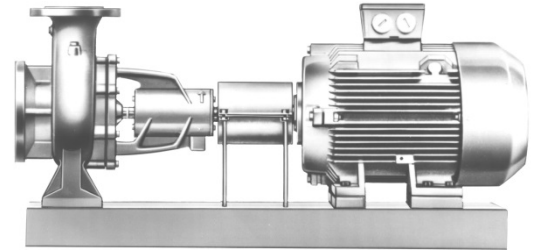


Norm-Centrifugal Pumps PN 10 SERIES NT

Pump dimensions acc. to DIN EN 733 with additional sizes
Technical requirements acc. to DIN ISO 9908



Application

For pumping pure water, industrial water, sea water, condensate, oils, brines, lyes, hot water. The liquids to be pumped must not contain any abrasive particles nor chemically attack the pump materials.

Main fields of application

In cooling and heating circuits in circulating, water supply, water treatment, irrigation, desalinization, dedusting and spray painting installations as well as in air-conditioning, refrigerating, swimming pool and industrial engineering.

Design and series construction

Horizontal volute casing centrifugal pump with axial inlet, single-flow, single or two-stage, in process design.

Series construction according to the modular system. Shaft bearing in a bearing bracket which can be optionally provided with a support foot. With bearing bracket size 585 and 700 the foot belongs to serial equipment. Stable mounting with feet cast on volute casing.

The additional two-stage pump sizes correspond in their outer dimensions to the respective single-stage sizes. Due to the two-stage design good efficiencies and low NPSH values are achieved at high delivery heads.

Capacity

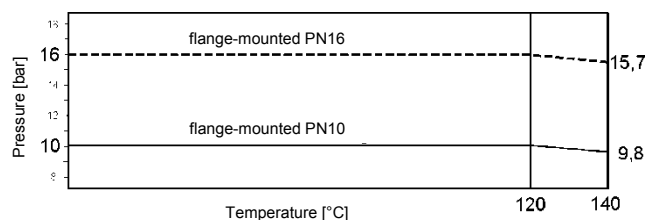
With the sizes according to DIN EN 733, the pump capacity exceeds the required rated power considerably. By additional sizes, the performance range acc. to DIN EN is increased.

Performance data

Flow	Q	up to	2,300 m ³ /h
Delivery head	H	up to	145 m
Temperature of the liquid pumped	t	-40 up to	140 °C
Inlet pressure	p _s	①	
Discharge pressure	p _d	up to	10/16 bar ②

① Inlet pressure plus maximum delivery head must not exceed the working pressure.

② Depends on flange version (PN stage, see diagram)



Branch positions and flanges

Suction branch: axial
Delivery branch: radially upwards
Flanges: acc. to DIN EN 1092-2

Shaft coupling and safety guarding

Safety guarding according to DIN EN 294 is supplied as soon as the scope of supply includes pump, base plate and shaft coupling (acc. to DIN 740 with or without spacer element). The safety standards acc. to DIN EN 809 are met.

Shaft sealing

By maintenance-free standard mechanical seal in unbalanced design in different materials (see page 2) or by gland packing.

Bearing and lubrication

By two groove ball bearings acc. to DIN 625, grease-lubricated for the whole service life, bearing clearance C3.

Dismantling of the insert unit

When using the spacer coupling the insert unit can because of the process design be dismantled towards the motor side, whereas the volute casing and the motor may remain on the base plate and the pipes on the volute casing.

Combination of structural components

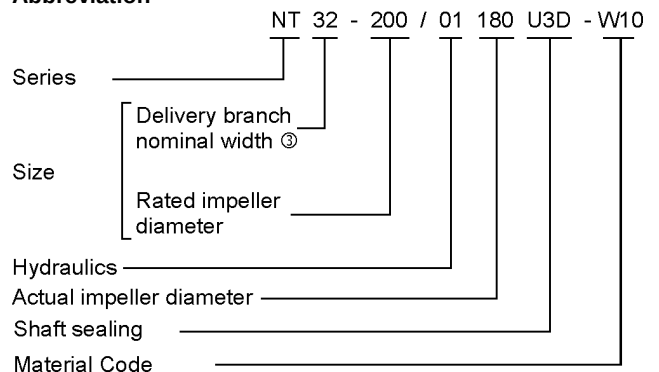
The table on page 3 shows the combination possibilities of structural components of all NT sizes. The modular system allows reduced stockkeeping of spare parts.

Drive

Standard: surface-cooled, three-phase squirrel-cage motors, IM B3 type of construction, degree of protection IP 55 according to IEC standard, class F insulation. Performances and main dimensions according to DIN 42 673.

Further drive options are possible.

Abbreviation



③ With the two-stage additional pump sizes, the number of stages is placed with a slash in front of the delivery branch nominal width, e.g. NT 2/32-200/01...

This abbreviation is entered on the nameplate. With the two-stage additional pump sizes, the actual impeller diameter relates to the second stage.

Connections

The following connections are provided::

FD1	Draining
LO1	Leakage outlet
FV1	Venting (for automatic aspirator)

Optional:

FF1 ①	Filling (*)
PM1	Pressure gauge (Suction branch) (*)
PM2	Pressure gauge (Discharge branch) (*)
TM3	Temperature measurement connection
VM2	Vibration measurement connection

① Connection FF1 not provided in sizes 25-200 and 2/25-200

(*) Standard by material W133.

Base plates

Standard: channel steel base plate.

Shaft sealings with temperature and pressure limits

Valid for all materials of the pumps

Mechanical seal, uncooled	Unbalanced			
Flushing	Internal self flushing			
Abbreviation	U3.30D	U3.40D	U3.50D	U3.51D
Rotating ring	hard carbon, resin impregnated	silicone carbide	hard carbon, antimony impregnated	
Stationary ring	silicone carbide	silicone carbide	silicone carbide	
Metal parts	CrNiMo steel	CrNiMo steel	CrNiMo steel	
O-rings	HNBR	HNBR	EPDM	FPM
Bellow			-	-
Material code DIN EN 12 756	BQ1XGG	Q1Q1XGG	AQ1EGG	AQ1VGG
Centrifugal pumps at all bearing housing sizes	Admissible temperature (° C) of pumped liquid and pump outlet pressure p _d (bar)			
	° C / bar	° C / bar	° C / bar	
single-stage	110 / 10	110 / 10	140 / 10	140 / 10 ②
two-stage	110 / 16 ③	110 / 16 ③	140 / 16 ③	140 / 16 ②③

② max. 90 °C with water-based liquids

③ with an inlet pressure > 5 bar the use of the shaft sealing type U3.50D/U3.51D is absolutely essential!

Other mechanical seal designs upon request.

Gland packing	Uncooled	
Sealing	internal	external
Abbreviation	U1B	U1C
Packing rings	graphite-PTFE basis	
Centrifugal pumps at all bearing housing sizes	Admissible temperature (° C) of pumped liquid and pump outlet pressure p _d (bar)	
	° C / bar	
single-stage	125/10	

Materials

Denomination	Part-No.		Material code								
	1 st stage	2 nd stage	W 10	W 135	W 89	W 134	W 133	W 86	W 78	W 148	W 149
Volute casing	102...	102...	EN-GJS-400-15	EN-GJS-400-15	EN-GJS-400-15	EN-GJS-400-15	CC333G	EN-GJS-400-18-LT	EN-GJS-400-18-LT	EN-GJS-400-18-LT	EN-GJS-400-18-LT
Impeller (s)	230...	230...	EN-GJL-200	EN-GJL-200	CC333G	CC333G	CC333G	EN-GJL-200	EN-GJL-200	CC333G	CC333G
Diffuser	-	171...	EN-GJL-200	EN-GJL-200	CC333G	CC333G	CC333G	EN-GJL-200	EN-GJL-200	CC333G	CC333G
Stage casing	-	108...	EN-GJL-250	EN-GJL-250	EN-GJL-250	EN-GJL-250	CC333G	EN-GJL-250	EN-GJL-250	EN-GJL-250	EN-GJL-250
Casing cover	161...	161...	EN-GJS-400-15	EN-GJS-400-15	EN-GJS-400-15	EN-GJS-400-15	CC333G	EN-GJS-400-18-LT	EN-GJS-400-18-LT	EN-GJS-400-18-LT	EN-GJS-400-18-LT
Shaft ④	210...	210...	1.4021	1.4462	1.4021	1.4462	1.4462	1.4021	1.4462	1.4021	1.4462
Bearingbracket	330...	330...	EN-GJL-250	EN-GJL-250	EN-GJL-250	EN-GJL-250	EN-GJL-250	EN-GJL-250	EN-GJL-250	EN-GJL-250	EN-GJL-250

④ With bearing housing size 585 the pump side (liquid contact) in the material stated above and motor side in 1.7139

Optionally: massive base plate of cast iron (dimensions acc. to DIN 24 259) with a drip channel for leakage.

Installation dimensions are available in ALLWEILER drawing archive ALL2CAD.

Explosion protection



The pump fulfils the requirements according to EC Explosion Protection Directive 2014/34/EU (ATEX 100a) for equipment of equipment group II, category 2 G. Categorisation into temperature classes according to EN 13 463-1 depends on the temperature of the pumped liquid. The max. permissible temperature of the pumped liquid for the respective temperature classes are shown in the specific order data sheet.

Note: In case of the operation of a category 2 pump, the unacceptable heating of the pump surfaces caused by a possible operational fault must be prevented by a control mechanism.

Combination of structural components

The table below shows the combination possibilities of structural components and parts of the standard sizes including additional sizes. Within a vertical column, parts with identical numbers are interchangeable.

The modular system allows a reduced stockkeeping of spare parts.

Bearing bracket size	Pump size		Volute casing	Impeller	Impeller		Diffu- ser	Stage- casing	Inter- medi- ating	Casing cover	Bea- ring- house	Shaft	Sup- port foot	Shaft sealing			
	acc. to DIN EN 733	Additional size			1 st stage	2 nd stage								Mech- anical seal Ø	Gland packing		
	NT	NT															
360	-	25-160	1	1	-	-	-	-	-	1	2	1	1	30	30		
	-	25-200	2	2	-	-	-	-		3		2	2		-		
	-	2/25-200		-	1	1	1	1		1		1	1		30		
	32-160	-	3	3	-	-	-	-		1		1	1		30		
	32-200	-	4	4	-	-	-	-		3		2	2		-		
	-	2/32-200		-	1	1	1	1		1		1	-				
	40-160	-	5	5	-	-	-	-		1		1	1		30		
	40-200	-	6	6						2		2	2		2	2	30
	40-250	-	7	7						4		3	3		-		
	-	2/40-250	-	2	2	2	2	1		1		2	30				
	50-160	-	8	8	-	-	-	-		2		2	2		-		
	50-200	-	9	9						4		3	3		30		
	50-250	-	10	10						1		1	2		-		
	-	2/50-250	-	3	2	2	2	2		2		3	-				
	65-160	-	11	11	-	-	-	-		1		1	2		30		
	65-200	-	12	12						2		3	3				
	80-160	-	13	13						1		4	4				
	-	100-160	14	14						5		5	5				
470	65-250	-	15	15	-	-	-	-	-	3	3	5	40	40			
	65-315	-	16	16					6			6			6		
	-	65-400	17	17					1			7			7		
	80-200	-	18	18					5			8			8		
	80-250	-	19	19					6			5			5		
	80-315	-	20	20					7			6			6		
	100-200	-	21	21					5			5			5		
	100-250	-	22	22					6			6			6		
	100-315	-	23	23					6			7			7		
	125-200	-	24	24					5			8			8		
	125-250	-	25	25													
	150-200	-	26	26													
530	-	80-400	27	27	-	-	-	-	-	7	4	4	50	50			
	100-400	-	28	28											9	9	9
	125-315	-	29	29											10	10	10
	125-400	-	30	30											8	9	9
	-	150-250	31	31											7	10	10
	150-315	-	32	32											8	11	11
	150-400	-	33	33											8	11	11
	-	200-250	34	34											8	11	11
585	-	200-315	35	35	-	-	-	-	-	9	5	5	65	65			
	-	200-400	36	36											12	12	12
	-	250-315	37	37											13	13	13
	-	250-400	38	38											14	14	14
	-	300-315	39	39											14	14	14
700	-	300-315	39	41	-	-	-	-	-	10	6	6	80	80			
	-	300-400	40	42													

Negligible axial thrust
by fine adaptation of the
relief bores.

Pressure safe casing
parts designed for high
reliability of operation.

Flanges according to
DIN EN 1092-2 PN 10/16,
other flange designs
possible.

Connection dimensions
and capacities according
to **DIN EN 733.**

Shaft sealing by
mechanical seal or gland
packing according to the
operating conditions.

Bearing monitoring
connections
optional

Groove ball bearings
rigid and lubricated for
the whole service life.
Protected from dirt with
V-rings.

Process design; when
dismounting the bearing
bracket the volute casing
remains in the piping.

Optimized hydraulic parts
according to DIN EN 733
with **very good efficien-**
cies and NPSH values.

Adaptation to changing
operating conditions
possible by turning down
the impeller.

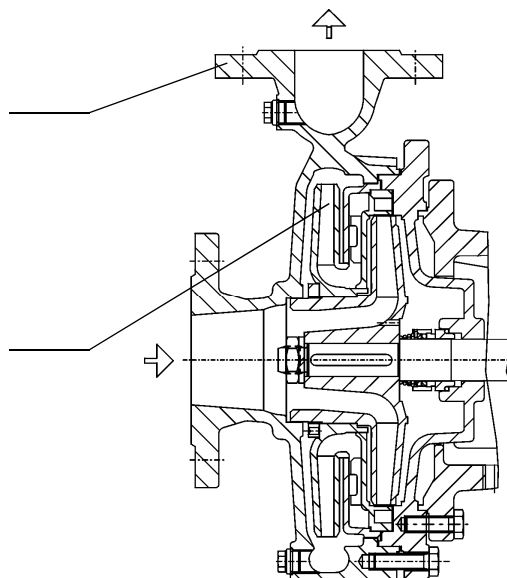
Large selection of ma-
terials.

Two-stage sizes with
their outer dimensions
correspond to the respec-
tive **single-stage sizes.**

Large delivery heads
with two-stage sizes
(2/25-200, 2/32-200,
2/40-250, 2/50-250).
The connection dimensions
correspond with the single
stage design.

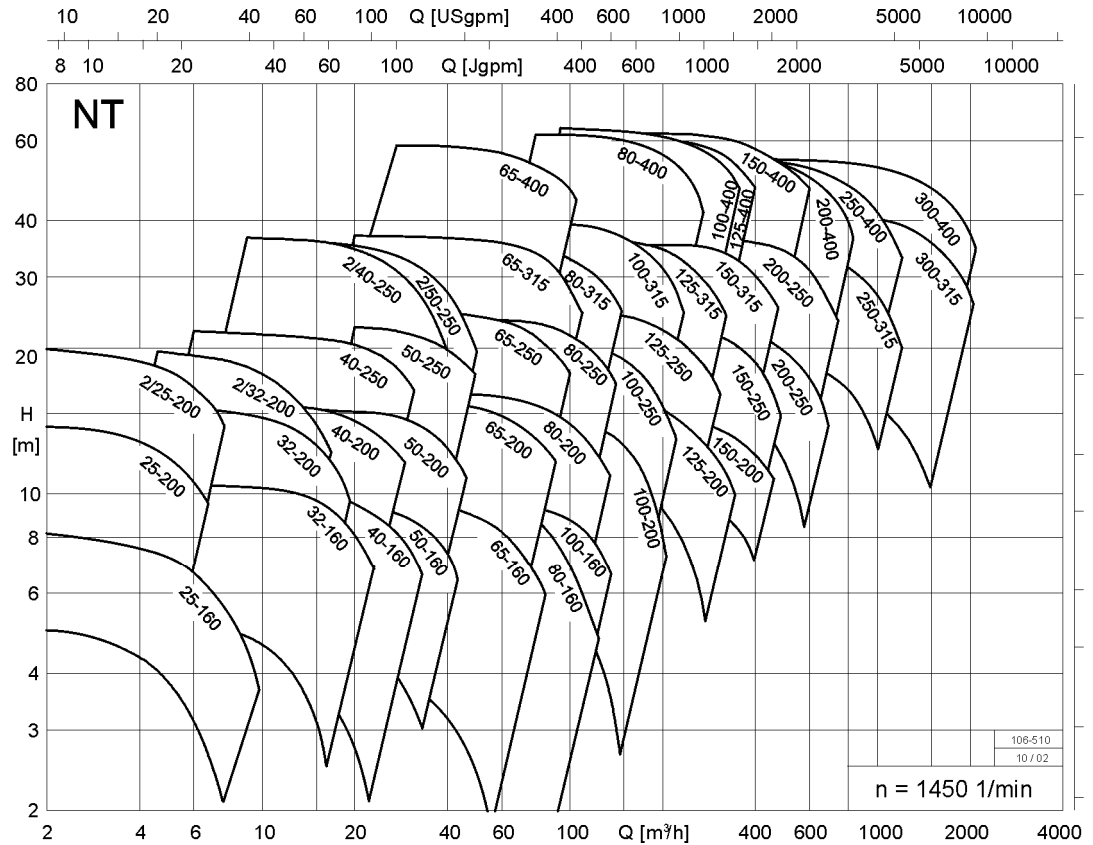
By additional pump
sizes performance
range according to DIN
EN 733 is **increased.**

Reduced stockkeeping
of spare parts due to use
of as much non-variable
parts as possible
(modular system, see
page 3).

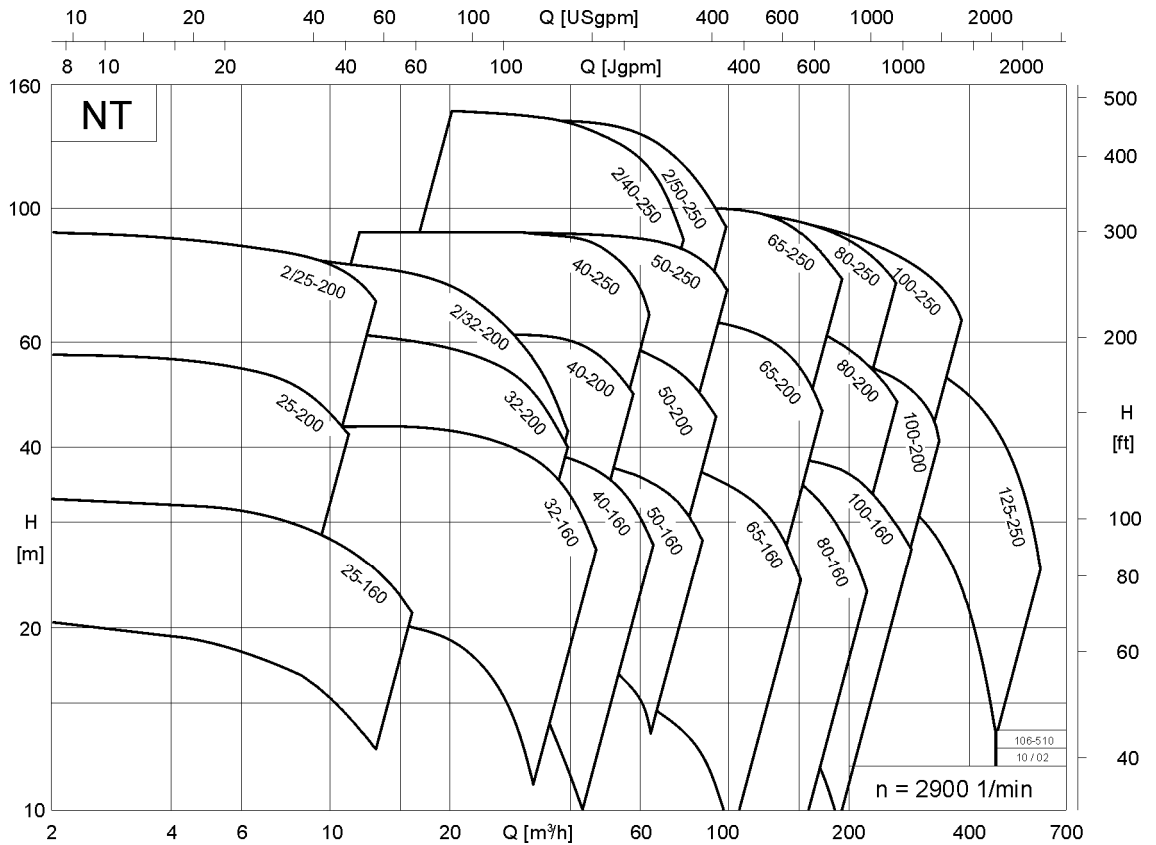


Performance graphs

n = 1450 1/min

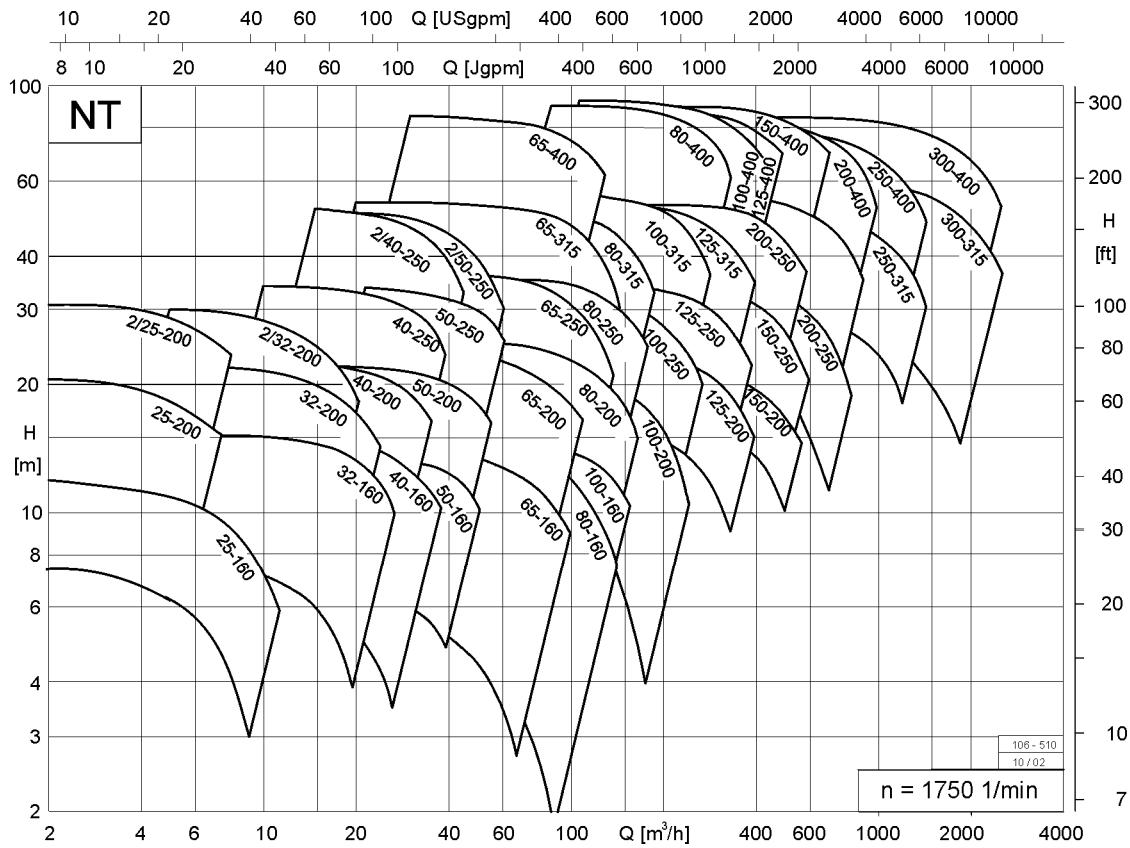


n = 2900 1/min

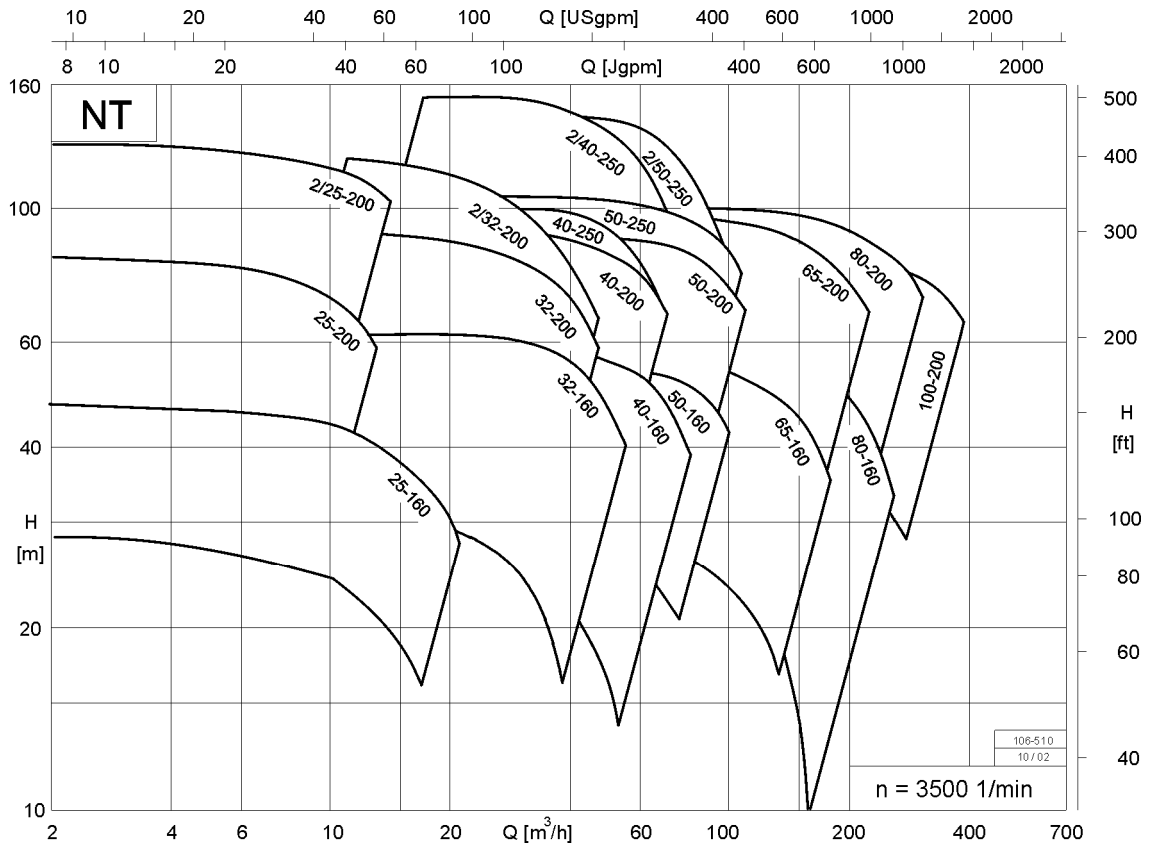
Valid for $\rho = 1 \text{ kg/dm}^3$ and $\nu = 1 \text{ mm}^2/\text{s}$.

Exact performance data to be taken from the individual characteristics.

n = 1750 1/min



n = 3500 1/min

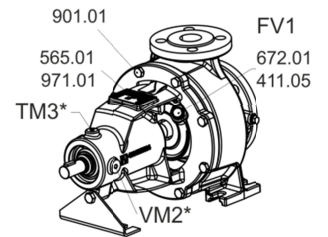
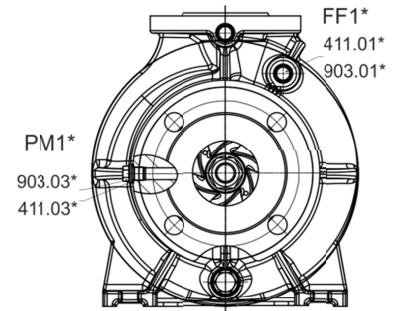
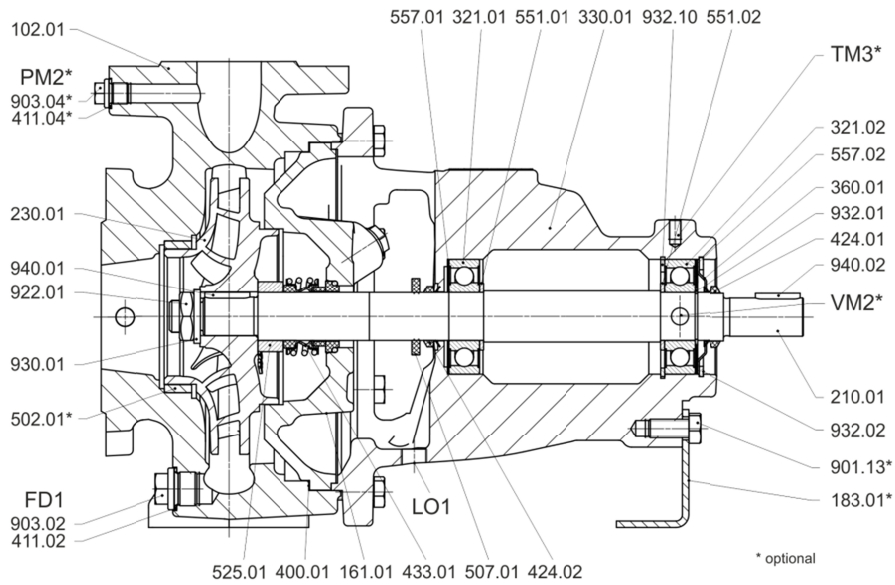


Valid for $\rho = 1 \text{ kg/dm}^3$ and $\nu = 1 \text{ mm}^2/\text{s}$.

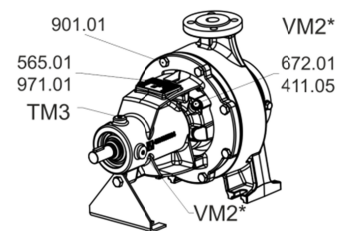
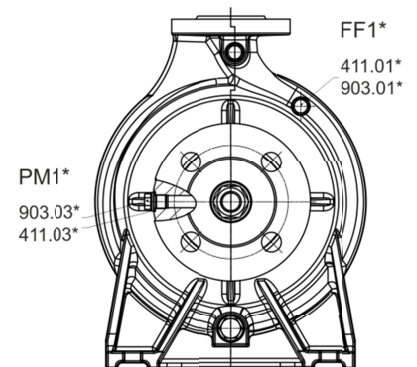
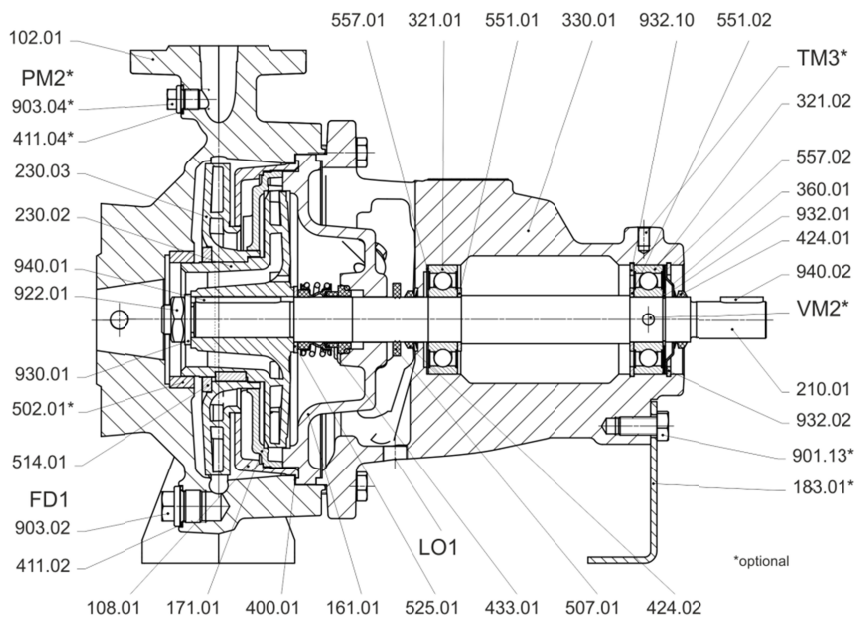
Exact performance data to be taken from the individual characteristics.

Sectional drawings

Sizes on bearing bracket size 360

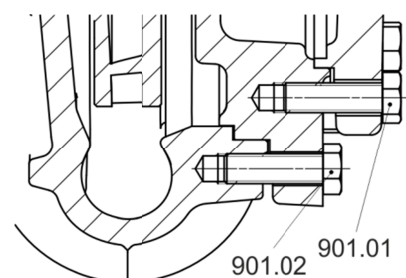


U...D mechanical seal unbalanced

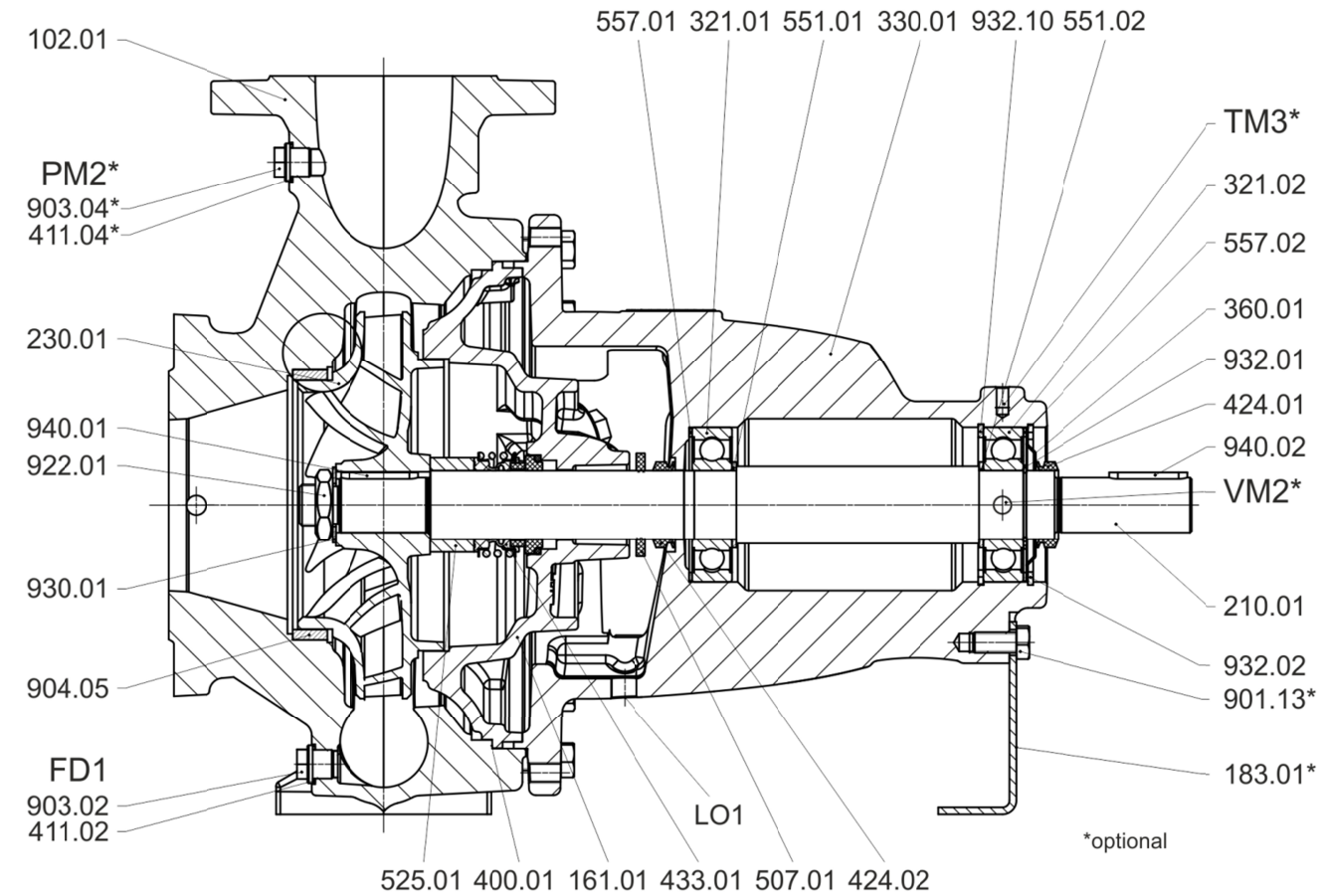


Bearing bracket size 360, two-stage, U...D - mechanical seal unbalanced

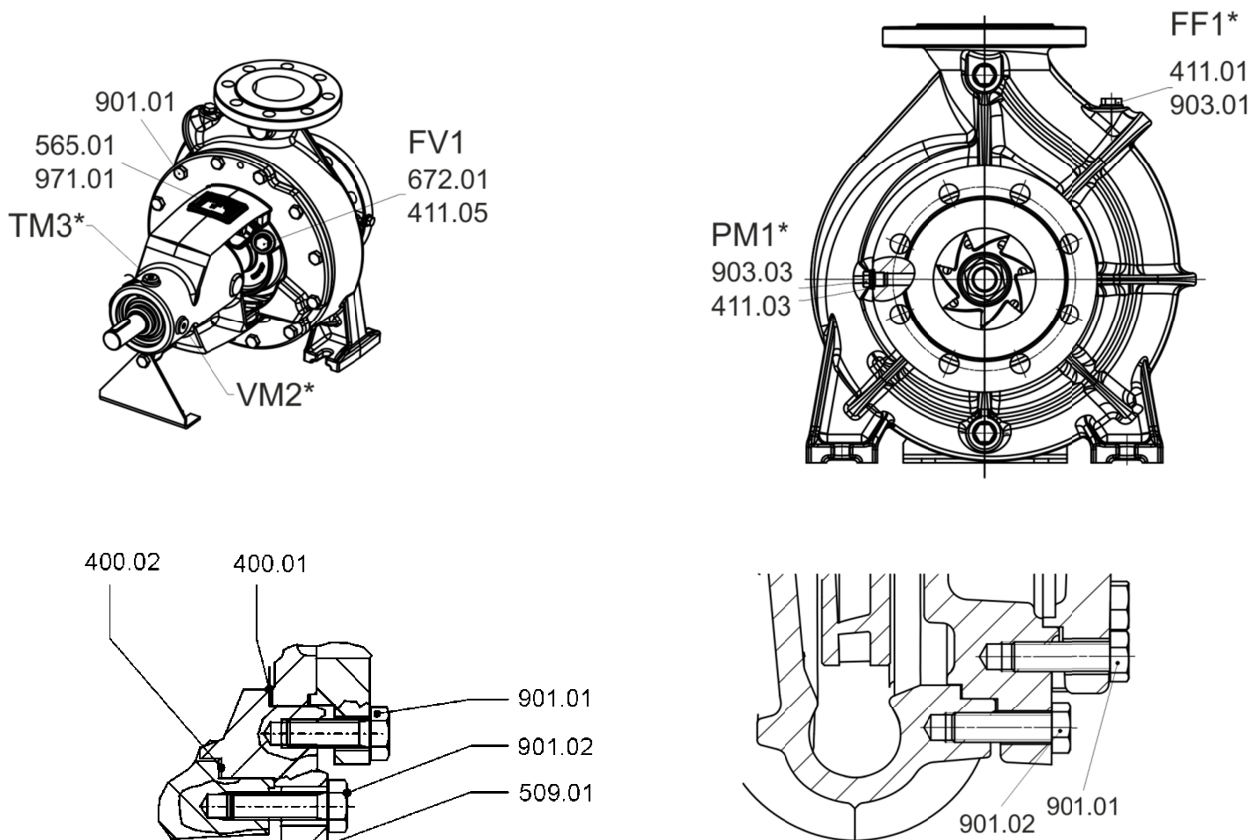
Design by size 2/40-250 + 2/50-250



Sizes on bearing bracket size 470



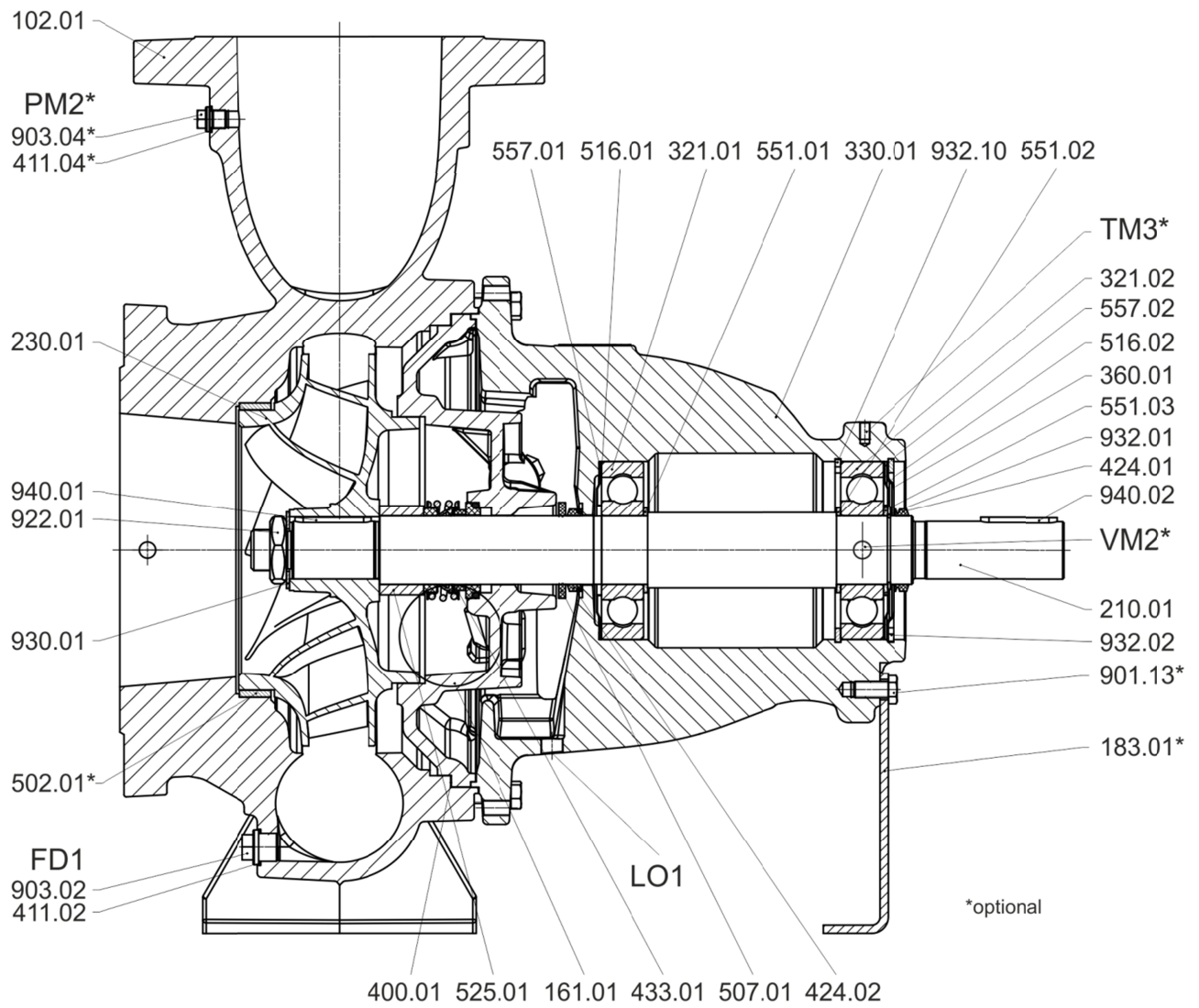
U...D - mechanical seal unbalanced



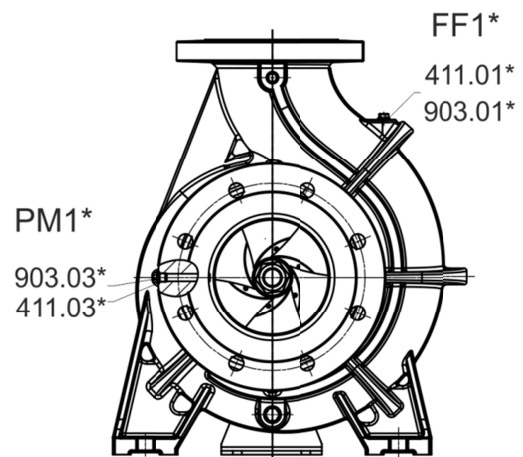
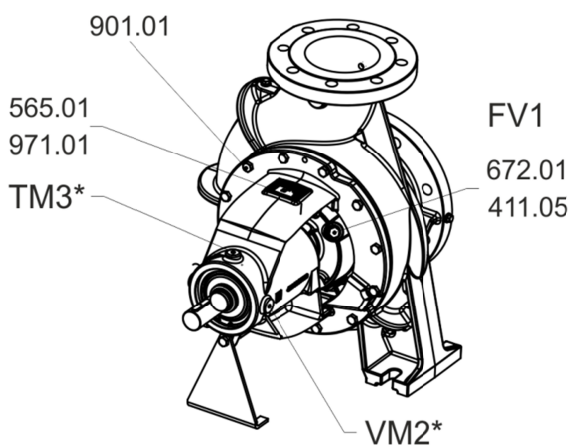
Design with intermediate ring by bearing bracket size 470-400

Design by bearing bracket size 360-250 + 470-315

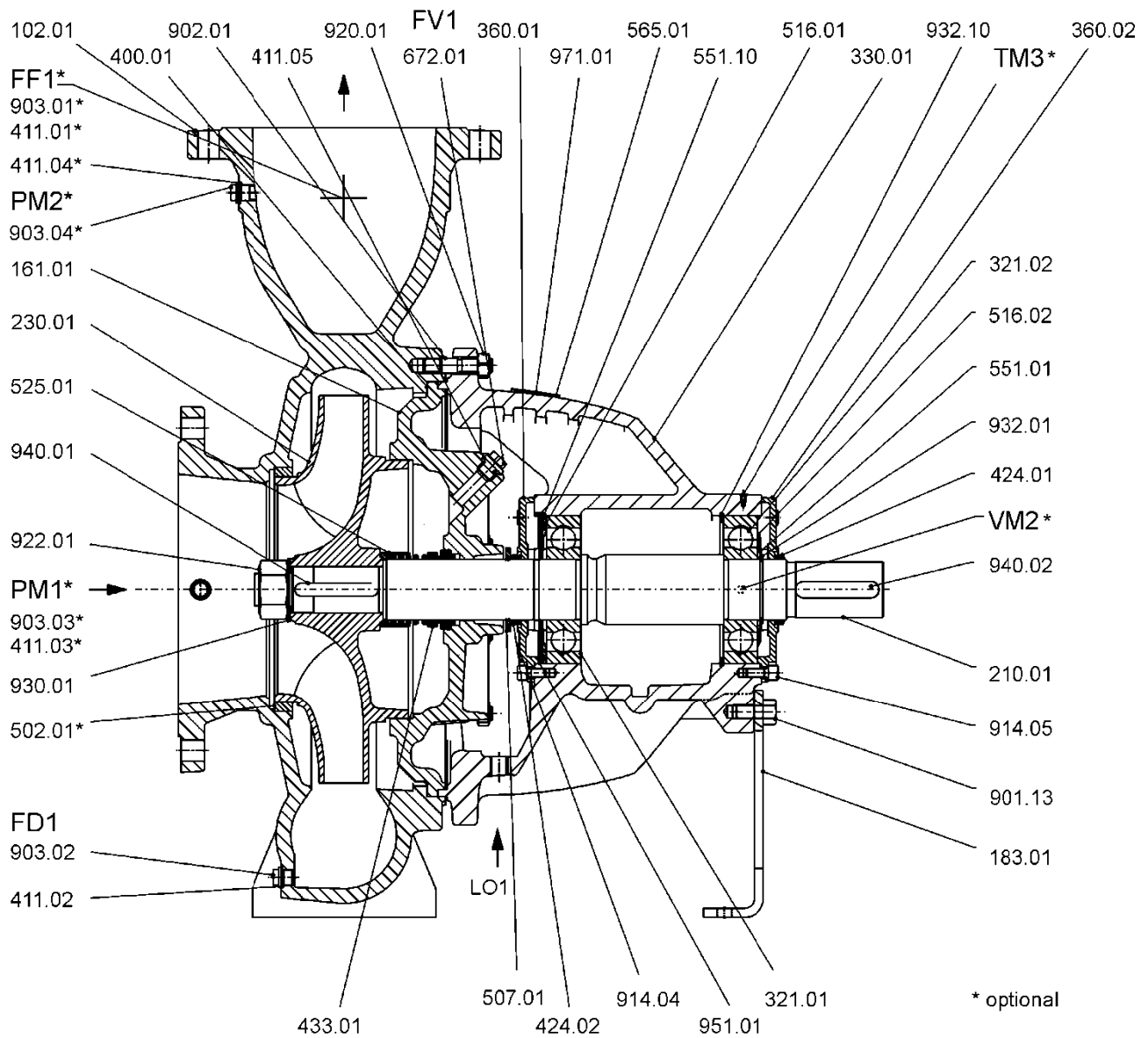
Sizes on bearing bracket size 530



U...D - mechanical seal unbalanced

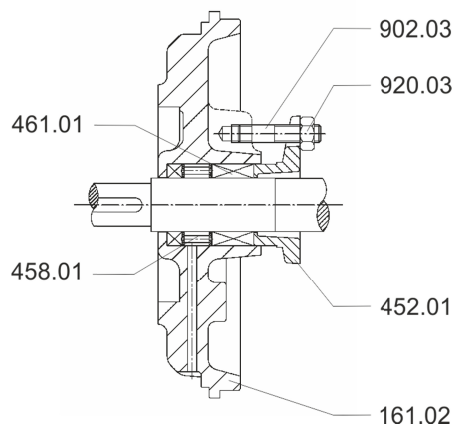


Sizes on bearing bracket size 585

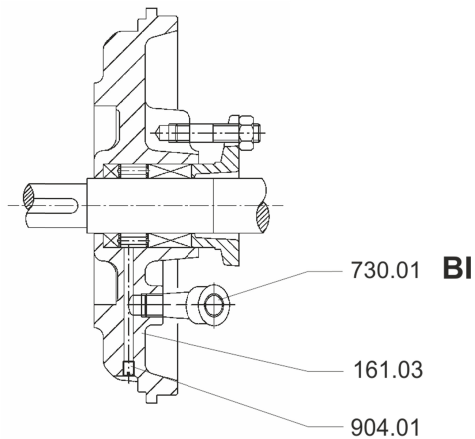


U...D - mechanical seal unbalanced

Shaft seal variants



Gland packing with internal sealing U1B



Gland packing with external sealing U1C

Technical drawing of a mechanical assembly in cross-section, showing various components and their reference numerals. The drawing includes a central shaft assembly with bearings, seals, and a pump mechanism. A large arrow points to the right, indicating flow direction. Numerous reference numerals are provided for each part, with some marked as optional. The drawing is labeled with 'PM1*', 'PM2*', 'FV1', and 'FD1' at the top and bottom.

Reference numerals (top): PM1*, 903.03*, 920.06, 412.06, 230.01, 903.01*, 411.01*, 412.01, 903.04*, 102.01, 411.04*, 161.05, 411.37, 903.05, 971.01, 920.05, 565.01, 411.01, 330.01, 932.10, TM3*, 321.02, 516.02, 551.01, 932.01, 424.01, VM2*, 210.01, 940.02, 360.02, 914.05, 901.10, 424.02, 321.01, 516.01, 551.10, 183.10, 901.04, 181.01, 592.10.

Reference numerals (bottom): 153.01, 901.03, 920.03, 901.12, 502.01*, 922.01, 182.01, 901.05, 930.01, 411.02, 940.01, 433.01, 412.10, 914.03, LO1, 914.10, 507.01, 360.01, 951.01, 901.01, 901.02, 901.03, 901.04, 901.05, 901.06, 901.07, 901.08, 901.09, 901.10, 901.11, 901.12, 901.13, 901.14, 901.15, 901.16, 901.17, 901.18, 901.19, 901.20, 901.21, 901.22, 901.23, 901.24, 901.25, 901.26, 901.27, 901.28, 901.29, 901.30, 901.31, 901.32, 901.33, 901.34, 901.35, 901.36, 901.37, 901.38, 901.39, 901.40, 901.41, 901.42, 901.43, 901.44, 901.45, 901.46, 901.47, 901.48, 901.49, 901.50, 901.51, 901.52, 901.53, 901.54, 901.55, 901.56, 901.57, 901.58, 901.59, 901.60, 901.61, 901.62, 901.63, 901.64, 901.65, 901.66, 901.67, 901.68, 901.69, 901.70, 901.71, 901.72, 901.73, 901.74, 901.75, 901.76, 901.77, 901.78, 901.79, 901.80, 901.81, 901.82, 901.83, 901.84, 901.85, 901.86, 901.87, 901.88, 901.89, 901.90, 901.91, 901.92, 901.93, 901.94, 901.95, 901.96, 901.97, 901.98, 901.99, 901.100.

Reference numerals (right side): 565.01, 411.01, 330.01, 932.10, TM3*, 321.02, 516.02, 551.01, 932.01, 424.01, VM2*, 210.01, 940.02, 360.02, 914.05, 901.10, 424.02, 321.01, 516.01, 551.10, 183.10, 901.04, 181.01, 592.10.

Reference numerals (left side): 153.01, 901.03, 920.03, 901.12, 502.01*, 922.01, 182.01, 901.05, 930.01, 411.02, 940.01, 433.01, 412.10, 914.03, LO1, 914.10, 507.01, 360.01, 951.01, 901.01, 901.02, 901.03, 901.04, 901.05, 901.06, 901.07, 901.08, 901.09, 901.10, 901.11, 901.12, 901.13, 901.14, 901.15, 901.16, 901.17, 901.18, 901.19, 901.20, 901.21, 901.22, 901.23, 901.24, 901.25, 901.26, 901.27, 901.28, 901.29, 901.30, 901.31, 901.32, 901.33, 901.34, 901.35, 901.36, 901.37, 901.38, 901.39, 901.40, 901.41, 901.42, 901.43, 901.44, 901.45, 901.46, 901.47, 901.48, 901.49, 901.50, 901.51, 901.52, 901.53, 901.54, 901.55, 901.56, 901.57, 901.58, 901.59, 901.60, 901.61, 901.62, 901.63, 901.64, 901.65, 901.66, 901.67, 901.68, 901.69, 901.70, 901.71, 901.72, 901.73, 901.74, 901.75, 901.76, 901.77, 901.78, 901.79, 901.80, 901.81, 901.82, 901.83, 901.84, 901.85, 901.86, 901.87, 901.88, 901.89, 901.90, 901.91, 901.92, 901.93, 901.94, 901.95, 901.96, 901.97, 901.98, 901.99, 901.100.

Reference numerals (bottom): 901.12, 502.01*, 903.02, 525.01, 914.07, 507.01, 951.01.

Reference numerals (top): FF1*, PM2*, FV1, FD1.

Reference numerals (right side): * optional

VM 538 GB/2018.04 – Ident-No. 795213

Technical drawing of a mechanical assembly in cross-section, showing various components and their part numbers. The drawing includes a central shaft with a pulley, a motor, and various housing and mounting parts. Part numbers are listed around the drawing, with some marked as optional with an asterisk. A dashed line with an arrow points to the right, indicating a section line. A small 'X' is marked on the central shaft area.

Part numbers and labels visible in the drawing:

- PM1*, 903.03*, 102.01, 230.01, FF1*, 903.01*, PM2*, 903.04*, 908.02, FV1, 903.05, 411.37, 903.26, 914.04, 902.05, 971.01, 565.01, TM3*, 330.01, 914.05, 551.01, 932.01, VM2*, 210.01, 940.02, 424.01, 360.02, 321.02, 901.10, 932.10, 551.12, 322.01, 183.10, 932.04, 901.04, 181.01, 360.01, 914.03, 433.01, 411.02, 901.05, 920.03, 901.03, 153.01, 182.01, 930.01, FD1, 903.02, 525.01, 914.10, 441.01, 507.01, 424.02, 901.04, 932.04, 183.10, 322.01, 551.12, 932.10, 901.10, 321.02, 360.02, 424.01, 940.02, 210.01, VM2*, 932.01, 551.01, 914.05, 330.01, TM3*, 565.01, 971.01

* optional

Technical drawing of a bolt and nut assembly. The bolt is labeled with the code **C01**. The dimensions shown are **411.06** for the bolt length and **903.06** for the nut height.

504.12

Detail X on the casing
cover

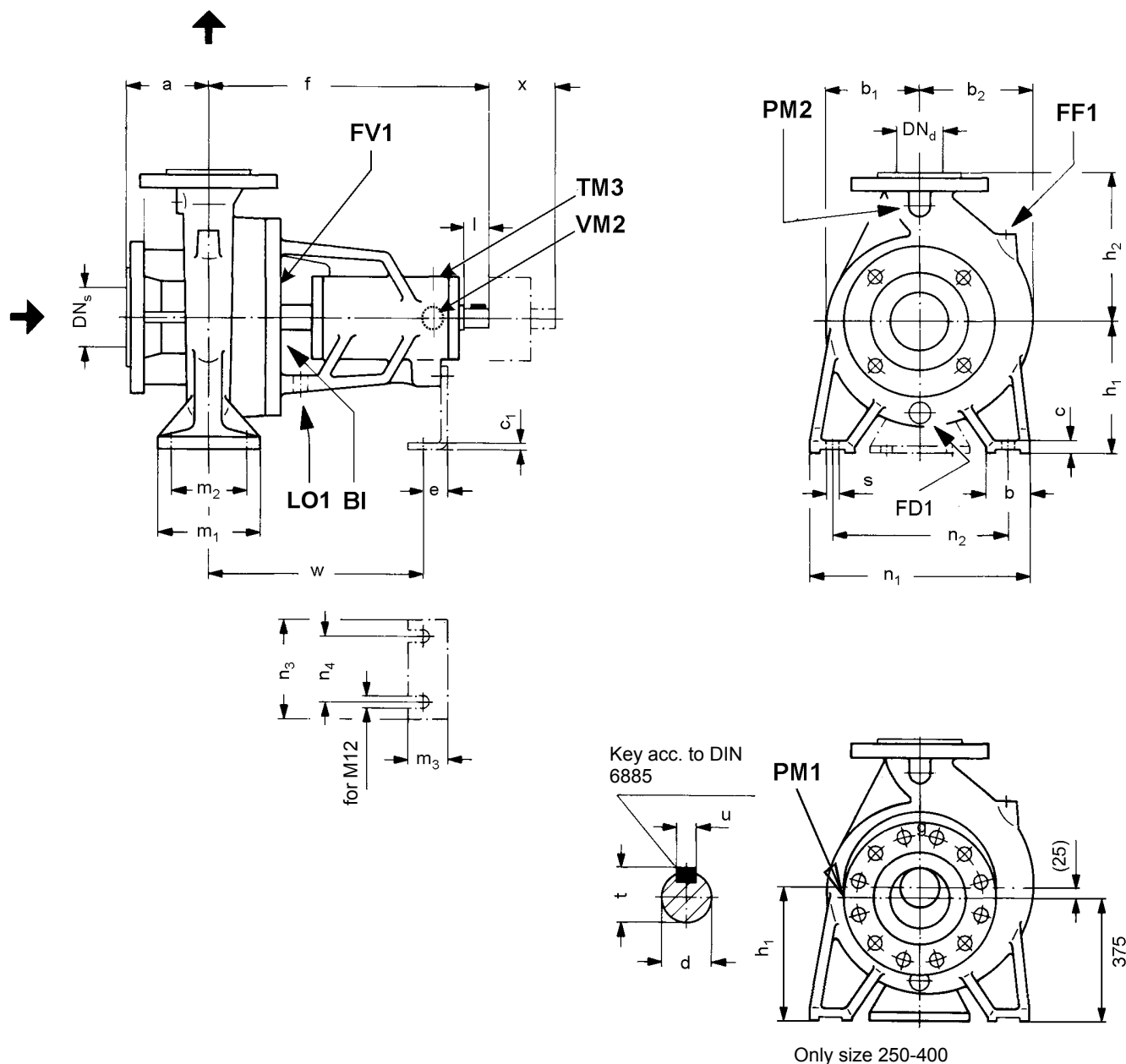
List of components

Denomination	Part-No.	Denomination	Part-No.
Volute casing	102.01	Pipe fitting	731.22
Stage casing	108.01	Hexagon head bolt	901.01
Suction branch	153.01	Hexagon head bolt	901.02
Casing cover	161.01	Hexagon head bolt	901.03
Casing cover	161.02	Hexagon head bolt	901.04
Casing cover	161.03	Hexagon head bolt	901.05
Casing cover	161.05	Hexagon head bolt	901.10
Diffuser	171.01	Hexagon head bolt	901.11
Pump frame	181.01	Hexagon head bolt	901.12
Foot	182.01	Hexagon head bolt	901.13
Support foot	183.01	Stud bolt	902.01
Support foot	183.10	Stud bolt	902.03
Shaft	210.01	Stud bolt	902.05
Impeller	230.01	Stud bolt	902.06
Impeller 1 st stage	230.02	Screw plug	903.01
Impeller 2 nd stage	230.03	Screw plug	903.02
Radial ball bearing	321.01	Screw plug	903.03
Radial ball bearing	321.02	Screw plug	903.04
Cylindrical roller bearing	322.01	Screw plug	903.05
Bearing housing	330.01	Screw plug	903.06
Bearing cover	360.01	Screw plug	903.26
Bearing cover	360.02	Setscrew	904.01
Gasket	400.01	Setscrew	904.05
Gasket	400.02	Jacking screw	908.01
Seal ring	411.01	Jacking screw	908.02
Seal ring	411.02	Jacking screw	908.03
Seal ring	411.03	Socket head cap screw	914.03
Seal ring	411.04	Socket head cap screw	914.04
Seal ring	411.05	Socket head cap screw	914.05
Seal ring	411.06	Socket head cap screw	914.07
Seal ring	411.21	Socket head cap screw	914.10
Seal ring	411.22	Hexagon nut	920.01
Seal ring	411.37	Hexagon nut	920.03
O-ring	412.01	Hexagon nut	920.05
O-ring	412.06	Hexagon nut	920.06
O-ring	412.10	Impeller nut	922.01
V-ring	424.01	Spring ring	930.01
V-ring	424.02	Circlip	932.01
Mechanical seal	433.01	Circlip	932.02
Shaft seal housing	441.01	Circlip	932.04
Stuffing box gland	452.01	Circlip	932.10
Lantern ring	458.01	Key	940.01
Gland packing	461.01	Key	940.02
Wear ring	502.01	Key	940.03
Spacer ring	504.12	Cup spring	951.01
Thrower	507.01	Nameplate	971.01
Intermediate ring	509.01		
Threaded ring	514.01		
Nilos ring	516.01		
Nilos ring	516.02		
Spacer sleeve	525.01		
Spacer disc	551.01		
Spacer disc	551.03		
Spacer disc	551.10		
Spacer disc	551.12		
Compensating disc	557.01		
Compensating disc	557.02		
Rivet	565.01		
Shim plate	592.10		
Venting	672.01		
Pipe	710.20		
Pipe fitting	730.01		
Pipe fitting	731.21		

Connections	for:
BI	External sealing
FD1	Draining
FF1	Filling
FV1	Venting (for automatic aspirator)
LO1	Leakage outlet
PM1	Pressure gauge
PM2	Pressure gauge
VM2	Vibration measurement connection
TM3	Temperature measurement connection

Main dimensions

Sizes on bearing bracket sizes 360, 470, 530 and 585



Dimensions in mm.

Sense of rotation: clockwise, as seen from the driving side.

Bearing bracket size	External sealing	Draining	Filling	Venting	Leakage-outlet	Pressure gauge	Pressure gauge	Vibration gauge	Temperature gauge
		①	②						
	BI	FD1	FF1	FV1	LO1	PM1	PM2	VM2	TM3
360	G 1/4	G 1/4	G 1/4	G 1/4	G 3/8	G 1/4	G 1/4	M8	M8
470	G 1/4	G 3/8	G 3/8	G 3/8	G 3/8	G 1/4	G 3/8	M8	M8
530	G 3/8	G 3/8	G 3/8	G 1/2	G 3/8	G 1/4	G 3/8	M8	M8
585	G 3/8	G 3/8	G 3/8	G 1/2	G 3/8	G 3/8	G 3/8	M8	M8
2-stage sizes	-	G 1/4	G 1/4	G 1/4	G 3/8	G 1/4	G 1/4	M8	M8

① connection FD1 in sizes 25-200 and 2/25-200 = G 1/2

② connection FF1 in sizes 25-200 and 2/25-200 not provides.

Flanges acc.to DIN EN 1092-2 PN 10 / PN 16 (The outside diameter and thickness of the flange may be larger than specified in the standard)

Main dimensions

Dimensions in mm without commitment.

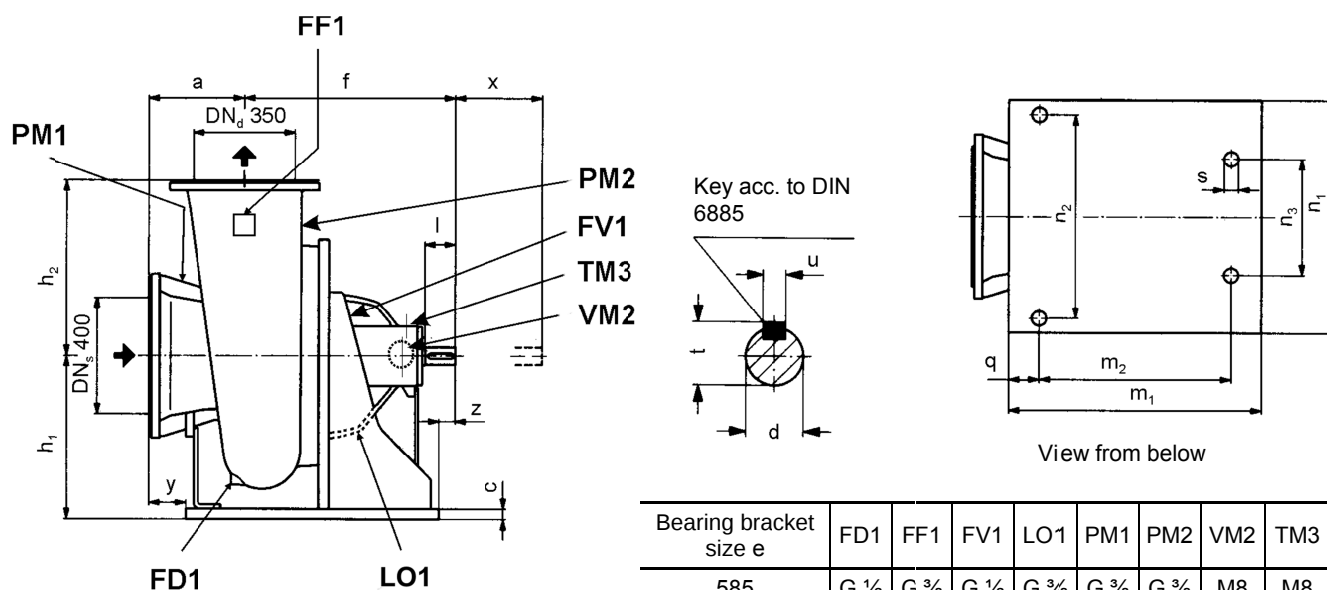
Tolerances of the connection dimensions according to DIN EN 735.

Bearing bracket size	Pumps size	Suction flange	Dis charge flange	Pump dimensions							Foot dimensions														Ex- ten- sion di- men sion	Shaft end acc. to DIN 748																				
				a	f	b ₁	b ₂	h ₁	h ₂	b	c	c ₁	e	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄	w	s	x	d		l	t	u																		
360	25-160	40	25	80	360	128	128	132	160	50	15	4	28	100	70	240	190	160	110	260	M12	100	24	50	27	8																				
	25-200					132	132	160	180																																					
	2/25-200					123	123	132	160																																					
	32-160	50	32			124	130	160	180																																					
	32-200					123	123	132	160																																					
	2/32-200					125	135	160	180																																					
	40-160	65	40	100		150	156	180	225	65				125	95	45	320										250																			
	40-200					123	123	132	160																																					
	40-250					125	135	160	180																																					
	2/40-250					123	130	160	180																																					
	50-160					133	145	200																																						
	50-200					156	169	180	225																																					
	50-250	50	125	133		162	160	200	65	125				95	280	212																														
	2/50-250			148		170	180	225																																						
	65-160			136		170	180	225																																						
	65-200			165		200	200	280																																						
80-160	100	80	125	165	200	200	280																																							
100-160	125	100																																												
470	65-250	80	65	100	470	164	184	200	250	80	18	4	28	160	120	45	360	280	160	110	340	M16	100	32	80	35	10																			
	65-315					202	219	225	280							47	400	315																												
	65-400					239	255	250	355																			420	335																	
	80-200	100	80	125		163	188	180	250	65				18	4	28	125	95				45	345							280	M12	100														
	80-250					182	208	200	280													47	400					315																		
	80-315					210	231	250	315																				45	360			280													
	100-200	125	100	140		165	203	200	280	80							18	4				28	160					120			47	400		315	M16	140										
	100-250					189	224	225	280																				25	6			30				47	400	315							
	100-315					220	250	315	25																															6	30	47	400	315		
	125-200	150	125	140		196	236	250		315													18					6	30	160	120	47	400	315	M16	140										
	125-250					212	255	355	18	6																											30	47	400	315						
	150-200					214	268	280																																	370	100	27			
	530	80-400	100	80		125	530	246	265																					80	25			160	120	435	355	160	110	370	M16			140	42	110
		100-400	125	100				256	272	280													355													100	27					6	31			
125-315		150	125	226	252				500	400																																				
125-400				285	315	315		400			231	283	280						375	550	450																									
150-250		200	150	160	239	271		280	400	277													305	315	450	262	330			355				425												
150-315					277	305		315	450																																					
150-400					277	305		315	450																																					
200-250					200	180																																								
585	200-315	250	200	200	585	270		335	355	450	110	27	10	42	200	150	550	450	250	200	410	M 20	180	60	105	64	18																			
	200-400			180		315		374	500	100	130	30																		260				190	65	690	560									
	250-315	250	325	408		560		130	30	280					200	630	500																													
	250-400	300	250	225		350		440	400		600	120																																		

Installation dimensions are available in ALLWEILER drawing archive ALL2CAD.

Main dimensions

Size 300-315 and 300-400 on bearing bracket 585 ① and 700



Bearing bracket size e	FD1	FF1	FV1	LO1	PM1	PM2	VM2	TM3
585	G ½	G ¾	G ½	G ¾	G ¾	G ¾	M8	M8
700	G ½	G ¾	G ½	G ½	G ¾	G ¾	M8	M8

Flanges acc. to DIN EN 1092-2 PN 10 / PN 16 (The outside diameter and thickness of the flange may be larger than specified in the standard).

Dimensions in mm.

Sense of rotation: clockwise, as seen from the driving side.

Pump size	Bearing bracket size	Pump dimensions				Foot dimensions								Extension dimension	Shaft end acc. to DIN 748				Others	
		a	f	h_1	h_2	c	m_1	m_2	n_1	n_2	n_3	q	s		d	l	t	u	y	z
300-315	585	325	730	560	600	35	850	720	800	700	400	50	M30	250	60	105	64	18	148	57
	700		795												75		79,5	20		122
300-400	585		700												60		64	18	118	57
	700		765												75		79,5	20		122

Installation dimensions are available in ALLWEILER drawing archive ALL2CAD.

Allocation of the bearing bracket sizes to the speeds

Pump size	Speed [min ⁻¹]			
	950	1.180	1.450	1.780
Bearing bracket size				
300-315	585 ①			700
300-400				

① up to the max. power 200 kW; above 200 kW bearing housing size 700 has to be used

Subject for technical alterations.