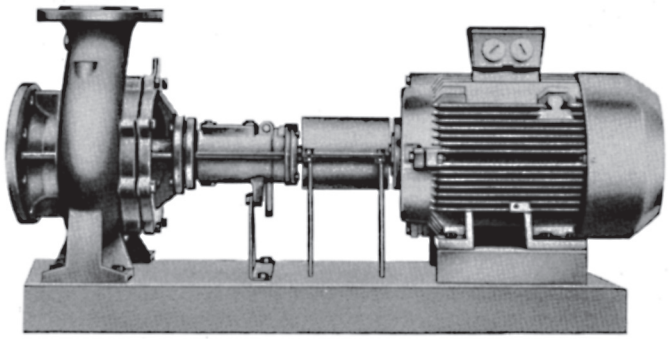
Volute-Casing Centrifugal Pumps PN 25 for Heat Transfer Oils up to 350°C

Series CTT

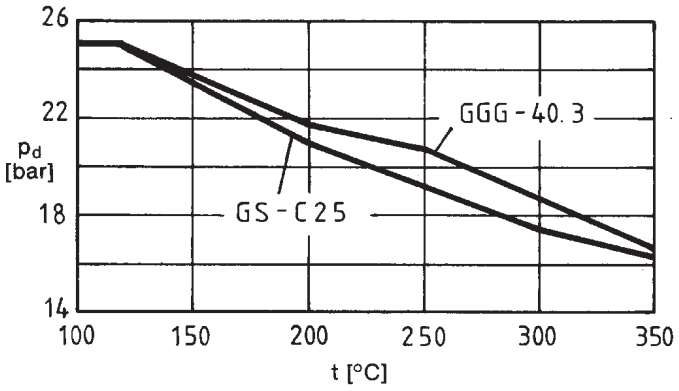


Application
For handling organic heat-transfer oils in heat-transfer plants (DIN 4754). The fluids pumped must not contain any abrasive particles nor chemically attack the pump materials.

Type of construction
Horizontal, single-entry, single or two-stage volute-casing centrifugal pump with closed radial wheel. Shaft bearing in an unsplit bearing bracket. Grooved ball bearings on the pump side lubricated by the fluid to be pumped, on the driving side grease-lubricated. Feet cast to the volute casing:
up to sizes 100–200, at the bottom
sizes 200–315 and above, symmetrically

Performance data
Q up to 1200 m^3/h, p_s up to 10 bar
H up to 100 m, p_d 25 bar ①
t up to 350°C

① p_d depends on the temperature of the fluid pumped, for these purposes, please refer to the following diagram



Inlet pressure (p_s) plus maximum delivery head must not exceed the curve values for the final pump pressure (p_d).

Shaft sealing
By uncooled balanced mechanical seal. A safety stuffing box with subsequent throttling is arranged upstream of the mechanical seal.

Materials of the shaft sealing

Abbreviation	Material design		Material key DIN 24960
U5.1A	Rotating seal ring	Hard carbon, synthetic resin impregnated	B
	Stationary seal ring	Silicon carbide	U
	O-ring	Fluor caoutchouc (Viton)	V
	Spring	CrNiMo steel	G
	Other structural components	CrNiMo steel	G
	Safety stuffing box	Highly heat-resistant special packing, outside graphite-coated, Diaplex braiding	–

Materials

Part No.	Denomination	Material types W91	Material types W92
102.1	Volute casing	GGG-40.3	GS-C25
230.1	Impeller	GG-20	GG-20
161.1	Casing cover	GGG-40.3	GS-C25
210.1	Shaft	1.7139	1.7139
330.1	Bearing bracket	GGG-40.3	GS-C25
360.2	Bearing cover	GG-25	GG-25
922.2	Impeller nut	5	5
930.1	Spring washer	Spring steel	Spring steel
940.1	Key	St 50-1 K	St 50-1 K
940.2	Key	St 50-1 K	St 50-1 K

Flanges
Suction/delivery side PN25, DIN 2534 with W91 (GGG-40.3)
DIN 2544 with W92 (GS-C25)

Drive
Surface-cooled three-phase squirrel-cage induction motors, IMB3 type of construction; enclosure IP44/IP54 according to IEC Standard, class B insulation.

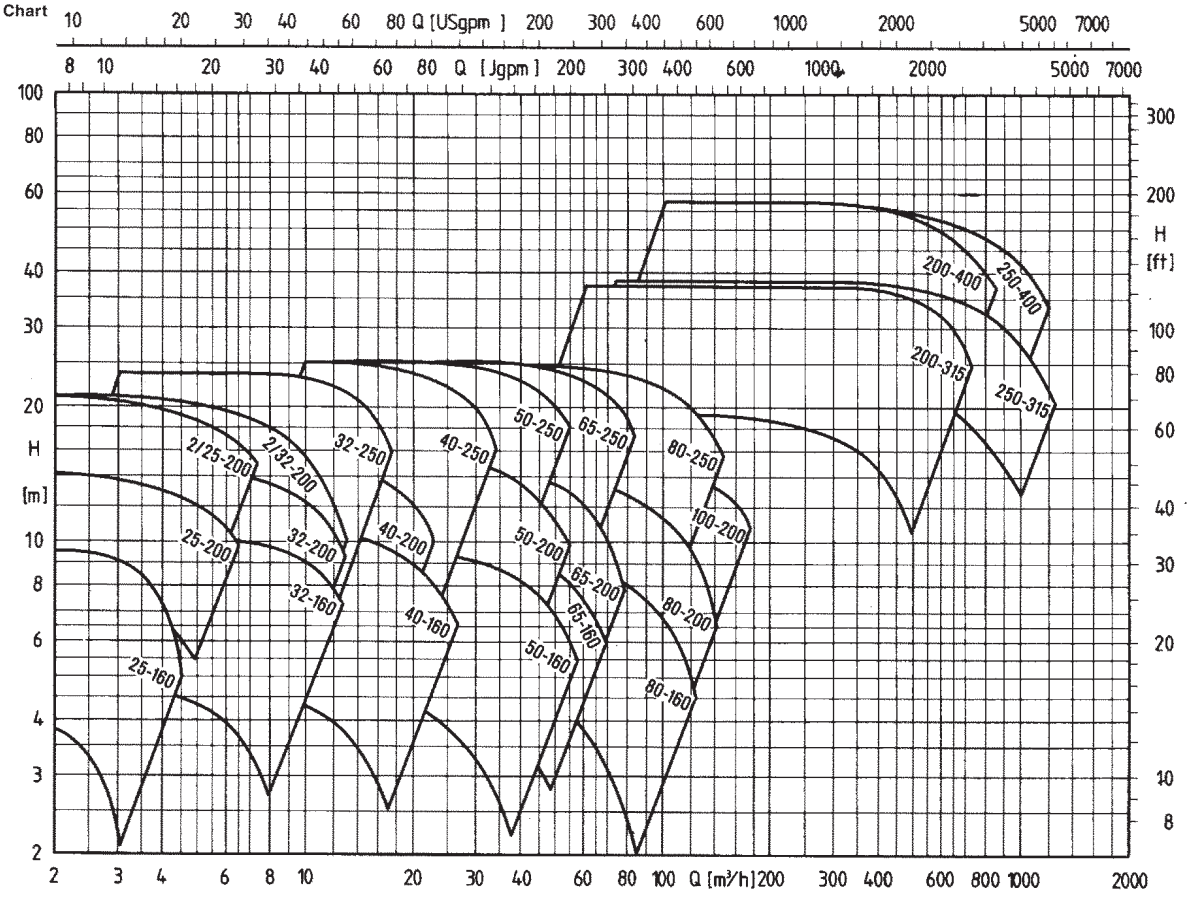
Abbreviation

CTT 32 – 200 / 180 U5.1A – W91

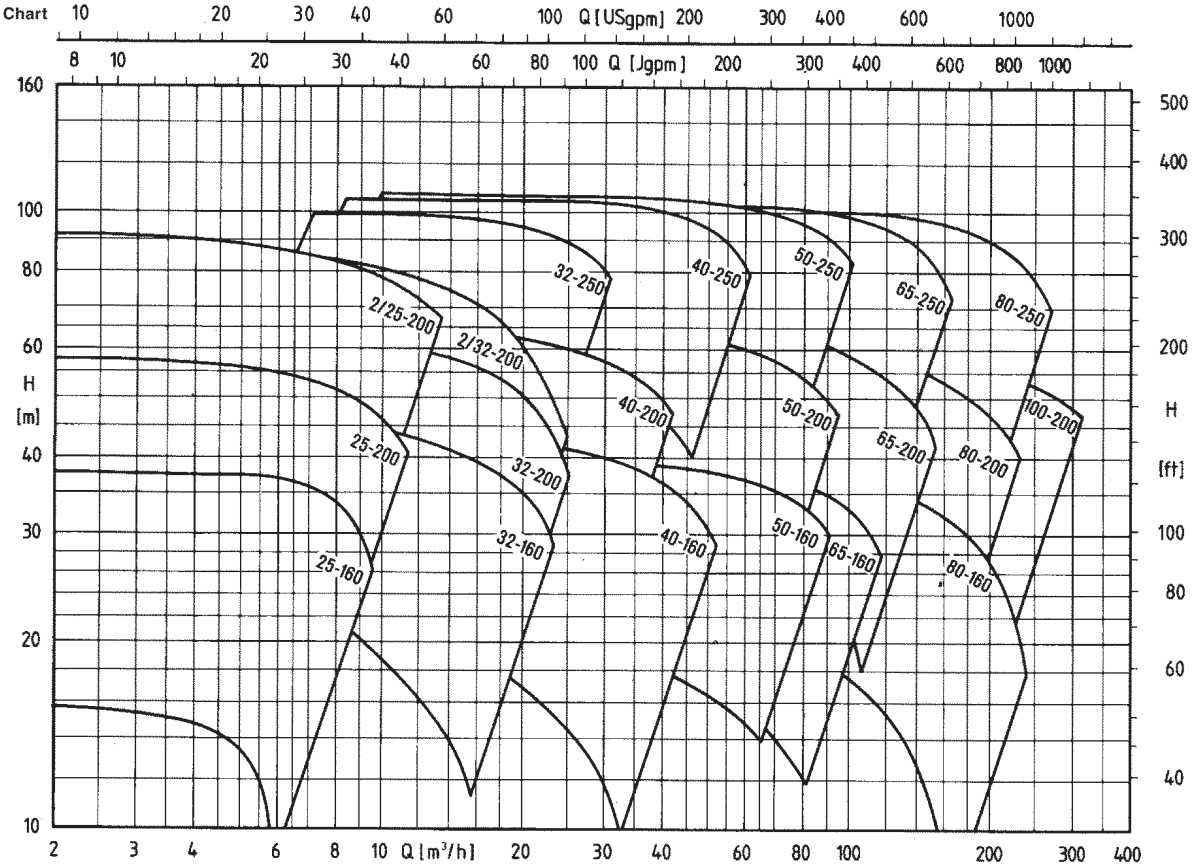
- CTT — Series
- 32 — Size ①: Nominal width delivery branch
- 200 — Size ①: Nominal impeller diameter
- 180 — Size ①: Actual impeller diameter
- U5.1A — Shaft sealing
- W91 — Material type

① With two-stage sizes, the stage number, together with an oblique stroke, is placed before the nominal width of the delivery branch, e.g. 2/32–200/...

Performance Chart
1450 1/min

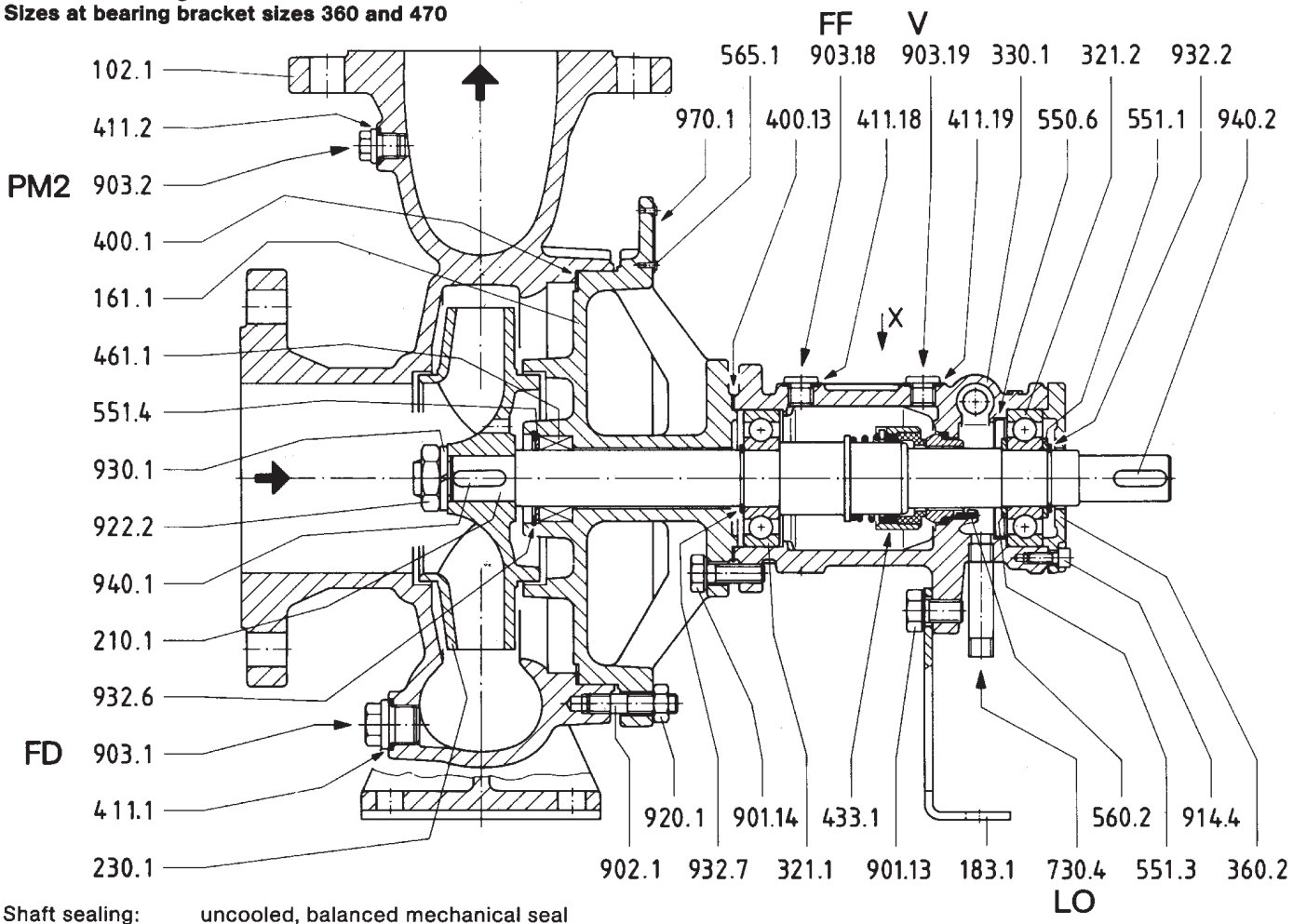


Performance Chart
2900 1/min



For exact performance data, please refer to the individual characteristics (CNH up to size 100–200, NTT for sizes 200–315 and above).

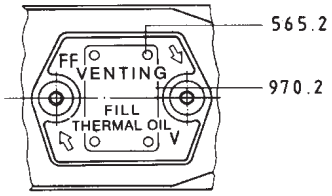
Sectional drawing
Sizes at bearing bracket sizes 360 and 470



Shaft sealing: uncooled, balanced mechanical seal with safety stuffing box arrangement upstream

Abbreviation: **U5.1A**

View X

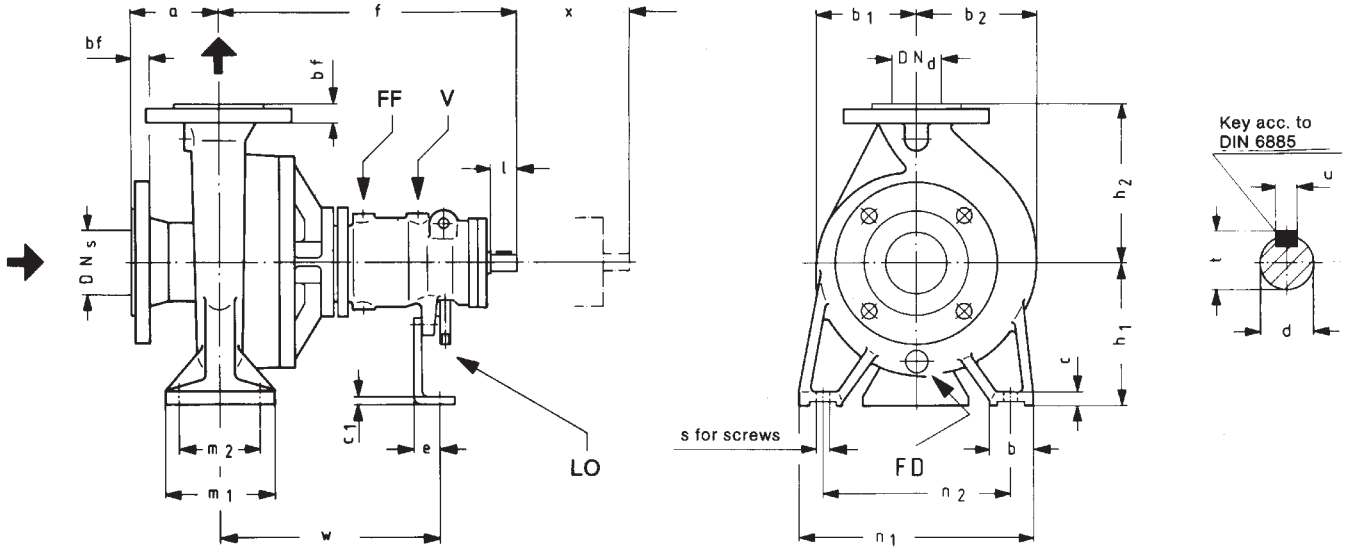


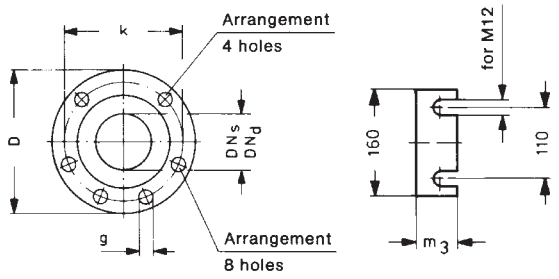
Denomination	DIN No.	Part No.
Volute casing		102.1
Casing cover		161.1
Support foot		183.1
Shaft		210.1
Impeller		230.1
Grooved ball bearing	625	321.1
Grooved ball bearing	625	321.2
Bearing bracket		330.1
Bearing cover		360.2
Flat gasket		400.1
Flat gasket		400.13
Joint ring	7603	411.1
Joint ring	7603	411.2
Joint ring	7603	411.18
Joint ring	7603	411.19
Mechanical seal		433.1
Stuffing box		461.1
Washer		550.6
Distance washer	988	551.1
Distance washer	988	551.3
Distance washer		551.4
Clamping pin	1481	560.2

Denomination	DIN No.	Part No.
Blind rivet		565.1
Blind rivet		565.2
Pipe connection	2982	730.4
Socket-head cap screw	933	901.13
Socket-head cap screw	933	901.14
Stud bolt	939	902.1
Screwed plug	910	903.1
Screwed plug	910	903.2
Screwed plug	908	903.18
Screwed plug	908	903.19
Socket-head cap screw	912	914.4
Hexagonal nut	934	920.1
Impeller nut	936	922.2
Spring washer	127	930.1
Circlip	471	932.2
Circlip	472	932.6
Circlip	471	932.7
Key	6885	940.1
Key	6885	940.2
Name plate		970.1
Information plate		970.2

Connections	
FD	Draining
FF	Filling
L0	Leakage outlet
PM2	Pressure measurement
V	Venting

Pump dimensions
Sizes at bearing bracket sizes 360 and 470





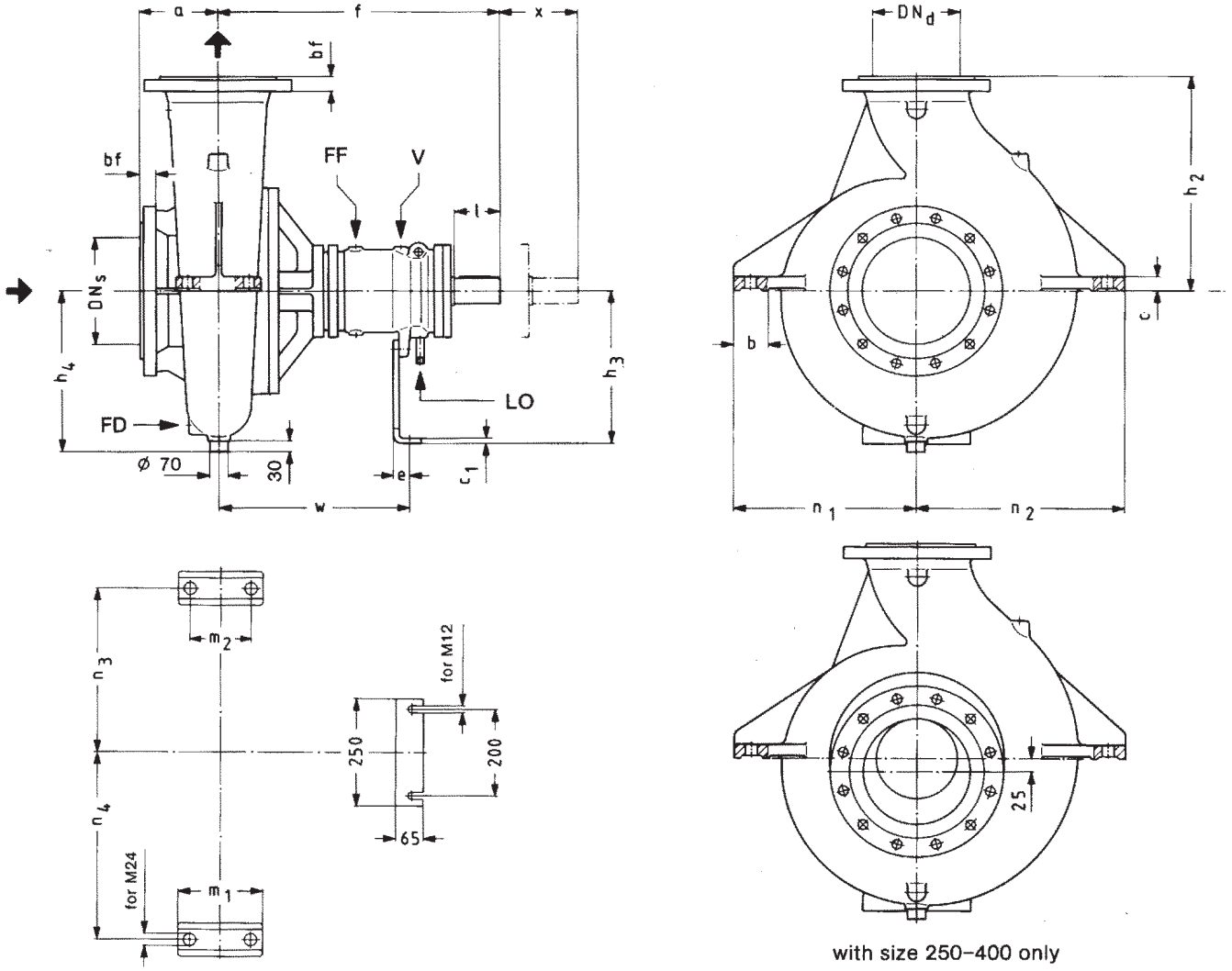
Flanges acc. to DIN 2534 PN 25 with material type W 91					
DN_s DN_d	D	bf	k	g	No. of holes
25	115	18	85	14	4
32	140	20	100	18	4
40	150	20	110	18	4
50	165	22	125	18	4
65	185	24	145	18	8
80	200	26	160	18	8
100	235	28	190	22	8
125	270	30	220	26	8

Flanges acc. to DIN 2544 PN 25 with material type W 92					
DN_s DN_d	D	bf	k	g	No. of holes
25	115	18	85	14	4
32	140	18	100	18	4
40	150	18	110	18	4
50	165	20	125	18	4
65	185	22	145	18	8
80	200	24	160	18	8
100	235	24	190	22	8
125	270	26	220	26	8

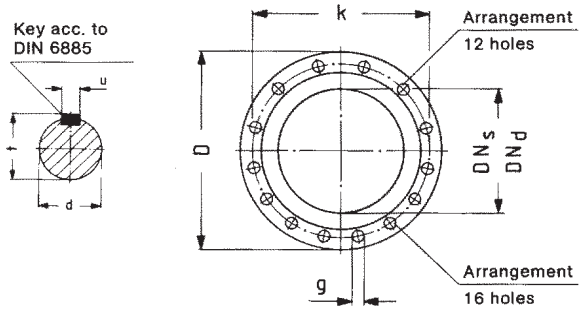
Tolerances of the companion dimensions acc. to VDMA 24 275.
Sense of rotation: clockwise, as seen from the driving side.
Dimensions in mm without commitment.

Bearing bracket size	Pump size	Pump dimensions																								Connections			
		Flanges								Feet												Extension dimension	Shaft end acc. to DIN 748				Filling	Venting	Draining	Leakage outlet
		DN_s	DN_d	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	w	s	x	d	l	t	u	FF	V	FD	LO
360	25-160	40	25	80	360	128	128	132	160	50	15	4	28	100	70	45	240	190	260	M 12	100	24	50	27	8	G 1/4	G 1/4	G 1/2	G 1/4
	25-200	40	25	80	360	132	132	160	180	50	15	4	28	100	70	45	240	190	260	M 12	100	24	50	27	8	G 1/4	G 1/4	G 1/2	G 1/4
	2/25-200	40	25	80	360	132	132	160	180	50	15	4	28	100	70	45	240	190	260	M 12	100	24	50	27	8	G 1/4	G 1/4	G 1/2	G 1/4
	32-160	50	32	80	360	130	130	132	160	50	15	4	28	100	70	45	240	190	260	M 12	100	24	50	27	8	G 1/4	G 1/4	G 1/2	G 1/4
	32-200	50	32	80	360	130	135	160	180	50	15	4	28	100	70	45	240	190	260	M 12	100	24	50	27	8	G 1/4	G 1/4	G 1/2	G 1/4
	2/32-200	50	32	80	360	130	135	160	180	50	15	4	28	100	70	45	240	190	260	M 12	100	24	50	27	8	G 1/4	G 1/4	G 1/2	G 1/4
	40-160	65	40	80	360	130	130	132	160	50	15	4	28	100	70	45	240	190	260	M 12	100	24	50	27	8	G 1/4	G 1/4	G 1/2	G 1/4
	40-200	65	40	100	360	130	140	160	180	50	15	4	28	100	70	45	265	212	260	M 12	100	24	50	27	8	G 1/4	G 1/4	G 1/2	G 1/4
	50-160	80	50	100	360	130	130	160	180	50	15	4	28	100	70	45	265	212	260	M 12	100	24	50	27	8	G 1/4	G 1/4	G 1/2	G 1/4
	50-200	80	50	100	360	135	150	160	200	50	15	4	28	100	70	45	265	212	260	M 12	100	24	50	27	8	G 1/4	G 1/4	G 1/2	G 1/4
	65-160	100	65	100	360	130	155	160	200	65	15	4	28	125	95	45	280	212	260	M 12	100	24	50	27	8	G 1/4	G 1/4	G 1/2	G 1/4
	80-160	125	80	125	360	145	180	180	225	65	15	4	28	125	95	45	320	250	260	M 12	140	24	50	27	8	G 1/4	G 1/4	G 1/2	G 1/4
470	32-250	50	32	100	470	170	170	180	225	65	15	4	28	125	95	45	320	250	340	M 12	100	32	80	35	10	G 1/4	G 1/4	G 1/2	G 1/4
	40-250	65	40	100	470	170	170	180	225	65	15	4	28	125	95	45	320	250	340	M 12	100	32	80	35	10	G 1/4	G 1/4	G 1/2	G 1/4
	50-250	80	50	125	470	170	170	180	225	65	15	4	28	125	95	45	320	250	340	M 12	100	32	80	35	10	G 1/4	G 1/4	G 1/2	G 1/4
	65-200	100	65	100	470	170	170	180	225	65	15	4	28	125	95	45	320	250	340	M 12	140	32	80	35	10	G 1/4	G 1/4	G 1/2	G 1/4
	65-250	100	65	125	470	170	190	200	250	80	18	4	28	160	120	45	360	280	340	M 16	140	32	80	35	10	G 1/4	G 1/4	G 1/2	G 1/4
	80-200	125	80	125	470	170	190	180	250	65	18	4	28	125	95	45	345	280	340	M 12	140	32	80	35	10	G 1/4	G 1/4	G 1/2	G 1/4
	80-250	125	80	125	470	185	210	225	280	80	18	6	30	160	120	47	400	315	340	M 16	140	32	80	35	10	G 1/4	G 1/4	G 1/2	G 1/4
	100-200	125	100	125	470	170	205	200	280	80	18	4	28	160	120	45	360	280	340	M 16	140	32	80	35	10	G 1/4	G 1/4	G 1/2	G 1/4

Pump dimensions
Sizes at bearing bracket size 650



with size 250–400 only



Flanges acc. to DIN 2534 PN 25 with material type W 91					
DN_s DN_d	D	bf	k	g	No. of holes
200	360	34	310	26	12
250	425	36	370	30	12
300	485	40	430	30	16

Flanges acc. to DIN 2544 PN 25 with material type W 92					
DN_s DN_d	D	bf	k	g	No. of holes
200	360	30	310	26	12
250	425	32	370	30	12
300	485	34	430	30	16

Tolerances of the companion dimensions acc. to VDMA 24 275.
Sense of rotation: clockwise, as seen from the driving side.
Dimensions in mm without commitment.

Bearing bracket size	Pump size	Pump dimensions																						Connections			
		Flanges						Feet												Extension dimension	Shaft end acc. to DIN 748				Filling	Venting	Draining	Leakage outlet
		DN_s	DN_d	a	f	h_2	h_4	b	c	c_1	e	h_3	m_1	m_2	n_1	n_2	n_3	n_4	w	x	d	l	t	u	FF	V	FD	LO
650	200-315	250	200	200	650	450	340	70	32	10	42	335	180	120	355	415	320	380	455	180	60	105	64	18	G 1/4	G 1/4	G 3/8	G 1/4
	200-400	250	200	180	650	500	380	70	32	10	42	335	180	120	395	455	360	420	455	180	60	105	64	18	G 1/4	G 1/4	G 3/8	G 1/4
	250-315	300	250	250	650	560	405	80	32	10	42	400	210	150	415	495	375	455	455	180	60	105	64	18	G 1/4	G 1/4	G 3/8	G 1/4
	250-400	300	250	225	650	600	430	80	32	10	42	400	210	150	440	530	400	490	455	180	60	105	64	18	G 1/4	G 1/4	G 3/8	G 1/4

Installation plan n = 1450 / 2900 / 1750 / 3500 1/min

Pump size	Motor				Coupling		Pump					Base plate									
	Performance in kW at speed		Size	Approx. dimensions varying, depending upon manufacturer	Poly standard size at speed		Flanges					Size									
	1450 1750	2900 3500			1450 1750	2900 3500															
	1/min		Numb. = h_7	l	1/min		DN_s	DN_d	a	f	h_2	Steel	b_1	b_2	d_1	h_5	l_1	l_2	x_v	h	h_6
25-160	0,25/0,37	0,37/0,55	71	265	A 24	A 24	40	25	80	360	160	U 5.1	170	240	14,5	85	710	660	75	217	132
	0,55/0,75 1,1 1,5 2,2/3	0,75/1,1 1,5 2,2 3	80 90 S 90 L 100 L	290 310 335 385	A 24 A 24 A 24 A 28	A 24 A 24 A 24 A 28						U 6.1	170	240	14,5	85	800	750	75	217	132
25-200	0,25/0,37	0,37/0,55	71	265	A 24	A 24	40	25	80	360	180	U 5.1	170	240	14,5	85	710	660	75	245	160
	0,55/0,75 1,1 1,5 2,2/3	0,75/1,1 1,5 2,2 3	80 90 S 90 L 100 L	290 310 335 385	A 24 A 24 A 24 A 28	A 24 A 24 A 24 A 28						U 6.1	170	240	14,5	85	800	750	75	245	160
	4	4	112 M	415	A 28	A 28						U 7.1	170	240	14,5	85	900	850	75	245	160
	5,5	5,5/7,5	132 S	475	A 38	A 38						U 7.2	210	280	14,5	95	900	850	75	255	160
2/25-200	0,55/0,75 1,1 1,5	0,75/1,1 1,5 2,2	80 90 S 90 L	290 310 335	A 24 A 24 A 24	A 24 A 24 A 24	40	25	80	360	180	U 6.1	170	240	14,5	85	800	750	75	245	160
	4	4	112 M	415	A 28	A 28						U 7.1	170	240	14,5	85	900	850	75	245	160
	5,5	5,5/7,5	132 S	475	A 38	A 38						U 7.2	210	280	14,5	95	900	850	75	255	160
	11	11	160 M	625	A 42	A 42						U 9.3	280	350	18,5	100	1120	1070	75	260	160
32-160	0,25/0,37	0,37/0,55	71	265	A 24	A 24	50	32	80	360	160	U 5.1	170	240	14,5	85	710	660	75	217	132
	0,55/0,75 1,1 1,5 2,2/3	0,75/1,1 1,5 2,2 3	80 90 S 90 L 100 L	290 310 335 385	A 24 A 24 A 24 A 28	A 24 A 24 A 24 A 28						U 6.1	170	240	14,5	85	800	750	75	217	132
	4	4	112 M	415	A 28	A 28						U 7.1	170	240	14,5	85	900	850	75	217	132
	5,5	5,5/7,5	132 S	475	A 38	A 38						U 7.2	210	280	14,5	95	900	850	75	227	132
32-200	0,55/0,75 1,1 1,5 2,2/3	0,75/1,1 1,5 2,2 3	80 90 S 90 L 100 L	290 310 335 385	A 24 A 24 A 24 A 28	A 24 A 24 A 24 A 28	50	32	80	360	180	U 6.1	170	240	14,5	85	800	750	75	245	160
	4	4	112 M	415	A 28	A 28						U 7.1	170	240	14,5	85	900	850	75	245	160
	5,5	5,5/7,5	132 S	475	A 38	A 38						U 7.2	210	280	14,5	95	900	850	75	255	160
	11	11/15	160 M	625	A 42	A 42						U 9.3	280	350	18,5	100	1120	1070	75	260	160
2/32-200	0,55/0,75 1,1 1,5	0,75/1,1 1,5 2,2	80 90 S 90 L	290 310 335	A 24 A 24 A 24	A 24 A 24 A 24	50	32	80	360	180	U 6.1	170	240	14,5	85	800	750	75	245	160
	4	4	112 M	415	A 28	A 28						U 7.1	170	240	14,5	85	900	850	75	245	160
	5,5	5,5/7,5	132 S	475	A 38	A 38						U 7.2	210	280	14,5	95	900	850	75	255	160
	11	11/15	160 M	625	A 42	A 42						U 9.3	280	350	18,5	100	1120	1070	75	260	160
32-250	1,1 1,5	1,5 2,2	90 S 90 L	310 335	A 32 A 32	A 32 A 32	50	32	100	470	225	U 7.3	280	350	14,5	100	900	850	87	280	180
	2,2/3 4	3 4	100 L 112 M	385 415	A 32 A 32	A 32 A 32						U 8.3	280	350	18,5	100	1000	950	87	280	180
	5,5	5,5/7,5	132 S	475	A 38	A 38						U 9.3	280	350	18,5	100	1120	1070	87	280	180
	11 15	11/15 18,5	160 M 160 L	625 670	A 42 A 42	A 42 A 42						U 10.3	280	350	18,5	100	1250	1200	87	280	180
40-160	0,55/0,75 1,1 1,5 2,2/3	0,75/1,1 1,5 2,2 3	80 90 S 90 L 100 L	290 310 335 385	A 24 A 24 A 24 A 28	A 24 A 24 A 24 A 28	65	40	80	360	160	U 6.1	170	240	14,5	85	800	750	75	217	132
	4	4	112 M	415	A 28	A 28						U 7.1	170	240	14,5	85	900	850	75	217	132
	5,5	5,5/7,5	132 S	475	A 38	A 38						U 7.2	210	280	14,5	95	900	850	75	227	132

Installation plan n = 1450 / 2900 / 1750 / 3500 1/min

Pump size	Motor				Coupling		Pump					Base plate									
	Performance in kW at speed		Size	Approx. dimensions varying, depending upon manufacturer	Poly standard size at speed		Flanges					Size									
	1450 1750	2900 3500			1450 1750	2900 3500															
	1/min		Numb. = h_7	l	1/min		DN_s	DN_d	a	f	h_2	Steel	b_1	b_2	d_1	h_5	l_1	l_2	x_v	h	h_6
40-200	0,55/0,75	0,75/1,1	80	290	A 24	A 24	65	40	100	360	180	U 6.2	210	280	14,5	95	800	750	75	255	160
	1,1	1,5	90 S	310	A 24	A 24															
	1,5	2,2	90 L	335	A 24	A 24															
	2,2/3	3	100 L	385	A 28	A 28															
	4	4	112 M	415	A 28	A 28						U 7.2	210	280	14,5	95	900	850	75	255	160
	5,5	5,5/7,5	132 S	475	A 38	A 38															
	11	11/15	160 M	625	A 42	A 42						U 9.3	280	350	18,5	100	1120	1070	75	260	160
40-250	1,5	2,2	90 L	335	A 32	A 32	65	40	100	470	225	U 7.3	280	350	14,5	100	900	850	87	280	180
	2,2/3	3	100 L	385	A 32	A 32						U 8.3	280	350	18,5	100	1000	950	87	280	180
	4	4	112 M	415	A 32	A 32															
	5,5	5,5/7,5	132 S	475	A 38	A 38						U 9.3	280	350	18,5	100	1120	1070	87	280	180
	7,5	-	132 M	515	A 38	-															
	11	11/15	160 M	625	A 42	A 42						U 10.3	280	350	18,5	100	1250	1200	87	280	180
	15	18,5	160 L	670	A 42	A 42															
	18,5	22	180 M	700	A 48	A 48						U 10.4	330	400	18,5	110	1250	1200	87	290	180
	30	30/37	200 L	790	A 55	A 55						U 10.5	410	500	18,5	104	1250	1200	87	304	200
50-160	0,55/0,75	0,75/1,1	80	290	A 24	A 24	80	50	100	360	180	U 6.2	210	280	14,5	95	800	750	75	255	160
	1,1	1,5	90 S	310	A 24	A 24															
	1,5	2,2	90 L	335	A 24	A 24															
	2,2/3	3	100 L	385	A 28	A 28															
	4	4	112 M	415	A 28	A 28						U 7.2	210	280	14,5	95	900	850	75	255	160
	5,5	5,5/7,5	132 S	475	A 38	A 38															
	11	11/15	160 M	625	A 42	A 42						U 9.3	280	350	18,5	100	1120	1070	75	260	160
50-200	1,1	1,5	90 S	310	A 24	A 24	80	50	100	360	200	U 6.2	210	280	14,5	95	800	750	75	255	160
	1,5	2,2	90 L	335	A 24	A 24															
	2,2/3	3	100 L	385	A 28	A 28															
	4	4	112 M	415	A 28	A 28						U 7.2	210	280	14,5	95	900	850	75	255	160
	5,5	5,5/7,5	132 S	475	A 38	A 38															
	11	11/15	160 M	625	A 42	A 42						U 9.3	280	350	18,5	100	1120	1070	75	260	160
	15	18,5	160 L	670	A 42	A 42															
	18,5	22	180 M	700	A 48	A 48						U 9.4	330	400	18,5	110	1120	1070	75	290	180
50-250	2,2/3	3	100 L	385	A 32	A 32	80	50	125	470	225	U 8.3	280	350	18,5	100	1000	950	87	280	180
	4	4	112 M	415	A 32	A 32															
	5,5	5,5/7,5	132 S	475	A 38	A 38						U 9.3	280	350	18,5	100	1120	1070	87	280	180
	7,5	-	132 M	515	A 38	-															
	11	11/15	160 M	625	A 42	A 42						U 10.3	280	350	18,5	100	1250	1200	87	280	180
	15	18,5	160 L	670	A 42	A 42															
	18,5	22	180 M	700	A 48	A 48						U 10.4	330	400	18,5	110	1250	1200	87	290	180
	30	30/37	200 L	790	A 55	A 55						U 10.5	410	500	18,5	104	1250	1200	87	304	200
	45	45	225 M	875	A 60	A 55						U 11.5	410	500	18,5	104	1320	1270	87	329	225
65-160	0,55/0,75	0,75/1,1	80	290	A 24	A 24	100	65	100	360	200	U 6.2	210	280	14,5	95	800	750	87	255	160
	1,1	1,5	90 S	310	A 24	A 24															
	1,5	2,2	90 L	335	A 24	A 24															
	2,2/3	3	100 L	385	A 28	A 28						U 7.2	210	280	14,5	95	900	850	87	255	160
	4	4	112 M	415	A 28	A 28															
	5,5	5,5/7,5	132 S	475	A 38	A 38						U 8.2	210	280	18,5	95	1000	950	87	255	160
	11	11/15	160 M	625	A 42	A 42						U 9.3	280	350	18,5	100	1120	1070	87	260	160

Installation plan n = 1450 / 2900 / 1750 / 3500 1/min

Pump size	Motor				Coupling		Pump					Base plate									
	Performance in kW at speed		Size	Approx. dimensions varying, depending upon manufacturer	Poly standard size at speed		Flanges					Size									
	1450 1750	2900 3500			1450 1750	2900 3500															
	1/min		Numb. = h_7	l	1/min		DN_s	DN_d	a	f	h_2	Steel	b_1	b_2	d_1	h_5	l_1	l_2	x_v	h	h_6
65-200	1,5	2,2	90 L	335	A 32	A 32	100	65	100	470	225	U 7.3	280	350	14,5	100	900	850	87	280	180
	2,2/3 4	3 4	100 L 112 M	385 415	A 32 A 32	A 32 A 32						U 8.3	280	350	18,5	100	1000	950	87	280	180
	11 15	11/15 18,5	160 M 160 L	625 670	A 42 A 42	A 42 A 42						U 10.3	280	350	18,5	100	1250	1200	87	280	180
	18,5	22	180 M	700	A 48	A 48						U 10.4	330	400	18,5	110	1250	1200	87	290	180
	30	30/37	200 L	790	A 55	A 55						U 10.5	410	500	18,5	104	1250	1200	87	304	200
65-250	2,2/3 4	3 4	100 L 112 M	385 415	A 32 A 32	A 32 A 32	100	65	125	470	250	U 8.4	330	400	18,5	110	1000	950	105	310	200
	5,5 7,5	5,5/7,5 -	132 S 132 M	475 515	A 38 A 38	A 38 -						U 9.4	330	400	18,5	110	1120	1070	105	310	200
	11 15 18,5	11/15 18,5 22	160 M 160 L 180 M	625 670 700	A 42 A 42 A 48	A 42 A 42 A 48						U 10.4	330	400	18,5	110	1250	1200	105	310	200
	30	30/37	200 L	790	A 55	A 55						U 10.5	410	500	18,5	104	1250	1200	105	304	200
	45	45	225 M	875	A 60	A 55						U 11.5	410	500	18,5	104	1320	1270	105	329	225
	55	55	250 M	960	A 65	A 60						U 12.6	540	630	18,5	104	1400	1350	105	354	250
80-160	1,1 1,5	1,5 2,2	90 S 90 L	310 335	A 24 A 24	A 24 A 24	125	80	125	360	225	U 6.3	280	350	14,5	100	800	750	87	280	180
	2,2/3 4 5,5	3 4 5,5/7,5	100 L 112 M 132 S	385 415 475	A 28 A 28 A 38	A 28 A 28 A 38						U 7.3	280	350	14,5	100	900	850	87	280	180
	11 15	11/15 18,5	160 M 160 L	625 670	A 42 A 42	A 42 A 42						U 9.3	280	350	18,5	100	1120	1070	87	280	180
	18,5	22	180 M	700	A 48	A 48						U 9.4	330	400	18,5	110	1120	1070	87	290	180
80-200	2,2/3 4	3 4	100 L 112 M	385 415	A 32 A 32	A 32 A 32	125	80	125	470	250	U 8.3	280	350	18,5	100	1000	950	87	280	180
	5,5 7,5	5,5/7,5 -	132 S 132 M	475 515	A 38 A 38	A 38 -						U 9.3	280	350	18,5	100	1120	1070	87	280	180
	15	18,5	160 L	670	A 42	A 42						U 10.3	280	350	18,5	100	1250	1170	87	280	180
	18,5	22	180 M	700	A 48	A 48						U 10.4	330	400	18,5	110	1250	1170	87	290	180
	30	30/37	200 L	790	A 55	A 55						U 10.5	410	500	18,5	104	1250	1200	87	304	200
	45	45	225 M	875	A 60	A 55						U 11.5	410	500	18,5	104	1320	1270	87	329	225
80-250	4	4	112 M	415	A 32	A 32	125	80	125	470	280	U 8.4	330	400	18,5	110	1000	950	105	335	225
	5,5 7,5	5,5/7,5 -	132 S 132 M	475 515	A 38 A 38	A 38 -						U 9.4	330	400	18,5	110	1120	1070	105	335	225
	11 15	11/15 18,5	160 M 160 L	625 670	A 42 A 42	A 42 A 42						U 10.4	330	400	18,5	110	1250	1200	105	335	225
	30	30/37	200 L	790	A 55	A 55						U 10.5	410	500	18,5	104	1250	1200	105	329	225
	45	45	225 M	875	A 60	A 55						U 11.5	410	500	18,5	104	1320	1270	105	329	225
	55	55	250 M	960	A 65	A 60						U 12.6	540	630	18,5	104	1400	1350	105	354	250
	75 90	75 90	280 S 280 M	1020 1064	A 75 A 75	A 65 A 65						U 13.6	540	630	18,5	104	1600	1550	105	384	280
100-200	2,2/3 4	3 4	100 L 112 M	385 415	A 32 A 32	A 32 A 32	125	100	125	470	280	U 8.4	330	400	18,5	104	1000	950	105	315	205
	5,5 7,5	5,5/7,5 -	132 S 132 M	475 515	A 38 A 38	A 38 -						U 9.4	330	400	18,5	104	1120	1070	105	315	205
	11 15 18,5	11/15 18,5 22	160 M 160 L 180 M	625 670 700	A 42 A 42 A 48	A 42 A 42 A 48						U 10.4	330	400	18,5	104	1250	1200	105	315	205
	30	30/37	200 L	790	A 55	A 55						U 10.5	410	500	18,5	104	1250	1200	105	309	205
	45	45	225 M	875	A 60	A 55						U 11.5	410	500	18,5	104	1320	1270	105	329	225
	55	55	250 M	960	A 65	A 60						U 12.6	540	630	18,5	104	1400	1350	105	354	250

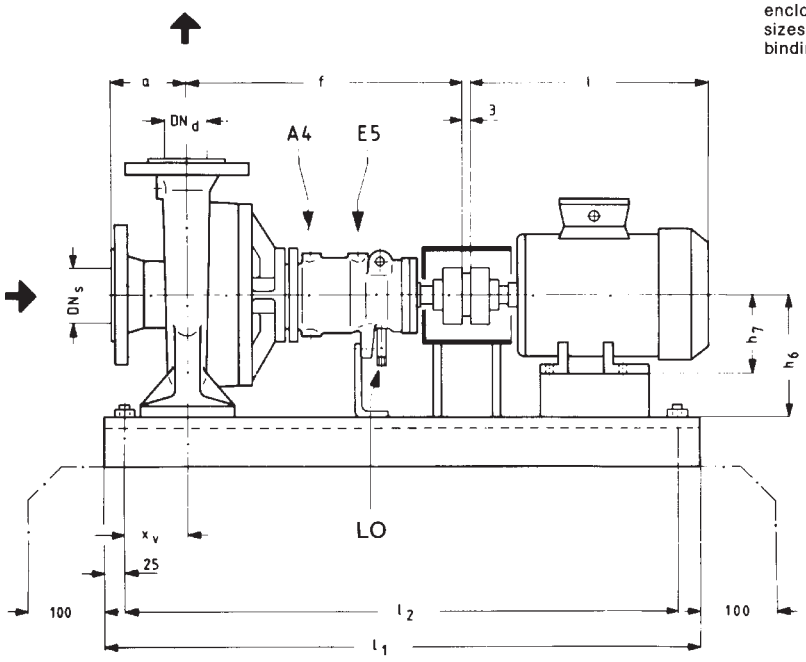
Installation plan n = 1450 / 2900 / 1750 / 3500 1/min

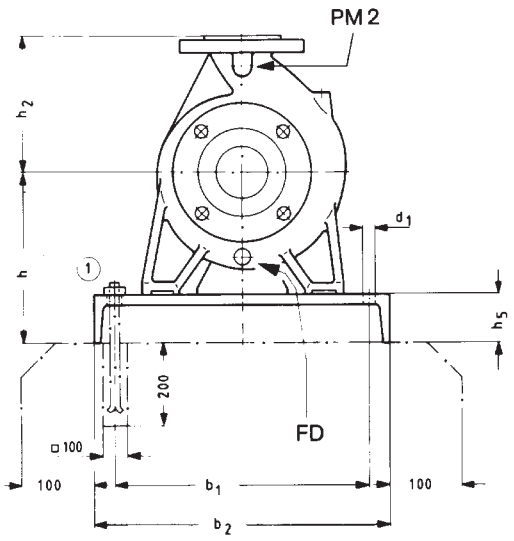
Sizes on bearing bracket sizes 360 and 470
with shaft coupling according to DIN 740 without spacer

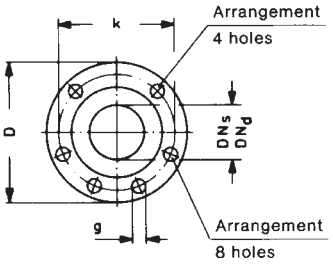
Possible driving motors and allocation to the pump sizes

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

When using special motors, it must be noted that depending upon the enclosures, different performances are allocated to the individual sizes. The main dimensions are changed accordingly. In case of order, binding tables of motor dimensions must be transmitted to us.







Tolerances of the companion dimensions acc. to VDMA 24275.
Sense of rotation: clockwise, as seen from the driving side.
Dimensions in mm without commitment.

Flanges acc. to DIN 2534 PN 25 with material design W91					
DN s DN d	D	bf	k	g	No. of holes
25	115	18	85	14	4
32	140	20	100	18	4
40	150	20	110	18	4
50	165	22	125	18	4
65	185	24	145	18	8
80	200	26	160	18	8
100	235	28	190	22	8
125	270	30	220	26	8

Flanges acc. to DIN 2544 PN 25 with material design W92					
DN s DN d	D	bf	k	g	No. of holes
25	115	18	85	14	4
32	140	18	100	18	4
40	150	18	110	18	4
50	165	20	125	18	4
65	185	22	145	18	8
80	200	24	160	18	8
100	235	24	190	22	8
125	270	26	220	26	8

Connections		
A4	Filling	G 1/4
E5	Venting	G 1/4
FD	Draining	G 1/2
LO	Seepage drain	G 1/4
PM2	Pressure measurement	G 1/4

Base plate size ①	Stone bolt C DIN 529	Base plate size ①	Stone bolt C DIN 529	Base plate size ①	Stone bolt C DIN 529
Steel	Size	Steel	Size	Steel	Size
U 5.1 U 6.1 U 6.2 U 6.3 U 7.1 U 7.2 U 7.3	M 12 x 250	U 8.2 U 8.3 U 8.4 U 9.3 U 9.4 U 10.3 U 10.4	M 16 x 250	U 10.5 U 11.5 U 12.6 U 13.6	M 16 x 250

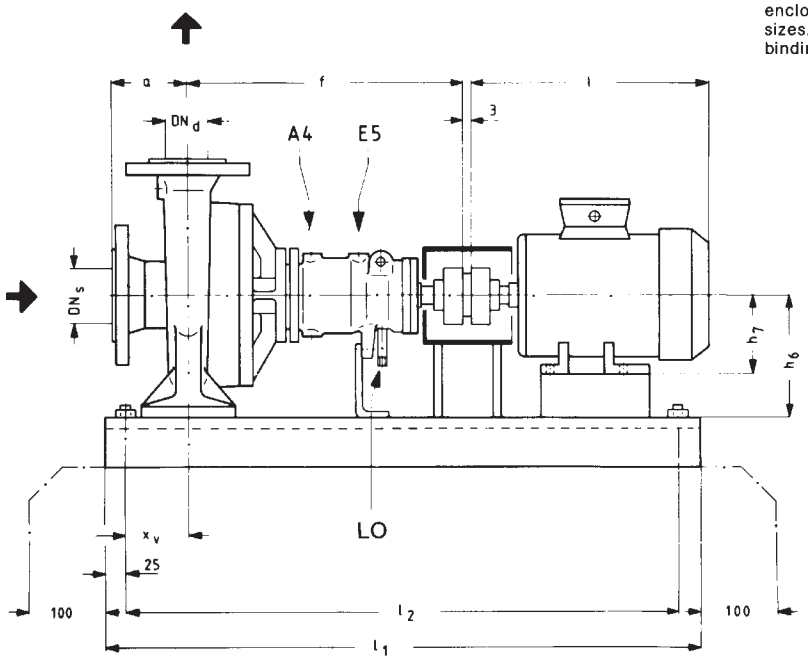
Installation plan n = 1450 / 2900 / 1750 / 3500 1/min

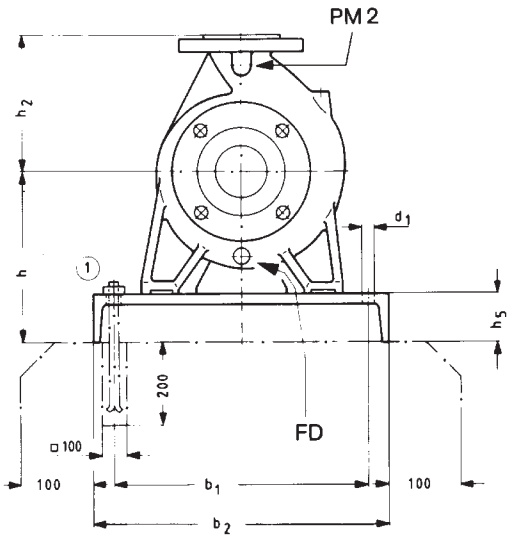
Sizes on bearing bracket sizes 360 and 470
with shaft coupling according to DIN 740 without spacer

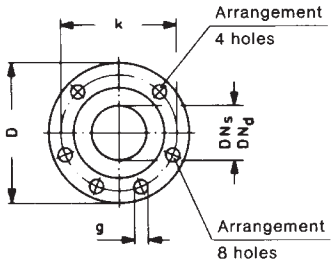
Possible driving motors and allocation to the pump sizes

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

When using special motors, it must be noted that depending upon the enclosures, different performances are allocated to the individual sizes. The main dimensions are changed accordingly. In case of order, binding tables of motor dimensions must be transmitted to us.







Tolerances of the companion dimensions acc. to VDMA 24275.
Sense of rotation: clockwise, as seen from the driving side.
Dimensions in mm without commitment.

Flanges acc. to DIN 2534 PN 25					
with material design W91					
DN s / DN d	D	bf	k	g	No. of holes
25	115	18	85	14	4
32	140	20	100	18	4
40	150	20	110	18	4
50	165	22	125	18	4
65	185	24	145	18	8
80	200	26	160	18	8
100	235	28	190	22	8
125	270	30	220	26	8

Flanges acc. to DIN 2544 PN 25					
with material design W92					
DN s / DN d	D	bf	k	g	No. of holes
25	115	18	85	14	4
32	140	18	100	18	4
40	150	18	110	18	4
50	165	20	125	18	4
65	185	22	145	18	8
80	200	24	160	18	8
100	235	24	190	22	8
125	270	26	220	26	8

Connections		
A4	Filling	G 1/4
E5	Venting	G 1/4
FD	Draining	G 1/2
L0	Seepage drain	G 1/4
PM2	Pressure measurement	G 1/4

Base plate size ①	Stone bolt C DIN 529	Base plate size ①	Stone bolt C DIN 529	Base plate size ①	Stone bolt C DIN 529
Steel	Size	Steel	Size	Steel	Size
U 5.1 U 6.1 U 6.2 U 6.3 U 7.1 U 7.2 U 7.3	M 12 x 250	U 8.2 U 8.3 U 8.4 U 9.3 U 9.4 U 10.3 U 10.4	M 16 x 250	U 10.5 U 11.5 U 12.6 U 13.6	M 16 x 250

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ALLWEILER

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IMO PUMP

WARREN

Quality Management System

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