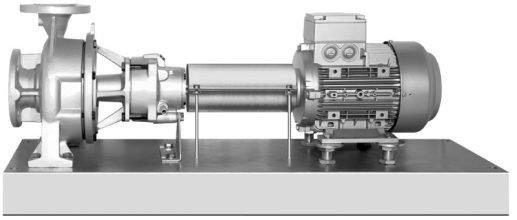
Volute Centrifugal Pumps PN 16 / PN 25 for Heat Transfer Media Thermal Oil up to 350 °C Hot Water up to 204 °C

ALLHEAT®

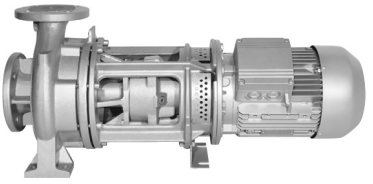
Series NTWH/CTWH process model

Series NBWH/CBWH block model

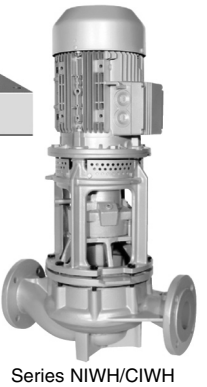
Series NIWH/CIWH in-line model



Series NTWH/CTWH



Series NBWH/CBWH



Series NIWH/CIWH

Application
For circulating heat transfer media such as thermal oil or hot water in heat transfer systems (DIN 4754 and 4752). The media to be pumped may not contain any abrasive constituents or chemically attack the pump material.

Series
All series may be used with organic and synthetic thermal oils at temperatures up to 660 °F (350 °C).

The series NTWH, NBWH and NIWH (PN 16) can be used with hot water at temperatures up to 360 °F (183 °C). The series CTWH, CBWH and CIWH (PN 25) at temperatures up to 400 °F (204 °C).

The application limits are specified in the table "Application Limits" and in the diagram "Pressure/Temperature Limits (Diagram on page 2).

Design
Series NTWH/CTWH:
Horizontally foot mounted end suction casing with top discharge port mounted on centerline, including single end suction impeller, steel shaft with product lubricated carbon sleeve inboard bearing, single unbalanced mechanical seal and prelubricated non washable grease outboard bearing. Silicon Carbide inboard sleeve bearings with balance mechanical seals are available for hot water applications.
Series NBWH and CBWH:
Foot mounted "block" style pump identical to above except less outboard bearing and with a flange mounted motor. The motor stub shaft is inserted into the pump coupling and the motor inboard bearing is grease prelubricated and acting as the pump thrust bearing as well. Horizontal and vertically upward mounting permissible.
Series NIWH and CIWH:
Inline mounted pipe or pedestal supported with a side suction / side discharge inline ports, otherwise identical to the block style pump above. For vertically upward mounting only.

Shaft seal
Uncooled, balanced or unbalanced, maintenance-free mechanical seals acc. to DIN 24 960.
A safety gland and a subsequent throttle/cooling section are provided upstream of the shaft seal.

Shaft seal			
Product code	Material type		Material code DIN 24 960
U2.11A balanced mechanical seal	Sliding ring	Carbon graphite, anitmony impregnated	A
	Counter ring	SiC, silicone carbide	Q
	O-ring	Rubber fluoride (FPM)	V
U3.3A unbalanced mechanical seal	Spring	CrNiMo steel	G
	other design components	CrNiMo steel	G

Flanges
Flange connection dimension correspond to EN 1092-2, PN 16 or PN 25.

Performance data at 60 Hz

Series	permissible internal pump pressure ● p [bar]	max. pump output Q [GPM]	max. pump heat H [A]
NTWH	= 16	6000	330
NBWH		1200	330
NIWH		970	330
CTWH	= 25	6000	330
CBWH		1100	300
CIWH		460	260

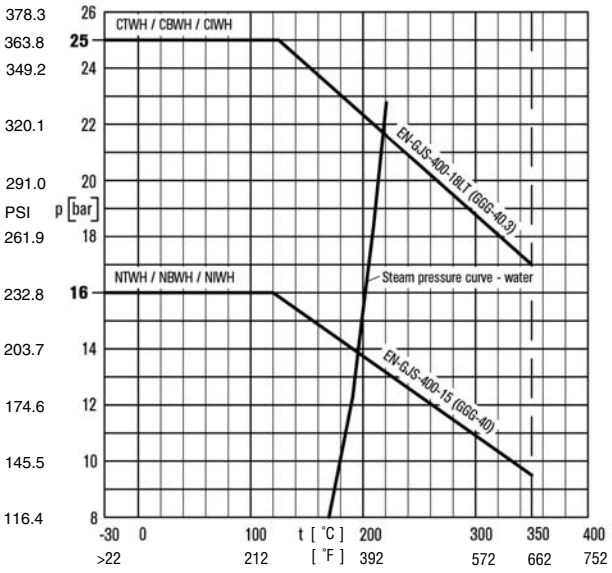
● The entry pressure and pressure during zero flow rate may not exceed the specifed values. for permissible values per series, see diagram on page 2.

The mentioned performance data are to be considered as a product and performance abstract only. The particular operating limits can be taken from the quotation or order acknowledgement.

Application limits					
Series	permissible internal pump pressure	Mechanical seal Bearing type	permissible suction pressure	Hot water ●	Thermal oil ●
NTWH NBWH NIWH	p = 16 bar	U3.3A - K1 U2.11A - S1	p = 12 bar	t = + 360 °F	t = -30 °C up to + 350 °C
CTWH CBWH CIWH	p = 25 bar	U3.3A - K1			
		U2.11A - S1	p = 22 bar	t = + 400 °F	

● Requirement to hot water quality: Water with low salt content or deionised water acc. to VdTÜV Directive 02.89 TCH 1466 solids content < 5mg/l, without settling additives.
● Toxic thermal oils are not hermetically sealed from the environment. In this case we recommend the use of our magnetically coupled pumps.

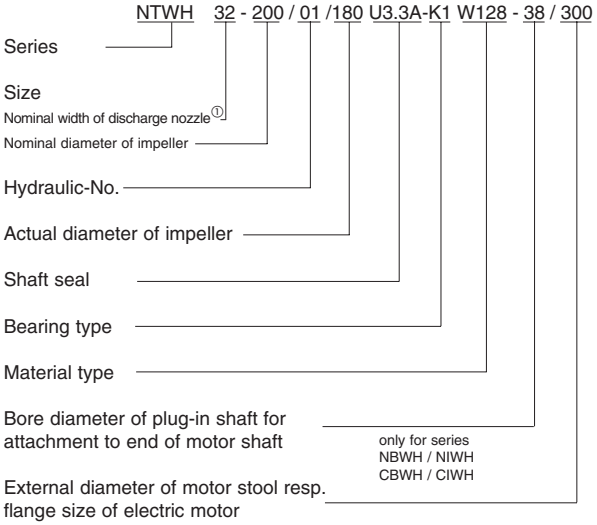
Pressure and temperature limits depending on housing materials



Materials (Specifications are nearest to the actual standard shown)

DENOMINATION	Part No.	Series	
		NTWH NBWH NIWH	CTWH CBWH CIWH
		Material type	
		W128	W110
Volute casing ②	102.01	EN-GJS-400-15 (GGG-40)	EN-GJS-400-18LT (GGG-40.3)
Impeller	230.01	EN-GJL-200 (GG-20)	
Casing cover	161.01	EN-GJS-400-18LT (GGG-40.3)	
Shaft	210.01	1.4021	
Plug-in-shaft	220.01	1.4021 / 1.7139	
Bearing bracket	330.01	EN-GJS-400-18lt (GGG-40.3)	
Motor stool	341.01	EN-GJL-250 (GG-25)	
Intermediate ring	509.01	EN-GJS-400-15 (GGG-40)	EN-GJS-400-18LT (GGG-40.3)
Bearing sleeve-S1	529.01	SSiC	
Bearing bush-S1	545.01	SSiC	
Bearing bush-K1	545.01	Carbon / 1.7139	

Abbreviation



① For series CIWH ACTUAL width of discharge nozzle

The abbreviation is displayed on the nameplate.

Bearing and lubrication

NTWH/CTWH
Pump side: Sleeve bearing, lubricated by pumped medium
Drive side: Deep groove ball bearing, grease-lubricated

NBWH/CBWH/NIWH/CIWH
Pump side: Sleeve bearing, lubricated by pumped fluid
Drive side: Deep groove ball bearing of drive motor, grease-lubricated

Connections
The following connections are always provided:

FD1 Draining
FD2 Draining
FF2 / FV1 Filling / Bleeding
FF4 / FV4 Filling / Bleeding
(only for vertical block and in-line installation)
LO1 Leakage outlet*

* According to DIN 4754 for non-hazardous draining of heat transfer medium leaking from the shaft seal.

Component combinations
The tables on page 5 and 6 shows the possible combinations of components for the ALLHEAT sizes.

Due to the modular design, spare parts management is simplified.

Removal of Back Pull-Out unit NTWH/CTWH
Where a spacer coupling is used, the back pull-out unit can be removed towards the motor side, whilst the volute casing and the motor may remain on the base plate and the pipes connected to the volute casing.

Dismantling of drive unit NBWH/CBWH/NIWH/CIWH
During dismantling of the drive unit, the volute casing can remain in the pipeline.

Shaft coupling and contact protection
Elastic shaft coupling acc. to DIN 740 with or without spacer section. A coupling guard is supplied as a contact protection acc. to DIN EN 294 (DIN 31001), where the scope of delivery includes a pump, base plate and shaft coupling.

Option:
Equipped with an elastic torsionally double cardanic spacer coupling (base plate must have been adapted).
We recommend the use of double cardanic spacer couplings under the following operating conditions:

- In case of changing temperatures of the pumped medium
- In case of changing ambient temperatures or ventilation
- In case of plants that are sensitive to vibration

Series NTWH and CTWH with a nominal impeller diameter of 315 and 400, a double cardanic spacer coupling at temperatures greater than 400 °F is supplied as standard.

② Series CTWH 150-400/11, 150-500/11 and 200-500/11 in material type GS-C25.

Base plate series NTWH/CTWH
Warp-resistant base plate made from steel, U section steel or cast iron including collecting channel (see separate installation plans).

For couplings with / without spacers:

	Installation plan VM 854 D/GB/F/...			
	U section steel		Cast-iron plates	
	without	with	without	with
Single joint couplings Double cardanic couplings	3100 -... 3500 -...	3200 -... 3600 -...	3300 -... 3700 -...	3400 -... 3800 -...

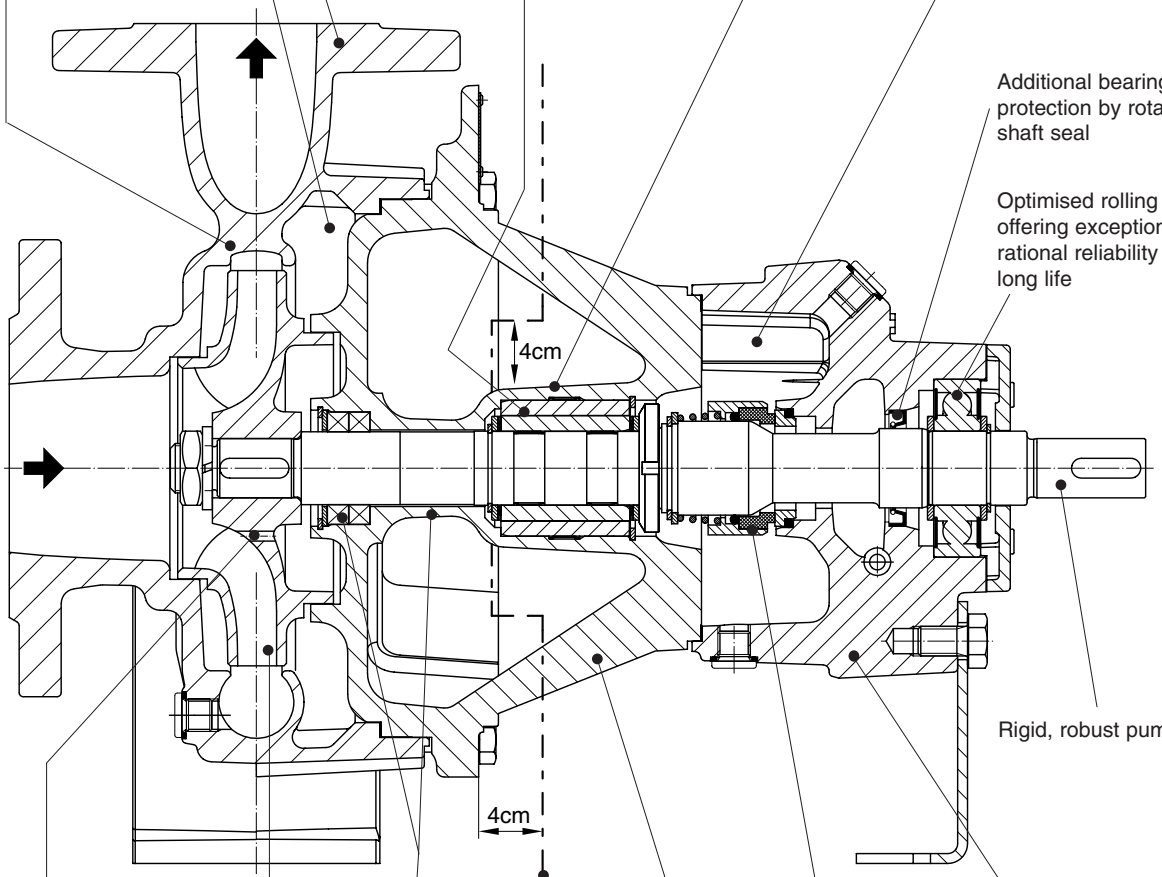
Drives supplied from ALLWEILER
Surface-cooled IEC three-phase cage motors; model IM B3, protection type IP 55, insulation class F, performances and main dimensions acc. to DIN 42 673.

Attention: Motors provided by the client must be able to generate a cooling airflow in axial direction to the pump side that unimpededly contacts the pump surface. It must also be ensured that any heat can be freely dissipated into the atmosphere.

Block and **in-line pumps of series NBWH, CBWH, NIWH, CIWH**
Driven by surface-cooled IEC three-phase cage motors with axial thrust bearing, model IM V1, protection type IP55, insulation class F, performances and main dimensions acc. to DIN 42 677.

Attention: Motors provided by the client must contain a axial thrust bearing on the drive side for block or in-line pumps.

Sectional drawing - series NTWH / CTWH



Pressure-containing casing parts in nodular cast iron for high operational reliability

Wear-resistant casing design

Maintenance-friendly design, easy to dismantle, pump housing can remain in pipework

Solid sliding bearing, lubricated with pumped medium, due to low temperature level, no evaporation of pumping medium, offering a high carrying force and long life, available in SSiC/SSiC or carbon/ steel

Optimum temperature reduction, due to long cooling-off section and large surface area of the sealing space, no additional cooling is required

Large sealing area special design to prevent the rotation of gas bubbles and partial dry running of the mechanical seal

Additional bearing protection by rotary shaft seal

Optimised rolling bearing offering exceptional operational reliability and long life

Rigid, robust pump shaft

Low axial thrust on shaft bearing as a result of hydraulically-balanced impellers

Thermal isolation of volute casing is allowed up to this line

Optimised modular system as a result of using identical parts for the process, block and in-line models

Impellers with optimised hydraulics and excellent efficiency

Added operational reliability due to safety stuffing box followed by a throttle and cooling section

High mechanical stability and strength due to optimum stiffening ribs arrangement

Balanced or unbalanced, maintenance-free standard mechaincal seal with chambered O-ring, no additional cooling

Interchangability of components on bearing bracket sizes 1 and 2
Parts with the same number are interchangeable within a vertical column.

Bearing bracket size	Pump size	Series			Volute casing		Impeller	Intermediate ring	Casing cover	Bearing bracket	Shaft	Bearing sleeve	Bearing bush	Supporting foot		Plug-in shaft	Motor stool
					NTWH NBWH	NIWH										Assignment to sizes depends on the speed, motor output and motor model	
		NTWH	NBWH	NIWH										NTWH	NBWH		
1	25-160/11	•	•	-	1	-	1	-	1	1	1	1	1	1	1	19 24 28 38 42 48 55	200 200 250 300 350 350 400
	25-200/01	•	•	•	2	1	2							2	2		
	32-160/01	•	•	•	3	2	3							1	1		
	32-200/01	•	•	•	4	3	4							2	2		
	40-160/01	•	•	•	5	4	5							1	1		
	40-200/01	•	•	•	6	5	6							2	2		
	40-250/01	•	•	•	7	6	7	1						3	3		
	50-160/01	•	•	•	8	7	8	-						2	2		
	50-200/01	•	•	•	9	8	9							2	2		
	50-250/01	•	•	•	10	9	10	1						3	3		
	65-160/01	•	•	•	11	10	11	-						2	2		
	65-200/02	•	•	•	12	12	12	1						3	3		
	80-160/01	•	•	•	13	13	13	-						3	3		
	100-160/01	•	•	-	14	-	14							4	4		
2	65-250/01	•	-	-	15	-	15	-	2	2	2	2	2	5	-	-	-
	65-315/01	•			16		16	2						6			
	65-400/01	•			17		17	3						7			
	80-200/02	•			18		18	-						8			
	80-250/01	•			19		19							5			
	80-315/01	•			20		20	2						7			
	100-200/01	•			21		21	-						5			
	100-250/01	•			22		22							6			
	100-315/01	•			23		23	2						7			
	125-200/01	•			24		24	-						7			
	125-250/01	•			25		25							7			
	150-200/01	•			26		26							8			

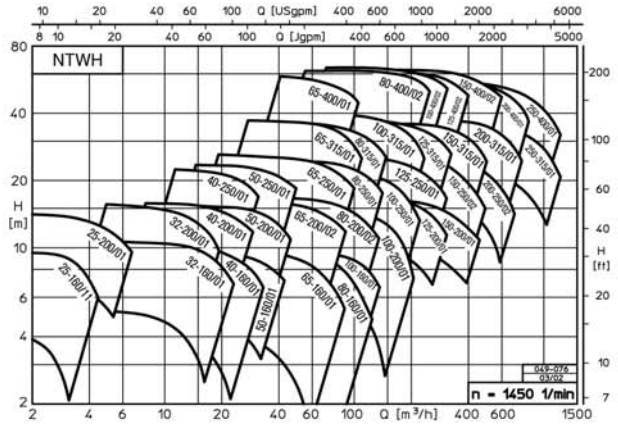
Bearing bracket size	Pump size	Series			Volute casing		Impeller	Intermediate ring	Casing cover	Bearing bracket	Shaft	Bearing sleeve	Bearing bush	Supporting foot		Plug-in shaft	Motor stool
					CTWH CBWH	CIWH										Assignment to sizes depends on the speed, motor output and motor model	
		CTWH	CBWH	CIWH										CTWH	CBWH		
1	25-160/11	•	•	-	27	-	1	-	1	1	1	1	1	1	1	19 24 28 38 42 48 55	200 200 250 300 350 350 400
	25-200/01	•	•	32-200/11	28	14	2							2	2		
	32-160/11	•	•	40-160/11	29	15	3							1	1		
	32-200/11	•	•	40-200/11	30	16	4							2	2		
	40-160/11	•	•	50-160/11	31	17	5							1	1		
	40-200/11	•	•	50-200/11	32	18	6							2	2		
	50-160/11	•	•	65-160/11	33	19	8							2	2		
	50-200/11	•	•	65-200/11	34	20	9							2	2		
	65-160/11	•	•	-	35	-	27							2	2		
	80-160/11	•	•	-	36	-	28							3	3		
2	32-250/11	•	-	-	37	-	29	-	2	2	2	2	2	8	-	-	-
	40-250/11	•			38		30							8			
	40-315/11	•			39		31	4						5			
	50-250/11	•			40		32	-						8			
	50-315/11	•			41		31	4						6			
	65-200/11	•			42		33	-						8			
	65-250/11	•			43		15							5			
	80-200/01	•			44		34							8			
	80-250/01	•			45		19							6			
	100-200/11	•			46		21							5			

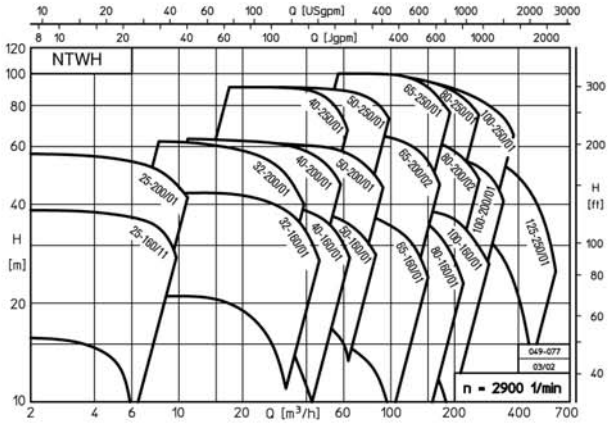
Interchangability of components on bearing bracket sizes 3 and 4
Parts with the same number are interchangeable within a vertical column.

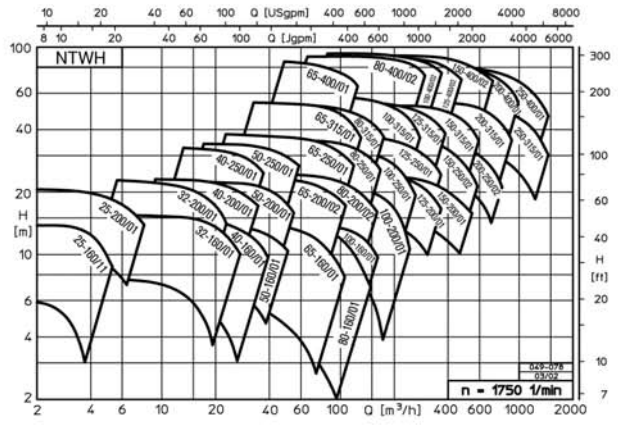
Bearing bracket size	Pump size	Series NTWH	Volute casing	Impeller	Inter-mediate ring	Casing cover	Bearing bracket	Shaft	Bearing sleeve	Bearing bush	Supporting foot
3	80-400/02	•	1	1	1	1	1	1	1	1	1
	100-400/02	•	2	2							1
	125-315/01	•	3	3	-						1
	125-400/02	•	4	4	1						2
	150-250/02	•	5	5	-	2					1
	150-315/01	•	6	6		1					1
	150-400/02	•	7	7	1						2
	200-250/02	•	8	8	-	2					3
4	200-315/01	•	9	9	-	3	2	2	2	2	4
	200-400/01	•	10	10							4
	250-315/01	•	11	11							5
	250-400/01	•	12	12							5
Bearing bracket size	Pump size	Series CTWH	Volute casing	Impeller	Inter-mediate ring	Casing cover	Bearing bracket	Shaft	Bearing sleeve	Bearing bush	Supporting foot
3	65-315/11	•	13	13	-	1	1	1	1	1	6
	80-315/11	•	14	14							7
	80-400/11	•	15	15	2						1
	100-250/11	•	16	16	-	2					6
	100-315/11	•	17	17		1					7
	100-400/11	•	18	18	2						1
	125-250/11	•	19	19	-	2					7
	125-315/11	•	20	20		1					1
	125-400/11	•	21	21	2						2
	150-250/01	•	22	22	-	2					1
	200-250/01	•	23	23							3
4	150-315/11	•	24	24	-	3	2	2 2	2		6
	150-400/11	•	25	25							6
	150-500/11	•	26	26	3						7
	200-315/01	•	27	9	-						4
	200-400/01	•	28	10							4
	200-500/11	•	29	27	3						8
	250-315/01	•	30	11	-						5
	250-400/01	•	31	12							5

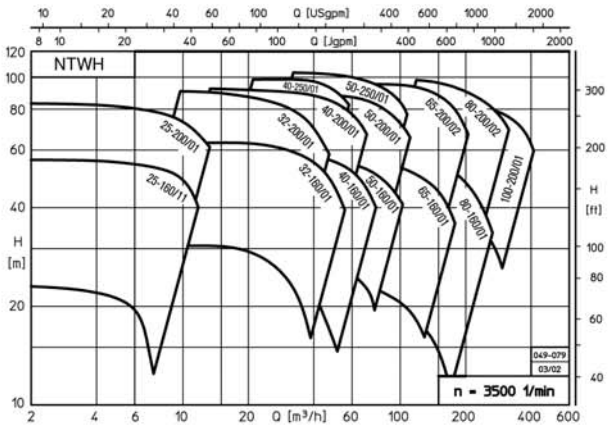
Performance graphs
Series NTWH

For exact performance data please refer to the individual characteristics.

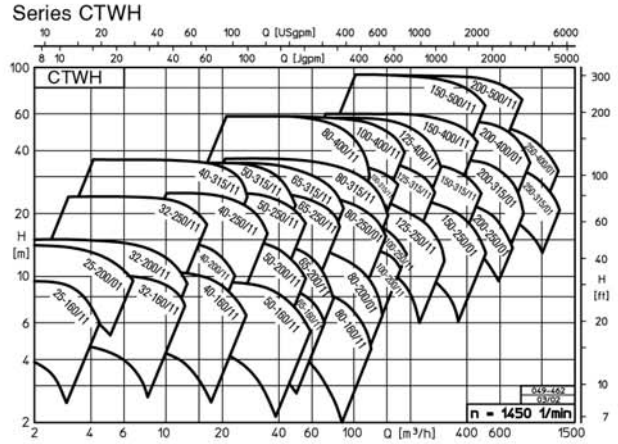


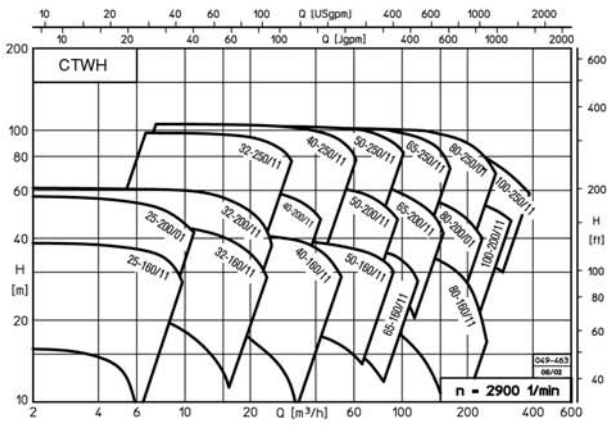


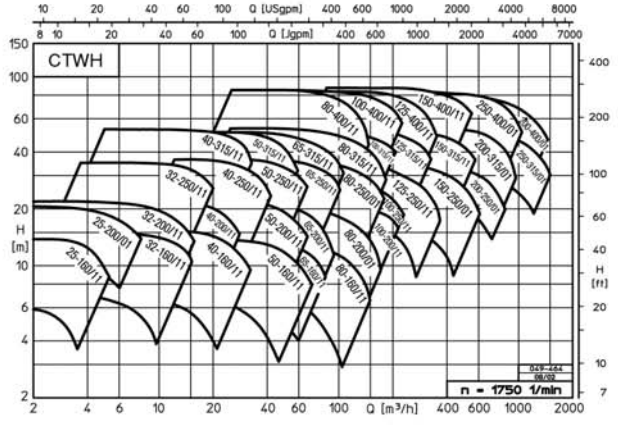


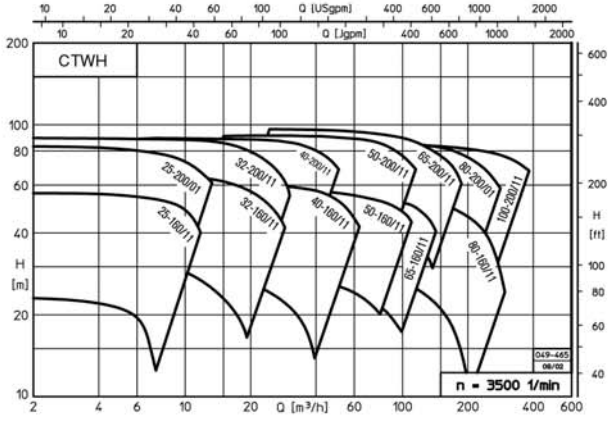


Series CTWH





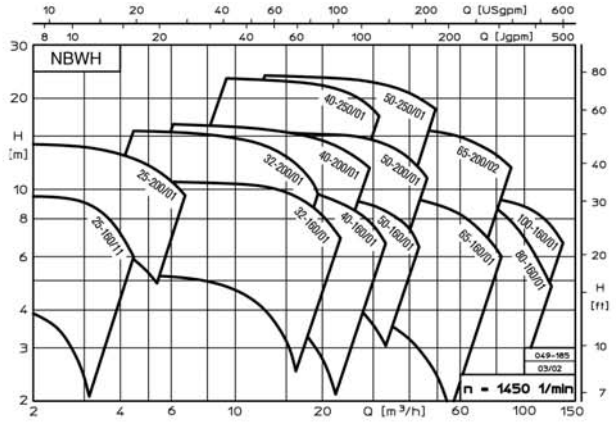


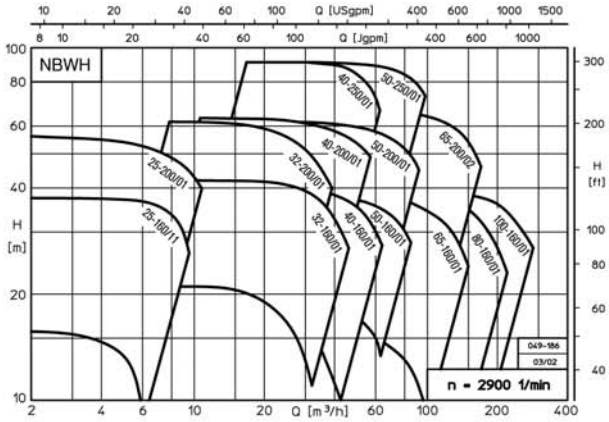


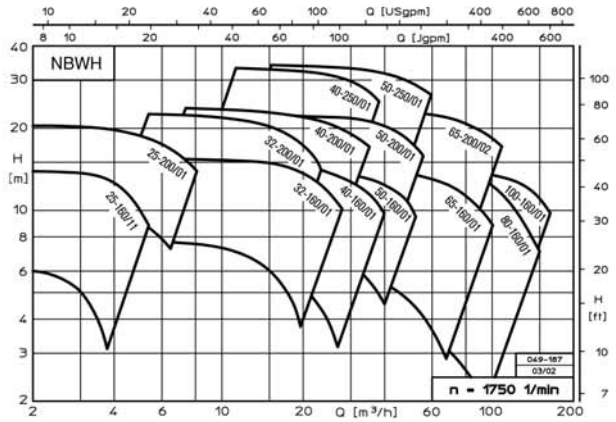
Performance graphs

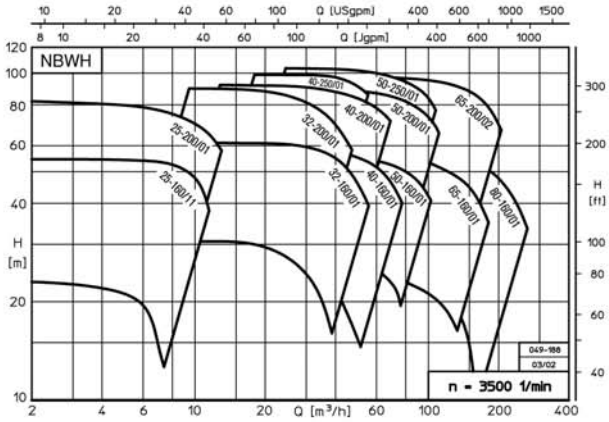
For exact performance data please refer to the individual characteristics.

Series NBWH

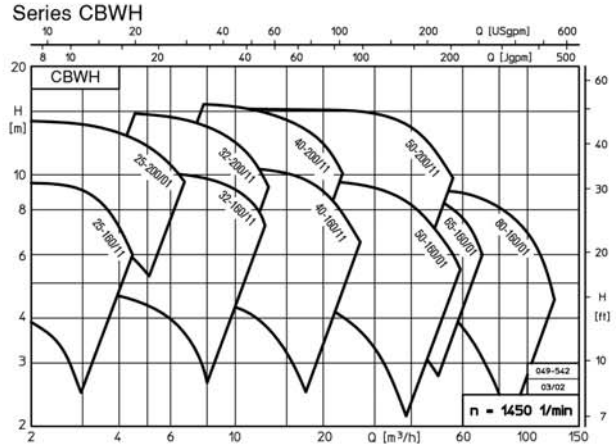


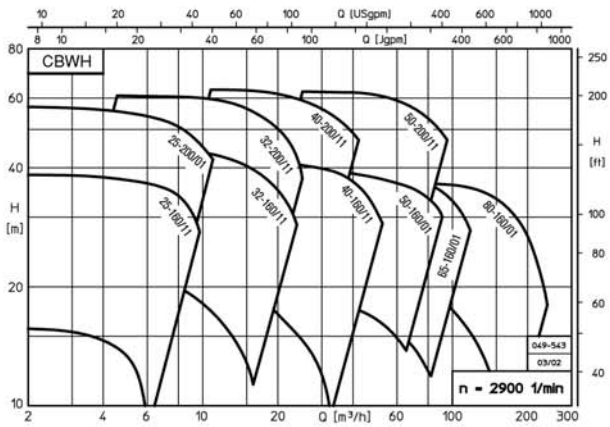


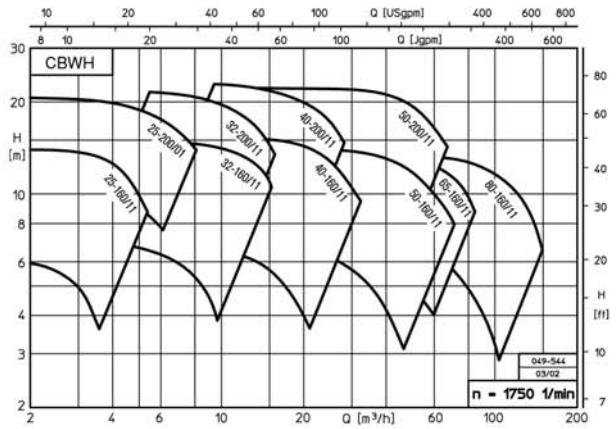


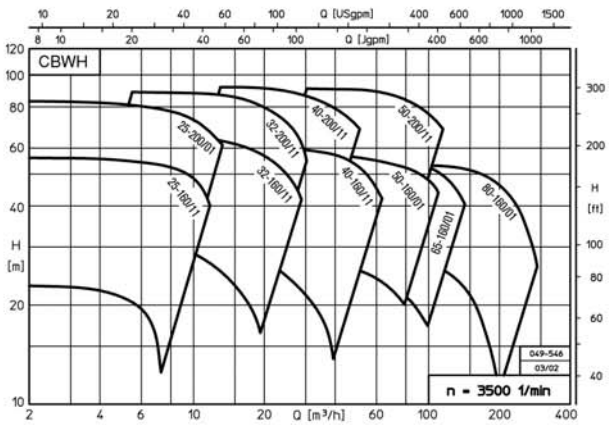


Series CBWH





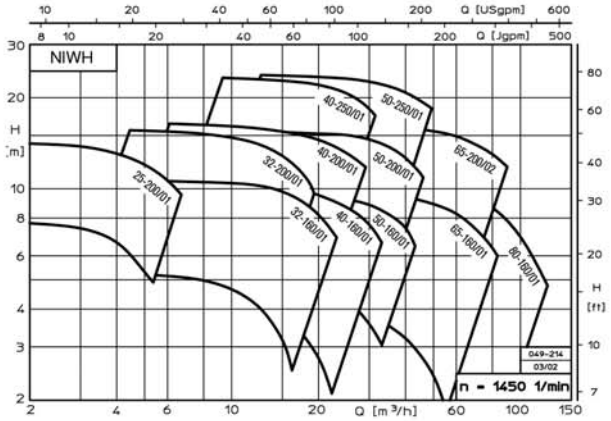


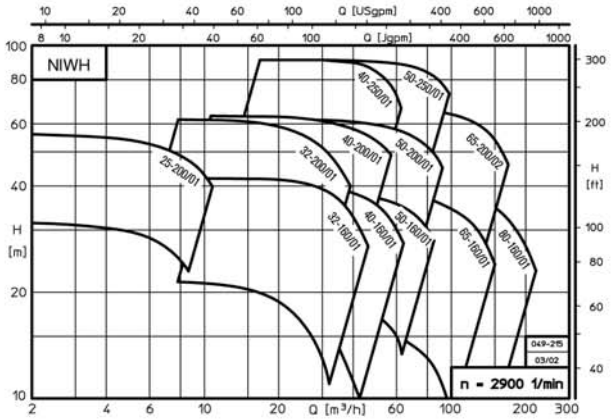


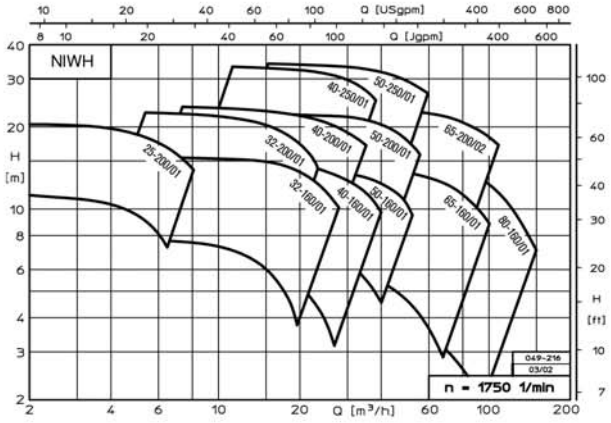
Performance graphs

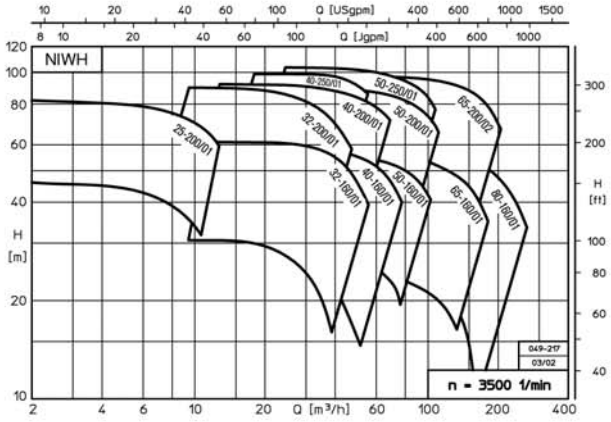
For exact performance data please refer to the individual characteristics.

Series NIWH

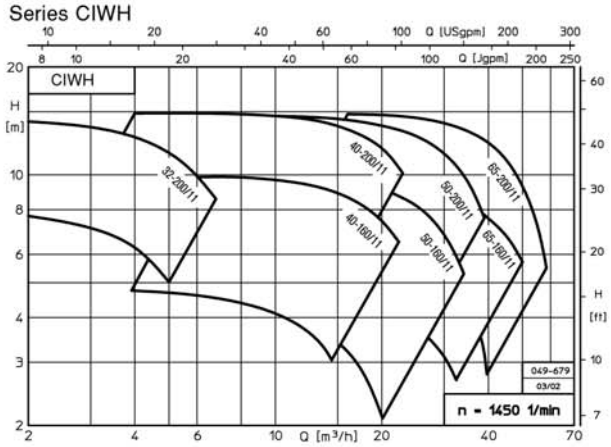


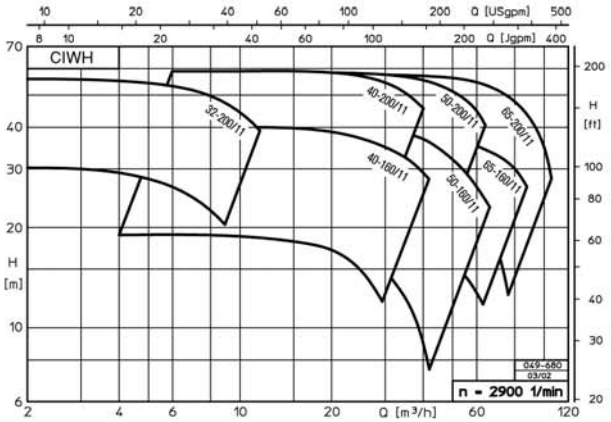


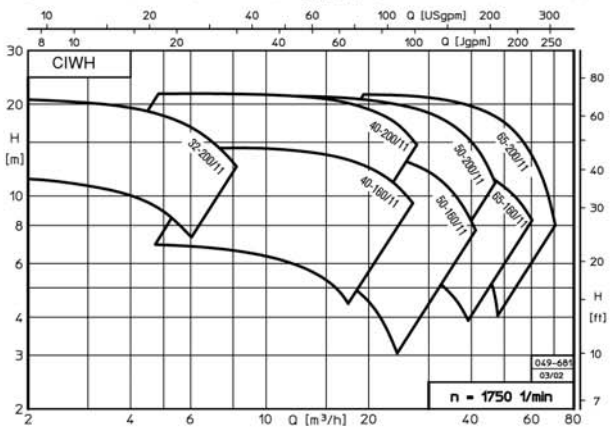


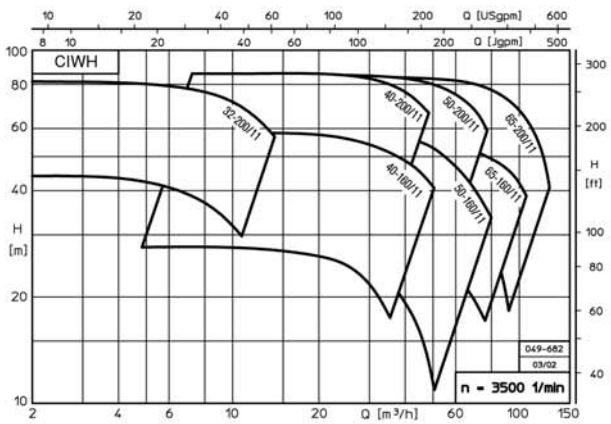


Series CIWH

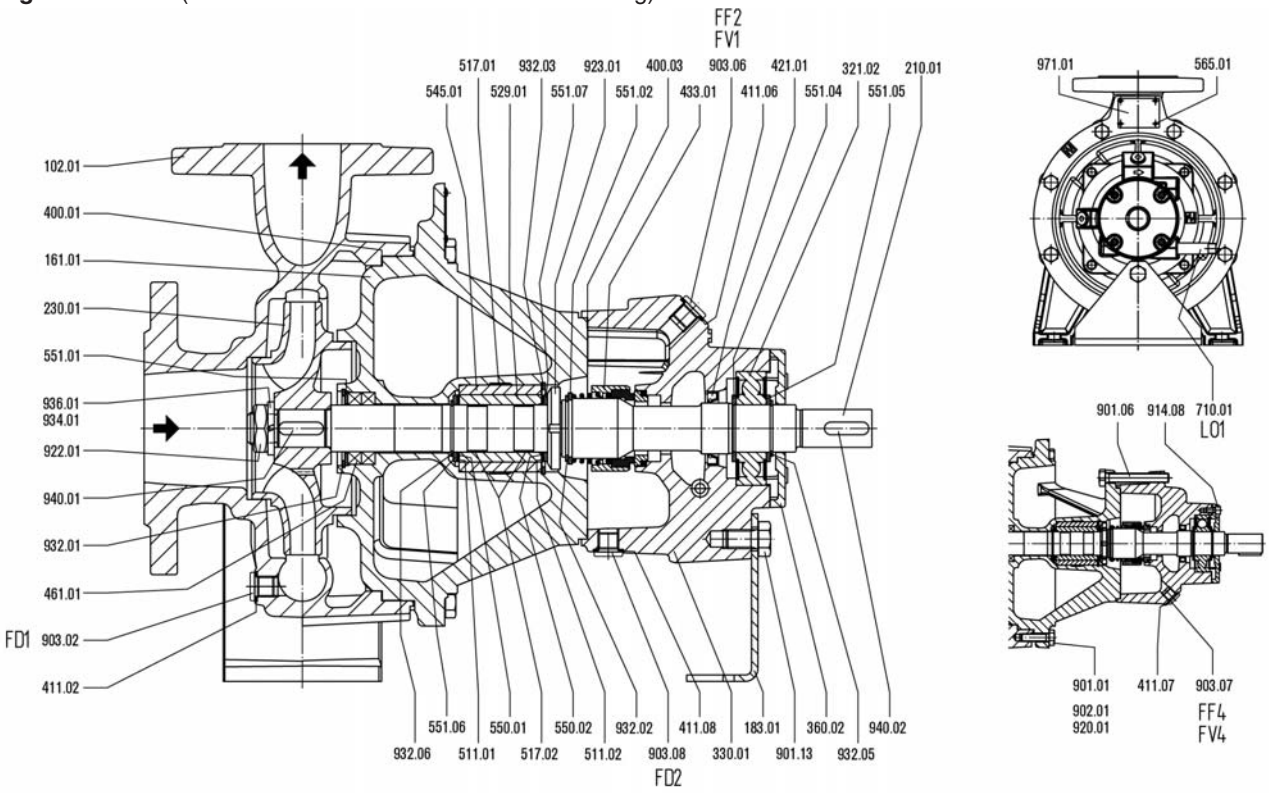


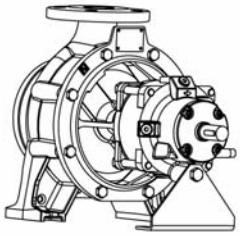




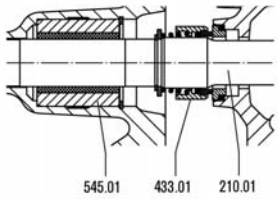


Sectional drawing - Series NTWH / CTWH on bearing bracket size 1, 2, 3 and 4
Design U2.11A-S1 (balanced mechanical seal and SiC-bearing)

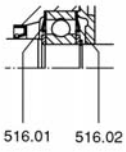




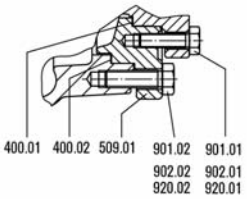
Design U3.3A-K1
(unbalanced mechanical seal and carbon bearing)



Design of bearing with bearing bracket size 3 and 4



Design with intermediate ring



Denomination	Part No.
Volute casing	102.01
Casing cover	161.01
Supporting foot	183.01
Shaft	210.01
Impeller	230.01
Groove ball bearing	321.02
Bearing bracket	330.01
Bearing cover	360.02
Gasket	400.01
Gasket	400.02
Gasket	400.03
Seal ring	411.02
Seal ring	411.06
Seal ring	411.07
Seal ring	411.08
Radial shaft seal ring	421.01
Mechanical seal	433.01
Stuffing box packing	461.01
Intermediate ring	509.01
Centering ring	① 511.01
Centering ring	① 511.02
Nilos ring	④ 516.01
Nilos ring	④ 516.02
Flexible clamp ring	517.01
Flexible clamp ring	① 517.02

Denomination	Part No.
Bearing sleeve	① 529.01
Bearing busch	545.01
Disc	① 550.01
Disc	① 550.02
Disc spacer	551.01
Disc spacer	551.02
Disc spacer	551.04
Disc spacer	551.05
Disc spacer	① 551.06
Disc spacer	① 551.07
Rivet	565.01
Pipe	710.01
Hexagon screw	901.01
Hexagon screw	901.02
Hexagon screw	901.06
Hexagon screw	901.13
Stud bolt	②③ 902.01
Stud bolt	②③ 902.02
Screw plug	903.02
Screw plug	903.06
Screw plug	903.07
Screw plug	903.08
Socket-head cap screw	914.08
Nut	②③ 920.01
Nut	②③ 920.02

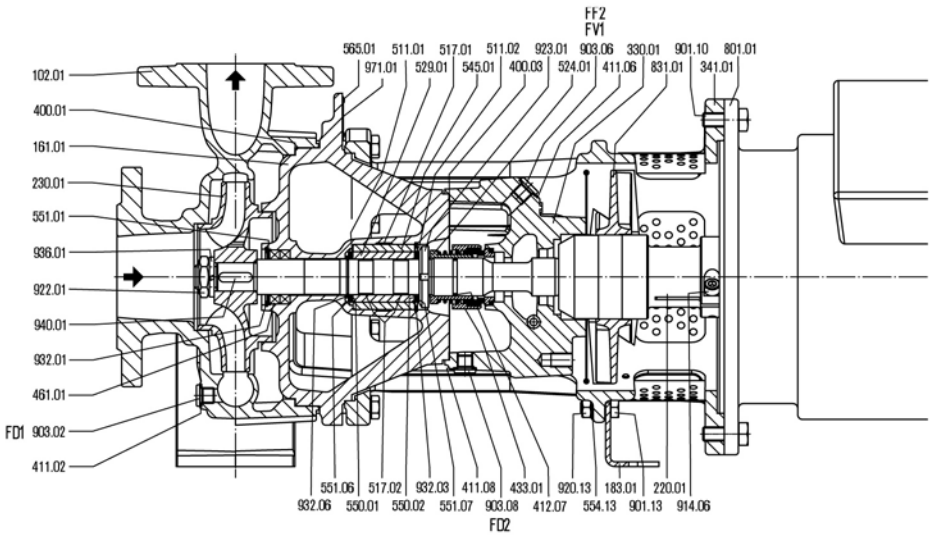
Denomination	Part No.
Impeller nut	922.01
Bearing nut	① 923.01
Circlip	932.01
Circlip	932.02
Circlip	932.03
Circlip	932.05
Circlip	① 932.06
Spring disc	④ 934.01
Spring ring	936.01
Key	940.01
Key	940.02
Name plate	971.01

① not present for desing with carbon bearing
② only with series NTWH bearing bracket size 4
③ only with series CTWH
④ only wiht bearing bracket size 3 and 4

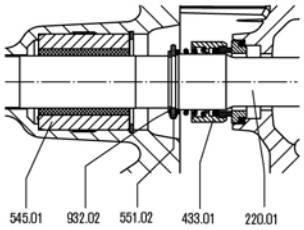
Connections

FD1	Draining
FD2	Draining
FF2 / FV1	Filling / Bleeding
FF4 / FV4	Filling / Bleeding only for vertical block and in-line installations
LO1	Leakage outlet

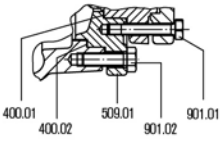
Sectional drawing - Series NBWH / CBWH
Design U2.11A-S1 (balanced mechanical seal and SiC-bearing)

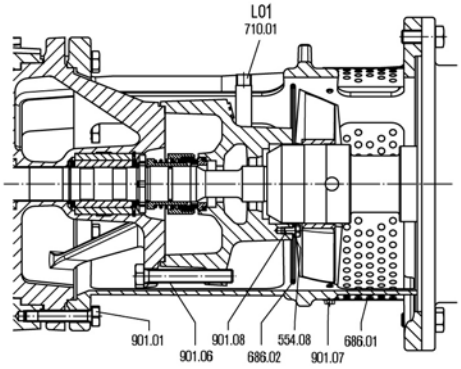


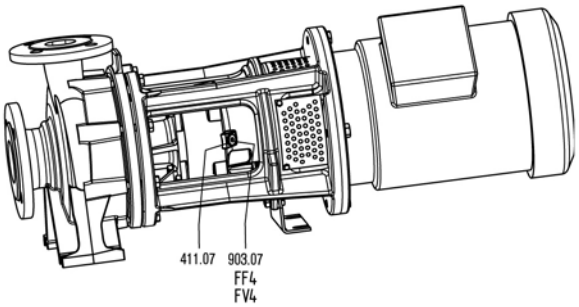
Design U3.3A-K1
(unbalanced mechanical seal and carbon bearing



Design with intermediate ring







Denomination	Part-No.
Volute casing	102.01
Casing cover	161.01
Supporting foot	183.01
Plug-in shaft	220.01
Impeller	230.01
Bearing bracket	330.01
Motor stool	341.01
Gasket	400.01
Gasket	400.02
Gasket	400.03
Seal ring	411.02
Seal ring	411.06
Seal ring	411.07
Seal ring	411.08
O-ring	① 412.07
Mechanical seal	433.01
Stuffing box packing	461.01
Intermediate ring	509.01
Centering ring	① 511.01
Centering ring	① 511.02
Flexible clamp ring	517.01
Flexible clamp ring	① 517.02
Shaft sleeve	① 524.01
Bearing sleeve	① 529.01
Bearing bush	545.01

Denomination	Part-No.
Disc	① 550.01
Disc	① 550.02
Disc spacer	551.01
Disc spacer	② 551.02
Disc spacer	① 551.06
Disc spacer	① 551.07
Washer	554.08
Washer	554.13
Rivet	565.01
Guard plate	686.01
Guard plate	686.02
Pipe	710.01
Flange motor	801.01
Fan	831.01
Hexagon screw	901.01
Hexagon screw	901.02
Hexagon screw	901.06
Hexagon screw	901.07
Hexagon screw	901.08
Hexagon screw	901.10
Hexagon screw	901.13
Screw plug	903.02
Screw plug	903.06
Screw plug	903.07
Screw plug	903.08

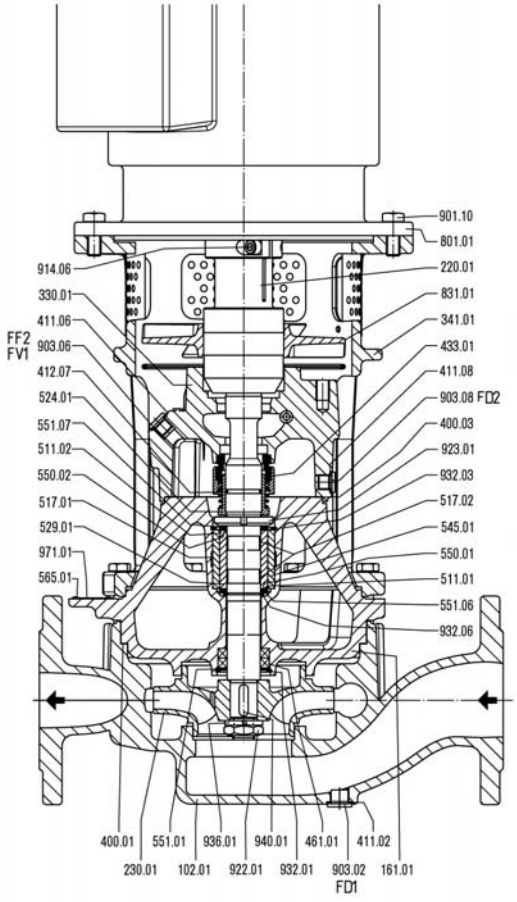
Denomination	Part-No.
Socket-head cap screw	914.06
Nut	920.13
Impeller nut	922.01
Bearing nut	① 923.01
Circlip	932.01
Circlip	② 932.02
Circlip	932.03
Circlip	① 932.06
Spring ring	936.01
Key	940.01
Name plate	971.01

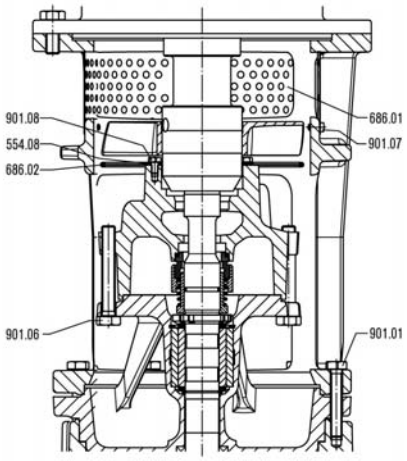
① not present for design with carbon bearing
② not present for design with SiC-bearing

Connections

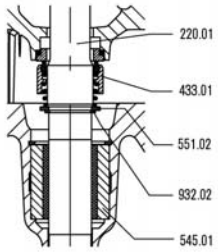
FD1	Draining
FD2	Draining
FF2 / FV1	Filling / Bleeding
FF4 / FV4	Filling / Bleeding only for vertical installations
LO1	Leakage outlet

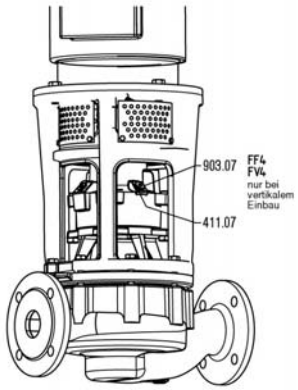
Sectional drawing - Series NIWH / CIWH
Design U2.11A-S1 (balanced mechanical seal and SiC-bearing)

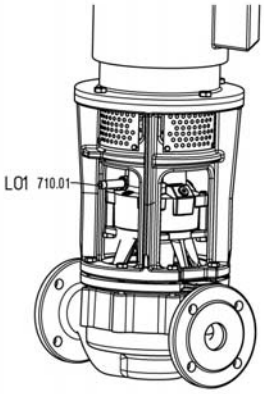




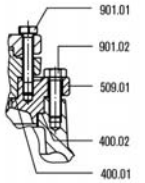
Design U3.3A-K1
(unbalanced mechanical seal and carbon bearing)







Design with intermediate ring



Denomination	Part-No.
Volute casing	102.01
Casing cover	161.01
Plug-in shaft	220.01
Impeller	230.01
Bearing bracket	330.01
Motor stool	341.01
Gasket	400.01
Gasket	400.02
Gasket	400.03
Seal ring	411.02
Seal ring	411.06
Seal ring	411.07
Seal ring	411.08
O-ring	① 412.07
Mechanical seal	433.01
Stuffing box packing	461.01
Intermediate ring	509.01
Centering ring	① 511.01
Centering ring	① 511.02
Flexible clamp ring	517.01
Flexible clamp ring	① 517.02
Shaft sleeve	① 524.01
Bearing sleeve	① 529.01
Bearing bush	545.01

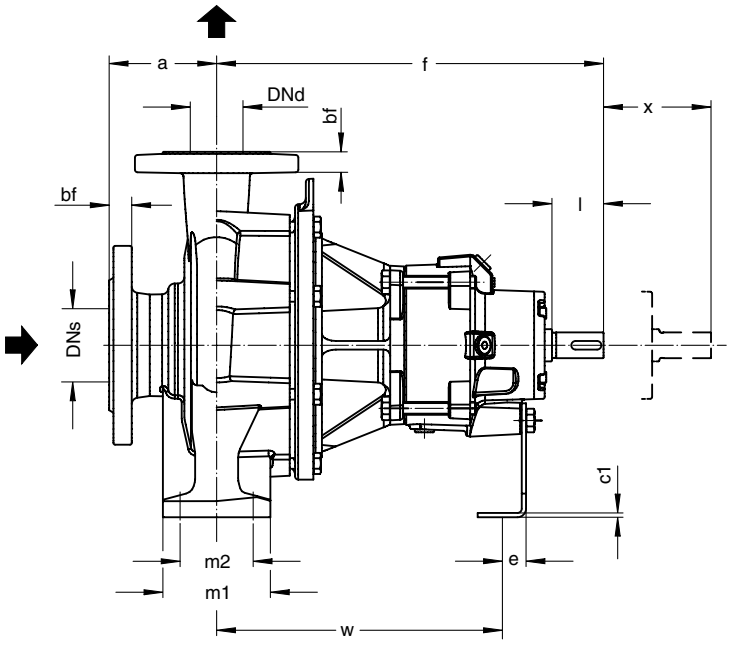
Denomination	Part-No.
Disc	① 550.01
Disc	① 550.02
Disc spacer	551.01
Disc spacer	② 551.02
Disc spacer	① 551.06
Disc spacer	① 551.07
Washer	554.08
Rivet	565.01
Guard plate	686.01
Guard plate	686.02
Pipe	710.01
Flange motor	801.01
Fan	831.01
Hexagon screw	901.01
Hexagon screw	901.02
Hexagon screw	901.06
Hexagon screw	901.07
Hexagon screw	901.08
Hexagon screw	901.10
Screw plug	903.02
Screw plug	903.06
Screw plug	903.07
Screw plug	903.08
Socket-head cap screw	914.06

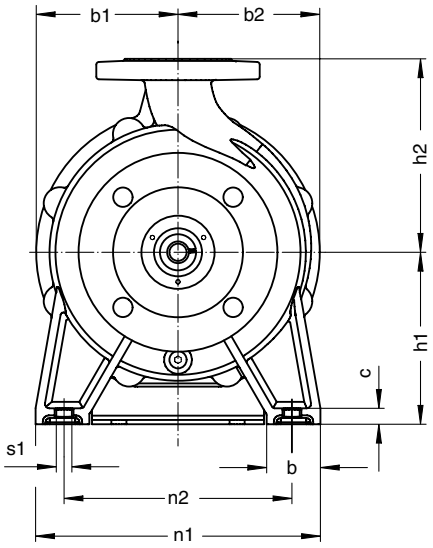
Denomination	Part-No.
Impeller nut	922.01
Bearing nut	① 923.01
Circlip	932.01
Circlip	② 932.02
Circlip	932.03
Circlip	① 932.06
Spring ring	936.01
Key	940.01
Name plate	971.01

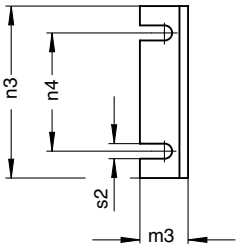
① not present for design with carbon bearing
② not present for design with SiC-bearing

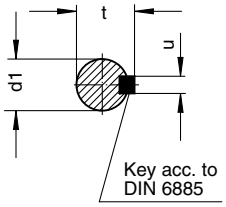
Connections	
FD1	Draining
FD2	Draining
FF2 / FV1	Filling / Bleeding
FF4 / FV4	Filling / Bleeding only for vertical installations
LO1	Leakage outlet

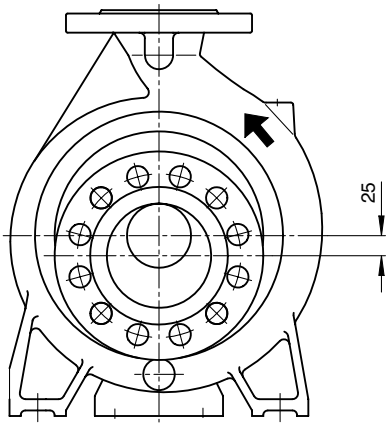
Pump dimension - Series NTWH
Sizes on bearing bracket sizes 1, 2, 3 and 4











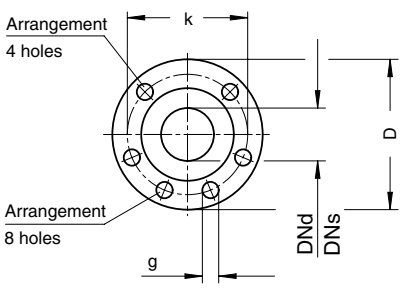
With size 250-400/01 only

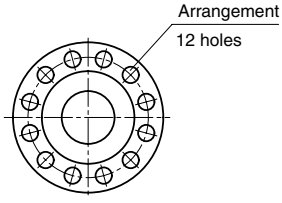
Tolerances of companion dimensions
according to DIN EN 735

Direction of rotation: clockwise, as seen
from the driving side

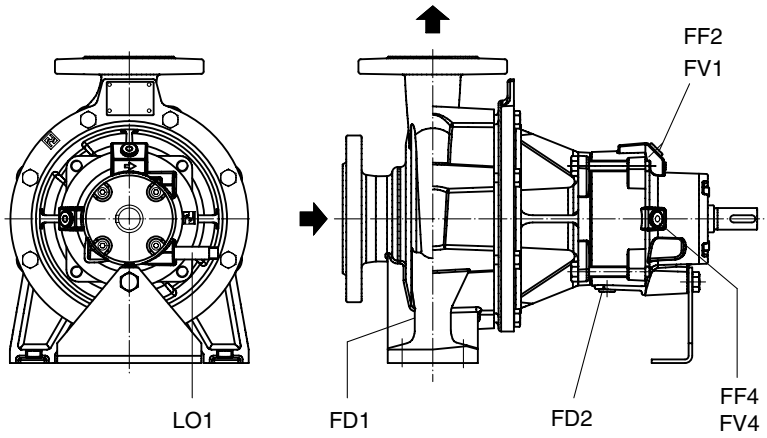
Dimensions subject to alteration.

Flanges acc. to En 1092-2 PN 16											
Nominal Flange Sizes		D		bf		k		g			
Ansi Inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	No. of holes
1.00	25	4.25	115	0.56	16	3.12	.85	0.62	14	4
1.50	32	4.62	140	0.62	18	3.50	100	0.62	19	4
1.50	40	5.00	150	0.69	18	3.88	110	0.62	19	4
2.00	50	6.00	165	0.75	20	4.75	125	0.75	19	4
2.50	65	7.00	185	0.88	20	5.50	145	0.75	19	4
3.00	80	7.50	200	0.94	22	6.00	160	0.75	19	8
4.00	100	9.00	220	0.94	24	7.50	180	0.75	19	8
5.00	125	10.00	250	0.94	26	8.50	210	0.88	19	8
6.00	150	11.00	285	1.00	26	9.50	240	0.88	23	8
8.00	200	13.50	340	1.18	30	11.75	295	0.88	23	12
9.84	250	16.00	405	1.25	32	13.97	355	1.10	28	12
11.81	300	18.00	460	1.25	32	16.14	410	1.10	28	12





Arrangement of connections - Series NTWH



Bearing bracket size	Connections				
	Draining		Filling/ Bleeding		Leakage outlet
	FD1	FD2	FF2 / FV1	FF4 / FV4	LO1
1	G 1/4	G 1/4	G 1/4	G 1/4 only for vertical block and in-line installation	G 1/4
2	G 3/8		G 1/2		
3					
4					

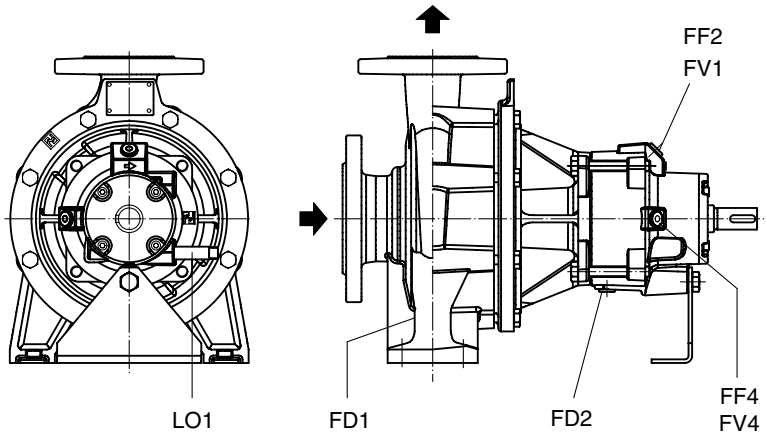
Connection FD1 in size 25-160/11 and 25-200/01 each G 1/2

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

Bearing bracket size	Pump size	Suction flange	Delivery flange	Pump dimensions						Foot dimensions												for screw		Extension dim.	Shaft end acc. to DIN 748			
		DNs	DNd	a	f	b1	b2	h1	h2	b	c	c1	e	m1	m2	m3	n1	n2	n3	n4	w	s1	s2	x	d1	l	t	u
1	25-160/11	*1.6*	*1.0*	*3.1*	*14.2*	*5.0*	*5.0*	*5.2*	*6.3*	*2.0*	*0.6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*9.4*	*7.5*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		40	25	80	360	128	128	132	160	50	15	4	28	100	70	45	240	190	160	110	260			80	24	50	27	8
	25-200/01	*1.6*	*1.0*	*3.1*	*14.2*	*5.2*	*5.2*	*6.3*	*7.1*	*2.0*	*0.6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*9.4*	*7.5*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		40	25	80	360	132	132	160	180	50	15	4	28	100	70	45	240	190	160	110	260			80	24	50	27	8
	32-160/01	*2.0*	*1.3*	*3.1*	*14.2*	*5.1*	*5.1*	*5.2*	*6.3*	*2.0*	*0.6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*9.4*	*7.5*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		50	32	80	360	130	130	132	160	50	15	4	28	100	70	45	240	190	160	110	260			80	24	50	27	8
	32-200/01	*2.0*	*1.3*	*3.1*	*14.2*	*4.9*	*5.1*	*6.3*	*7.1*	*2.0*	*0.6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*9.4*	*7.5*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		50	32	80	360	124	130	160	180	50	15	4	28	100	70	45	240	190	160	110	260			80	24	50	27	8
	40-160/01	*2.6*	*1.6*	*3.1*	*14.2*	*5.1*	*5.1*	*5.2*	*6.3*	*2.0*	*0. 6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*9.4*	*7.5*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		65	40	80	360	130	130	132	160	50	15	4	28	100	70	45	240	190	160	110	260			80	24	50	27	8
	40-200/01	*2.6*	*1.6*	*3.9*	*14.2*	*4.9*	*5.3*	*6.3*	*7.1*	*2.0*	*0.6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*10.4*	*8.3*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		65	40	100	360	125	135	160	180	50	15	4	28	100	70	45	265	212	160	110	260			80	24	50	27	8
	40-250/01	*2.6*	*1.6*	*3.9*	*14.2*	*5.9*	*6.1*	*7.1*	*8.9*	*2.6*	*0.6*	*0.2*	*1.1*	*4.9*	*3.7*	*1.8*	*12.6*	*9.8*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		65	40	100	360	150	156	180	225	65	15	4	28	125	95	45	320	250	160	110	260			80	24	50	27	8
	50-160/01	*2.6*	*2.0*	*3.9*	*14.2*	*4.9*	*5.1*	*6.3*	*7.1*	*2.0*	*0.6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*10.4*	*8.3*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		65	50	100	360	125	130	160	180	50	15	4	28	100	70	45	265	212	160	110	260			80	24	50	27	8
	50-200/01	*2.6*	*2.0*	*3.9*	*14.2*	*5.2*	*5.7*	*6.3*	*7.9*	*2.0*	*0.6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*10.4*	*8.3*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		65	50	100	360	133	145	160	200	50	15	4	28	100	70	45	265	212	160	110	260			80	24	50	27	8
	50-250/01	*2.6*	*2.0*	*3.9*	*14.2*	*6.1*	*6.7*	*7.1*	*8.9*	*2.6*	*0.6*	*0.2*	*1.1*	*4.9*	*3.7*	*1.8*	*12.6*	*9.8*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		65	50	100	360	156	169	180	225	65	15	4	28	125	95	45	320	250	160	110	260			80	24	50	27	8
	65-160/01	*3.1*	*2.6*	*3.9*	*14.2*	*5.2*	*6.4*	*6.3*	*7.9*	*2.6*	*0.6*	*0.2*	*1.1*	*4.9*	*3.7*	*1.8*	*11.0*	*8.3*	*6.3*	*4.3*	*10.2*	M12	M12	*3.9*	*0.9*	*2.0*	*1.1*	*0.3*
		80	65	100	360	133	162	160	200	65	15	4	28	125	95	45	280	212	160	110	260			100	24	50	27	8
	65-200/02	*3.1*	*2.6*	*3.9*	*14.2*	*6.3*	*6.7*	*7.1*	*8.9*	*2.6*	*0.6*	*0.2*	*1.1*	*4.9*	*3.7*	*1.8*	*12.6*	*9.8*	*6.3*	*4.3*	*10.2*	M12	M12	*3.9*	*0.9*	*2.0*	*1.1*	*0.3*
		80	65	100	360	160	170	180	225	65	15	4	28	125	95	45	320	250	160	110	260			100	24	50	27	8
	80-160/01	*3.9*	*3.1*	*4.9*	*14.2*	*5.4*	*6.7*	*7.1*	*8.9*	*2.6*	*0.6*	*0.2*	*1.1*	*4.9*	*3.7*	*1.8*	*12.6*	*9.8*	*6.3*	*4.3*	*10.2*	M12	M12	*3.9*	*0.9*	*2.0*	*1.1*	*0.3*
		100	80	125	360	136	170	180	225	65	15	4	28	125	95	45	320	250	160	110	260			100	24	50	27	8
	100-160/01	*4.9*	*3.9*	*4.9*	*14.2*	*6.5*	*7.9*	*7.9*	*11.0*	*2.6*	*0.6*	*0.2*	*1.1*	*4.9*	*3.7*	*1.8*	*12.6*	*9.8*	*6.3*	*4.3*	*10.2*	M12	M12	*3.9*	*0.9*	*2.0*	*1.1*	*0.3*
		125	100	125	360	165	200	200	280	65	15	4	28	125	95	45	320	250	160	110	260			100	24	50	27	8
2	65-250/01	*3.1*	*2.6*	*3.9*	*18.5*	*6.5*	*7.2*	*7.9*	*9.8*	*3.1*	*0.7*	*0.2*	*1.1*	*6.3*	*4.7*	*1.8*	*14.2*	*11.0*	*6.3*	*4.3*	*13.4*	M16	M12	*3.9*	*1.3*	*3.1*	*1.4*	*0.4*
		80	65	100	470	164	184	200	250	80	18	4	28	160	120	45	360	280	160	110	340			100	32	80	35	10
	65-315/01	*3.1*	*2.6*	*4.9*	*18.5*	*8.0*	*8.6*	*8.9*	*11.0*	*3.1*	*9.8*	*0.2*	*1.2*	*6.3*	*4.7*	*1.9*	*15.7*	*12.4*	*6.3*	*4.3*	*13.4*	M16	M12	*3.9*	*1.3*	*3.1*	*1.4*	*0.4*
		80	65	125	470	202	219	225	280	80	25	6	30	160	120	47	400	315	160	110	340			100	32	80	35	10
	65-400/01	*3.1*	*2.6*	*4.9*	*18.5*	*9.4*	*10.0*	*9.8*	*14.0*	*3.1*	*9.8*	*0.2*	*1.2*	*6.3*	*4.7*	*1.9*	*16.5*	*9.3*	*6.3*	*4.3*	*13.4*	M16	M12	*3.9*	*1.3*	*3.1*	*1.4*	*0.4*
		80	65	125	470	239	255	250	355	80	25	6	30	160	120	47	420	335	160	110	340			100	32	80	35	10
	80-200/02	*3.9*	*3.1*	*4.9*	*18.5*	*6.8*	*7.5*	*7.1*	*9.8*	*2.6*	*0.7*	*0.2*	*1.1*	*4.9*	*3.7*	*1.8*	*13.6*	*11.0*	*6.3*	*4.3*	*13.4*	M12	M12	*3.9*	*1.3*	*3.1*	*1.4*	*0.4*
		100	80	125	470	172	190	180	250	65	18	4	28	125	95	45	345	280	160	110	340			100	32	80	35	10
	80-250/01	*3.9*	*3.1*	*4.9*	*18.5*	*7.3*	*8.3*	*7.9*	*11.0*	*3.1*	*0.7*	*0.2*	*1.1*	*6.3*	*4.7*	*1.8*	*15.7*	*12.4*	*6.3*	*4.3*	*13.4*	M16	M12	*3.9*	*1.3*	*3.1*	*1.4*	*0.4*
		100	80	125	470	185	210	200	280	80	18	4	28	160	120	45	400	315	160	110	340			100	32	80	35	10

(chart continued on next page)

Arrangement of connections - Series NTWH



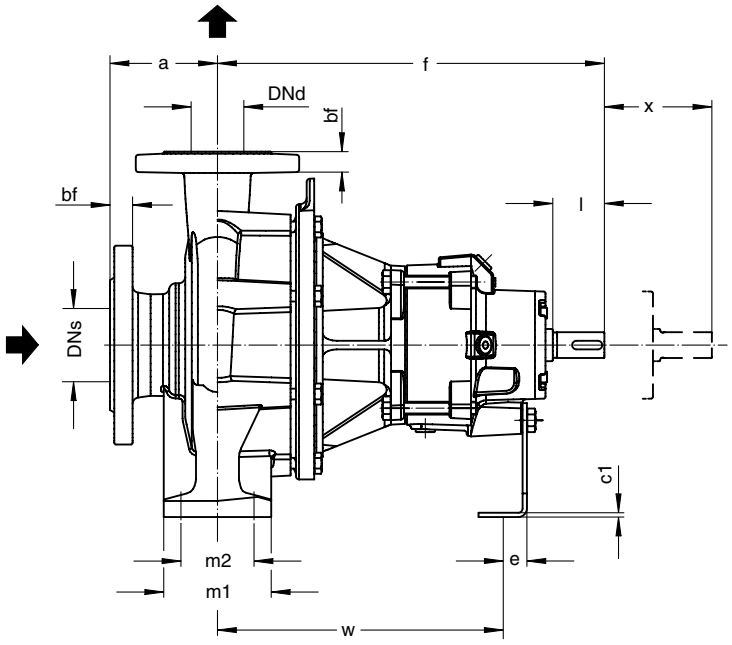
Bearing bracket size	Connections				
	Draining		Filling/ Bleeding		Leakage outlet
	FD1	FD2	FF2 / FV1	FF4 / FV4	LO1
1	G 1/4	G 1/4	G 1/4	G 1/4 only for vertical block and in-line installation	G 1/4
2	G 3/8		G 1/2		
3					
4					

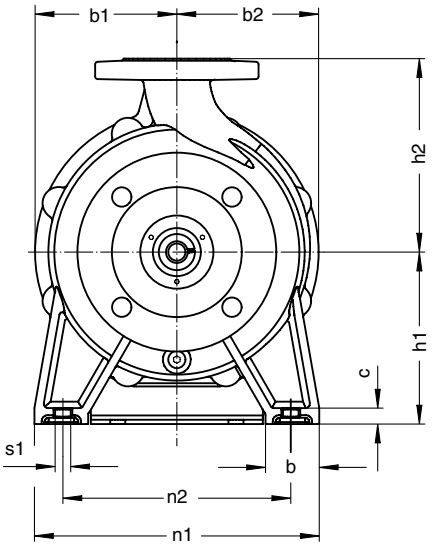
Connection FD1 in size 25-160/11 and 25-200/01 each G 1/2

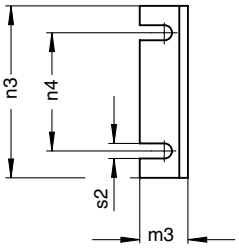
Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

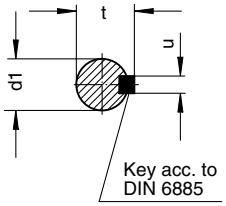
Bearing bracket size	Pump size	Suction flange	Delivery flange	Pump dimensions						Foot dimensions												for screw		Extension dim.	Shaft end acc. to DIN 748			
		DNs	DNd	a	f	b1	b2	h1	h2	b	c	c1	e	m1	m2	m3	n1	n2	n3	n4	w	s1	s2	x	d1	l	t	u
2	80-315/01	*3.9*	*3.1*	*4.9*	*18.5*	*8.3*	*9.1*	*9.8*	*12.4*	*3.1*	*1.0*	*0.2*	*1.2*	*6.3*	*4.7*	*1.9*	*15.7*	*12.4*	*6.3*	*4.3*	*13.4*	M16	M12	*3.9*	*1.3*	*3.1*	*1.4*	*0.4*
		100	80	125	470	210	231	250	315	80	25	6	30	160	120	47	400	315	160	110	340			100	32	80	35	10
	100-200/01	*4.9*	*3.9*	*4.9*	*18.5*	*6.5*	*8.0*	*7.9*	*11.0*	*3.1*	*0.7*	*0.2*	*1.1*	*6.3*	*4.7*	*1.8*	*14.2*	*11.0*	*6.3*	*4.3*	*13.4*	M16	M12	*4.7*	*1.3*	*3.1*	*1.4*	*0.4*
		125	100	125	470	165	203	200	280	80	18	4	28	160	120	45	360	280	160	110	340			120	32	80	35	10
	100-250/01	*4.9*	*3.9*	*5.5*	*18.5*	*7.4*	*8.8*	*8.9*	*11.0*	*3.1*	*0.7*	*0.2*	*1.2*	*6.3*	*4.7*	*1.9*	*15.7*	*12.4*	*6.3*	*4.3*	*13.4*	M16	M12	*4.7*	*1.3*	*3.1*	*1.4*	*0.4*
		125	100	140	470	189	224	225	280	80	18	6	30	160	120	47	400	315	160	110	340			120	32	80	35	10
	100-315/01	*4.9*	*3.9*	*5.5*	*18.5*	*8.7*	*9.8*	*9.8*	*12.4*	*3.1*	*1.0*	*0.2*	*1.2*	*6.3*	*4.7*	*1.9*	*15.7*	*12.4*	*6.3*	*4.3*	*13.4*	M16	M12	*4.7*	*1.3*	*3.1*	*1.4*	*0.4*
		125	100	140	470	220	250	250	315	80	25	6	30	160	120	47	400	315	160	110	340			120	32	80	35	10
	125-200/01	*5.9*	*4.9*	*5.5*	*18.5*	*7.7*	*9.3*	*9.8*	*12.4*	*3.1*	*0.7*	*0.2*	*1.2*	*6.3*	*4.7*	*1.9*	*15.7*	*12.4*	*6.3*	*4.3*	*13.4*	M16	M12	*4.7*	*1.3*	*3.1*	*1.4*	*0.4*
		150	125	140	470	196	236	250	315	80	18	6	30	160	120	47	400	315	160	110	340			120	32	80	35	10
	125-250/01	*5.9*	*4.9*	*5.5*	*18.5*	*8.3*	*10.0*	*9.8*	*14.0*	*3.1*	*0.7*	*0.2*	*1.2*	*6.3*	*4.7*	*1.9*	*15.7*	*12.4*	*6.3*	*4.3*	*13.4*	M16	M12	*4.7*	*1.3*	*3.1*	*1.4*	*0.4*
		150	125	140	470	212	255	250	355	80	18	6	30	160	120	47	400	315	160	110	340			120	32	80	35	10
	150-200/01	*7.9*	*5.9*	*6.3*	*18.5*	*8.4*	*10.6*	*11.0*	*14.6*	*3.9*	*1.1*	*0.2*	*1.2*	*7.9*	*5.9*	*1.9*	*21.7*	*17.7*	*6.3*	*4.3*	*13.4*	M20	M12	*4.7*	*1.3*	*3.1*	*1.4*	*0.4*
		200	150	160	470	214	268	280	370	100	27	6	30	200	150	47	550	450	160	110	340			120	32	80	35	10
3	80-400/02	*3.9*	*3.1*	*4.9*	*20.9*	*10.3*	*11.1*	*11.0*	*14.0*	*3.1*	*1.0*	*0.2*	*1.2*	*6.3*	*4.7*	*1.9*	*17.1*	*14.0*	*6.3*	*4.3*	*14.6*	M16	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		100	80	125	530	261	282	280	355	80	25	6	31	160	120	47	435	355	160	110	370			140	42	85	45	12
	100-400/02	*4.9*	*3.9*	*5.5*	*20.9*	*10.6*	*11.5*	*11.0*	*14.0*	*3.9*	*1.1*	*0.2*	*1.2*	*7.9*	*5.9*	*1.9*	*19.7*	*15.7*	*6.3*	*4.3*	*14.6*	M20	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		125	100	140	530	268	292	280	355	100	27	6	31	200	150	47	500	400	160	110	370			140	42	85	45	12
	125-315/01	*5.9*	*4.9*	*5.5*	*20.9*	*8.9*	*9.9*	*11.0*	*14.0*	*3.9*	*1.1*	*0.2*	*1.2*	*7.9*	*5.9*	*1.9*	*19.7*	*15.7*	*6.3*	*4.3*	*14.6*	M20	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		150	125	140	530	226	252	280	355	100	27	6	31	200	150	47	500	400	160	110	370			140	42	85	45	12
	125-400/02	*5.9*	*4.9*	*5.5*	*20.9*	*10.4*	*11.1*	*12.4*	*15.7*	*3.9*	*1.1*	*0.2*	*1.2*	*7.9*	*5.9*	*1.9*	*19.7*	*15.7*	*6.3*	*4.3*	*14.6*	M20	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		150	125	140	530	264	283	315	400	100	27	6	31	200	150	47	500	400	160	110	370			140	42	85	45	12
	150-250/02	*7.9*	*5.9*	*6.3*	*20.9*	*9.1*	*11.2*	*11.0*	*14.8*	*3.9*	*1.1*	*0.2*	*1.2*	*7.9*	*5.9*	*1.9*	*19.7*	*15.7*	*6.3*	*4.3*	*14.6*	M20	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		200	150	160	530	230	285	280	375	100	27	6	31	200	150	47	500	400	160	110	370			140	42	85	45	12
	150-315/01	*7.9*	*5.9*	*6.3*	*20.9*	*9.4*	*10.7*	*11.0*	*15.7*	*3.9*	*1.1*	*0.2*	*1.2*	*7.9*	*5.9*	*1.9*	*21.7*	*17.7*	*6.3*	*4.3*	*14.6*	M20	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		200	150	160	530	239	271	280	400	100	27	6	31	200	150	47	550	450	160	110	370			140	42	85	45	12
	150-400/02	*7.9*	*5.9*	*6.3*	*20.9*	*10.9*	*12.0*	*12.4*	*17.7*	*3.9*	*1.1*	*0.2*	*1.2*	*7.9*	*5.9*	*1.9*	*21.7*	*17.7*	*6.3*	*4.3*	*14.6*	M20	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		200	150	160	530	277	305	315	450	100	27	6	31	200	150	47	550	450	160	110	370			140	42	85	45	12
	200-250/02	*7.9*	*7.9*	*7.1*	*20.9*	*10.4*	*13.0*	*14.0*	*16.7*	*3.9*	*1.1*	*0.2*	*1.2*	*7.9*	*5.9*	*1.9*	*21.7*	*17.7*	*6.3*	*4.3*	*14.6*	M20	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		200	200	180	530	265	330	355	425	100	27	6	31	200	150	47	550	450	160	110	370			140	42	85	45	12
4	200-315/01	*9.8*	*7.9*	*7.9*	*25.6*	*10.8*	*13.2*	*14.0*	*17.7*	*4.3*	*1.1*	*0.4*	*1.7*	*7.9*	*5.9*	*2.6*	*21.7*	*17.7*	*9.8*	*7.9*	*17.9*	M20	M12	*7.1*	*2.4*	*4.1*	*2.5*	*0.7*
		250	200	200	650	275	335	355	450	110	27	10	42	200	150	65	550	450	250	200	455			180	60	105	64	18
	200-400/01	*9.8*	*7.9*	*7.1*	*25.6*	*12.4*	*14.7*	*14.0*	*19.7*	*3.9*	*1.2*	*0.4*	*1.7*	*7.9*	*5.9*	*2.6*	*21.7*	*17.7*	*9.8*	*7.9*	*17.9*	M20	M12	*7.1*	*2.4*	*4.1*	*2.5*	*0.7*
		250	200	180	650	315	374	355	500	100	30	10	42	200	150	65	550	450	250	200	455			180	60	105	64	18
	250-315/01	*11.8*	*9.8*	*9.8*	*25.6*	*12.8*	*16.1*	*15.7*	*22.0*	*5.1*	*1.2*	*0.4*	*1.7*	*10.2*	*7.5*	*2.6*	*27.2*	*22.0*	*9.8*	*7.9*	*17.9*	M24	M12	*7.1*	*2.4*	*4.1*	*2.5*	*0.7*
		300	250	250	650	325	408	400	560	130	30	10	42	260	190	65	690	560	250	200	455			180	60	105	64	18
	250-400/01	*11.8*	*9.8*	*8.9*	*25.6*	*13.8*	*17.3*	*15.7*	*23.6*	*4.7*	*1.2*	*0.4*	*1.7*	*11.0*	*7.9*	*2.6*	*24.8*	*19.7*	*9.8*	*7.9*	*17.9*	M27	M12	*7.1*	*2.4*	*4.1*	*2.5*	*0.7*
		300	250	225	650	350	440	400	600	120	30	10	42	280	200	65	630	500	250	200	455			180	60	105	64	18

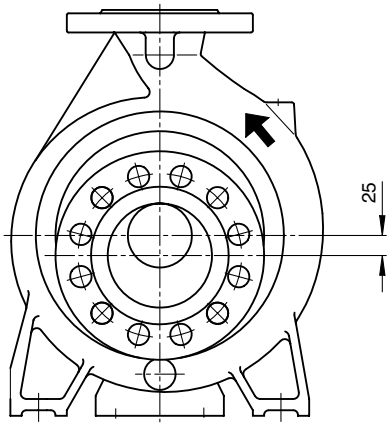
Pump dimension - Series CTWH
Sizes on bearing bracket sizes 1, 2, 3 and 4











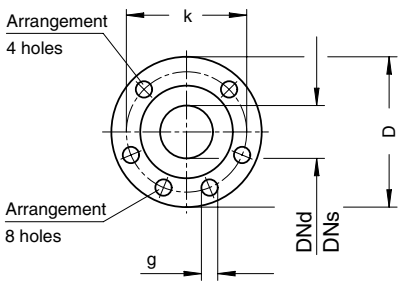
With size 250-400/01 only

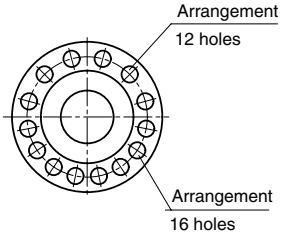
Tolerances of companion dimensions
according to DIN EN 735

Direction of rotation: clockwise, as seen
from the driving side

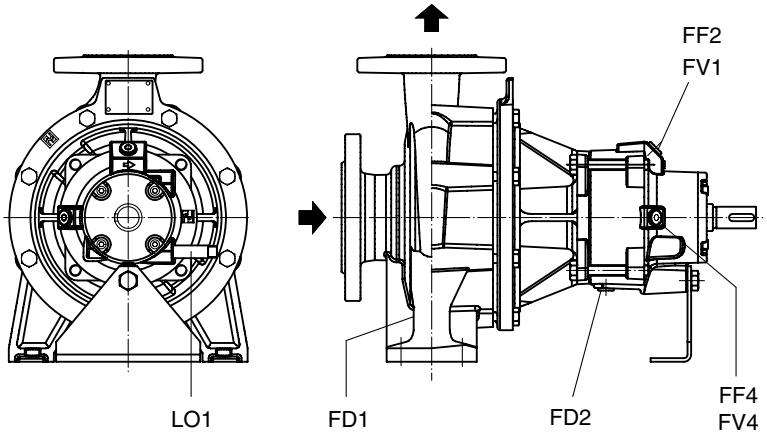
Dimensions subject to alteration.

Flanges acc. to En 1092-2 PN 25											
Nominal Flange Sizes		D		bf		k		g			
Ansi Inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	No. of holes	
1.00	25	4.88	15	0.69	18	3.50	85	0.75	14	4	
1.50	32	5.25	40	0.75	20	3.88	100	0.75	19	4	
1.50	40	6.12	50	0.81	20	4.50	110	0.88	19	4	
2.00	50	6.50	165	0.88	22	5.00	125	0.75	19	4	
2.50	65	7.50	185	1.00	24	5.88	145	0.88	19	8	
3.00	80	8.25	200	1.12	26	6.62	160	0.88	19	8	
4.00	100	10.00	235	1.25	28	7.88	190	0.90	23	8	
5.00	125	11.00	270	1.18	30	9.25	220	1.10	28	8	
6.00	150	11.81	300	1.33	34	9.84	250	1.10	28	8	
8.00	200	14.17	360	1.33	34	12.20	310	1.10	28	12	
9.84	250	16.73	425	1.41	36	14.56	370	1.22	31	12	
11.81	300	19.09	485	1.57	40	16.92	430	1.22	31	16	





Arrangement of connections - Series CTWH



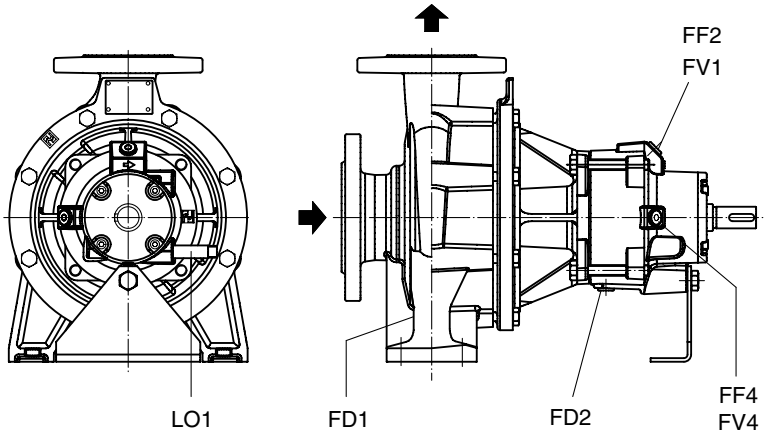
Bearing bracket size	Connections				
	Draining		Filling/ Bleeding		Leakage outlet
	FD1	FD2	FF2 / FV1	FF4 / FV4	LO1
1	G 1/2	G 1/4	G 1/4	G 1/4 only for vertical block and in-line installation	G 1/4
2			G 1/2		
3					
4					

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

Bearing bracket size	Pump size	Suction flange	Delivery flange	Pump dimensions						Foot dimensions												for screw		Extension dim.	Shaft end acc. to DIN 748			
		DNs	DNd	a	f	b1	b2	h1	h2	b	c	c1	e	m1	m2	m3	n1	n2	n3	n4	w	s1	s2	x	d1	l	t	u
1	25-160/11	*1.6*	*1.0*	*3.1*	*14.2*	*5.0*	*5.0*	*5.2*	*6.3*	*2.0*	*0.6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*9.4*	*7.5*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		40	25	80	360	128	128	132	160	50	15	4	28	100	70	45	240	190	160	110	260			80	24	50	27	8
	25-200/01	*1.6*	*1.0*	*3.1*	*14.2*	*5.2*	*5.2*	*6.3*	*7.1*	*2.0*	*0.6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*9.4*	*7.5*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		40	25	80	360	132	132	160	180	50	15	4	28	100	70	45	240	190	160	110	260			80	24	50	27	8
	32-160/11	*2.0*	*1.3*	*3.1*	*14.2*	*5.1*	*5.1*	*5.2*	*6.3*	*2.0*	*0.6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*9.4*	*7.5*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		50	32	80	360	130	130	132	160	50	15	4	28	100	70	45	240	190	160	110	260			80	24	50	27	8
	32-200/11	*2.0*	*1.3*	*3.1*	*14.2*	*5.1*	*5.3*	*6.3*	*7.1*	*2.0*	*0.6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*9.4*	*7.5*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		50	32	80	360	130	135	160	180	50	15	4	28	100	70	45	240	190	160	110	260			80	24	50	27	8
	40-160/11	*2.6*	*1.6*	*3.1*	*14.2*	*5.1*	*5.1*	*5.2*	*6.3*	*2.0*	*0. 6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*9.4*	*7.5*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		65	40	80	360	130	130	132	160	50	15	4	28	100	70	45	240	190	160	110	260			80	24	50	27	8
	40-200/11	*2.6*	*1.6*	*3.9*	*14.2*	*5.1*	*5.5*	*6.3*	*7.1*	*2.0*	*0.6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*10.4*	*8.3*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		65	40	100	360	130	140	160	180	50	15	4	28	100	70	45	265	212	160	110	260			80	24	50	27	8
	50-160/11	*3.1*	*2.0*	*3.9*	*14.2*	*5.1*	*5.1*	*6.3*	*7.1*	*2.0*	*0.6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*10.4*	*8.3*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		80	50	100	360	130	130	160	180	50	15	4	28	100	70	45	265	212	160	110	260			80	24	50	27	8
	50-200/11	*3.1*	*2.0*	*3.9*	*14.2*	*5.3*	*5.9*	*6.3*	*7.9*	*2.0*	*0.6*	*0.2*	*1.1*	*3.9*	*2.8*	*1.8*	*10.4*	*8.3*	*6.3*	*4.3*	*10.2*	M12	M12	*3.1*	*0.9*	*2.0*	*1.1*	*0.3*
		80	50	100	360	135	150	160	200	50	15	4	28	100	70	45	265	212	160	110	260			80	24	50	27	8
	65-160/11	*3.9*	*2.6*	*3.9*	*14.2*	*5.1*	*6.1*	*6.3*	*7.9*	*2.6*	*0.6*	*0.2*	*1.1*	*4.9*	*3.7*	*1.8*	*11.0*	*8.3*	*6.3*	*4.3*	*10.2*	M12	M12	*3.9*	*0.9*	*2.0*	*1.1*	*0.3*
		100	65	100	360	130	155	160	200	65	15	4	28	125	95	45	280	212	160	110	260			100	24	50	27	8
	80-160/11	*4.9*	*3.1*	*4.9*	*14.2*	*5.7*	*7.1*	*7.1*	*8.9*	*2.6*	*0.6*	*0.2*	*1.1*	*4.9*	*3.7*	*1.8*	*12.6*	*9.8*	*6.3*	*4.3*	*10.2*	M12	M12	*3.9*	*0.9*	*2.0*	*1.1*	*0.3*
		125	80	125	360	145	180	180	225	65	15	4	28	125	95	45	320	250	160	110	260			100	24	50	27	8
2	32-250/11	*2.0*	*1.3*	*3.9*	*18.5*	*6.7*	*6.7*	*7.1*	*8.9*	*2.6*	*0.6*	*0.2*	*1.1*	*4.9*	*3.7*	*1.8*	*12.6*	*9.8*	*6.3*	*4.3*	*10.2*	M12	M12	*3.9*	*1.3*	*3.1*	*1.4*	*0.4*
		50	32	100	470	170	170	180	225	65	15	4	28	125	95	45	320	250	160	110	340			100	32	80	35	10
	40-250/11	*2.6*	*1.6*	*3.9*	*18.5*	*6.7*	*6.7*	*7.1*	*8.9*	*2.6*	*0.6*	*0.2*	*1.1*	*4.9*	*3.7*	*1.8*	*12.6*	*9.8*	*6.3*	*4.3*	*10.2*	M12	M12	*3.9*	*1.3*	*3.1*	*1.4*	*0.4*
		65	40	100	470	170	170	180	225	65	15	4	28	125	95	45	320	250	160	110	340			100	32	80	35	10
	40-315/11	*2.6*	*1.6*	*4.9*	*18.5*	*7.9*	*7.9*	*7.9*	*9.8*	*2.6*	*0.8*	*0.2*	*1.1*	*4.9*	*3.7*	*1.8*	*13.6*	*11.0*	*6.3*	*4.3*	*10.2*	M12	M12	*3.9*	*1.3*	*3.1*	*1.4*	*0.4*
		65	40	125	470	200	200	200	250	65	20	4	28	125	95	45	345	280	160	110	340			100	32	80	35	10
	50-250/11	*3.1*	*2.0*	*4.9*	*18.5*	*6.7*	*6.7*	*7.1*	*8.9*	*2.6*	*0.6*	*0.2*	*1.1*	*4.9*	*3.7*	*1.8*	*12.6*	*9.8*	*6.3*	*4.3*	*10.2*	M12	M12	*3.9*	*1.3*	*3.1*	*1.4*	*0.4*
		80	50	125	470	170	170	180	225	65	15	4	28	125	95	45	320	250	160	110	340			100	32	80	35	10
	50-315/11	*3.1*	*2.0*	*4.9*	*18.5*	*7.9*	*7.9*	*8.6*	*11.0*	*2.6*	*0.8*	*0.2*	*1.2*	*4.9*	*3.7*	*1.9*	*13.6*	*11.0*	*6.3*	*4.3*	*10.2*	M12	M12	*3.9*	*1.3*	*3.1*	*1.4*	*0.4*
		80	50	125	470	200	200	225	280	65	20	6	30	125	95	47	345	280	160	110	340			100	32	80	35	10
	65-200/11	*3.9*	*2.6*	*3.9*	*18.5*	*6.7*	*6.7*	*7.1*	*8.9*	*2.6*	*0.6*	*0.2*	*1.1*	*4.9*	*3.7*	*1.8*	*12.6*	*9.8*	*6.3*	*4.3*	*10.2*	M12	M12	*4.7*	*1.3*	*3.1*	*1.4*	*0.4*
		100	65	100	470	170	170	180	225	65	15	4	28	125	95	45	320	250	160	110	340			120	32	80	35	10
	65-250/11	*3.9*	*2.6*	*4.9*	*18.5*	*6.7*	*7.5*	*7.9*	*9.8*	*3.1*	*0.7*	*0.2*	*1.1*	*6.3*	*4.7*	*1.8*	*14.2*	*11.0*	*6.3*	*4.3*	*10.2*	M16	M12	*3.9*	*1.3*	*3.1*	*1.4*	*0.4*
		100	65	125	470	170	190	200	250	80	18	4	28	160	120	45	360	280	160	110	340			100	32	80	35	10
	80-200/01	*4.9*	*3.1*	*4.9*	*18.5*	*6.7*	*7.5*	*7.1*	*9.8*	*2.6*	*0.7*	*0.2*	*1.1*	*4.9*	*3.7*	*1.8*	*13.6*	*11.0*	*6.3*	*4.3*	*10.2*	M12	M12	*3.9*	*1.3*	*3.1*	*1.4*	*0.4*
		125	80	125	470	170	190	180	250	65	18	4	28	125	95	45	345	280	160	110	340			100	32	80	35	10
	80-250/01	*4.9*	*3.1*	*4.9*	*18.5*	*7.3*	*8.3*	*8.9*	*11.0*	*3.1*	*0.7*	*0.2*	*1.2*	*6.3*	*4.7*	*1.9*	*15.7*	*12.4*	*6.3*	*4.3*	*10.2*	M16	M12	*3.9*	*1.3*	*3.1*	*1.4*	*0.4*
		125	80	125	470	185	210	225	280	80	18	6	30	160	120	47	400	315	160	110	340			100	32	80	35	10
	100-200/11	*4.9*	*3.9*	*4.9*	*18.5*	*6.7*	*8.1*	*7.9*	*11.0*	*3.1*	*0.7*	*0.2*	*1.1*	*6.3*	*4.7*	*1.8*	*14.2*	*11.0*	*6.3*	*4.3*	*10.2*	M16	M12	*4.7*	*1.3*	*3.1*	*1.4*	*0.4*
		125	100	125	470	170	205	200	280	80	18	4	28	160	120	45	360	280	160	110	340			120	32	80	35	10

(chart continued on next page)

Arrangement of connections - Series CTWH

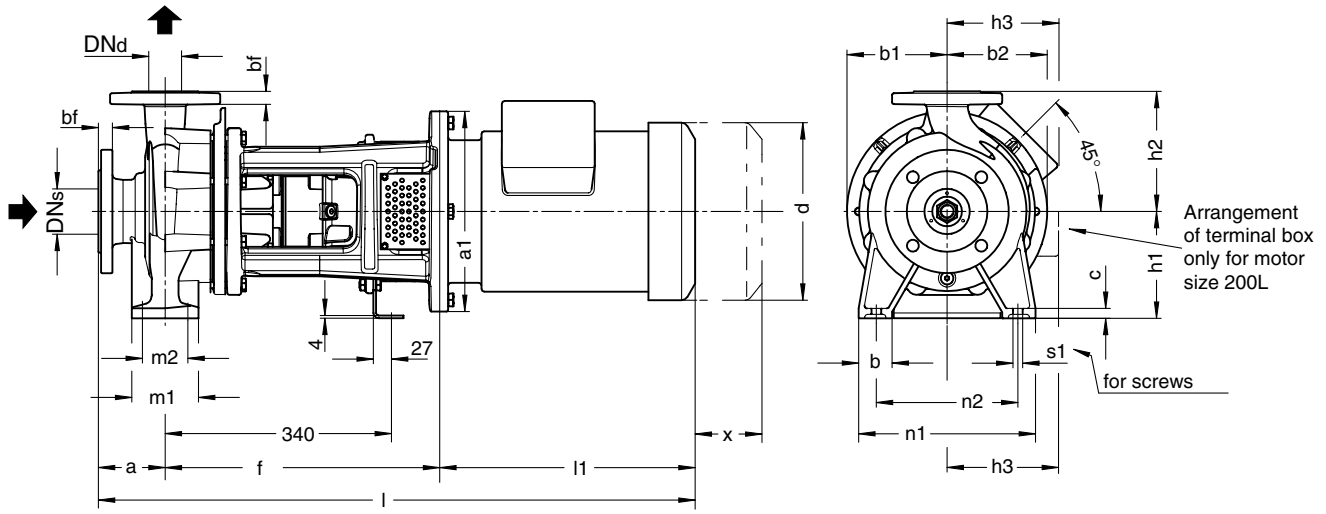


Bearing bracket size	Connections				
	Draining		Filling/ Bleeding		Leakage outlet
	FD1	FD2	FF2 / FV1	FF4 / FV4	LO1
1	G 1/2	G 1/4	G 1/4	G 1/4 only for vertical block and in-line installation	G 1/4
2			G 1/2		
3					
4					

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

Bearing bracket size	Pump size	Suction flange	Delivery flange	Pump dimensions						Foot dimensions												for screw		Extension dim.	Shaft end acc. to DIN 748			
		DNs	DNd	a	f	b1	b2	h1	h2	b	c	c1	e	m1	m2	m3	n1	n2	n3	n4	w	s1	s2	x	d1	l	t	u
3	65-315/11	*3.9*	*2.6*	*4.9*	*20.9*	*7.9*	*9.1*	*8.9*	*11.0*	*3.1*	*0.8*	*0.2*	*1.2*	*6.3*	*4.7*	*1.9*	*15.7*	*12.4*	*6.3*	*4.3*	*14.6*	M16	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.4*
		100	65	125	530	200	230	225	280	80	20	6	31	160	120	47	400	315	160	110	370			140	42	85	45	10
	80-315/11	*4.9*	*3.1*	*4.9*	*20.9*	*8.3*	*10.0*	*9.8*	*12.4*	*3.1*	*0.8*	*0.2*	*1.2*	*6.3*	*4.7*	*1.9*	*15.7*	*12.4*	*6.3*	*4.3*	*14.6*	M16	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		125	80	125	530	210	255	250	315	80	20	6	31	160	120	47	400	315	160	110	370			140	42	85	45	12
	80-400/11	*4.9*	*3.1*	*4.9*	*20.9*	*9.6*	*10.2*	*11.0*	*14.0*	*3.1*	*0.8*	*0.2*	*1.2*	*6.3*	*4.7*	*1.9*	*17.1*	*14.0*	*6.3*	*4.3*	*14.6*	M16	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		125	80	125	530	245	260	280	355	80	20	6	31	160	120	47	435	355	160	110	370			140	42	85	45	12
	100-250/11	*4.9*	*3.9*	*5.5*	*20.9*	*7.9*	*9.1*	*8.9*	*11.0*	*3.1*	*0.8*	*0.2*	*1.2*	*6.3*	*4.7*	*1.9*	*15.7*	*12.4*	*6.3*	*4.3*	*14.6*	M16	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		125	100	140	530	200	230	225	280	80	20	6	31	160	120	47	400	315	160	110	370			140	42	85	45	12
	100-315/11	*4.9*	*3.9*	*5.5*	*20.9*	*8.3*	*10.2*	*9.8*	*12.4*	*3.1*	*0.8*	*0.2*	*1.2*	*6.3*	*4.7*	*1.9*	*15.7*	*12.4*	*6.3*	*4.3*	*14.6*	M16	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		125	100	140	530	210	260	250	315	80	20	6	31	160	120	47	400	315	160	110	370			140	42	85	45	12
	100-400/11	*4.9*	*3.9*	*5.5*	*20.9*	*9.8*	*11.6*	*11.0*	*14.0*	*3.9*	*0.8*	*0.2*	*1.2*	*7.9*	*5.9*	*1.9*	*19.7*	*15.7*	*6.3*	*4.3*	*14.6*	M20	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		125	100	140	530	250	295	280	355	100	20	6	31	200	150	47	500	400	160	110	370			140	42	85	45	12
	125-250/11	*5.9*	*4.9*	*5.5*	*20.9*	*8.3*	*10.2*	*9.8*	*14.0*	*3.1*	*0.8*	*0.2*	*1.2*	*6.3*	*4.7*	*1.9*	*15.7*	*12.4*	*6.3*	*4.3*	*14.6*	M16	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		150	125	140	530	210	260	250	355	80	20	6	31	160	120	47	400	315	160	110	370			140	42	85	45	12
	125-315/11	*5.9*	*4.9*	*5.5*	*20.9*	*8.5*	*10.0*	*11.0*	*14.0*	*3.9*	*0.8*	*0.2*	*1.2*	*7.9*	*5.9*	*1.9*	*19.7*	*15.7*	*6.3*	*4.3*	*14.6*	M20	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		150	125	140	530	215	255	280	355	100	20	6	31	200	150	47	500	400	160	110	370			140	42	85	45	12
	125-400/11	*5.9*	*4.9*	*5.5*	*20.9*	*10.4*	*12.6*	*12.4*	*15.7*	*3.9*	*0.8*	*0.2*	*1.2*	*7.9*	*5.9*	*1.9*	*19.7*	*15.7*	*6.3*	*4.3*	*14.6*	M20	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		150	125	140	530	265	320	315	400	100	20	6	31	200	150	47	500	400	160	110	370			140	42	85	45	12
	150-250/01	*7.9*	*5.98*	*6.3*	*20.9*	*9.1*	*11.2*	*11.0*	*14.8*	*3.9*	*1.1*	*0.2*	*1.2*	*7.9*	*5.9*	*1.9*	*19.7*	*15.7*	*6.3*	*4.3*	*14.6*	M20	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		200	150	160	530	230	285	280	375	100	27	6	31	200	150	47	500	400	160	110	370			140	42	85	45	12
	200-250/01	*7.9*	*7.9*	*7.1*	*20.9*	*10.4*	*13.0*	*14.0*	*16.7*	*3.9*	*1.1*	*0.2*	*1.2*	*7.9*	*5.9*	*1.9*	*21.7*	*17.7*	*6.3*	*4.3*	*14.6*	M20	M12	*5.5*	*1.7*	*3.3*	*1.8*	*0.5*
		200	200	180	530	265	330	355	425	100	27	6	31	200	150	47	550	450	160	110	370			140	42	85	45	12
4	150-315/11	*7.9*	*5.9*	*6.3*	*25.6*	*10.4*	*11.0*	*12.4*	*16.7*	*3.9*	*0.9*	*0.4*	*1.7*	*7.9*	*5.9*	*2.6*	*21.7*	*17.7*	*9.8*	*7.9*	*17.9*	M20	M12	*7.1*	*2.4*	*4.1*	*2.5*	*0.7*
		200	150	160	650	265	280	315	400	100	22	10	42	200	150	65	550	450	250	200	455			180	60	105	64	18
	150-400/11	*7.9*	*5.9*	*6.3*	*25.6*	*11.8*	*13.0*	*12.4*	*17.7*	*3.9*	*0.9*	*0.4*	*1.7*	*7.9*	*5.9*	*2.6*	*21.7*	*17.7*	*9.8*	*7.9*	*17.9*	M20	M12	*7.1*	*2.4*	*4.1*	*2.5*	*0.7*
		200	150	160	650	300	330	315	450	100	22	10	42	200	150	65	550	450	250	200	455			180	60	105	64	18
	150-500/11	*7.9*	*5.9*	*7.1*	*25.6*	*12.6*	*15.0*	*14.8*	*19.7*	*3.9*	*1.0*	*0.4*	*1.7*	*7.9*	*5.9*	*2.6*	*21.7*	*17.7*	*9.8*	*7.9*	*17.9*	M20	M12	*7.1*	*2.4*	*4.1*	*2.5*	*0.7*
		200	150	180	650	320	380	375	500	100	25	10	42	200	150	65	550	450	250	200	455			180	60	105	64	18
	200-315/01	*9.8*	*7.9*	*7.9*	*25.6*	*10.8*	*13.2*	*14.0*	*17.7*	*4.3*	*1.1*	*0.4*	*1.7*	*7.9*	*5.9*	*2.6*	*21.7*	*17.7*	*9.8*	*7.9*	*17.9*	M20	M12	*7.1*	*2.4*	*4.1*	*2.5*	*0.7*
		250	200	200	650	275	335	355	450	110	27	10	42	200	150	65	550	450	250	200	455			180	60	105	64	18
	200-400/01	*9.8*	*7.9*	*7.1*	*25.6*	*12.4*	*14.7*	*14.0*	*19.7*	*3.9*	*1.2*	*0.4*	*1.7*	*7.9*	*5.9*	*2.6*	*21.7*	*17.7*	*9.8*	*7.9*	*17.9*	M20	M12	*7.1*	*2.4*	*4.1*	*2.5*	*0.7*
		250	200	180	650	315	374	355	500	100	30	10	42	200	150	65	550	450	250	200	455			180	60	105	64	18
	200-500/11	*9.8*	*7.9*	*7.9*	*25.6*	*14.2*	*17.3*	*16.7*	*22.0*	*3.9*	*1.0*	*0.4*	*1.7*	*7.9*	*5.9*	*2.6*	*26.0*	*22.0*	*9.8*	*7.9*	*17.9*	M20	M12	*7.1*	*2.4*	*4.1*	*2.5*	*0.7*
		250	*200*	*200*	*650*	*360*	*440*	*425*	*560*	*100*	*25*	*10*	*42*	*200*	*150*	*65*	*660*	*560*	*250*	*200*	*455*			*180*	*60*	*105*	*64*	*18*
	250-315/01	*11.8*	*9.8*	*9.8*	*25.6*	*12.8*	*16.1*	*15.7*	*22.0*	*5.1*	*1.2*	*0.4*	*1.7*	*10.2*	*7.5*	*2.6*	*27.2*	*22.0*	*9.8*	*7.9*	*17.9*	M24	M12	*7.1*	*2.4*	*4.1*	*2.5*	*0.7*
		300	250	250	650	325	408	400	560	130	30	10	42	260	190	65	690	560	250	200	455			180	60	105	64	18
	250-400/01	*11.8*	*9.8*	*8.9*	*25.6*	*13.8*	*17.3*	*15.7*	*23.6*	*4.7*	*1.2*	*0.4*	*1.7*	*11.0*	*7.9*	*2.6*	*24.8*	*19.7*	*9.8*	*7.9*	*17.9*	M27	M12	*7.1*	*2.4*	*4.1*	*2.5*	*0.7*
		300	250	225	650	350	440	400	600	120	30	10	42	280	200	65	630	500	250	200	455			180	60	105	64	18

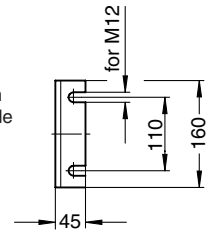
Unit dimensions - Series NBWH / CBWH
Sizes with a shaft diameter of 32 at the shaft seal

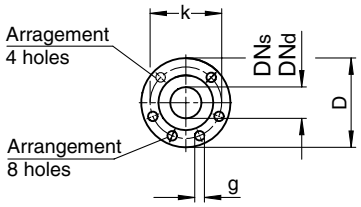


Tolerances of companion dimensions according to DIN EN 735

Direction of rotation: clockwise, as seen from the driving side

Dimensions subject to alteration.





Series NBWH

Flanges acc. to En 1092-2 PN 16											
Nominal Flange Sizes		D		bf		k		g			
Ansi Inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	No. of holes	
1.00	25	4.25	115	0.56	16	3.12	.85	0.62	14	4	
1.50	32	4.62	140	0.62	18	3.50	100	0.62	19	4	
1.50	40	5.00	150	0.69	18	3.88	110	0.62	19	4	
2.00	50	6.00	165	0.75	20	4.75	125	0.75	19	4	
2.50	65	7.00	185	0.88	20	5.50	145	0.75	19	4	
3.00	80	7.50	200	0.94	22	6.00	160	0.75	19	8	
4.00	100	9.00	220	0.94	24	7.50	180	0.75	19	8	
5.00	125	10.00	250	0.94	26	8.50	210	0.88	19	8	

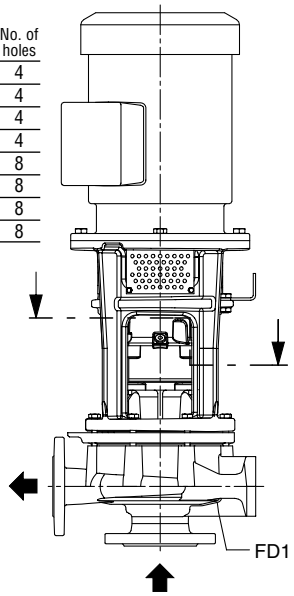
Connections				
Draining		Filling/ Bleeding		Leakage outlet
FD1	FD2	FF2 / FV1	FF4 / FV4	LO1
G 1/4	G 1/4	G 1/4	G 1/4 only for vertical installation	G 1/4

Connection FD1 in size 25-160/11 and 25-200/01 each G 1/2

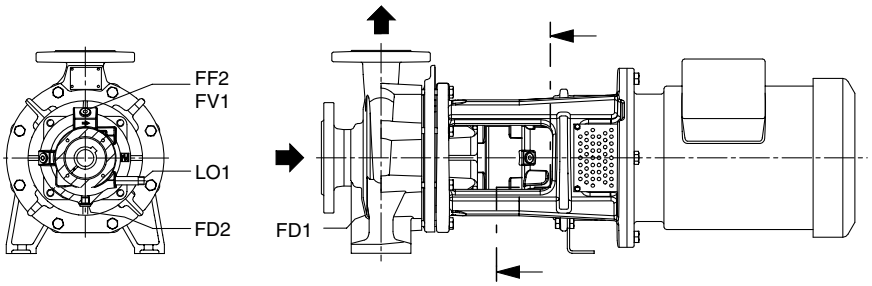
Series CBWH

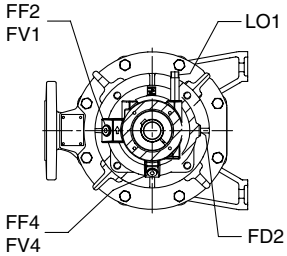
Flanges acc. to En 1092-2 PN 25											
Nominal Flange Sizes		D		bf		k		g			
Ansi Inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	No. of holes	
1.00	25	4.88	15	0.69	18	3.50	85	0.75	14	4	
1.50	32	5.25	40	0.75	20	3.88	100	0.75	19	4	
1.50	40	6.12	50	0.81	20	4.50	110	0.88	19	4	
2.00	50	6.50	165	0.88	22	5.00	125	0.75	19	4	
2.50	65	7.50	185	1.00	24	5.88	145	0.88	19	8	
3.00	80	8.25	200	1.12	26	6.62	160	0.88	19	8	
4.00	100	10.00	235	1.25	28	7.88	190	0.90	23	8	
5.00	125	11.00	270	1.18	30	9.25	220	1.10	28	8	

Connections				
Draining		Filling/ Bleeding		Leakage outlet
FD1	FD2	FF2 / FV1	FF4 / FV4	LO1
G 1/2	G 1/4	G 1/4	G 1/4 only for vertical installation	G 1/4



Connections for horizontal and vertical installation





Unit dimensions - Series NBWH

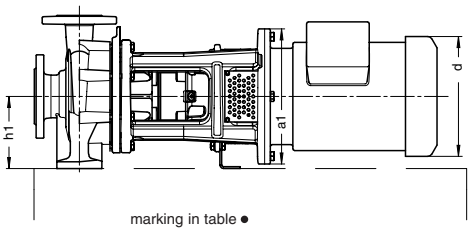
The motor dimensions as indicated are approximate values.
Exact data depend on the motor make.

When using special motors, it must be noted that depending upon the enclosure, different performances are allocated to the individual sizes. The main dimensions are changed accordingly.
Attention: Motors provided by the client must also contain a axial thrust bearing on the drive side!
Binding motor dimension information must be submitted with each order.

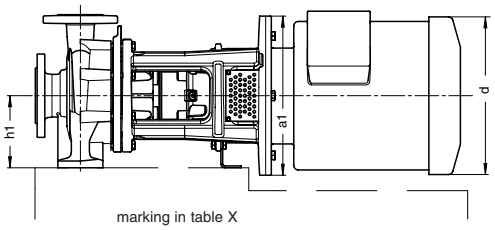
$h1 > \frac{a_1}{2}$ or $\frac{d}{2}$

Base plate and/or foundation design

$h1 \leq \frac{a_1}{2}$ or $\frac{d}{2}$



marking in table ●



marking in table X

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

n= 1450 / 1750 1/min

Pump size	Motor Size	Base plate and/or foundation design (see above)	Performance kW		Unit dimensions: Pump: Flanges DNs	DNd	Feet a	f	b1	b2	h1	h2	b	c	m1	m2	n1	n2	s1	Motor dimensions Approximate dimensions different according to manufacturer a1	d	h3	l1	l	Extension dim. x	Assignment plug-in shaft/motor stool
25-160/11	80	●	0.55	0.75	*1.5* 40	*1.0* 25	*3.1* 80	*14.6* 371	*5.0* 128	*5.0* 128	*5.2* 132	*6.3* 160	*2.0* 50	*5.9* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.0* 685	*4.0* 102	19/200
25-200/01	80	●	0.55	0.75	*1.5* 40	*1.0* 25	*3.1* 80	*14.6* 371	*5.2* 132	*5.2* 132	*6.3* 160	*7.1* 180	*2.0* 50	*5.9* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.0* 685	*4.0* 102	19/200
	90S	●	1.1																		*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
32-160/01	80	●	0.55	0.75	*2.0* 50	*1.3* 32	*3.1* 80	*14.6* 371	*4.8* 123	*4.8* 123	*5.2* 132	*6.3* 160	*2.0* 50	*5.9* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.0* 685	*4.0* 102	19/200
	90S	●	1.1																		*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	90L	●	1.5																		*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	100L	●	2.2	3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.0* 763		28/250
32-200/01	80	●	0.55	0.75	*2.0* 50	*1.3* 32	*3.1* 80	*14.6* 371	*4.9* 124	*5.1* 130	*6.3* 160	*7.1* 180	*2.0* 50	*5.9* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.0* 685	*4.0* 102	19/200
	90S	●	1.1																		*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	90L	●	1.5																		*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	100L	●	2.2	3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.0* 763		28/250
40-160/01	80	●	0.55	0.75	*2.5* 65	*1.5* 40	*3.1* 80	*14.6* 371	*4.8* 123	*4.8* 123	*5.2* 132	*6.3* 160	*2.0* 50	*5.9* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.0* 685	*4.0* 102	19/200
	90S	●	1.1																		*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	90L	●	1.5																		*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	100L	●	2.2	3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.0* 763		28/250
40-200/01	80	●	0.55	0.75	*2.5* 65	*1.5* 40	*3.9* 100	*14.6* 371	*4.9* 125	*5.3* 135	*6.3* 160	*7.1* 180	*2.0* 50	*5.9* 15	*3.9* 100	*2.8* 70	*10.4* 265	*8.1* 212	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.8* 705	*4.0* 102	19/200
	90S	●	1.1																		*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	90L	●	1.5																		*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	100L	●	2.2	3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.8* 783		28/250
40-250/01	90S	●	1.1		*2.5* 65	*1.5* 40	*3.9* 100	*14.6* 371	*5.9* 150	*6.1* 156	*7.1* 180	*8.9* 225	*2.6* 65	*5.9* 15	*4.9* 125	*3.7* 95	*12.6* 320	*9.8* 250	M12	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*27.8* 705	*3.3* 85	24/200
	90L	●	1.5																		*7.1* 181	*5.1* 130	*11.1* 282	*27.8* 705		24/200
	100L	●	2.2	3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.8* 783		28/250
	112M	●	4																		*9.0* 228	*6.7* 171	*13.2* 335	*31.7* 806		28/250
	132S	●	5.5						*16.2* 412											*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887		38/300

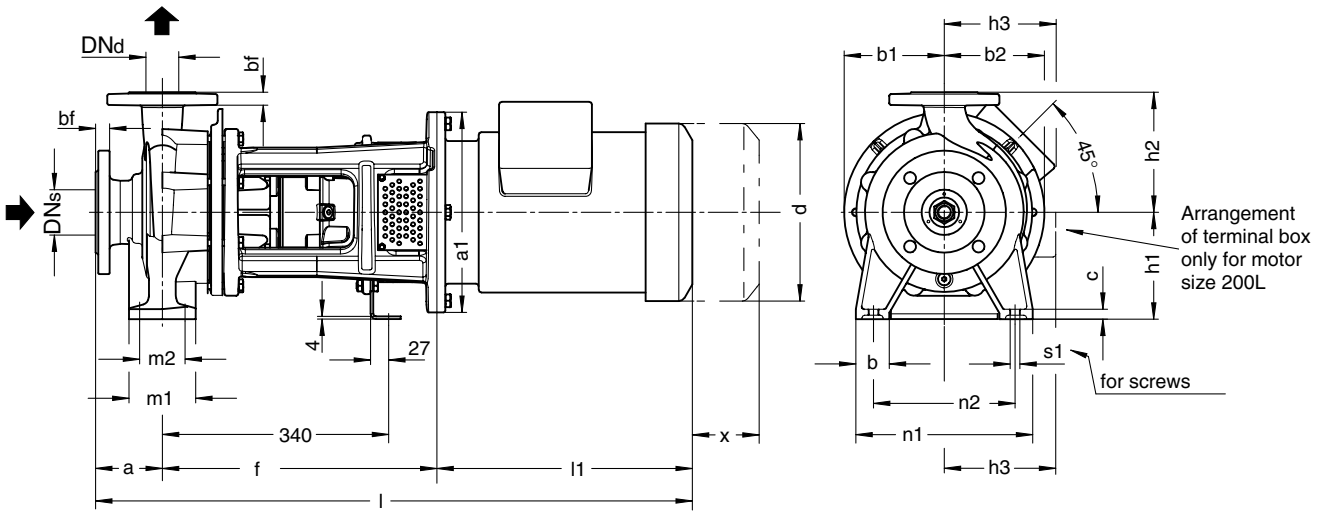
Unit dimensions - Series NBWH

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

n= 1450 / 1750 1/min

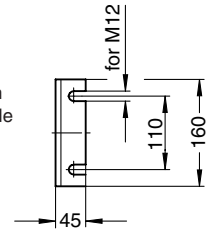
Pump size	Motor Size	Base plate and/or foundation design (see above)	Performance	Unit dimensions																					Assignment plug-in shaft/motor stool
				Pump																Motor dimensions Approximate dimensions different according to manufacturer					Extension dim.	
				Flanges								Feet														
			kW	DNs	DNd	a	f	b1	b2	h1	h2	b	c	m1	m2	n1	n2	s1	a1	d	h3	l1	l	x	
50-160/01	80	●	0.55 0.75	*2.6* 65	*2.0* 50	*3.9* 100	*14.6* 371	*4.9* 125	*5.1* 130	*6.3* 160	*7.1* 180	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*10.4* 265	*8.3* 212	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*28.0* 705	*4.0* 102	19/200
	90S	●	1.1																	*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	90L	●	1.5																	*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	100L	●	2.2 3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.8* 783		28/250
50-200/01	80	●	0.55 0.75	*2.6* 65	*2.0* 50	*3.9* 100	*14.6* 371	*5.2* 133	*5.7* 145	*6.3* 160	*7.9* 200	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*10.4* 265	*8.3* 212	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*28.0* 705	*4.0* 102	19/200
	90S	●	1.1																	*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	90L	●	1.5																	*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	100L	●	2.2 3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.8* 783		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*31.7* 806		28/250
	132S	●	5.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887		38/300
50-250/01	90L	●	1.5	*2.6* 65	*2.0* 50	*3.9* 100	*14.6* 371	*6.1* 156	*6.7* 169	*7.1* 180	*8.9* 225	*2.6* 65	*0.6* 15	*4.9* 125	*3.7* 95	*12.6* 320	*9.8* 250	M12	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753	*3.3* 85	24/200
	100L	●	2.2 3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.8* 783		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*31.7* 806		28/250
	132S	●	5.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887		38/300
	132M	●	7.5																	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887		38/300
65-160/01	80	●	0.55 0.75	*3.1* 80	*2.6* 65	*3.9* 100	*14.6* 371	*5.2* 133	*6.4* 162	*6.3* 160	*7.9* 200	*2.6* 65	*0.6* 15	*4.9* 125	*3.7* 95	*11.0* 280	*8.3* 212	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*28.0* 705	*4.0* 102	19/200
	90S	●	1.1																	*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	90L	●	1.5																	*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	100L	●	2.2 3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.8* 783		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*31.7* 806		28/250
65-200/02	90S	●	1.1	*3.1* 80	*2.6* 65	*3.9* 100	*14.6* 371	*6.3* 160	*6.7* 170	*7.1* 180	*8.9* 225	*2.6* 65	*0.6* 15	*4.9* 125	*3.7* 95	*12.6* 320	*9.8* 250	M12	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753	*4.0* 102	24/200
	90L	●	1.5																	*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	100L	●	2.2 3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.8* 783		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*31.7* 806		28/250
	132S	●	5.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887		38/300
	132M	●	7.5																	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887		38/300
80-160/01	90S	●	1.1	*3.9* 100	*3.1* 80	*4.9* 125	*14.6* 371	*5.4* 136	*6.7* 170	*7.1* 180	*8.9* 225	*2.6* 65	*0.6* 15	*4.9* 125	*3.7* 95	*12.6* 320	*9.8* 250	M12	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*30.6* 778	*4.0* 102	24/200
	90L	●	1.5																	*7.1* 181	*5.1* 130	*11.1* 282	*30.6* 778		24/200
	100L	●	2.2 3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*31.8* 808		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*32.7* 831		28/250
	132S	●	5.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.9* 912		38/300
100-160/01	90L	●	1.5	*4.9* 125	*3.9* 100	*4.9* 125	*14.6* 371	*6.5* 165	*7.9* 200	*7.9* 200	*11.0* 280	*2.6* 65	*0.6* 15	*4.9* 125	*3.7* 95	*12.6* 320	*9.8* 250	M12	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*30.6* 778	*4.0* 102	24/200
	100L	●	2.2 3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*31.8* 808		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*32.7* 831		28/250
	132S	●	5.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.9* 912		38/300
	132M	●	7.5																	*10.5* 266	*7.7* 196	*14.8* 375	*35.9* 912		38/300

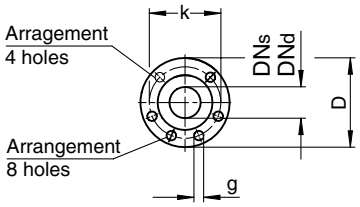
Unit dimensions - Series NBWH / CBWH
Sizes with a shaft diameter of 32 at the shaft seal



Tolerances of companion dimensions according to DIN EN 735

Direction of rotation: clockwise, as seen from the driving side





Dimensions subject to alteration.

Series NBWH

Flanges acc. to En 1092-2 PN 16											
Nominal Flange Sizes		D		bf		k		g			
Ansi Inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	No. of holes	
1.00	25	4.25	115	0.56	16	3.12	.85	0.62	14	4	
1.50	32	4.62	140	0.62	18	3.50	100	0.62	19	4	
1.50	40	5.00	150	0.69	18	3.88	110	0.62	19	4	
2.00	50	6.00	165	0.75	20	4.75	125	0.75	19	4	
2.50	65	7.00	185	0.88	20	5.50	145	0.75	19	4	
3.00	80	7.50	200	0.94	22	6.00	160	0.75	19	8	
4.00	100	9.00	220	0.94	24	7.50	180	0.75	19	8	
5.00	125	10.00	250	0.94	26	8.50	210	0.88	19	8	

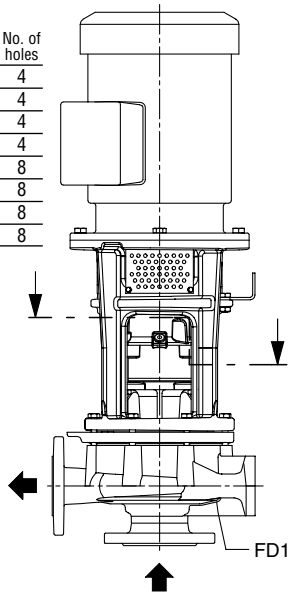
Connections				
Draining		Filling/ Bleeding		Leakage outlet
FD1	FD2	FF2 / FV1	FF4 / FV4	LO1
G 1/4	G 1/4	G 1/4	G 1/4 only for vertical installation	G 1/4

Connection FD1 in size 25-160/11 and 25-200/01 each G 1/2

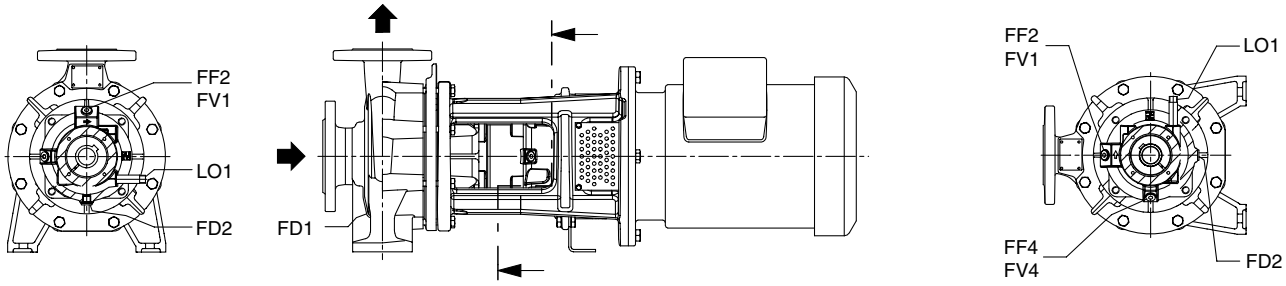
Series CBWH

Flanges acc. to En 1092-2 PN 25										
Nominal Flange Sizes		D		bf		k		g		
Ansi Inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	No. of holes
1.00	25	4.88	15	0.69	18	3.50	85	0.75	14	4
1.50	32	5.25	40	0.75	20	3.88	100	0.75	19	4
1.50	40	6.12	50	0.81	20	4.50	110	0.88	19	4
2.00	50	6.50	165	0.88	22	5.00	125	0.75	19	4
2.50	65	7.50	185	1.00	24	5.88	145	0.88	19	8
3.00	80	8.25	200	1.12	26	6.62	160	0.88	19	8
4.00	100	10.00	235	1.25	28	7.88	190	0.90	23	8
5.00	125	11.00	270	1.18	30	9.25	220	1.10	28	8

Connections				
Draining		Filling/ Bleeding		Leakage outlet
FD1	FD2	FF2 / FV1	FF4 / FV4	LO1
G 1/2	G 1/4	G 1/4	G 1/4 only for vertical installation	G 1/4



Connections for horizontal and vertical installation



Unit dimensions - Series NBWH

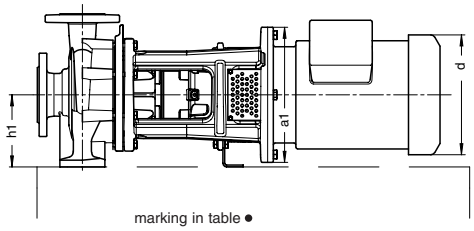
The motor dimensions as indicated are approximate values. Exact data depend on the motor make.

When using special motors, it must be noted that depending upon the enclosure, different performances are allocated to the individual sizes. The main dimensions are changed accordingly.
Attention: Motors provided by the client must also contain a axial thrust bearing on the drive side!
Binding motor dimension information must be submitted with each order.

$h1 > \frac{a_1}{2}$ or $\frac{d}{2}$

Base plate and/or foundation design

$h1 \leq \frac{a_1}{2}$ or $\frac{d}{2}$



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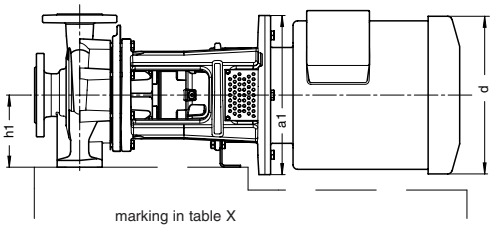


marking in table X

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

n= 2900 / 3500 1/min

Pump size	Motor Size	Base plate and/or foundation design (see above)	Performance	Unit dimensions																					Assignment plug-in shaft/motor stool
				Pump															Motor dimensions Approximate dimensions different according to manufacturer					Extension dim.	
				Flanges		Feet																			
			kW	DNs	DNd	a	f	b1	b2	h1	h2	b	c	m1	m2	n1	n2	s1	a1	d	h3	l1	l	x	
25-160/11	80	●	0.75 1.1	*1.6* 40	*1.0* 25	*3.1* 80	*14.6* 371	*5.0* 128	*5.0* 128	*5.2* 132	*6.3* 160	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.0* 685	*4.0* 102	19/200
	90S	●	1.5																	*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	90L	●	2.2																	*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	100L	●	3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.0* 763		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*30.9* 786		28/250
25-200/01	90S	●	1.5	*1.6* 40	*1.0* 25	*3.1* 80	*14.6* 371	*5.2* 132	*5.2* 132	*6.3* 160	*7.1* 180	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733	*4.0* 102	24/200
	90L	●	2.2																	*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	100L	●	3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.0* 763		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*30.9* 786		28/250
	132S	●	5.5 7.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.1* 867		38/300
32-160/01	90L	●	2.2	*2.0* 50	*1.3* 32	*3.1* 80	*14.6* 371	*4.8* 123	*4.8* 123	*5.2* 132	*6.3* 160	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733	*4.0* 102	24/200
	100L	●	3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.0* 763		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*30.9* 786		28/250
	132S	X	5.5 7.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.1* 867		38/300
	160M	X	11 15																*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*38.3* 973		42/350
32-200/01	112M	●	4	*2.0* 50	*1.3* 32	*3.1* 80	*14.6* 371	*4.8* 124	*5.1* 130	*6.3* 160	*7.1* 180	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*9.8* 250	*9.0* 228	*6.7* 171	*13.2* 335	*30.9* 786	*4.0* 102	28/250
	132S	●	5.5 7.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.1* 867		38/300
	160M	X	11 15																*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*38.3* 973		42/350
	160L	X	18.5																	*12.6* 320	*9.2* 234	*18.9* 481	*38.3* 973		42/350

(chart continued on next page)

Unit dimensions - Series NBWH

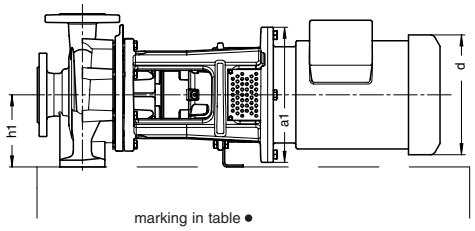
The motor dimensions as indicated are approximate values. Exact data depend on the motor make.

When using special motors, it must be noted that depending upon the enclosure, different performances are allocated to the individual sizes. The main dimensions are changed accordingly.
Attention: Motors provided by the client must also contain a axial thrust bearing on the drive side!
Binding motor dimension information must be submitted with each order.

$h1 > \frac{a_1}{2}$ or $\frac{d}{2}$

Base plate and/or foundation design

$h1 \leq \frac{a_1}{2}$ or $\frac{d}{2}$



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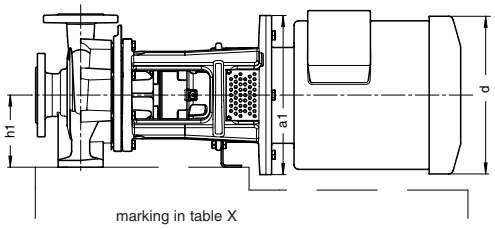

marking in table X

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

n= 2900 / 3500 1/min

Pump size	Motor Size	Base plate and/or foundation design (see above)	Performance	Unit dimensions																					Assignment plug-in shaft/motor stool
				Pump															Motor dimensions Approximate dimensions different according to manufacturer					Extension dim.	
				Flanges		Feet																			
			kW	DNs	DNd	a	f	b1	b2	h1	h2	b	c	m1	m2	n1	n2	s1	a1	d	h3	l1	l	x	
40-160/01	90L	●	2.2	*2.6* 65	*1.6* 40	*3.1* 80	*14.6* 371	*4.8* 123	*4.8* 123	*5.2* 132	*6.3* 160	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733	*4.0* 102	24/200
	100L	●	3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.0* 763		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*30.9* 786		28/250
	132S	X	5.5 7.5																*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.1* 867		38/300
	160M	X	11 15				*16.2* 412												*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*38.3* 973		42/350
	160L	X	18.5																	*12.6* 320	*9.2* 234	*18.9* 481	*38.3* 973		42/350
40-200/01	112M	●	4	*2.6* 65	*1.6* 40	*3.9* 100	*14.6* 371	*4.9* 125	*5.3* 135	*6.3* 160	*7.1* 180	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*10.4* 265	*8.3* 212	M12	*9.8* 250	*9.0* 228	*6.7* 171	*13.2* 335	*31.7* 806	*4.0* 102	28/250
	132S	●	5.5 7.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887		38/300
	160M	X	11 15																	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	160L	X	18.5																*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	180M	X	22																	*14.8* 375	*10.8* 275	*24.0* 610	*44.2* 1122		48/350
	200L	X	30 37																*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*46.3* 1177		55/400

Unit dimensions - Series NBWH

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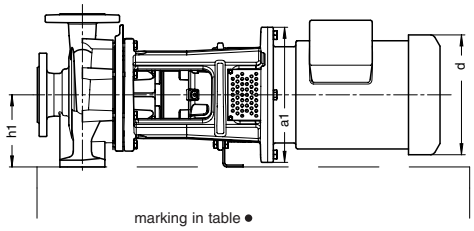
$h1 > \frac{a_1}{2}$ or $\frac{d}{2}$

Base plate and/or foundation design

$h1 \leq \frac{a_1}{2}$ or $\frac{d}{2}$



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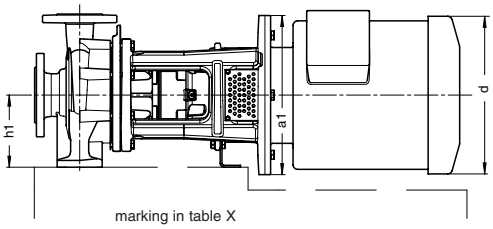


marking in table X

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

n= 2900 / 3500 1/min

Pump size	Motor Size	Base plate and/or foundation design (see above)	Performance kW		Unit dimensions																					Assignment plug-in shaft/motor stool
					Pump														Motor dimensions Approximate dimensions different according to manufacturer					Extension dim.	
					Flanges		Feet																			
					DNs	DNd	a	f	b1	b2	h1	h2	b	c	m1	m2	n1	n2	s1	a1	d	h3	l1	l	x	
40-250/01	132S	●	5.5	7.5	*2.6* 65	*1.6* 40	*3.9* 100	*16.2* 412	*5.9* 150	*6.1* 156	*7.1* 180	*8.9* 225	*2.6* 65	*0.6* 15	*4.9* 125	*3.7* 95	*12.6* 320	*9.8* 250	M12	*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887	*3.3* 85	38/300
	160M	●	11	15																	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	160L	●	18.5																	*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	180M	X	22																		*14.8* 375	*10.8* 275	*24.0* 610	*44.2* 1122		48/350
	200L	X	30	37																*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*46.3* 1177		55/400
50-160/01	100L	●	3		*2.6* 65	*2.0* 50	*3.9* 100	*14.6* 371	*4.9* 125	*5.1* 130	*6.3* 160	*7.1* 180	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*10.4* 265	*8.3* 212	M12	*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.8* 783	*4.0* 102	28/250
	112M	●	4																		*9.0* 228	*6.7* 171	*13.2* 335	*31.7* 80.6		28/250
	132S	●	5.5	7.5																*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887		38/300
	160M	X	11	15				*16.2* 412												*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	160L	X	18.5																		*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
50-200/01	132S	●	5.5	7.5	*2.6* 65	*2.0* 50	*3.9* 100	*16.2* 412	*5.2* 133	*5.7* 145	*6.3* 160	*7.9* 200	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*10.4* 265	*8.3* 212	M12	*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887	*4.0* 102	38/300
	160M	X	11	15																	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	160L	X	18.5																	*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	180M	X	22																		*14.8* 375	*10.8* 275	*24.0* 610	*44.2* 1122		48/350
	200L	X	30	37																*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*46.3* 1177		55/400
50-250/01	160M	●	11	15	*2.6* 65	*2.0* 50	*3.9* 100	*16.2* 412	*6.1* 156	*6.7* 169	*7.1* 180	*8.9* 225	*2.6* 65	*0.6* 15	*4.9* 125	*3.7* 95	*12.6* 320	*9.8* 250	M12		*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993	*3.3* 85	42/350
	160L	●	18.5																	*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	180M	X	22																		*14.8* 375	*10.8* 275	*24.0* 610	*44.2* 1122		48/350
	200L	X	30	37																*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*46.3* 1177		55/400

(chart continued on next page)

Unit dimensions - Series NBWH

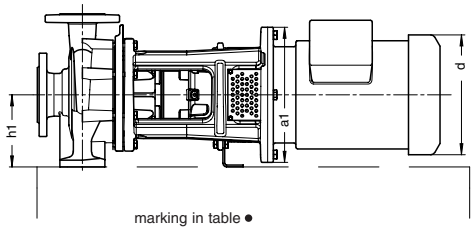
The motor dimensions as indicated are approximate values. Exact data depend on the motor make.

When using special motors, it must be noted that depending upon the enclosure, different performances are allocated to the individual sizes. The main dimensions are changed accordingly.
Attention: Motors provided by the client must also contain a axial thrust bearing on the drive side!
Binding motor dimension information must be submitted with each order.

$h1 > \frac{a_1}{2}$ or $\frac{d}{2}$

Base plate and/or foundation design

$h1 \leq \frac{a_1}{2}$ or $\frac{d}{2}$



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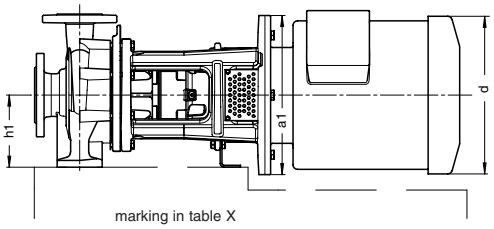

marking in table X

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

n= 2900 / 3500 1/min

Pump size	Motor Size	Base plate and/or foundation design (see above)	Performance kW		Unit dimensions: Pump: Flanges DNs	DNd	Feet a	f	b1	b2	h1	h2	b	c	m1	m2	n1	n2	s1	Motor dimensions Approximate dimensions different according to manufacturer a1	d	h3	l1	l	Extension dim. x	Assignment plug-in shaft/motor stool
65-160/01	112M	●	4		*3.1* 80	*2.6* 65	*3.9* 100	*14.6* 371	*5.2* 133	*6.4* 162	*6.3* 160	*7.9* 200	*2.6* 65	*0.6* 15	*4.9* 125	*3.7* 95	*11.0* 280	*8.3* 212	M12	*9.8* 250	*9.0* 228	*6.7* 171	*13.2* 335	*31.7* 806	*4.0* 102	28/250
	132S	●	5.5	7.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887		38/300
	160M	X	11	15																	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	160L	X	18.5																	*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	180M	X	22																		*14.8* 375	*10.8* 275	*24.0* 610	*44.2* 1122		48/350
	200L	X	30	37																*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*46.3* 1177		55/400
65-200/02	132S	●	5.5	7.5	*3.1* 80	*2.6* 65	*3.9* 100	*16.2* 412	*6.3* 160	*6.7* 170	*7.1* 180	*8.9* 225	*2.6* 65	*0.6* 15	*4.9* 125	*3.7* 95	*12.6* 320	*9.8* 250	M12	*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887	*4.0* 102	38/300
	160M	●	11	15																	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	160L	●	18.5																	*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	180M	X	22																		*14.8* 375	*10.8* 275	*24.0* 610	*44.2* 1122		48/350
	200L	X	30	37																*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*46.3* 1177		55/400
80-160/01	132S	●	5.5	7.5	*3.9* 100	*3.1* 80	*4.9* 125	*16.2* 412	*5.4* 136	*6.7* 170	*7.1* 180	*8.9* 225	*2.6* 65	*0.6* 15	*4.9* 125	*3.7* 95	*12.6* 320	*9.8* 250	M12	*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.9* 912	*4.0* 102	38/300
	160M	●	11	15																	*12.6* 320	*9.2* 234	*18.9* 481	*40.1* 1018		42/350
	160L	●	18.5																	*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*40.1* 1018		42/350
	180M	X	22																		*14.8* 375	*10.8* 275	*24.0* 610	*46.3* 1147		48/350
	200L	X	30	37																*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*47.3* 1202		55/400
100-160/01	132S	●	5.5	7.5	*4.9* 125	*3.9* 100	*4.9* 125	*16.2* 412	*6.5* 165	*7.9* 200	*7.9* 200	*11.0* 280	*2.6* 65	*0.6* 15	*4.9* 125	*3.7* 95	*12.6* 320	*9.8* 250	M12	*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.9* 912	*4.0* 102	38/300
	160M	●	11	15																	*12.6* 320	*9.2* 234	*18.9* 481	*40.1* 1018		42/350
	160L	●	18.5																	*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*40.1* 1018		42/350
	180M	●	22																		*14.8* 375	*10.8* 275	*24.0* 610	*46.3* 1147		48/350
	200L	X	30	37																*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*47.3* 1202		55/400

Unit dimensions - Series CBWH

The motor dimensions as indicated are approximate values. Exact data depend on the motor make.

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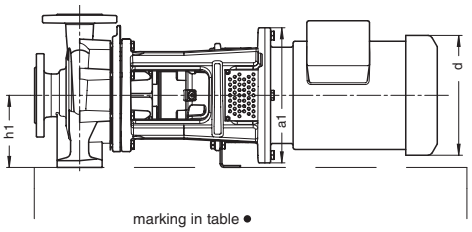
Attention: Motors provided by the client must also contain a axial thrust bearing on the drive side!
Binding motor dimension information must be submitted with each order.

$h1 > \frac{a_1}{2}$ or $\frac{d}{2}$

Base plate and/or foundation design

$h1 \leq \frac{a_1}{2}$ or $\frac{d}{2}$



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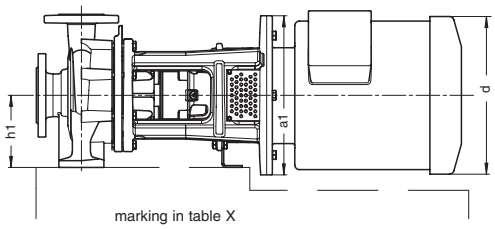


marking in table X

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

n= 1450 / 1750 1/min

Pump size	Motor Size	Base plate and/or foundation design (see above)	Performance kW		Unit dimensions: Pump – Flanges DNs	DNd	Feet a	f	b1	b2	h1	h2	b	c	m1	m2	n1	n2	s1	Motor dimensions Approximate dimensions different according to manufacturer a1	d	h3	l1	l	Extension dim. x	Assignment plug-in shaft/motor stool
25-160/11	80	●	0.55	0.75	*1.6* 40	*1.0* 25	*3.1* 80	*14.6* 371	*5.0* 128	*5.0* 128	*5.2* 132	*6.3* 160	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.0* 685	*4.0* 102	19/200
25-200/01	80	●	0.55	0.75	*1.5* 40	*1.0* 25	*3.1* 80	*14.6* 371	*5.2* 132	*5.2* 132	*6.3* 160	*7.1* 180	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.0* 685	*4.0* 102	19/200
	90S	●	1.1																		*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	90L	●	1.5																		*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
32-160/11	80	●	0.55	0.75	*2.0* 50	*1.3* 32	*3.1* 80	*14.6* 371	*5.1* 130	*5.1* 130	*5.2* 132	*6.3* 160	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.0* 685	*4.0* 102	19/200
	90S	●	1.1																		*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	90L	●	1.5																		*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
32-200/11	80	●	0.55	0.75	*2.0* 50	*1.3* 32	*3.1* 80	*14.6* 371	*5.1* 130	*5.3* 135	*6.3* 160	*7.1* 180	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.0* 685	*4.0* 102	19/200
	90S	●	1.1																		*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	90L	●	1.5																		*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	100L	●	2.2	3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.0* 763		28/250
40-160/11	80	●	0.55	0.75	*2.5* 65	*1.6* 40	*3.1* 80	*14.6* 371	*5.1* 130	*5.1* 130	*5.2* 132	*6.3* 160	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.0* 685	*4.0* 102	19/200
	90S	●	1.1																		*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	90L	●	1.5																		*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	100L	●	2.2	3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.0* 763		28/250
40-200/11	80	●	0.55	0.75	*2.5* 65	*1.6* 40	*3.9* 100	*14.6* 371	*5.1* 130	*5.5* 140	*6.3* 160	*7.1* 180	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*10.4* 265	*8.3* 212	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.8* 705	*4.0* 102	19/200
	90S	●	1.1																		*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	90L	●	1.5																		*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	100L	●	2.2	3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.8* 783		28/250

(chart continued on next page)

Unit dimensions - Series CBWH

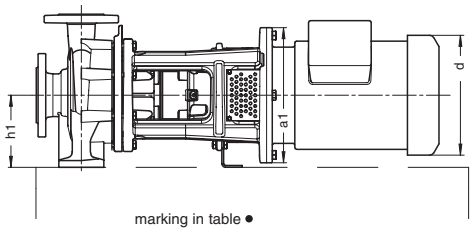
The motor dimensions as indicated are approximate values. Exact data depend on the motor make.

When using special motors, it must be noted that depending upon the enclosure, different performances are allocated to the individual sizes. The main dimensions are changed accordingly.
Attention: Motors provided by the client must also contain a axial thrust bearing on the drive side!
Binding motor dimension information must be submitted with each order.

$h1 > \frac{a_1}{2}$ or $\frac{d}{2}$

Base plate and/or foundation design

$h1 \leq \frac{a_1}{2}$ or $\frac{d}{2}$



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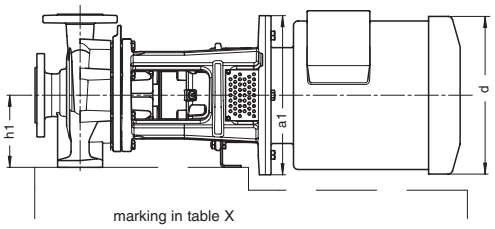

marking in table X

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

n= 1450 / 1750 1/min

Pump size	Motor Size	Base plate and/or foundation design (see above)	Performance	Unit dimensions																						Assignment plug-in shaft/motor stool
				Pump															Motor dimensions Approximate dimensions different according to manufacturer					Extension dim.	
				Flanges		Feet																				
			kW	DNs	DNd	a	f	b1	b2	h1	h2	b	c	m1	m2	n1	n2	s1	a1	d	h3	l1	l	x	
50-160/11	80	●	0.55 0.75	*3.0* 80	*2.0* 50	*3.9* 100	*14.6* 371	*5.1* 130	*5.1* 130	*6.3* 160	*7.1* 180	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*10.4* 265	*8.3* 212	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.8* 705	*4.0* 102	19/200
	90S	●	1.1																	*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	90L	●	1.5																	*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	100L	●	2.2 3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.8* 783		28/250
50-200/11	80	●	0.55 0.75	*3.0* 80	*2.0* 50	*3.9* 100	*14.6* 371	*5.3* 135	*5.9* 150	*6.3* 160	*7.9* 200	*2.0* 50	*0.6* 15	*3.9* 100	*2.8* 70	*10.4* 265	*8.3* 212	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.8* 705	*4.0* 102	19/200
	90S	●	1.1																	*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	90L	●	1.5																	*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	100L	●	2.2 3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.8* 783		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*31.7* 806		28/250
	132S	●	5.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887		38/300
65-160/11	80	●	0.55 0.75	*4.0* 100	*2.6* 65	*3.9* 100	*14.6* 371	*5.1* 130	*6.1* 155	*6.3* 160	*7.9* 200	*2.6* 65	*0.6* 15	*4.9* 125	*3.7* 95	*11.0* 280	*8.3* 212	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.8* 705	*4.0* 102	19/200
	90S	●	1.1																	*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	90L	●	1.5																	*7.1* 181	*5.1* 130	*11.1* 282	*29.6* 753		24/200
	100L	●	2.2 3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.8* 783		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*31.7* 806		28/250
80-160/11	90S	●	1.1	*5.0* 125	*3.1* 80	*4.9* 125	*14.6* 371	*5.7* 145	*7.1* 180	*7.1* 180	*8.9* 225	*2.6* 65	*0.6* 15	*4.9* 125	*3.7* 95	*12.6* 320	*8.3* 250	M12	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*30.6* 778	*4.0* 102	24/200
	90L	●	1.5																	*7.1* 181	*5.1* 130	*11.1* 282	*30.6* 778		24/200
	100L	●	2.2 3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*31.8* 808		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*32.7* 831		28/250
	132S	●	5.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.9* 912		38/300

Unit dimensions - Series CBWH

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Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

n= 2900 / 3500 1/min

Pump size	Motor Size	Base plate and/or foundation design (see above)	Performance	Unit dimensions																					Assignment plug-in shaft/motor stool
				Pump															Motor dimensions Approximate dimensions different according to manufacturer					Extension dim.	
				Flanges		Feet																			
			kW	DNs	DNd	a	f	b1	b2	h1	h2	b	c	m1	m2	n1	n2	s1	a1	d	h3	l1	l	x	
25-160/11	80	●	0.75 1.1	*1.5* 40	*1.0* 25	*3.1* 80	*14.6* 371	*5.0* 128	*5.0* 128	*5.2* 132	*6.3* 160	*2.0* 50	*5.9* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*26.9* 685	*4.0* 102	19/200
	90S	●	1.5																	*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	90L	●	2.2																	*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	100L	●	3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.0* 763		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*1.4* 335	*30.9* 786		28/250
25-200/01	90S	●	1.5	*1.5* 40	*1.0* 25	*3.1* 80	*14.6* 371	*5.2* 132	*5.2* 132	*6.3* 160	*7.1* 180	*2.0* 50	*5.9* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733	*4.0* 102	24/200
	90L	●	2.2																	*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733		24/200
	100L	●	3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.0* 763		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*30.9* 786		28/250
	132S	●	5.5 7.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.1* 867		38/300
32-160/11	90L	●	2.2	*2.0* 50	*1.25* 32	*3.1* 80	*14.6* 371	*5.1* 130	*5.1* 130	*5.2* 132	*6.3* 160	*2.0* 50	*5.9* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*28.9* 733	*4.0* 102	24/200
	100L	●	3																*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.0* 763		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*30.9* 786		28/250
	132S	X	5.5 7.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.1* 867		38/300
32-200/11	112M	●	4	*2.0* 50	*1.25* 32	*3.1* 80	*14.6* 371	*5.1* 130	*5.3* 135	*6.3* 160	*7.1* 180	*2.0* 50	*5.9* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*9.8* 250	*9.0* 228	*6.7* 171	*13.2* 335	*30.9* 786	*4.0* 102	28/250
	132S	●	5.5 7.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.1* 867		38/300
	160M	X	11 15																*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*38.3* 973		42/350
40-160/11	90L	●	2.2	*2.5* 65	*1.5* 40	*3.1* 80	*14.6* 371	*5.1* 130	*5.1* 130	*5.2* 132	*6.3* 160	*2.0* 50	*5.9* 15	*3.9* 100	*2.8* 70	*9.4* 240	*7.5* 190	M12	*7.9* 200	*6.4* 181	*4.9* 130	*9.2* 282	*27.0* 733	*4.0* 102	24/200
	100L	●	3																*9.8* 250	*7.1* 203	*5.1* 158	*11.1* 312	*28.9* 763		28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*30.9* 786		28/250
	132S	X	5.5 7.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.1* 867		38/300
	160M	X	11 15																*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*38.3* 973		42/350

(chart continued on next page)

Unit dimensions - Series CBWH

The motor dimensions as indicated are approximate values. Exact data depend on the motor make.

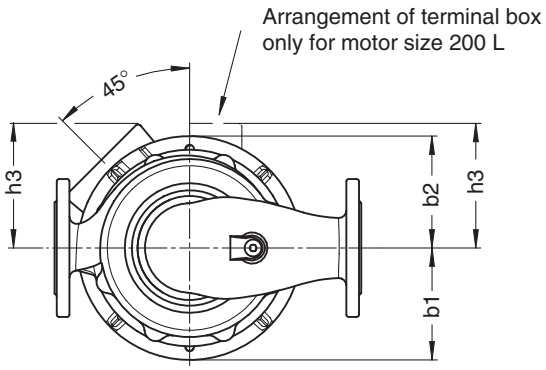
When using special motors, it must be noted that depending upon the enclosure, different performances are allocated to the individual sizes. The main dimensions are changed accordingly.
Attention: Motors provided by the client must also contain a axial thrust bearing on the drive side!
Binding motor dimension information must be submitted with each order.

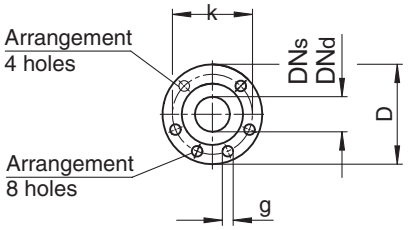
Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

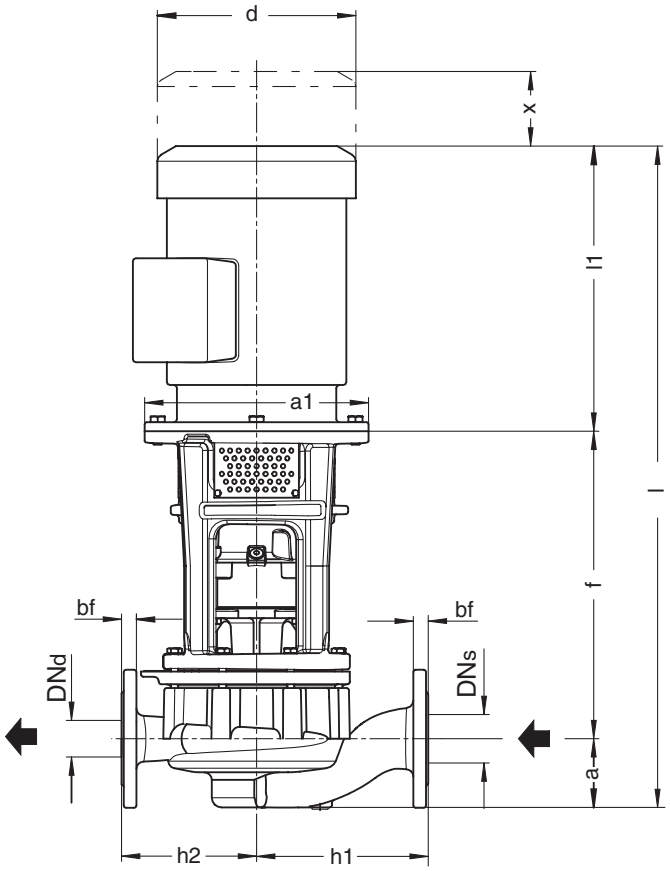
n= 2900 / 3500 1/min

Pump size	Motor Size	Base plate and/or foundation design (see above)	Performance	Unit dimensions																						Assignment plug-in shaft/motor stool
				Pump															Motor dimensions Approximate dimensions different according to manufacturer					Extension dim.	
				Flanges		Feet																				
			kW	DNs	DNd	a	f	b1	b2	h1	h2	b	c	m1	m2	n1	n2	s1	a1	d	h3	l1	l	x	
40-200/11	112M	●	4	*2.5* 65	*1.5* 40	*3.9* 100	*14.6* 371	*5.1* 130	*5.5* 140	*6.3* 160	*7.1* 180	*2.0* 50	*5.9* 15	*3.9* 100	*2.8* 70	*10.4* 265	*8.3* 212	M12	*9.8* 250	*9.0* 228	*6.7* 171	*13.2* 335	*31.7* 806	*4.0* 102	28/250
	132S	●	5.5 7.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887		38/300
	160M	X	11 15																*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	160L	X	18.5																	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
50-160/11	100L	●	3	*3.0* 80	*2.0* 50	*3.9* 100	*14.6* 371	*5.1* 130	*5.1* 130	*6.3* 160	*7.1* 180	*2.0* 50	*5.9* 15	*3.9* 100	*2.8* 70	*10.4* 265	*8.3* 212	M12	*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.8* 783	*4.0* 102	28/250
	112M	●	4																	*9.0* 228	*6.7* 171	*13.2* 335	*31.7* 80.6		28/250
	132S	●	5.5 7.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887		38/300
	160M	X	11 15																*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	160L	X	18.5																	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
50-200/11	132S	●	5.5 7.5	*3.0* 80	*2.0* 50	*3.9* 100	*16.2* 412	*5.3* 135	*5.9* 150	*6.3* 160	*7.9* 200	*2.0* 50	*5.9* 15	*3.9* 100	*2.8* 70	*10.4* 265	*8.3* 212	M12	*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887	*4.0* 102	38/300
	160M	X	11 15																	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	160L	X	18.5																*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	180M	X	22																	*14.8* 375	*10.8* 275	*24.0* 610	*44.2* 1122		48/350
	200L	X	30 37																*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*46.3* 1177		55/400
65-160/11	112M	●	4	*4.0* 100	*2.5* 65	*3.9* 100	*14.6* 371	*5.1* 130	*6.1* 155	*6.3* 160	*7.9* 200	*2.6* 65	*5.9* 15	*4.9* 125	*3.7* 95	*11.0* 280	*8.3* 212	M12	*9.8* 250	*9.0* 228	*6.7* 171	*13.2* 335	*31.7* 806	*4.0* 102	28/250
	132S	●	5.5 7.5				*16.2* 412												*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.9* 887		38/300
	160M	X	11 15																	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	160L	X	18.5																*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.1* 993		42/350
	180M	X	22																	*14.8* 375	*10.8* 275	*24.0* 610	*44.2* 1122		48/350
	200L	X	30 37																*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*46.3* 1177		55/400
80-160/11	132S	●	5.5 7.5	*5.0* 125	*3.0* 80	*4.9* 125	*16.2* 412	*5.7* 145	*7.1* 180	*7.1* 180	*8.9* 225	*2.6* 65	*5.9* 15	*4.9* 125	*3.7* 95	*12.6* 320	*9.8* 250	M12	*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.9* 912	*4.0* 102	38/300
	160M	●	11 15																	*12.6* 320	*9.2* 234	*18.9* 481	*40.1* 1018		42/350
	160L	●	18.5																*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*40.1* 1018		42/350
	180M	X	22																	*14.8* 375	*10.8* 275	*24.0* 610	*45.2* 1147		48/350
	200L	X	30 37																*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*47.3* 1202		55/400

Unit dimensions - Series NIWH
Sizes with a shaft diameter of 32 at the shaft seal



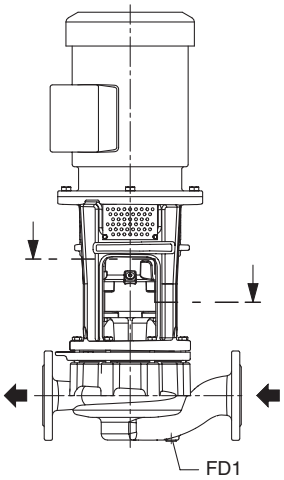




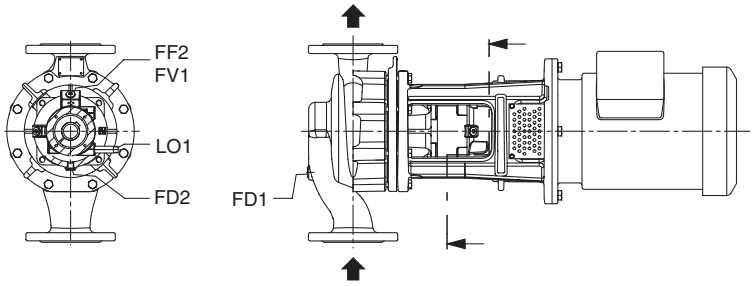
Dimensions subject to alteration.

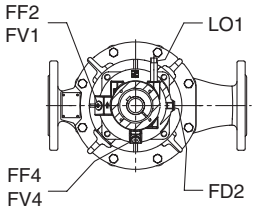
Flanges acc. to En 1092-2 PN 16										
Nominal Flange Sizes		D		bf		k		g		
Ansi Inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	No. of holes
1.50	32	4.62	140	0.62	18	3.50	100	0.62	19	4
1.50	40	5.00	150	0.69	18	3.88	110	0.62	19	4
2.00	50	6.00	165	0.75	20	4.75	125	0.75	19	4
2.50	65	7.00	185	0.88	20	5.50	145	0.75	19	4
3.00	80	7.50	200	0.94	22	6.00	160	0.75	19	8
4.00	100	9.00	220	0.94	24	7.50	180	0.75	19	8

Connections				
Draining		Filling/ Bleeding		Leakage outlet
FD1	FD2	FF2 / FV1	FF4 / FV4	LO1
G 3/8	G 1/4	G 1/4	G 1/4 only for vertical installation	G 1/4



Connections for horizontal and vertical installation





Unit dimensions - Series NIWH

The motor dimensions as indicated are approximate values. Exact data depend on the motor make.

When using special motors, it must be noted that depending upon the enclosure, different performances are allocated to the individual sizes. The main dimensions are changed accordingly.
Attention: Motors provided by the client must also contain a axial thrust bearing on the drive side!
Binding motor dimension information must be submitted with each order.

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

n= 1450 / 1750 1/min

Pump size	Motor Size	Performance	Unit dimensions														Assignment plug-in shaft/motor stool
			Pump								Motor dimensions Approximate dimensions different depending upon manufacturer					Extension dim.	
			Flanges														
		kW	DNs	DNd	a	f	b1	b2	h1	h2	a1	d	h3	l1	l	x	
25-200/01	80	0.55 0.75	*1.25* 32	*1.25* 32	*3.6* 91	*14.6* 371	*5.2* 132	*5.2* 132	*7.5* 190	*7.1* 180	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.3* 694	*4.0* 102	19/200
	90S	1.1										*7.1* 181	*5.1* 130	*11.1* 282	*29.2* 742		24/200
32-160/01	80	0.55 0.75	*1.0* 40	*1.0* 40	*3.9* 99	*14.6* 371	*4.8* 123	*4.8* 123	*7.9* 200	*7.5* 190	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.6* 702	*4.0* 102	19/200
	90S	1.1										*7.1* 181	*5.1* 130	*11.1* 282	*29.5* 750		24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*29.5* 750		24/200
	100L	2.2 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.7* 780		28/250
32-200/01	80	0.55 0.75	*1.0* 40	*1.0* 40	*3.7* 95	*14.6* 371	*4.9* 124	*5.1* 130	*7.9* 200	*7.5* 190	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.5* 698	*4.0* 102	19/200
	90S	1.1										*7.1* 181	*5.1* 130	*11.1* 282	*29.4* 746		24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*29.4* 746		24/200
	100L	2.2 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.6* 776		28/250
40-160/01	80	0.55 0.75	*2.0* 50	*2.0* 50	*4.1* 105	*14.6* 371	*4.8* 123	*4.8* 123	*8.3* 210	*7.9* 200	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.9* 708	*4.0* 102	19/200
	90S	1.1										*7.1* 181	*5.1* 130	*11.1* 282	*29.8* 756		24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*29.8* 756		24/200
	100L	2.2 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.9* 786		28/250
40-200/01	80	0.55 0.75	*2.0* 50	*2.0* 50	*4.1* 105	*14.6* 371	*4.9* 125	*5.3* 135	*8.7* 220	*8.1* 205	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.9* 708	*4.0* 102	19/200
	90S	1.1										*7.1* 181	*5.1* 130	*11.1* 282	*29.8* 756		24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*29.8* 756		24/200
	100L	2.2 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.9* 786		28/250
40-250/01	90S	1.1	*2.0* 50	*2.0* 50	*4.1* 105	*14.6* 371	*5.8* 148	*6.1* 156	*9.4* 240	*8.9* 225	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*29.8* 756	*3.3* 85	24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*29.8* 756		24/200
	100L	2.2 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.9* 786		28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*31.9* 809		28/250
	132S	5.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.0* 890		38/300
50-160/01	80	0.55 0.75	*2.5* 65	*2.5* 65	*4.5* 114	*14.6* 371	*4.9* 125	*5.1* 130	*9.1* 230	*8.7* 220	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*28.2* 717	*4.0* 102	19/200
	90S	1.1										*7.1* 181	*5.1* 130	*11.1* 282	*30.1* 765		24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*30.1* 765		24/200
	100L	2.2 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*31.3* 795		28/250

(chart continued on next page)

Unit dimensions - Series NIWH

The motor dimensions as indicated are approximate values. Exact data depend on the motor make.

When using special motors, it must be noted that depending upon the enclosure, different performances are allocated to the individual sizes. The main dimensions are changed accordingly.
Attention: Motors provided by the client must also contain a axial thrust bearing on the drive side!
Binding motor dimension information must be submitted with each order.

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

n= 1450 / 1750 1/min

Pump size	Motor Size	Performance	Unit dimensions															Assignment plug-in shaft/motor stool
			Pump									Motor dimensions Approximate dimensions different depending upon manufacturer					Extension dim.	
			Flanges															
		kW	DNs	DNd	a	f	b1	b2	h1	h2	a1	d	h3	l1	l	x	
50-200/01	80	0.55 0.75	*2.5* 65	*2.5* 65	*4.5* 114	*14.6* 371	*5.2* 132	*5.7* 146	*9.4* 240	*8.9* 225	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*28.2* 717	*4.0* 102	19/200
	90S	1.1										*7.1* 181	*5.1* 130	*11.1* 282	*30.1* 765		24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*30.1* 765		24/200
	100L	2.2 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*31.3* 795		28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*32.2* 818		28/250
	132S	5.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.4* 899		38/300
50-250/01	90L	1.5	*2.5* 65	*2.5* 65	*4.6* 116	*14.6* 371	*6.1* 156	*6.5* 165	*10.4* 265	*9.6* 245	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*30.2* 767	*3.3* 85	24/200
	100L	2.2 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.2* 797		28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*32.3* 820		28/250
	132S	5.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.5* 901		38/300
	132M	7.5										*10.5* 266	*7.7* 196	*14.8* 375	*35.5* 901		38/300
65-160/01	80	0.55 0.75	*3.0* 80	*3.0* 80	*4.8* 122	*14.6* 371	*5.2* 133	*6.4* 162	*10.6* 270	*9.1* 230	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*28.5* 725	*4.0* 102	19/200
	90S	1.1										*7.1* 181	*5.1* 130	*11.1* 282	*30.4* 773		24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*30.4* 773		24/200
	100L	2.2 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*31.6* 803		28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*32.5* 826		28/250
65-200/02	90S	1.1	*3.0* 80	*3.0* 80	*4.1* 104	*14.6* 371	*6.3* 160	*6.7* 170	*10.8* 275	*9.3* 235	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*29.7* 755	*4.0* 102	24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*29.7* 755		24/200
	100L	2.2 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.9* 785		28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*31.8* 808		28/250
	132S	5.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.0* 889		38/300
	132M	7.5										*10.5* 266	*7.7* 196	*14.8* 375	*35.0* 889		38/300
80-160/01	90S	1.1	*4.0* 100	*4.0* 100	*5.2* 132	*14.6* 371	*5.4* 136	*6.7* 170	*10.8* 275	*9.6* 245	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*30.8* 783	*4.0* 102	24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*30.8* 783		24/200
	100L	2.2 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*32.0* 813		28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*32.9* 836		28/250
	132S	5.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*36.1* 917		38/300

Unit dimensions - Series NIWH

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

n= 2900 / 3500 1/min

Pump size	Motor Size	Performance	Unit dimensions														Assignment plug-in shaft/motor stool
			Pump								Motor dimensions Approximate dimensions different depending upon manufacturer					Extension dim.	
			Flanges														
		kW	DNs	DNd	a	f	b1	b2	h1	h2	a1	d	h3	l1	l	x	
25-200/01	90S	1.5	*1.3* 32	*1.3* 32	*3.6* 91	*14.6* 371	*5.2* 132	*5.2* 132	*7.5* 190	*7.1* 180	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*29.2* 742	*4.0* 102	24/200
	90L	2.2										*7.1* 181	*5.1* 130	*11.1* 282	*29.2* 742		24/200
	100L	3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.4* 772		28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*31.3* 795		28/250
	132S	5.5 7.5				*16.2* 412					*11.8* 300	*10.4* 266	*7.8* 196	*14.8* 375	*34.5* 876		38/300
32-160/01	90L	2.2	*1.8* 40	*1.8* 40	*3.9* 99	*14.6* 371	*4.8* 123	*4.8* 123	*7.9* 200	*7.5* 190	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*29.5* 750	*4.0* 102	24/200
	100L	3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.7* 780		28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*31.6* 803		28/250
	132S	5.5 7.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.8* 884		38/300
	160M	11 15									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.0* 990		42/350
32-200/01	112M	4	*1.8* 40	*1.8* 40	*3.7* 95	*14.6* 371	*4.9* 124	*5.1* 130	*7.9* 200	*7.5* 190	*10.0* 250	*9.0* 228	*6.7* 171	*14.8* 335	*31.5* 799	*4.0* 102	28/250
	132S	5.5 7.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.6* 880		38/300
	160M	11 15									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*38.8* 986		42/350
	160L	18.5										*12.6* 320	*9.2* 234	*18.9* 481	*38.8* 986		42/350
40-160/01	90L	2.2	*2.0* 50	*2.0* 50	*4.1* 105	*14.6* 371	*4.8* 123	*4.8* 123	*8.3* 210	*7.9* 200	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*29.8* 756	*4.0* 102	24/200
	100L	3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.9* 786		28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*31.9* 809		28/250
	132S	5.5 7.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.0* 890		38/300
	160M	11 15									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.2* 996		42/350
	160L	18.5										*12.6* 320	*9.2* 234	*18.9* 481	*39.2* 996		42/350
40-200/01	112M	4	*2.0* 50	*2.0* 50	*4.1* 105	*14.6* 371	*4.9* 125	*5.3* 135	*8.7* 220	*8.1* 205	*9.8* 250	*9.0* 228	*6.7* 171	*13.2* 335	*31.9* 809	*4.0* 102	28/250
	132S	5.5 7.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.0* 890		38/300
	160M	11 15									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.2* 996		42/350
	160L	18.5										*12.6* 320	*9.2* 234	*18.9* 481	*39.2* 996		42/350
	180M	22										*14.8* 375	*10.8* 275	*24.0* 610	*44.3* 1125		48/350
	200L	30 37									*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*46.5* 1180		55/400
40-250/01	132S	5.5 7.5	*2.0* 50	*2.0* 50	*4.1* 105	*16.2* 412	*5.8* 148	*6.1* 156	*9.4* 240	*8.9* 225	*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.0* 890	*3.3* 85	38/300
	160M	11 15									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.2* 996		42/350
	160L	18.5										*12.6* 320	*9.2* 234	*18.9* 481	*39.2* 996		42/350
	180M	22										*14.8* 375	*10.8* 275	*24.0* 610	*44.3* 1125		48/350
	200L	30 37									*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*46.5* 1180		55/400

(chart continued on next page)

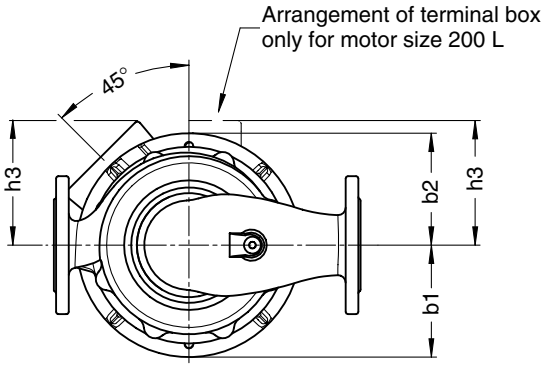
Unit dimensions - Series NIWH

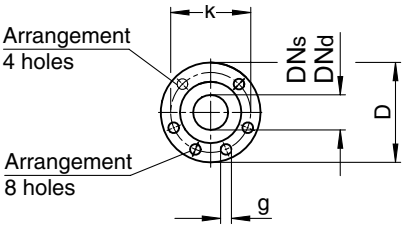
n= 2900 / 3500 1/min

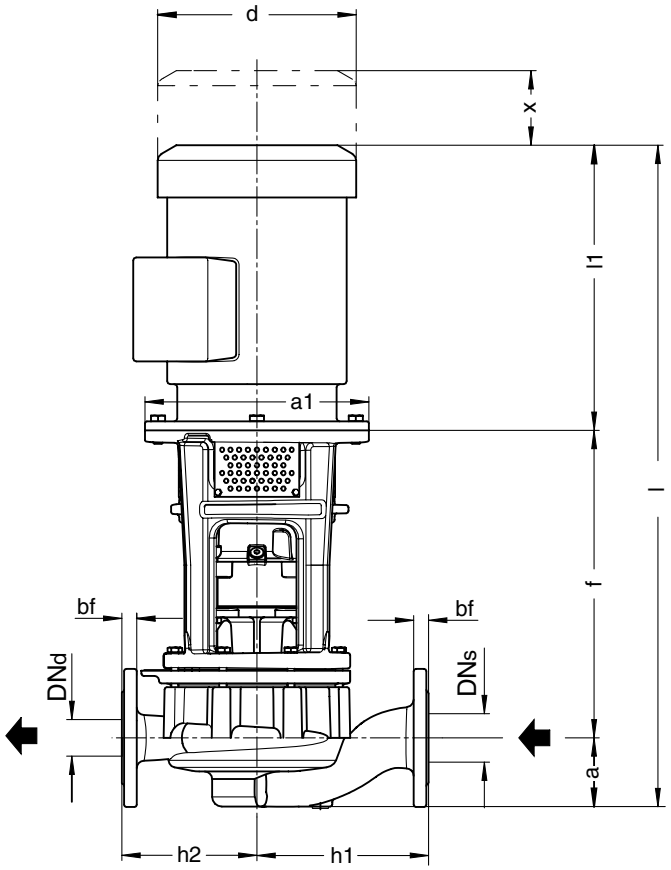
Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

Pump size	Motor Size	Performance	Unit dimensions														Assignment plug-in shaft/motor stool
			Pump								Motor dimensions Approximate dimensions different depending upon manufacturer					Extension dim.	
			Flanges														
		kW	DNs	DNd	a	f	b1	b2	h1	h2	a1	d	h3	l1	l	x	
50-160/01	100L	3	*2.5* 65	*2.5* 65	*4.5* 114	*14.6* 371	*4.9* 125	*5.1* 130	*9.1* 230	*8.7* 220	*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*31.3* 795	*4.0* 102	28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*32.2* 818		28/250
	132S	5.5 7.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.4* 899		38/300
	160M	11 15										*12.6* 320	*9.2* 234	*18.9* 481	*39.6* 1005		42/350
	160L	18.5									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.6* 1005		42/350
50-200/01	132S	5.5 7.5	*2.5* 65	*2.5* 65	*4.5* 114	*16.2* 412	*5.2* 132	*5.7* 146	*9.4* 240	*8.9* 225	*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.4* 899	*4.0* 102	38/300
	160M	11 15										*12.6* 320	*9.2* 234	*18.9* 481	*39.6* 1005		42/350
	160L	18.5									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.6* 1005		42/350
	180M	22										*14.8* 375	*10.8* 275	*24.0* 610	*44.6* 1134		48/350
	200L	30 37									*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*46.8* 1189		55/400
50-250/01	160M	11 15	*2.5* 65	*2.5* 65	*4.6* 116	*16.2* 412	*6.1* 156	*6.5* 165	*10.4* 265	*9.6* 245		*12.6* 320	*9.2* 234	*18.9* 481	*39.7* 1007	*3.3* 85	42/350
	160L	18.5									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.7* 1007		42/350
	180M	22										*14.8* 375	*10.8* 275	*24.0* 610	*44.7* 1136		48/350
	200L	30 37									*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*46.9* 1191		55/400
65-160/01	112M	4	*3.0* 80	*3.0* 80	*4.8* 122	*14.6* 371	*5.2* 133	*6.4* 162	*10.6* 270	*9.1* 230	*9.8* 250	*9.0* 228	*6.7* 171	*13.2* 335	*32.5* 826	*4.0* 102	28/250
	132S	5.5 7.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.7* 907		38/300
	160M	11 15										*12.6* 320	*9.2* 234	*18.9* 481	*39.9* 1013		42/350
	160L	18.5									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.9* 1013		42/350
	180M	22										*14.8* 375	*10.8* 275	*24.0* 610	*45.0* 1142		48/350
	200L	30 37									*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*47.1* 1197		55/400
65-200/02	132S	5.5 7.5	*3.0* 80	*3.0* 80	*4.1* 104	*16.2* 412	*6.3* 160	*6.7* 170	*10.8* 275	*9.3* 235	*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.0* 889	*4.0* 102	38/300
	160M	11 15										*12.6* 320	*9.2* 234	*18.9* 481	*39.2* 995		42/350
	160L	18.5									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.2* 995		42/350
	180M	22										*14.8* 375	*10.8* 275	*24.0* 610	*44.3* 1124		48/350
	200L	30 37									*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*46.4* 1179		55/400
80-160/01	132S	5.5 7.5	*4.0* 100	*4.0* 100	*5.2* 132	*16.2* 412	*5.4* 136	*6.7* 170	*10.8* 275	*9.6* 245	*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*36.1* 917	*4.0* 102	38/300
	160M	11 15										*12.6* 320	*9.2* 234	*18.9* 481	*40.3* 1023		42/350
	160L	18.5									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*40.3* 1023		42/350
	180M	22										*14.8* 375	*10.8* 275	*24.0* 610	*45.4* 1152		48/350
	200L	30 37									*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*47.5* 1207		55/400

Unit dimensions - Series CIWH
Sizes with a shaft diameter of 32 at the shaft seal



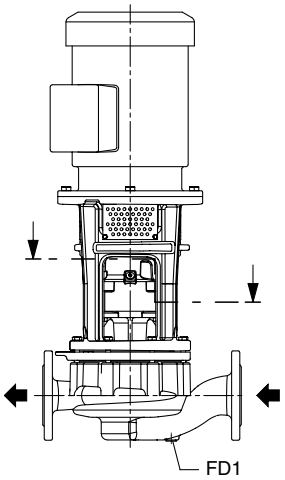




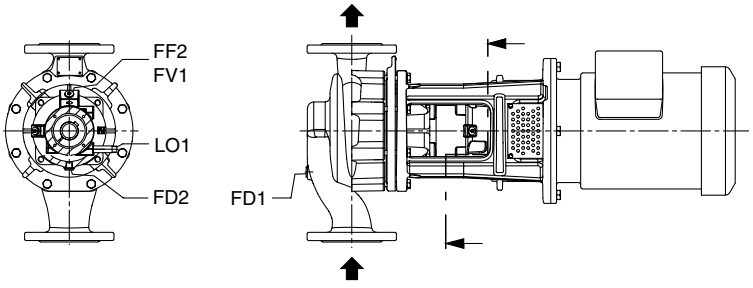
Dimensions subject to alteration.

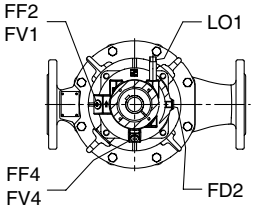
Flanges acc. to En 1092-2 PN 25										
Nominal Flange Sizes		D		bf		k		g		
Ansi Inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	Ansi inches	Din mm	No. of holes
1.50	32	5.25	40	0.75	20	3.88	100	0.75	19	4
1.50	40	6.12	50	0.81	20	4.50	110	0.88	19	4
2.00	50	6.50	165	0.88	22	5.00	125	0.75	19	4
2.50	65	7.50	185	1.00	24	5.88	145	0.88	19	8

Connections				
Draining		Filling/ Bleeding		Leakage outlet
FD1	FD2	FF2 / FV1	FF4 / FV4	LO1
G 1/2	G 1/4	G 1/4	G 1/4 only for vertical installation	G 1/4



Connections for horizontal and vertical installation





Unit dimensions - Series CIWH

The motor dimensions as indicated are approximate values. Exact data depend on the motor make.

When using special motors, it must be noted that depending upon the enclosure, different performances are allocated to the individual sizes. The main dimensions are changed accordingly.
Attention: Motors provided by the client must also contain a axial thrust bearing on the drive side!
Binding motor dimension information must be submitted with each order.

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

n= 1450 / 1750 1/min

Pump size	Motor Size	Performance	Unit dimensions														Assignment plug-in shaft/motor stool
			Pump								Motor dimensions Approximate dimensions different depending upon manufacturer					Extension dim.	
			Flanges														
		kW	DNs	DNd	a	f	b1	b2	h1	h2	a1	d	h3	l1	l	x	
32-200/01	80	0.55 / 0.75	*1.25* 32	*1.25* 32	*3.6* 91	*14.6* 371	*5.2* 132	*5.2* 132	*7.5* 190	*7.1* 180	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.3* 694	*4.0* 102	19/200
	90S	1.1										*7.1* 181	*5.1* 130	*11.1* 282	*29.2* 742		24/200
40-160/01	80	0.55 / 0.75	*1.5* 40	*1.5* 40	*3.9* 99	*14.6* 371	*5.1* 130	*5.1* 130	*7.9* 200	*7.5* 190	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.6* 706	*4.0* 102	19/200
	90S	1.1										*7.1* 181	*5.1* 130	*11.1* 282	*29.5* 750		24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*29.5* 750		24/200
40-200/01	80	0.55 / 0.75	*1.5* 40	*1.5* 40	*3.7* 95	*14.6* 371	*5.1* 130	*5.3* 135	*7.9* 200	*7.5* 190	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.5* 698	*4.0* 102	19/200
	90S	1.1										*7.1* 181	*5.1* 130	*11.1* 282	*29.4* 746		24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*29.4* 746		24/200
	100L	2.2 / 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.6* 776		28/250
50-160/01	80	0.55 / 0.75	*2.0* 50	*2.0* 50	*4.1* 105	*14.6* 371	*5.1* 130	*5.1* 130	*8.3* 210	*7.9* 200	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.9* 708	*4.0* 102	19/200
	90S	1.1										*7.1* 181	*5.1* 130	*11.1* 282	*29.8* 756		24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*29.8* 756		24/200
	100L	2.2 / 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.9* 786		28/250
50-200/01	80	0.55 / 0.75	*2.0* 50	*2.0* 50	*4.1* 105	*14.6* 371	*5.1* 130	*5.3* 135	*8.7* 220	*8.1* 205	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*27.9* 708	*4.0* 102	19/200
	90S	1.1										*7.1* 181	*5.1* 130	*11.1* 282	*29.8* 756		24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*29.8* 756		24/200
	100L	2.2 / 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.9* 786		28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*31.9* 809		28/250
65-160/01	80	0.55 / 0.75	*3.0* 65	*3.0* 65	*4.5* 114	*14.6* 371	*5.1* 130	*5.1* 130	*9.1* 230	*8.7* 220	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*28.2* 717	*4.0* 102	19/200
	90S	1.1										*7.1* 181	*5.1* 130	*11.1* 282	*30.1* 765		24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*30.1* 765		24/200
	100L	2.2 / 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*31.3* 795		28/250
65-200/01	80	0.55 / 0.75	*3.0* 65	*3.0* 65	*4.5* 114	*14.6* 371	*5.3* 134	*5.8* 148	*9.4* 240	*8.9* 225	*7.9* 200	*6.4* 162	*4.9* 124	*9.2* 234	*28.2* 717	*4.0* 102	19/200
	90S	1.1										*7.1* 181	*5.1* 130	*11.1* 282	*30.1* 765		24/200
	90L	1.5										*7.1* 181	*5.1* 130	*11.1* 282	*30.1* 765		24/200
	100L	2.2 / 3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*31.3* 795		28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*32.2* 818		28/250
	132S	5.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.4* 899		38/300

Unit dimensions - Series CIWH

Dimensions in mm.
Inch equivalent in italic.
Subject to alteration.

n= 2900 / 3500 1/min

Pump size	Motor Size	Performance	Unit dimensions														Assignment plug-in shaft/motor stool
			Pump								Motor dimensions Approximate dimensions different depending upon manufacturer					Extension dim.	
			Flanges														
		kW	DNs	DNd	a	f	b1	b2	h1	h2	a1	d	h3	l1	l	x	
32-200/01	90S	1.5	*1.3* 32	*1.3* 32	*3.6* 91	*14.6* 371	*5.2* 132	*5.2* 132	*7.5* 190	*7.1* 180	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*29.2* 742	*4.0* 102	24/200
	90L	2.2										*7.1* 181	*5.1* 130	*11.1* 282	*29.2* 742		24/200
	100L	3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.4* 772		28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*31.3* 795		28/250
	132S	5.5 7.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.5* 876		38/300
40-160/01	90L	2.2	*1.8* 40	*1.5* 40	*3.9* 99	*14.6* 371	*5.1* 130	*5.1* 130	*7.9* 200	*7.5* 190	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*29.5* 750	*4.0* 102	24/200
	100L	3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.7* 780		28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*31.6* 803		28/250
	132S	5.5 7.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.8* 884		38/300
	160M	11 15									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.0* 990		42/350
40-200/01	112M	4	*1.5* 40	*1.5* 40	*3.7* 95	*14.6* 371	*5.1* 130	*5.3* 135	*7.9* 200	*7.5* 190	*9.8* 250	*9.0* 228	*6.7* 171	*13.2* 335	*31.5* 799	*4.0* 102	28/250
	132S	5.5 7.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*34.6* 880		38/300
	160M	11 15									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*38.8* 986		42/350
	160L	18.5										*12.6* 320	*9.2* 234	*18.9* 481	*38.8* 986		42/350
50-160/01	90L	2.2	*2.0* 50	*2.0* 50	*4.1* 105	*14.6* 371	*5.1* 130	*5.1* 130	*8.3* 210	*7.9* 200	*7.9* 200	*7.1* 181	*5.1* 130	*11.1* 282	*29.8* 756	*4.0* 102	24/200
	100L	3									*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*30.9* 786		28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*31.9* 809		28/250
	132S	5.5 7.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.0* 890		38/300
	160M	11 15									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.2* 996		42/350
50-200/01	112M	4	*2.0* 50	*2.0* 50	*4.1* 105	*14.6* 371	*5.1* 130	*5.3* 135	*8.7* 220	*8.1* 205	*9.8* 250	*9.0* 228	*6.7* 171	*13.2* 335	*31.9* 809	*4.0* 102	28/250
	132S	5.5 7.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.0* 890		38/300
	160M	11 15										*12.6* 320	*9.2* 234	*18.9* 481	*39.2* 996		42/350
	160L	18.5									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.2* 996		42/350
	180M	22										*14.8* 375	*10.8* 275	*24.0* 610	*44.3* 1125		48/350
	200L	30 37									*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*46.5* 1180		55/400
50-160/01	100L	3	*2.5* 65	*2.5* 65	*4.5* 114	*14.6* 371	*5.1* 130	*5.1* 130	*9.1* 230	*8.7* 220	*9.8* 250	*8.0* 203	*6.2* 158	*12.3* 312	*31.3* 795	*4.0* 102	28/250
	112M	4										*9.0* 228	*6.7* 171	*13.2* 335	*32.2* 818		28/250
	132S	5.5 7.5				*16.2* 412					*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.4* 899		38/300
	160M	11 15									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*40.0* 1015		42/350
	160L	18.5										*12.6* 320	*9.2* 234	*18.9* 481	*39.6* 1005		42/350
65-200/01	132S	5.5 7.5	*2.5* 65	*2.5* 65	*4.5* 114	*16.2* 412	*5.3* 134	*5.8* 148	*9.4* 240	*8.9* 225	*11.8* 300	*10.5* 266	*7.7* 196	*14.8* 375	*35.4* 899	*4.0* 102	38/300
	160M	11 15									*13.8* 350	*12.6* 320	*9.2* 234	*18.9* 481	*39.6* 1005		42/350
	160L	18.5										*12.6* 320	*9.2* 234	*18.9* 481	*39.6* 1005		42/350
	180M	22										*14.8* 375	*10.8* 275	*24.0* 610	*44.6* 1134		48/350
	200L	30 37									*15.7* 400	*16.3* 415	*12.2* 310	*26.2* 665	*46.8* 1189		55/400

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