	70	190	140	14	90	200	42
	100L, 112M						272									250	
	132S, 132M						292									300	
025160	80M, 90S, 90L							132	160			240	190			200	54
	100L, 112M						302									250	
	132S, 132M						322									300	
	160M, 160L						352									350	
025200	90S, 90L						292	160	180							200	72
	100L, 112M						302									250	
	132S, 132M						322									300	
	160M, 160L						352									350	
	180M, 180L																
032125	80M, 90S, 90L	32	50				262	112	140			190	140			200	44
	100L, 112M						272									250	
	132S, 132M						292									300	
	160M, 160L						322									350	
032160	80M, 90S, 90L						292	132	160			240	190			200	57
	100L, 112M						302									250	
	132S, 132M						322									300	
	160M, 160L						352									350	
	180M, 180L																
032200	100L, 112M						302	160	180							250	76
	132S, 132M						322									300	
	160M, 160L						352									350	
	180M, 180L																
	200L															400	
032250	100L, 112M			100	65		302	180	225	125	95	320	250			250	127
	132S, 132M						322									300	
	160M, 160L						352									350	
	180M, 180L																
	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					14	292	132	160			240	190	14		200	59
	100L, 112M						302									250	
	132S, 132M						322									300	
	160M, 160L						352									350	
	180M, 180L																
040200	100L, 112M			100			302	160	180			265	212			250	79
	132S, 132M						322									300	
	160M, 160L,				50		352									350	
	180M, 180L																
	200L															400	
	225S, 225M						382									450	
040250	100L, 112M				65		302	180	225	125	95	320	250		100	250	138
	132S, 132M						322									300	
	160M, 160L						352									350	
	180M, 180L																
	200L															400	
	225S, 225M															450	
	250M, 280S						382									550	
040315	132S, 132M			125			402	200	250			345	280		130	300	260
	160M, 160L,						432									350	
	180M, 180L																
	200L															400	
	225S, 225M						462									450	
	250M, 280S, 280M															550	
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						292	160	180			265	212			200	69
	100L, 112M						302									250	
	132S, 132M						322									300	
	160M, 160L						352									350	
	180M, 180L																
	200L															400	
050200	100L, 112M						302									250	84
	132S, 132M						322									300	
	160M, 160L						352									350	
	180M, 180L																
	200L															400	
	225S, 225M															450	
	250M						382									550	
050250	100L, 112M			125	65		302	180	225	125	95	320	250		100	250	167
	132S, 132M						322									300	
	160M, 160L						352									350	
	180M, 180L																
	200L															400	
	225S, 225M															450	
	250M, 280S, 280M						382									550	
050315	132S, 132M						402	225	280			345	280		130	300	280
	160M, 160L						432									350	
	180M, 180L																
	200L															400	
	225S, 225M															450	
	250M, 280S, 280M						462									550	
	315S															660	

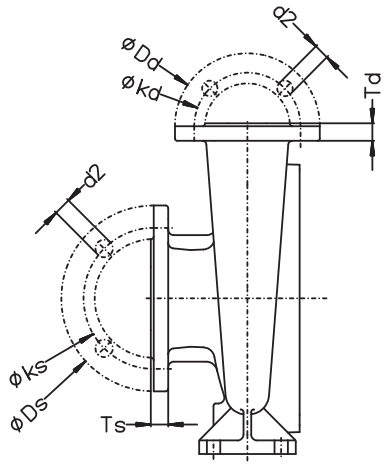
All dimensions in mm, tolerances to DIN EN 735

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
	100L, 112M						302									250	
	132S, 132M						322									300	
	160M, 160L						352									350	
	180M, 180L																
	200L															400	
065200	100L, 112M						302		225			320	250			250	147
	132S, 132M						322									300	
	160M, 160L						352	180								350	
	180M, 180L																
	200L															400	
	225S, 225M															450	
	250M, 280S						382									550	
065250	132S, 132M			125	80	16	402	200	250	160	120	360	280	18	130	300	256
	160M, 160L						432									350	
	180M, 180L																
	200L															400	
	225S, 225M															450	
	250M, 280S, 280M						462									550	
	315S															660	
065315	132S, 132M						417	225	280			400	315			300	295
	160M, 160L						447									350	
	180M, 180L																
	200L															400	
	225S, 225M															450	
	250M, 280S, 280M						477									550	
	315S															660	
080160	100L, 112M	80	125	125	65	14	302	180	225	125	95	320	250	14	90	250	107
	132S, 132M						322									300	
	160M, 160L						352									350	
	180M, 180L																
	200L															400	
	225S, 225M															450	
	250M						382									550	
080200	132S, 132M						402		250			345	280		120	300	195
	160M, 160L						432									350	
	180M, 180L																
	200L															400	
	225S, 225M															450	
	250M, 280S, 280M						462									550	
080250	132S, 132M				80	16	402	225	280	160	120	400	315	18	130	300	261
	160M, 160L						432									350	
	180M, 180L																
	200L															400	
	225S, 225M															450	
	250M, 280S, 280M						462									550	
	315S															660	
100200	132S, 132M	125	100	125	80	16	402	200	280	160	1200	360	280	18	115	300	207
	160M, 160L						432									350	
	180M, 180L																
	200L															400	
	225S, 225M															450	
	250M, 280S, 280M						462									550	
	315S, 315M															660	
100250	132S, 132M			140			417	225				400	315		130	300	274
	160M, 160L						447									350	
	180M, 180L																
	200L															400	
	225S, 225M															450	
	250M, 280S, 280M						477									550	
	315S, 315M															660	

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																
	200L															400	
	225S, 225M															450	
	250M, 280S, 280M						477									550	
	315S, 315M															660	
125250	160M, 160L	125	150	140	80	16	447	250	355	160	120	400	315	18	130	350	300
	180M, 180L																
	200L															400	
	225S, 225M															450	
	250M, 280S, 280M						477									550	
	315S, 315M															660	
125315	160M, 160L				100	18	447	280		200	150	500	400	23		350	364
	180M, 180L																
	200L															400	
	225S, 225M															450	
	250M, 280S, 280M						477									550	
	315S, 315M															660	
150250	160M, 160L	150	200	160	100	20	447	280	375	200	150	500	400	22	130	350	300
	180M, 180L																
	200L															400	
	225S, 225M															450	
	250M, 280S, 280M						477									550	
	315S, 315M															660	

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

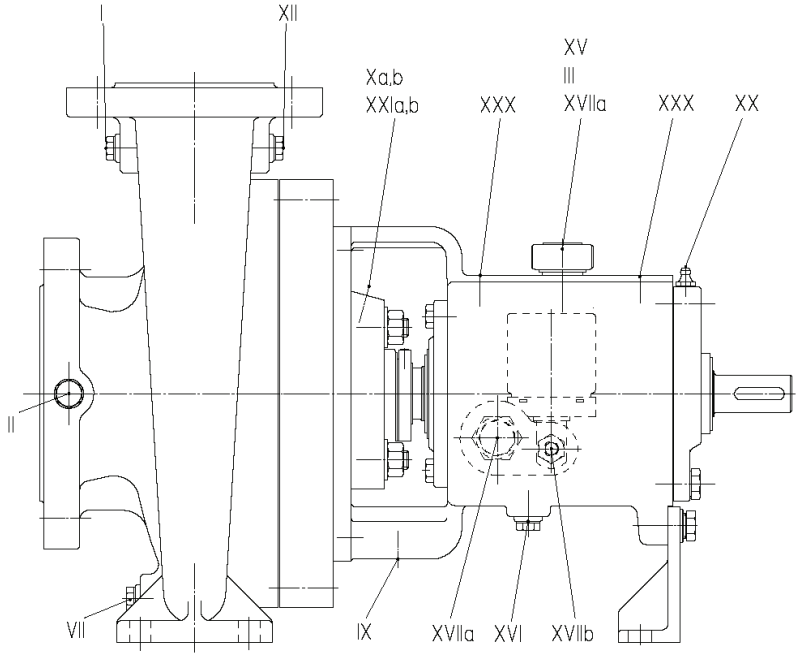
[2] Execution 1" on suction side (DN40) with 4 x threads ½” – 13 UNC

All dimensions in mm, tolerances to EN 735

Size			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	
	DN_d	DN_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
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																		
040125	40	65	150	20	191	24	150	22	185	22	150	18	191	22	-	-	-	-
040160								18	191						150	18	191	22
040200																		
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	65	100	191	24	235	28	191	22	235	24	191	22	235	25	191	22	235	24
065200																		
065250																		
065315														26				
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

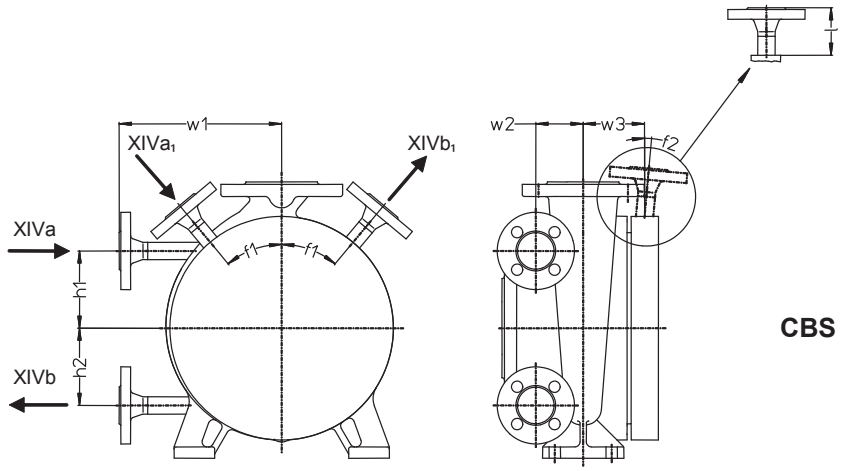
CBS



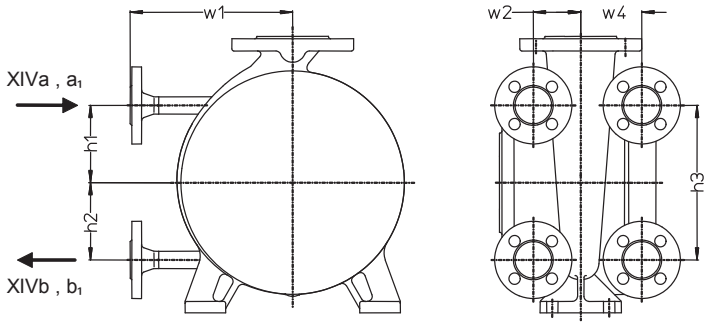
Pos.	Description	Execution	Connection
I	Pressure gauge	By request	G ¼ / G ½[1)]
II	Vacuum and pressure gauge	By request	G ¼ / G ½[1)]
III, XV	Vent, Oil filling	For oil lubrication	∅ 20
VII	Drain	By request	G ¼ / G ⅜[1)]
IX	Drainage of leakage	By request	G ½
Xa, b	Sealing liquid, inlet/outlet	Execution 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	∅ 20 G ½
XVIIb	Oil level controller	Execution with oil level controller	G ¼
XX	Grease lubrication	For grease lubrication	⅛“
XXIa,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



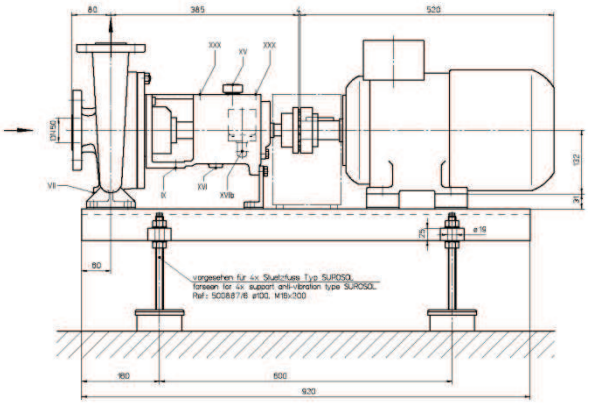
CBM/CBE with heating jacket

XIVa,a_1 = heating jacket connection - inlet
XIVb,b_1 = heating jacket connection - outlet

All dimension in mm or °, tolerances to EN 735

Size	Bearing bracket	Values of connections										
		h_1	h_2	h_3	w_1	w_2	w_3	w_4	f_1	f_2	l	Flange
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			
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			
040315		125	125	-		75	93	-		10		
050160	35	87	87	152	175	50	77	70	55			
050200		100	100	162	205	55	66	67		0		
050250	45	120	120	-	200	75	76	-	35			
050315				-	230	85	93	-		10		
065160		92	63	152	188	55	73	70	55	0		
065200		110	110	-	210	60	76	-				
065250		115	115	174	235	75	77	83		10		
080160		130	130	-	215	80	73	80		0		
080200		115	115	-	220	75	81	75		10		
100200		135	135	-	215	80	80	-				

Foundation plans



Detailed foundation plans are available on request.
These plans can also 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 m³/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 m³/h
Head:	max. 150 m
Casing pressure:	max. 40 bar
Temperature:	max. 400 °C

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