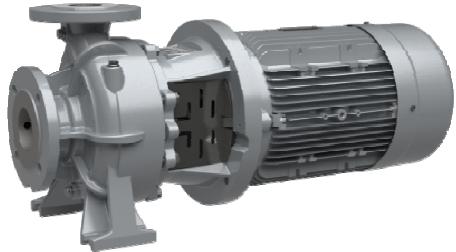


# Volute Casing Centrifugal Pumps SERIES NB

## Block Design



### Application

For pumping pure water, industrial water, sea water, condensates, oils, brines and hot water.

The fluids to be pumped must not contain any abrasive particles nor chemically attack the pump materials.

### Main fields of application

In cooling and heating systems, in circulating, water supply, water treatment, sea-water desalination, dedusting and spray painting plants as well as in air-conditioning, cooling, swimming pool and industrial engineering.

### Design and series construction

Volute casing centrifugal pump, single entry, single or two-stage, of block design. Pump size according to DIN EN 733.

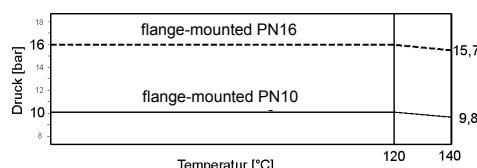
Stub and motor shaft are rigidly coupled together. Shaft bearing in the motor by means of grease-lubricated groove ball bearings. The mating dimensions of the two-stage sizes 2/25–200, 2/32–200, 2/40–250, 2/50–250, except for dimensions f and l depending upon the driving motors, correspond to the single-stage designs. Volute casing with feet cast on.

Horizontal or vertical installation, motor arrangement downwards is not admissible.

### Performance data

Delivery	Q	up to	480 m <sup>3</sup> /h
Delivery head	H	up to	145 m
Temperature of the fluid pumped	t	up to	140 °C
Inlet pressure	p <sub>s</sub>	①	
Pump discharge pressure	p <sub>d</sub>	to 10/16 bar ②	
Drive power	P	0,25 up to 37 kW	
Nominal diameter, delivery flange	DN <sub>d</sub>	25 up to 150	

- ① inlet pressure plus maximum delivery head must not exceed the admissible pump outlet pressure
- ② Depends on flange version (PN stage, see diagram) and the shaft seal.



### Branch position/flanges

Suction branch: axial  
 Delivery branch: radially upwards  
 Flanges: up to DN 150 acc. to DIN EN 1092-2 PN 16  
           as from DN 200 acc. to DIN EN 1092-2  
           PN 10 / PN16

### Contact protection

The requirements of DIN EN 809 "Contact protection", are met.

### Shaft seal

By maintenance-free mechanical seal in unbalanced design (main dimensions acc. to DIN EN 12 756, design K, shape U).

### Combination of components

The table on page 3 shows the combination possibilities of components of all NB sizes. The unit assembly system allows reduced stock keeping of spare parts.

### Explosion protection

 The pump fulfils the requirements according to EC Explosion Protection Directive 2014/34/EU for equipment and equipment group II, category 2 G. Categorisation into temperature classes according to DIN EN 13463-1 depends on the temperature of the pumped medium. The max. permissible temperature of the pumped medium 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. In case of an operation with constant parameters (pressure, temperature, speed = const.), a pump performance controller can be supplied with the pump to detect any operational faults.

### Drive

Surface-cooled three-phase squirrel-cage induction motors, with locating-type bearing, IM V1 type of construction, enclosure IP55 according to IEC Standard, class F insulation, performances and main dimensions according to DIN 50 347, up to 2.2 kW 230/400V, from 3.0 kW 400/690 V.

**Attention:** Motors provided by customers must also have a locating-type bearing!

### Dismantling the driving unit

When dismantling the driving unit, the volute casing may remain in the piping.

### Connections

The following auxiliary connections are always provided:

- FD1 Draining
- FV1 Venting
- optional
- FF1 ③ Filling
- PM1 Pressure measurement pump
- PM2 Pressure measurement pump

③ connection FF1 at sizes 20-160; 25-200 und 2/25-200 not existent; failure at connection PM2 possible

**Shaft seals with temperature and pressure limits**

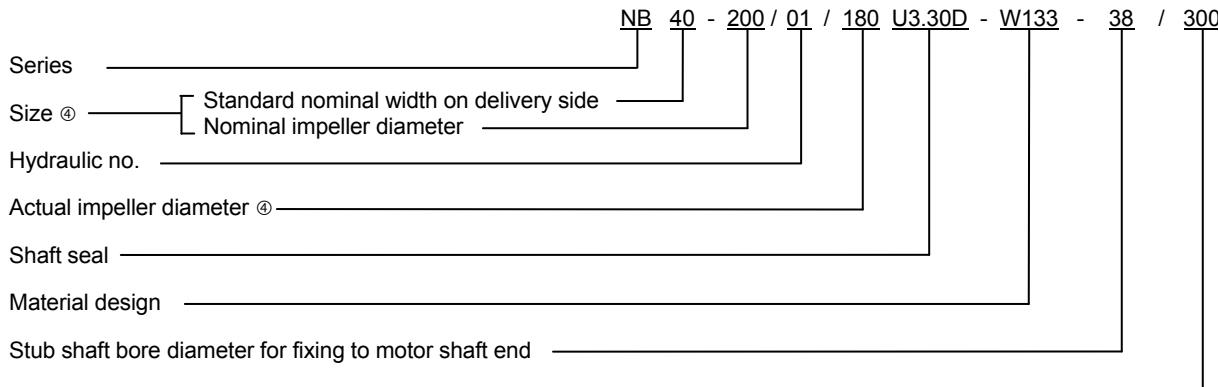
Available for all material designs

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 <sub>d</sub> (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 &gt; 5 bar the use of the shaft sealing type U3.50D/U3.51D is absolutely essential!

Other mechanical seal designs on inquiry.

**Abbreviation system**

④ The actual impeller diameter of two-stage sizes relates to the second stage. The number of stages is placed in front of the nominal width of the outlet branch, e.g. 2/40-200/...

**Materials**

Denomination	Part No.		Material designs				
	single-stage	two-stage	W 133	W 134	W 135	W 149	W152
Volute casing	102...	102...	CC333G	EN-GJS-400-15	EN-GJS-400-15	EN-GJS-400-18-LT	EN-GJS-400-18-LT
Impeller	230...	-	CC333G	CC333G	EN-GJL-200	CC333G	EN-GJL-200
Impeller 1st stage	-	230...	CC333G	CC333G	EN-GJL-200	CC333G	EN-GJL-200
Impeller 2nd stage	-	230...	CC333G	CC333G	EN-GJL-200	CC333G	EN-GJL-200
Diffuser	-	171...	CC333G	CC333G	EN-GJL-200	CC333G	EN-GJL-200
Stage casing	-	108...	CC333G	EN-GJS-400-15	EN-GJS-400-15	EN-GJS-400-18-LT	EN-GJS-400-18-LT
Casing cover	161...	161...	CC333G	EN-GJS-400-15	EN-GJS-400-15	EN-GJS-400-18-LT	EN-GJS-400-18-LT
Stub shaft	220...	220...	1.4462/1.7139 ④	1.4462/1.7139 ④	1.4462/1.7139 ④	1.4462/1.7139 ⑤	1.4462/1.7139 ④
Drive lantern	341...	341...	EN-GJL-250	EN-GJL-250	EN-GJL-250	EN-GJL-250	EN-GJL-250
Intermediate ring	509.01	-	CC333G	EN-GJS-400-15	EN-GJS-400-15	EN-GJS-400-18-LT	EN-GJS-400-18-LT
Intermediate ring	509.02	-	EN-GJL-250 or St	EN-GJL-250 or St	EN-GJL-250 or St	EN-GJL-250 or St	EN-GJL-250 oder St

④ in contact with fluids 1.4462 / motor side 1.7139

Other versions available from the factory upon request.

**Combination of components**

The following table shows the combination possibilities of components or spare parts of the NB sizes.  
Within a vertical column, parts with identical numbers are interchangeable.

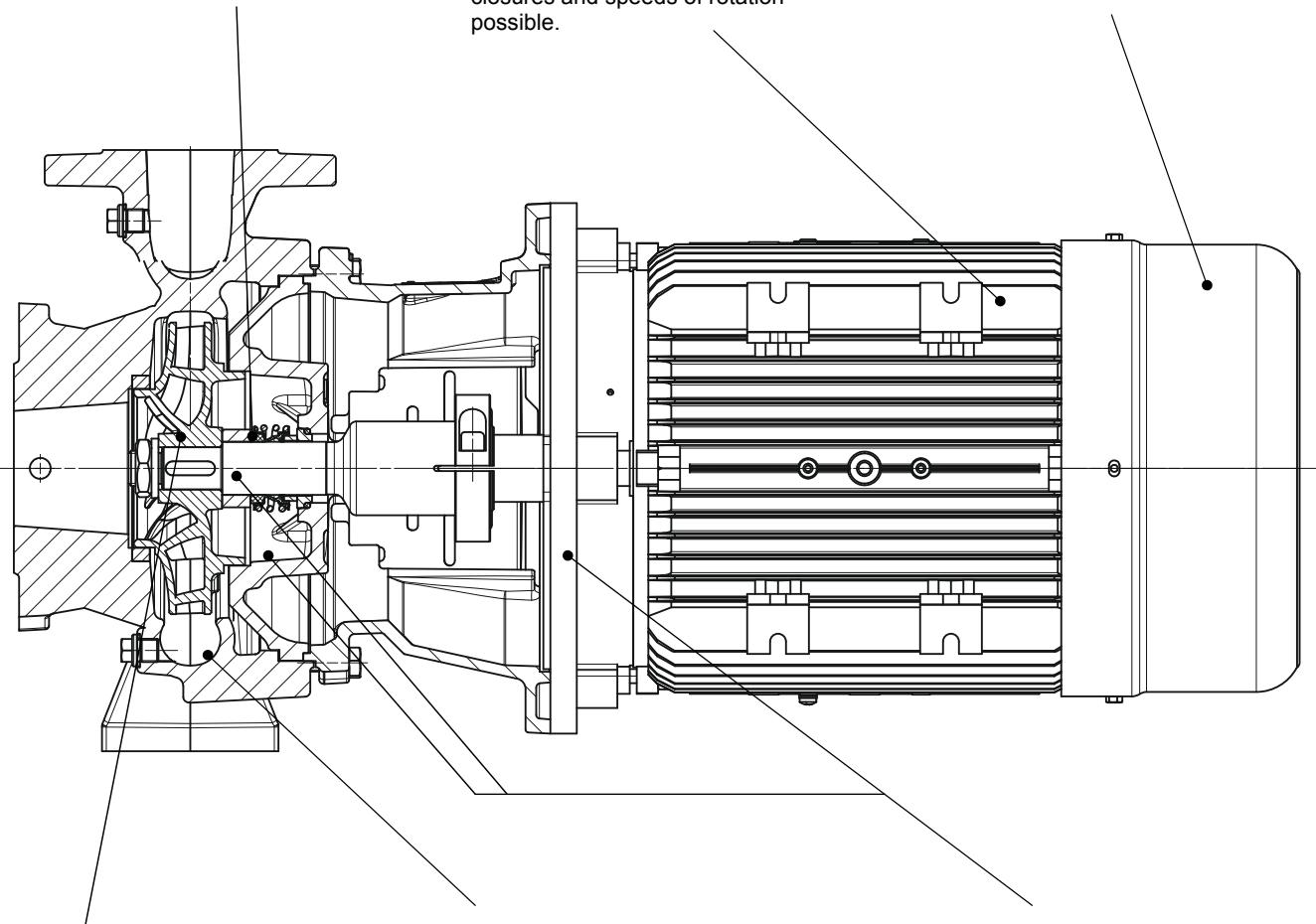
Shaft diameter at the shaft seal mm	Pump size NB	Volute casing	Impeller	Impeller		Diffuser	Stage casing	Intermediate ring	Casing cover	Stub shaft	Drive lantern	Intermediate ring		
				1st stage	2nd stage									
The allocation to the sizes depends on speed, motor performance and motor design														
16	20-160	1	1	-	-	-	-	-	1	16-14 16-19 16-24 16-28	16-160 16-200 16-250	-		
24	32-125	2	2	-	-	-	-	-	2	24-14 24-19 24-24 24-28 24-38 24-42	24-160 24-200 24-250 24-300 24-350	-		
	40-125	3	3											
	50-125	4	4											
	65-125	5	5											
30	25-160	6	6	-	-	-	-	-	3	30-19 30-24 30-28	30-200	-		
	25-200	7	7											
	32-160	8	8											
	32-200	9	9						4	30-38	30-300			
	40-160	10	10											
	40-200	11	11						3	30-42	30-350			
	40-250	12	12											
	50-160	13	13						4	30-48	30-400			
	50-200	14	14											
	50-250	15	15						3	30-55	30-400			
	65-160	16	16											
	65-200	17	17						4	30-55	30-400			
	80-160	18	18											
	100-160	19	19						3	30-55	30-400			
30 two-stage	2/25-200	7	-	1	1	1	1	-	5	2/30-19 2/30-24 2/30-28 2/30-38	30-200	-		
	2/32-200	9	-											
	2/40-250	12	-	6	6	2	2		6	2/30-42 2/30-46 2/30-48 2/30-55	30-300			
	2/50-250	15	-											
40	65-250	20	20	-	-	-	-	-	7	40-28	280.180.0	-		
	65-315	21	21											
	65-400	22	22						3	40-38	280.230.20			
	80-200	23	23											
	80-250	24	24						7	40-42	280.250.50			
	80-315	25	25											
	100-200	26	26						8	40-48	280.300.50			
	100-250	27	27											
	100-315	28	28						7	40-55	280.300.50			
	125-200	29	29											
	125-250	30	30											
	150-200	31	31											

**Benefits**

**Uncooled, unbalanced mechanical seal** for cavities according to DIN EN 12 756, design K, form U.

**Commercial standard motors** with locating-type bearing, construction IM V1, all types of enclosures and speeds of rotation possible.

**Horizontal and vertical mounting possible** with exception of motor downward.



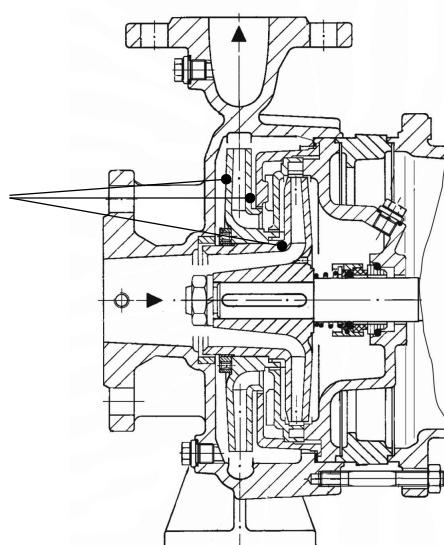
**Negligible axial thrust** by fine adaption of the balancing holes.

Optimized hydraulic with **very good efficiencies and NPSH-values** of the standard series NT acc. to DIN EN 733, **delivery rate partly considerable above the standard demands**

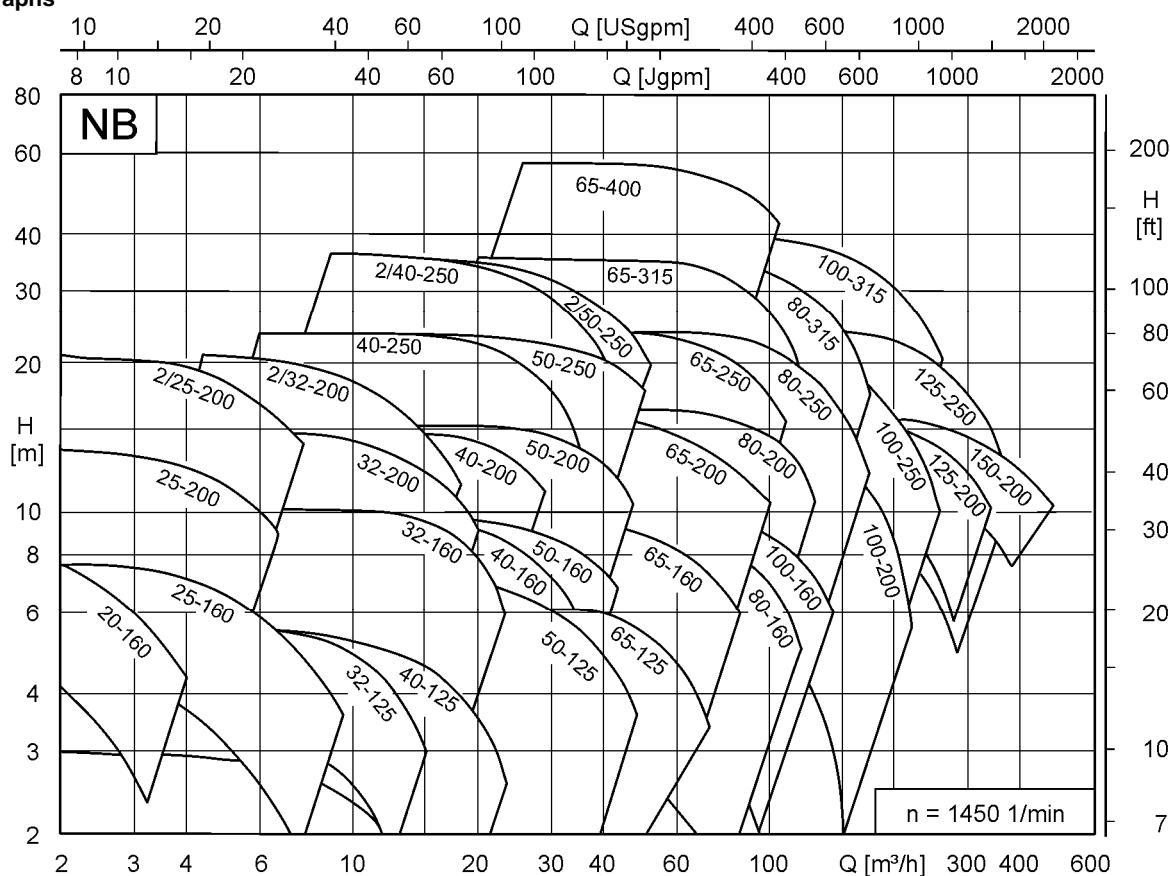
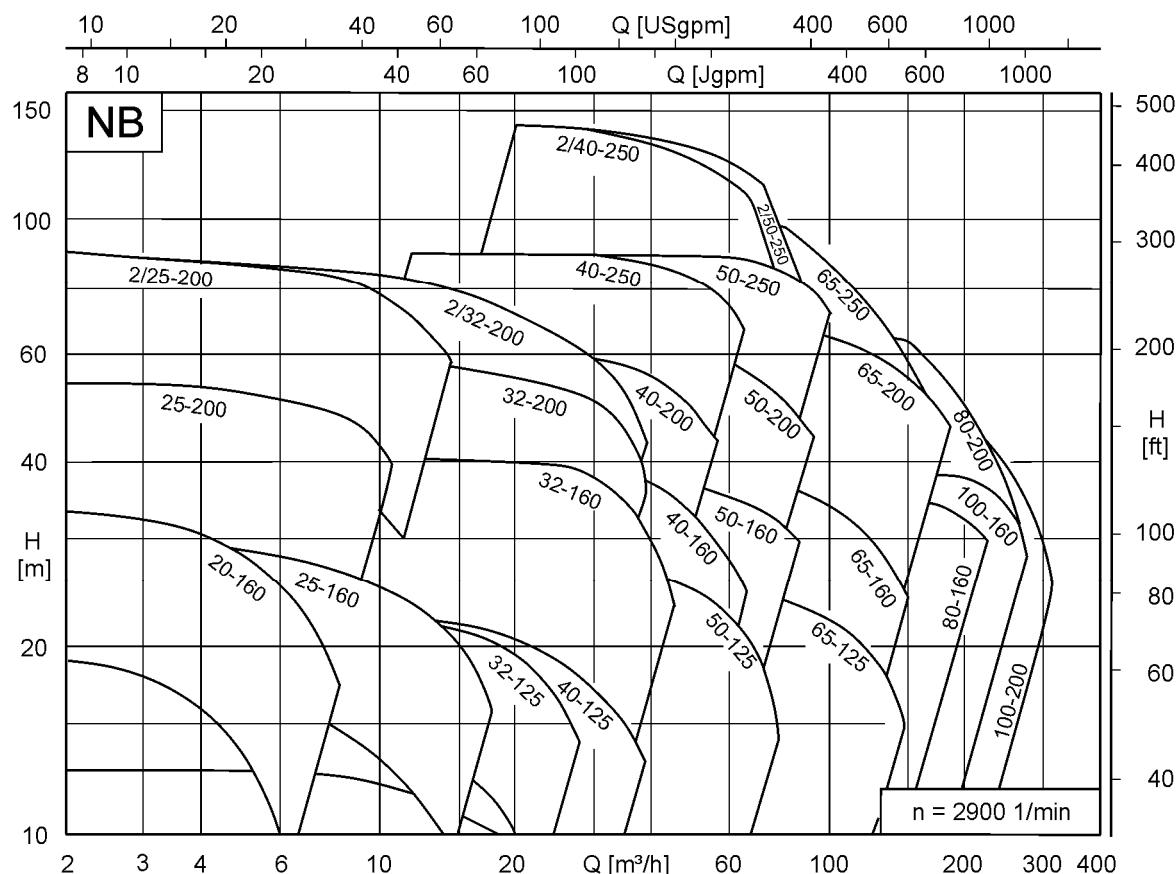
When dismantling the driving unit (including impeller) the **volute casing remains in the piping**.

**Larger delivery heads** with two-stage sizes (2/25-200, 2/32-200, 2/40-250, 2/50-250).

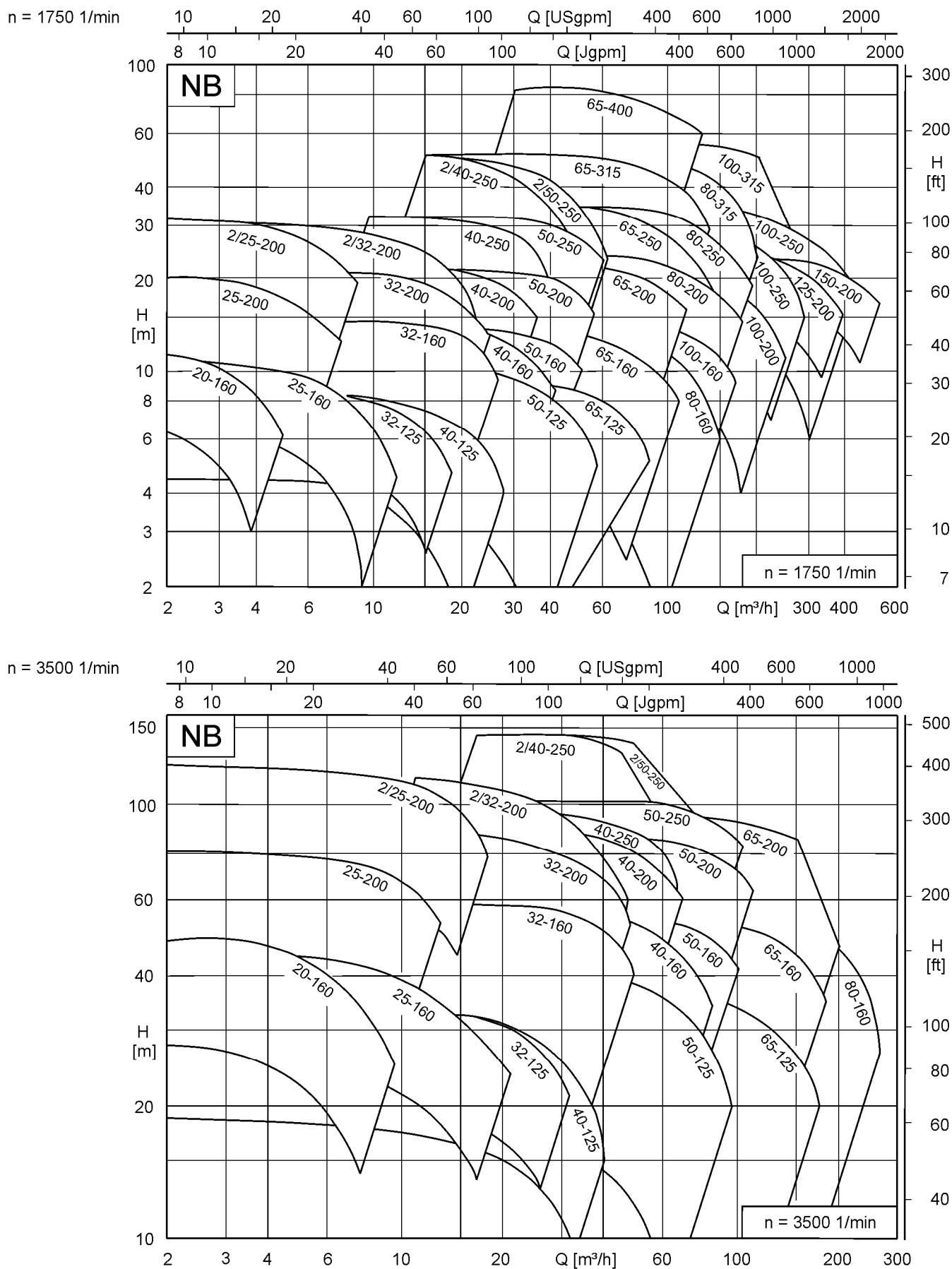
The outer dimensions correspond with the single stage design.



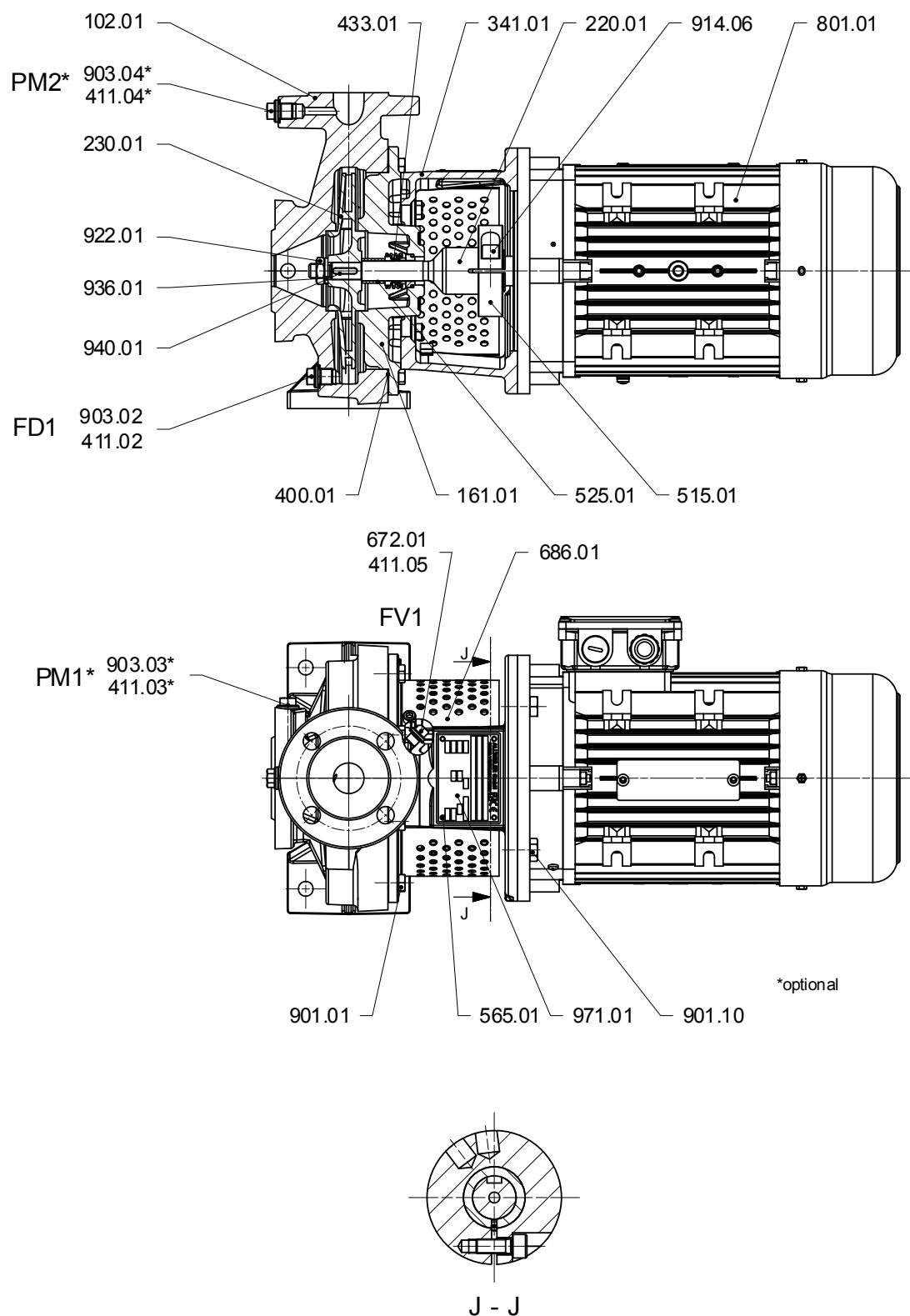
## Performance graphs

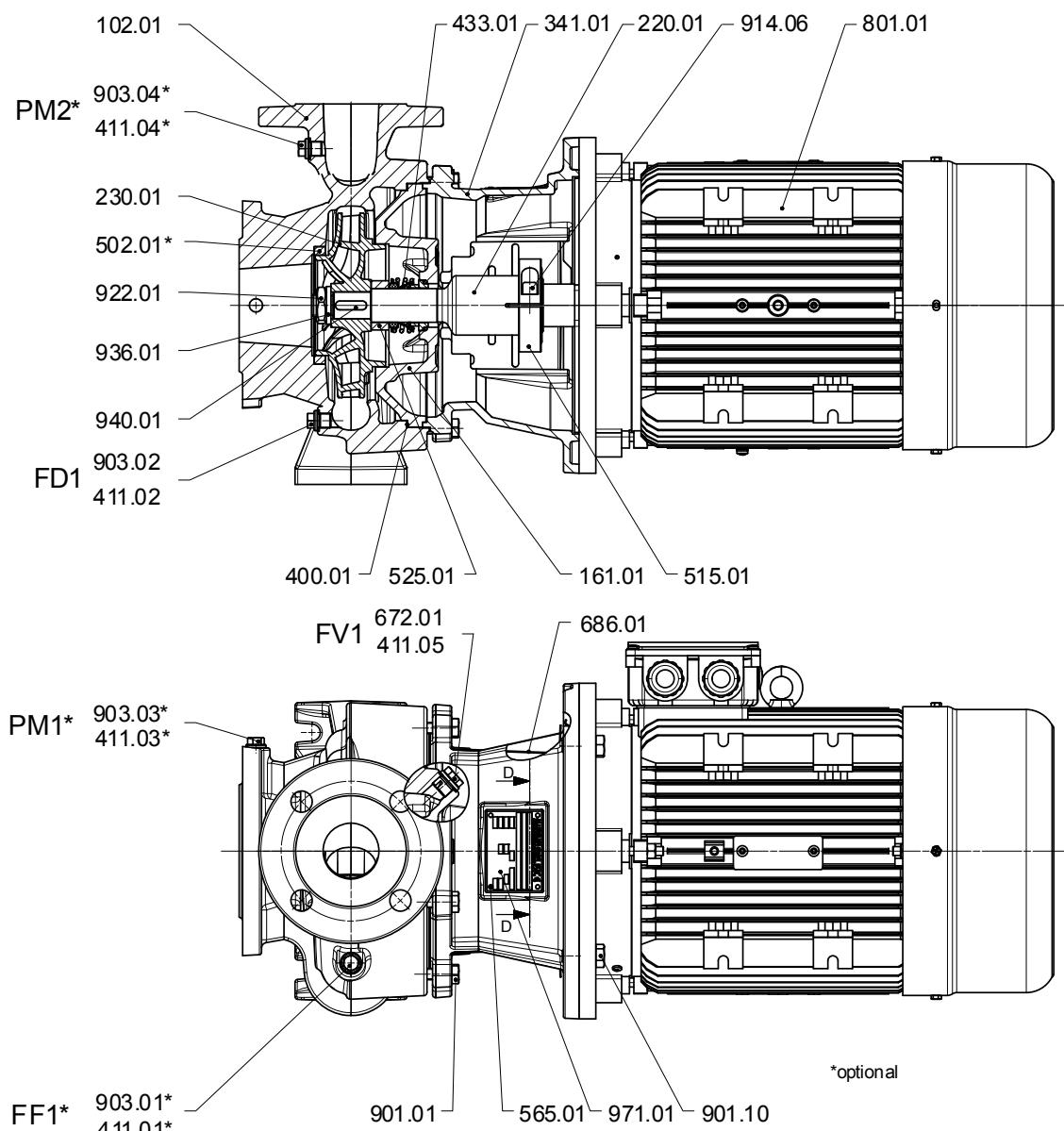
 $n = 1450 \text{ 1/min}$  $n = 2900 \text{ 1/min}$ 

Refer to the individual curves for precise performance data.  
Valid for  $\rho = 1 \text{ kg/dm}^3$  and  $v = 1 \text{ mm}^2/\text{s}$ .

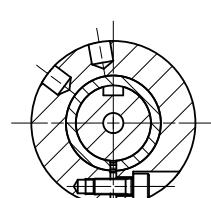


Refer to the individual curves for precise performance data.  
Valid for  $\rho = 1 \text{ kg/dm}^3$  and  $v = 1 \text{ mm}^2/\text{s}$ .

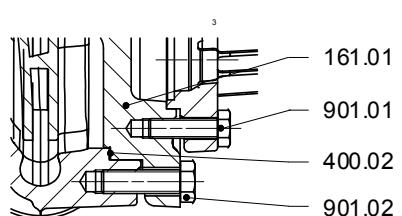
**Sectional drawing**Single-stage sizes with **shaft diameter 16** at the shaft seal

**Sectional drawing**Single-stage sizes with **shaft diameters 24 and 30** at the shaft seal

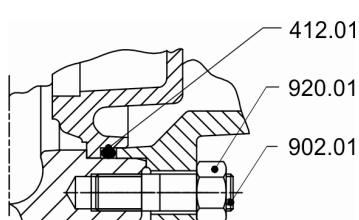
Uncooled, unbalanced mechanical seal



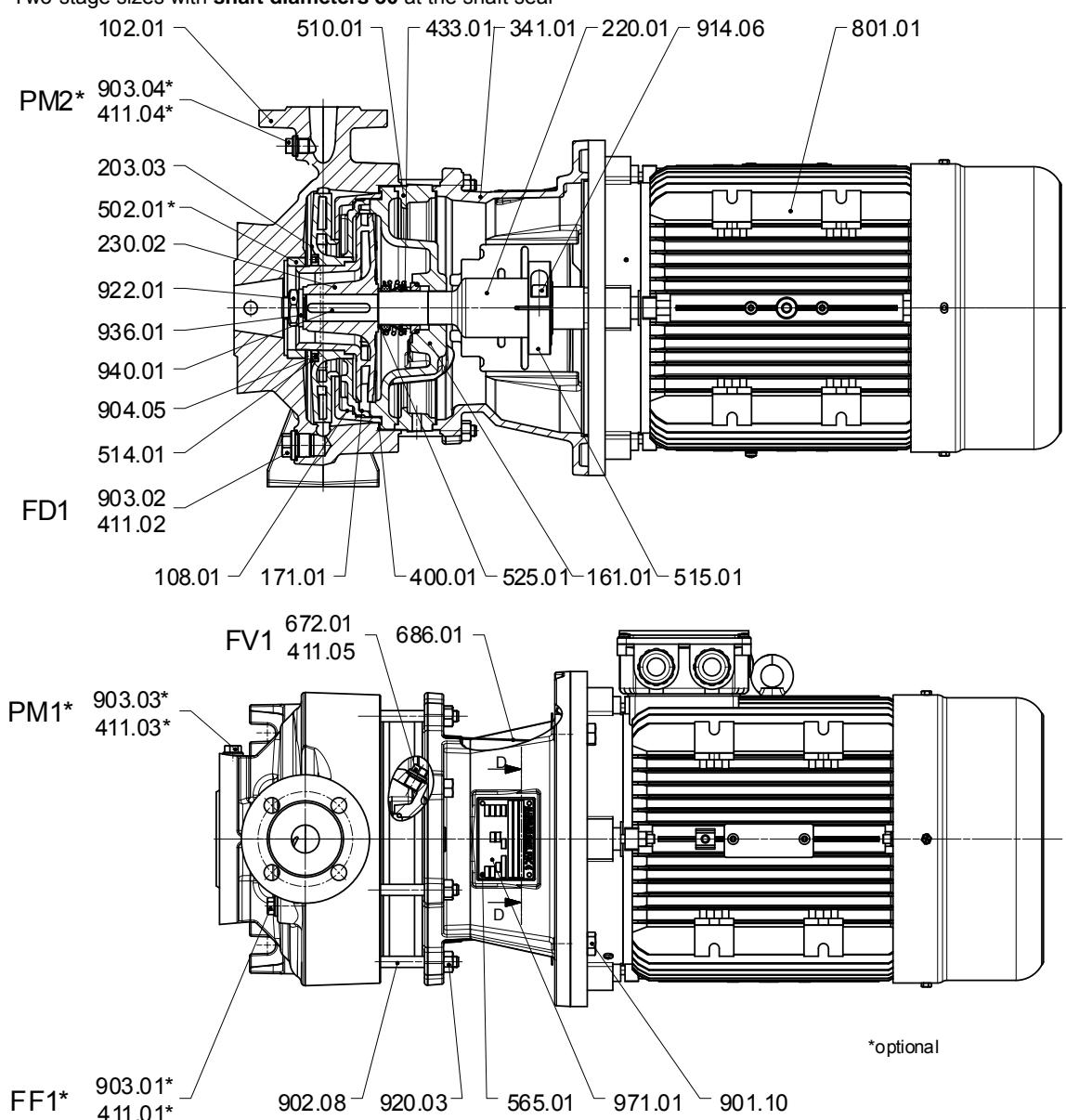
D - D



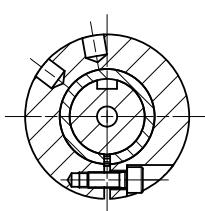
Design of size 40-250, 50-250 &amp; 65-200



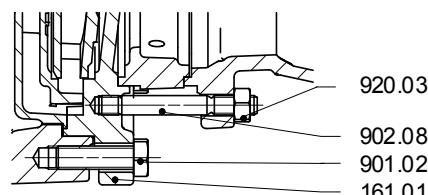
Sizes with shaft diameters 24 at the shaft seal

**Sectional drawing**Two-stage sizes with **shaft diameters 30** at the shaft seal

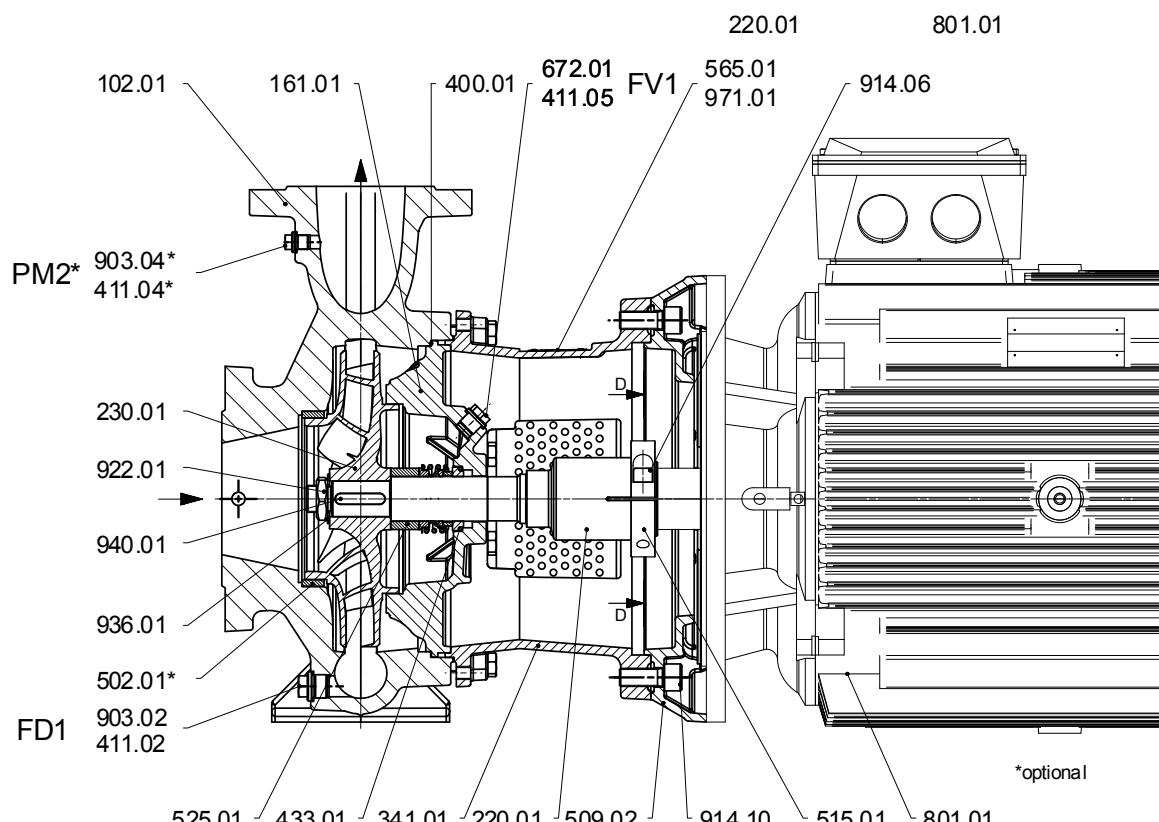
Uncooled, unbalanced mechanical seal



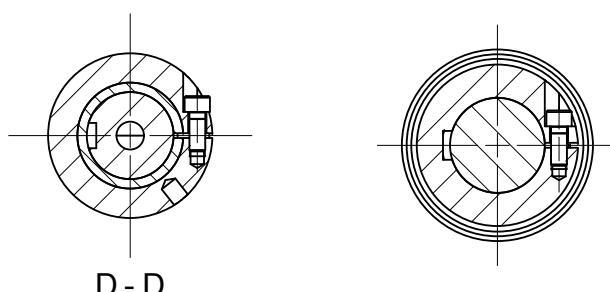
D - D



Design of size 2/40-250 und 2/50-250

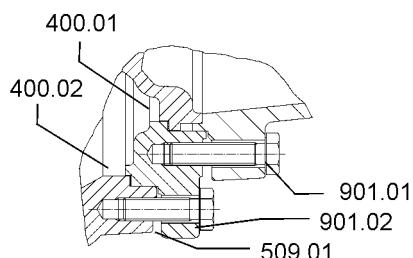
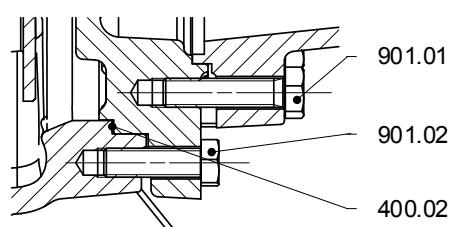
**Sectional drawing**Sizes with **shaft diameter 40** at the shaft seal

Uncooled, unbalanced mechanical seal

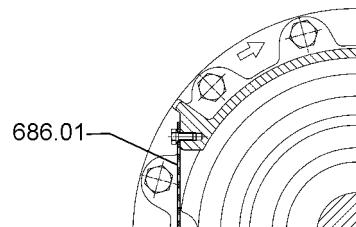


Motor shaft dia. up to 55

Motor shaft dia. &gt; 55

Design with intermediate ring,  
size 65-400

Design with size 65-315, 80-315 &amp; 100-315

Fixing of guard plate to the drive lantern.  
Protection against accidental contact  
acc. to DIN EN 809

**List of components**

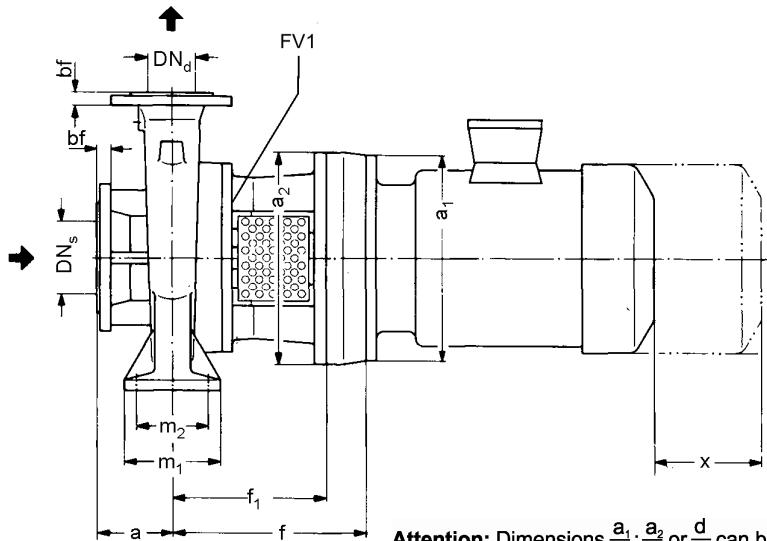
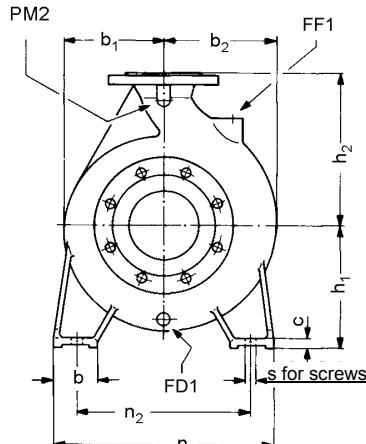
Denomination	Part-No	Denomination	Part-No
Volute casing	102.01	Stud bolt	902.08
Stage casing	108.01	Stud bolt	902.10
Casing cover	161.01	Screwed plug	903.01
Diffuser	171.01	Screwed plug	903.02
Stub shaft	220.01	Screwed plug	903.03
Impeller	230.01	Screwed plug	903.04
Impeller 1st stage	230.02	Grub screw	904.05
Impeller 2nd stage	230.03	Socket head cap screw	914.06
Drive lantern	341.01	Socket head cap screw	914.10
Gasket	400.01	Hexagonal nut	920.03
Gasket	400.02	Hexagonal nut	920.10
Joint ring	411.01	Impeller nut	922.01
Joint ring	411.02	Spring washer	936.01
Joint ring	411.03	Key	940.01
Joint ring	411.04	Rating plate	971.01
Joint ring	411.05		
O-ring	412.01		
Mechanical seal	433.01		
Intermediate ring	509.01		
Intermediate ring	509.02		
Spacer ring	510.01		
Threaded ring	514.01		
Clamping ring	515.01		
Spacer sleeve	525.01		
Rivet	565.01		
Bleeder screw	672.01	Connections	Connections
Guard plate	686.01	FD1	Drainage
Flange-mounted motor	801.01	FF1	Filling
Hexagonal screw	901.01	FV1	Venting
Hexagonal screw	901.02	PM1	Pressure measurement
Hexagonal screw	901.10	PM2	Pressure measurement





$n = 1450/1750 \text{ min}^{-1}$ 

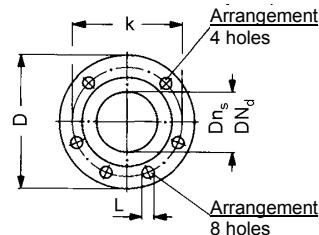
Aggregate dimensions: Sizes with shaft diameter 30 and 40 at the shaft seal

Attention: Dimensions  $\frac{a_1}{2}, \frac{a_2}{2}$  or  $\frac{d}{2}$  can be larger than  $h_1$ 

Shaft diameter at the shaft seal	Connections			
	Draining	Filling	Vent-ing	Pressure measurement
mm	FD1	FF1	FV1	PM2
30	G 1/4	G 1/4	G 1/4	G 1/4
40	G 3/8	G 3/8	G 3/8	G 3/8

Connections at sizes 25-160, 25-200 and 2/25-200;  
FD1=G 1/4; FF1 at sizes 20-160, 25-200 and 2/25-200  
not existent.

Flanges:						
DN 150 acc. to DIN EN 1092-2 PN 16						
DN 200 acc. to DIN EN 1092-2 PN 10						
DN <sub>d</sub> DN <sub>s</sub>	D	bf	k	L	No. of holes	
65	185	20	145	19	4	
80	200	22	160			
100	220	24	180			
125	250		210		8	
150	285	26	240	23		
200	340	30	295		12	



Tolerances of connection dimensions acc. to DIN EN 735

Sense of rotation:  
clockwise as seen from the driving side

Dimensions in mm without commitment

Shaft diameter at shaft seal	Pump-size	Motor-size	Performance	Aggregate dimensions																Allocation stub shaft/motor bracket/intermediate ring Contained in abbreviation, v. page 2		
				Pump dimension												Feet				Motor and flange dimensions approx. dimensions varying depending upon manufacturer	Extension dim	
				Flanges												b	c	m <sub>1</sub>	m <sub>2</sub>	n <sub>1</sub>	n <sub>2</sub>	s
mm			kW	DN <sub>s</sub>	DN <sub>d</sub>	a	f	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	f <sub>1</sub>	h <sub>1</sub>	h <sub>2</sub>	b	c	m <sub>1</sub>	m <sub>2</sub>	n <sub>1</sub>	n <sub>2</sub>	s	a <sub>1</sub>	x
30	65-200	80-160	90 S	1,1	80	65	100	149	148	170	180	225	65	15	125	95	320	250	M12	250	24/200	
			90 L	1,5																		
			100 L	2,2   3																85		
			112 M	4																28/250		
			132 S	5,5																38/300		
	100-160		132 M	7,5																102		
			80	0,55   0,75																19/200		
			90 S	1,1																24/200		
			90 L	1,5																28/250		
			100 L	2,2   3																38/300		
40	65-250	125-315	112 M	4	100	80	125	149	136	170	180	225	65	15	125	95	320	250	M12	200	19/200	
			132 S	5,5																24/200		
			132 M	7,5																28/250		
			160 M	11																38/300		
			160 L	15																102		
			180 M	22																24/350		
			112 M	4																48/350		
			132 S	5,5																48/350		
			132 M	7,5																48/350		
			160 M	11																105		
			160 L	15																42/350		
			180 M	18,5																48/350		
			180 L	22																55/400		
			200 L	30																55/400		

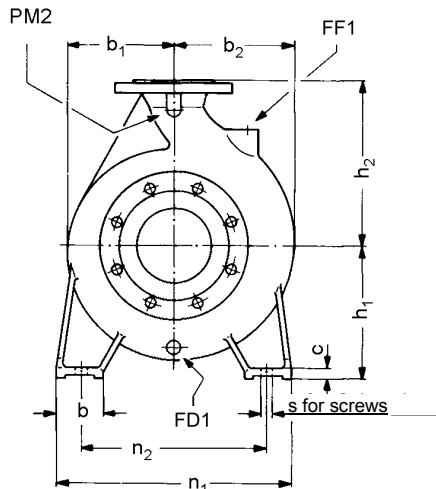
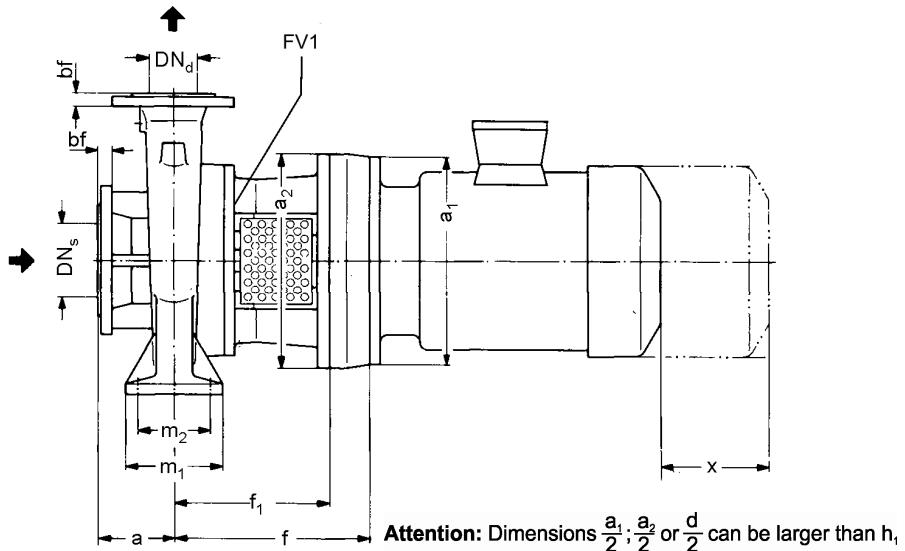
$n = 1450/1750 \text{ min}^{-1}$ 

Shaft diameter at shaft seal mm	Pump-size	Motor-size	Performance	Aggregate dimension																Allocation stub shaft/motor bracket/intermediate ring Contained in abbreviation, v. page 2				
				Pump dimension																	Extension dim			
				Flanges		Feet																		
40	65-400	80-200	80-250	kW	DNs	DNd	a	f	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	f <sub>1</sub>	h <sub>1</sub>	h <sub>2</sub>	b	c	m <sub>1</sub>	m <sub>2</sub>	n <sub>1</sub>	n <sub>2</sub>	s	x		
				132 M	7,5		281			239	255		250	355	80	25	160	120	420	335	M16	300		
				160 M	11		311															350		
				160 L	15																	400		
				180 M	18,5																	250	105	
				180 L	22																	300		
				200 L	30																	48/350		
	80-315	100-200	100-250	100 L	2,2   3		261			163	188		180	250	65			125	95	345	280	M12	250	123
				112 M	4		281															300		
				132 S	5,5		311															350		
				132 M	7,5		261															250		
				160 M	11		281			182	208		200	280									300	
				160 L	15		311															350		
150-200	100-315	100-200	100-250	112 M	4		281															400	105	
				132 S	5,5		311			210	231		250	315								300		
				132 M	7,5																350			
				160 M	11																400			
				160 L	15																55/400			
				180 M	18,5																300			
	125-250	125-200	125-200	180 L	22																350	133		
				200 L	30																400			
				132 M	7,5		281														55/400			
				160 M	11																300			
150-200	100-315	100-200	100-250	160 L	15		311			220	250											350	112	
				180 M	18,5																400			
				180 L	22																55/400			
				200 L	30		281														300			
				132 M	7,5																350			
	125-250	125-200	125-200	160 M	11		311			196	236		250									400	143	
				160 L	15																300			
				180 M	18,5																350			
				180 L	22																400			
				200 L	30		281			212	255										55/400			
The motor dimensions as indicated are approximate dimensions. Exact data depend on the motor make.				When using special motors, make sure that other performances are allocated to the individual sizes, depending upon the enclosure. The main dimensions change accordingly. In case of order, binding tables of motor dimensions must be supplied to us.																				

Flanges processed according to DIN EN 1092-2 PN 10/16. (Flange outer diameter D and thickness b<sub>f</sub> can exceed the standard dimensions.)

$n = 2900/3500 \text{ min}^{-1}$

**Aggregate dimensions:** Sizes with shaft diameter 16, 24 and 30 at the shaft seal



Shaft diameter at the shaft seal	Connections			
	Draining	Filling	Venting	Pressure measurement
mm	FD1	FF1	FV1	PM2
16		G 1/8		
24	G 1/4	G 1/4		
30		G 3/8		

Flanges acc. to DIN EN 1092-2 PN 16 (10)

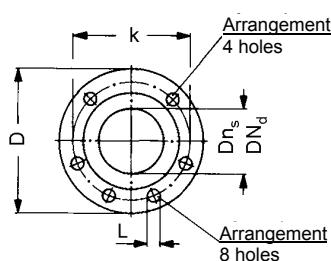
DN <sub>d</sub> DN <sub>s</sub>	D	bf	k	L	No. of holes
25	115	16	85	14	4
32	140	18	100		
40	150		110		
50	165	20	125		
65	185		145		

Connections at sizes 25-160, 25-200 and 2/25-200:  
FD1= G 1/2; FF1 at sizes 20-160, 25-200 and 2/25-200  
not existent.

Tolerances of connection dimensions  
acc. to DIN EN 735

Sense of rotation:  
clockwise as seen from the driving side

Dimensions in mm without commitment

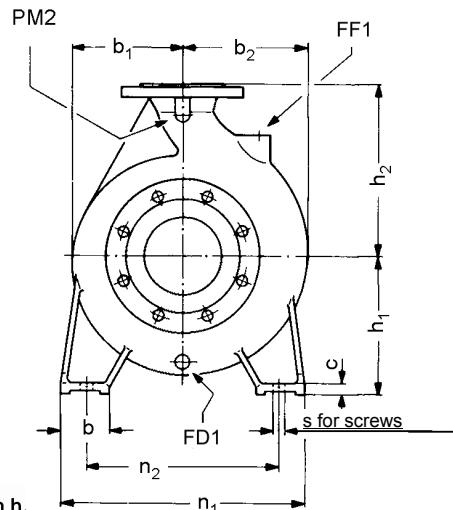
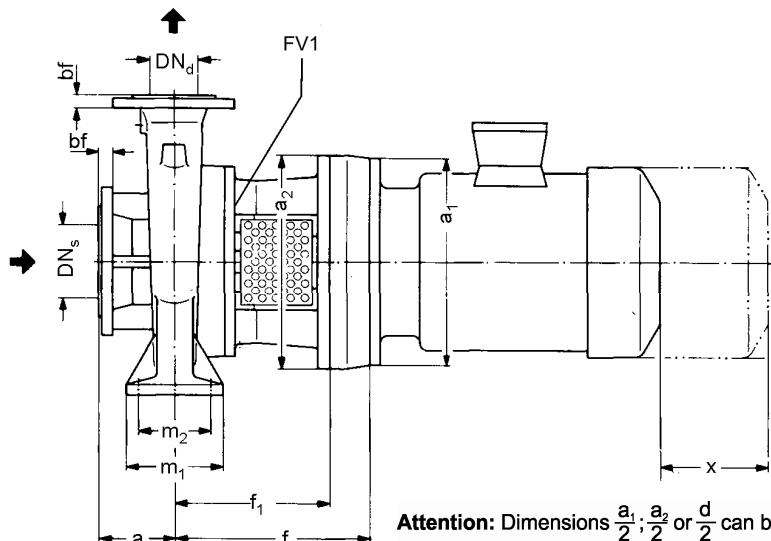


Shaft diameter at shaft seal	Pump-size	Motor-size	Performance	Aggregate dimension																Allocation stub shaft/motor bracket/intermediate ring Contained in abbreviation, v. page 2	Extension dim		
				Pump dimensions																			
				Flanese		Pump						Feet											
kW	DN <sub>s</sub>	DN <sub>d</sub>	a	f	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	f <sub>1</sub>	h <sub>01</sub>	h <sub>2</sub>	b	c	m <sub>1</sub>	m <sub>2</sub>	n <sub>1</sub>	n <sub>2</sub>	s	a <sub>1</sub>	x				
16	20-160		80	0,75	1,1	25	63	138	108	108	145	14	220	180	M10	200	62	19/200	24/200	28/250			
			90 S		1,5																		
			90 L		2,2																		
			100 L		3																		
			112 M		4																		
24	32-125		80	0,75	1,1	50	32	148	96	112	140	50	100	70	190	140	200	89	19/200	24/200	28/250		
			90 S		1,5																		
			90 L		2,2																		
			100 L		3																		
			112 M		4																		
			132 S	5,5	7,5																		
	40-125		80	0,75	1,1	40	80	148	96	112	140	50	100	70	210	160	M12	200	24/200	28/250			
			90 S		1,5																		
			90 L		2,2																		
			100 L		3																		
24	50-125		112 M		4	65	50	100	110	132	160	15	210	160	240	190	M12	200	24/200	28/250			
			132 S	5,5	7,5																		
			90 S		1,5																		
			90 L		2,2																		
			100 L		3																		
			112 M		4																		
			132 S	5,5	7,5																		
			160 M	11	15																		



$n = 2900/3500 \text{ min}^{-1}$ 

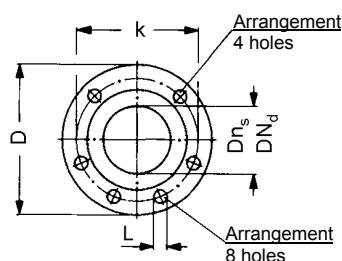
Aggregate dimensions Sizes with shaft diameters 30 and 40 at the shaft seal



Shaft diameter at the shaft seal	Connections			
	Draining	Filling	Venting	Pressure measurement
mm	FD1	FF1	FV1	PM2
30	G 1/4	G 1/4	G 1/4	G 1/4
40	G 3/8	G 3/8	G 3/8	G 3/8

Flanges acc. to DIN EN 1092-2 PN 16 (10)

DNd DNs	D	bf	k	g	No. of holes
50	165	20	125	19	4
65	185		145		
80	200		22		
100	220		24		8
125	250	26	210		



Tolerances of connections dimensions acc. to DIN EN 735

Sense of rotation: clockwise as seen from the driving side

Dimensions in mm without commitment

Shaft diameter at shaft seal	Pump-size	Motor-size	Performance	Aggregate dimensions																Allocation stub shaft/motor bracket/intermediate ring Contained in abbreviation, v. page 2		
				Pump dimensions																		
				Flanges				Feet														
mm			kW	DN <sub>s</sub>	DN <sub>d</sub>	a	f	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	f <sub>1</sub>	h <sub>1</sub>	h <sub>2</sub>	b	c	m <sub>1</sub>	m <sub>2</sub>	n <sub>1</sub>	n <sub>2</sub>	s		
30	50-200	50-200	112 M	4	65	149	204	219	133	145	160	200	50	100	70	265	212	M12	250	102		
			132 S	5,5 7,5															28/250			
			160 M	11 15															38/300			
			160 L	18,5															42/350			
			180 M	22															48/350			
			200 L	30 37															55/400			
	50-250	50-250	132 S	5,5 7,5															38/300			
			160 M	11 15															42/350			
			160 L	18,5															48/350			
			180 M	22															55/400			
			200 L	30 37															38/300			
40	2/50-250	2/50-250	160 M	11 15	100	274	-	-	156	169	-	180	225	15	-	320	250	M12	300	85		
			160 L	18,5															42/350			
			180 M	22															48/350			
			200 L	30 37															55/400			
			160 M	11 15															38/300			
	65-160	65-160	112 M	4	80	149	204	219	133	162	-	160	200	65	125	95	280	212	M12	350	102	
			132 S	5,5 7,5																28/250		
			160 M	11 15																38/300		
			160 L	18,5																42/350		
			180 M	22																48/350		
40	65-200	65-200	132 S	5,5 7,5	65	204	219	148	170	-	180	225	-	-	-	-	-	-	M12	400	85	
			160 M	11 15																38/300		
			160 L	18,5																42/350		
	65-200	65-200	180 M	22																48/350		
			200 L	30 37																55/400		
			160 M	11 15																38/300		

$n = 2900/3500 \text{ min}^{-1}$ 

Shaft diameter at shaft seal	Pump-size	Motor-size	Performance	Aggregate dimensions																	Allocation stub shaft/motor bracket/intermediate ring Contained in abbreviation, v. page 2		
				Pump dimensions													Feet						
				Flanges																			
mm			kW	DN <sub>s</sub>	DN <sub>d</sub>	a	f	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	f <sub>1</sub>	h <sub>1</sub>	h <sub>2</sub>	b	c	m <sub>1</sub>	m <sub>2</sub>	n <sub>1</sub>	n <sub>2</sub>	s	a <sub>1</sub>	x	
30	80-160	112 M	4	100	80	149	204	136	170	-	180	225	65	15	125	95	320	250	M12	250	28/250		
		132 S	5,5   7,5																	300			
		160 M	11   15																	350		42/350	
		160 L	18,5																	400			
		180 M	22																	300			
	100-160	200 L	30   37	125	100	125	204	165	200	-	280	200	200	80	15	125	95	320	250	M12	350	48/350	
		132 S	5,5   7,5																		400		
		160 M	11   15																		300		
		160 L	18,5																		350		
		180 M	22																		400		
40	65-250	160 L	18,5	80	65	100	164	184	-	80	160	120	360	M16	350	400	55/400	42/350	48/350	55/400	123		
		180 M	22																			350	
		200 L	30   37																			400	
	80-200	160 M	11   15	100	80	125	163	188	261	180	250	65	18	125	95	345	280	M12	350	400	55/400	42/350	
		160 L	18,5																			350	
		180 M	22																			400	
	100-200	200 L	30   37	125	100	125	165	203	-	200	280	80	160	120	360	M16	350	400	55/400	42/350	48/350	55/400	133
		160 M	11   15																			350	
		160 L	18,5																			400	
		180 M	22																			350	

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

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Flanges processed according to DIN EN 1092-2 PN 10/16. (Flange outer diameter D and thickness b<sub>f</sub> can exceed the standard dimensions.)

Subject to technical alterations.



**ALLWEILER GmbH**  
Postfach 1140 • 78301 Radolfzell  
Allweilerstr. 1 • 78315 Radolfzell  
Germany  
Tel. +49 (0)7732 86-0  
Fax. + 49 (0)7732 86-436  
E-Mail: [service@allweiler.de](mailto:service@allweiler.de)  
Internet: <http://www.allweiler.com>

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