Oversize NBG, NKG pumps made of 1.4408 and 1.4517 steel

Single-stage, end-suction pumps according to ISO 2858

Supplement to data booklets product nos 96653948 and 96695640

50 Hz and 60 Hz

be
think
innovate

GRUNDFOS

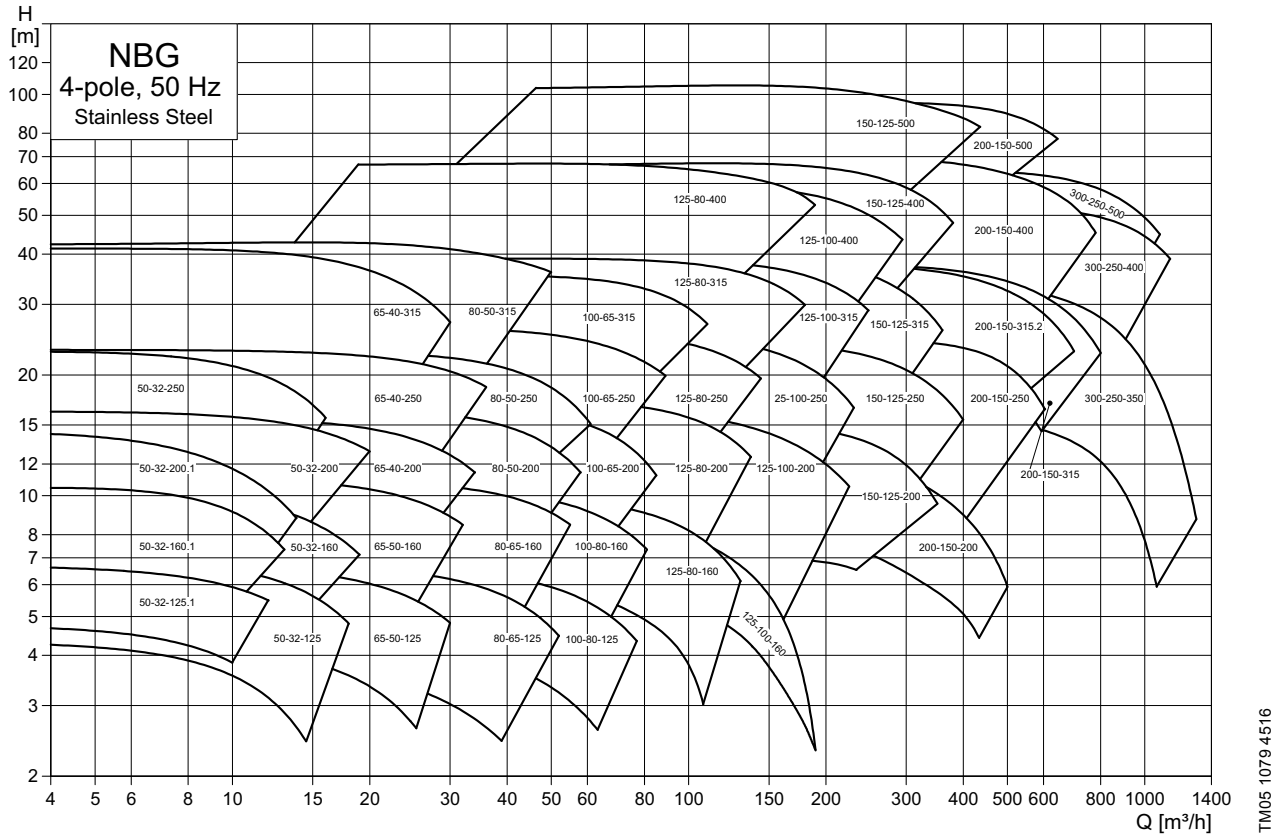
1. Introduction

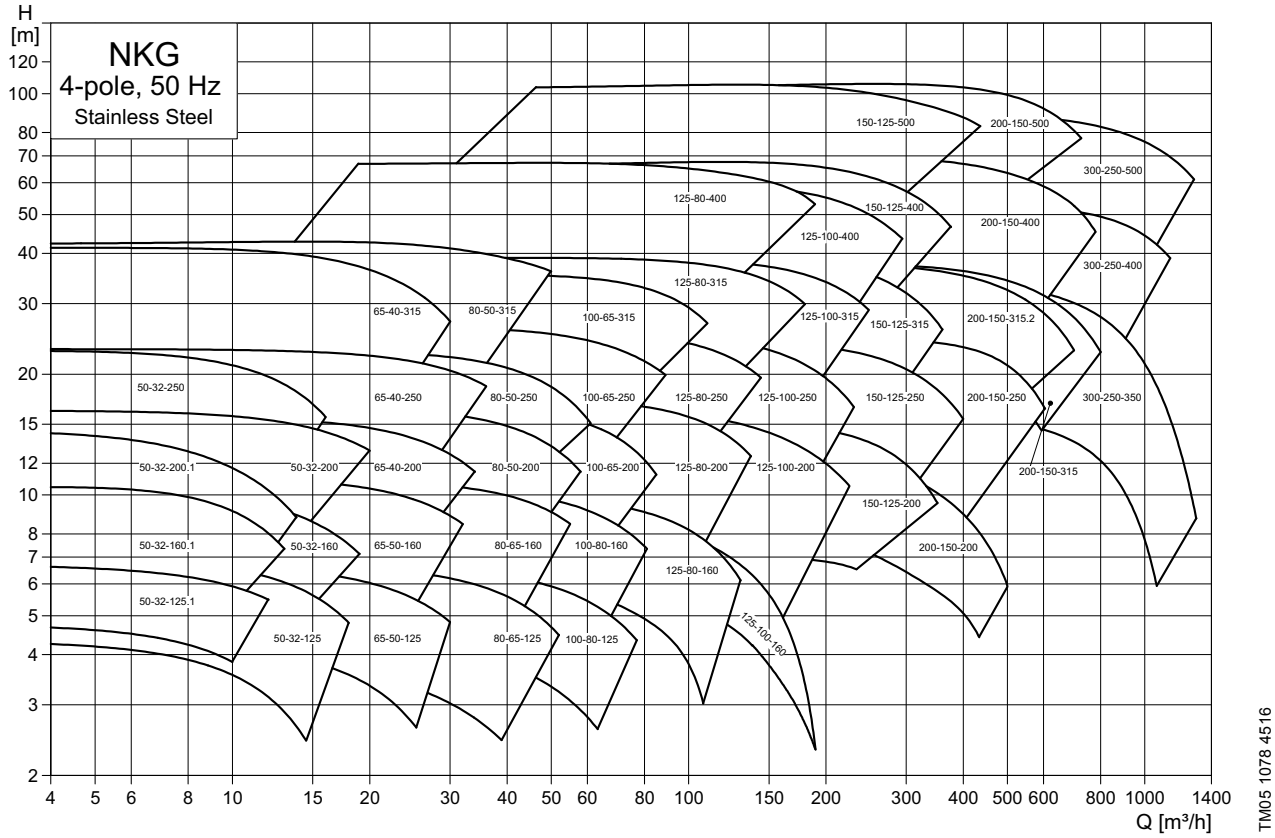
This booklet includes an extension of the NBG and NKG performance ranges. Design according to ISO 2858. Information not specified in this booklet can be found in the NBG, NBGE, NKG, NKGE data booklets, product nos 96653948 and 96695640.

NBG and NKG oversize pumps offer flow rates from 300 m^3/h to 1300 m^3/h and heads from 7 to 80 m. Motor sizes fall in the range of 11 to 315 kW, 50 Hz, and 22 to 460 kW, 60 Hz range.

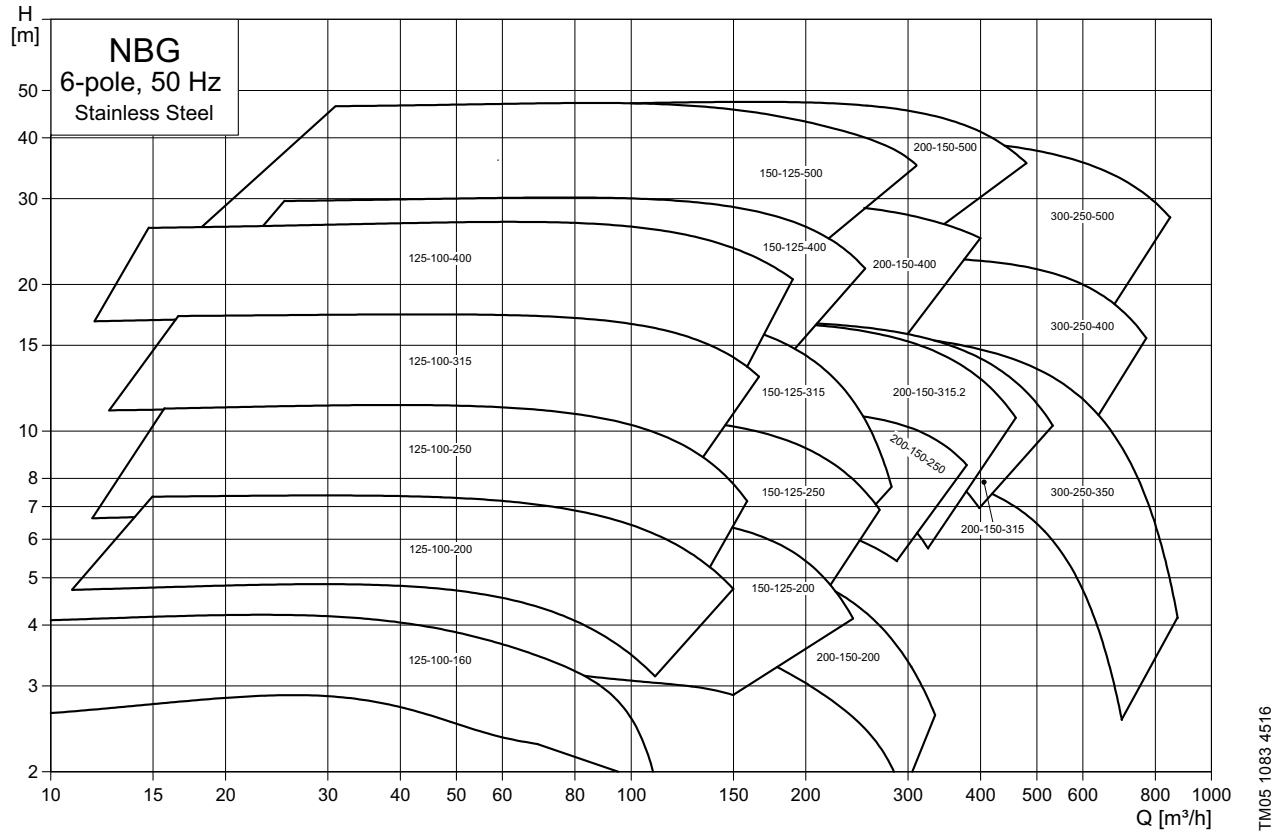
2. Performance range

4-pole, 50 Hz

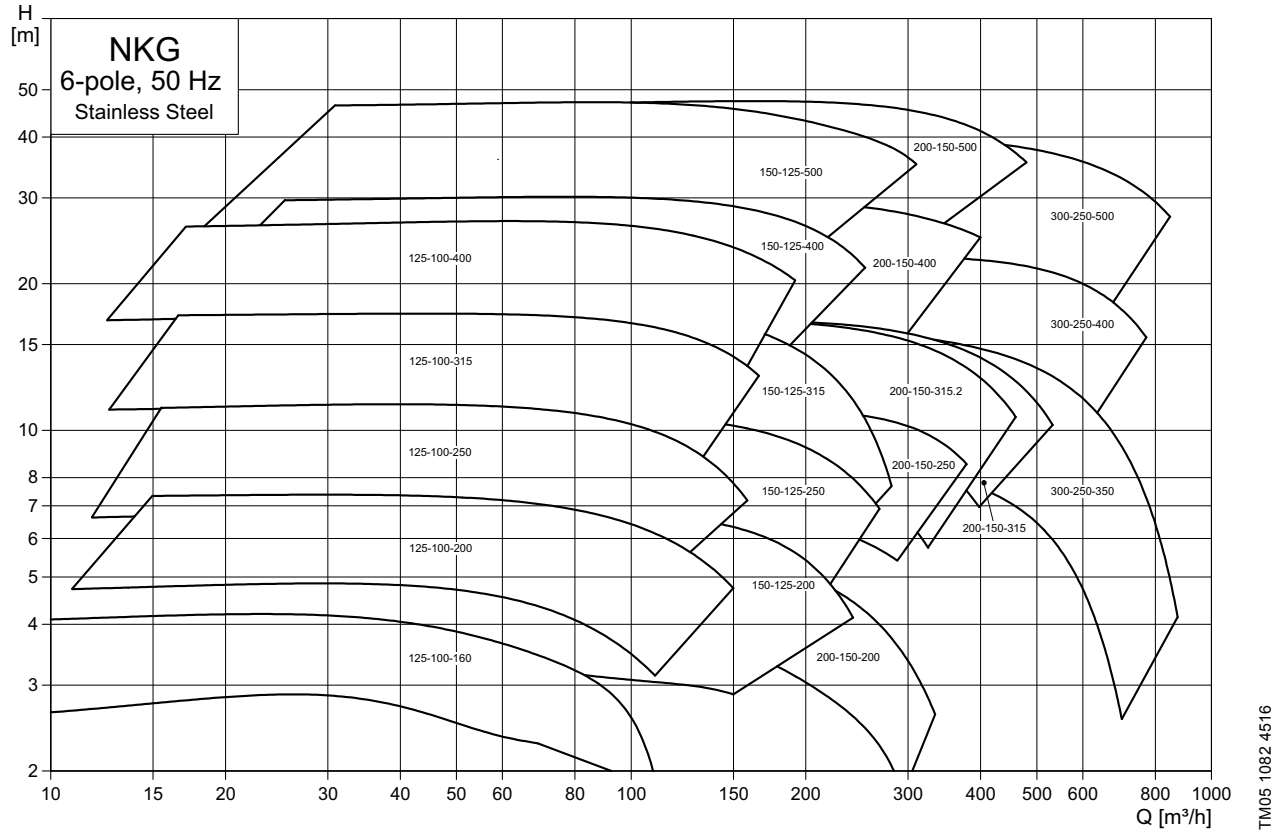




6-pole, 50 Hz

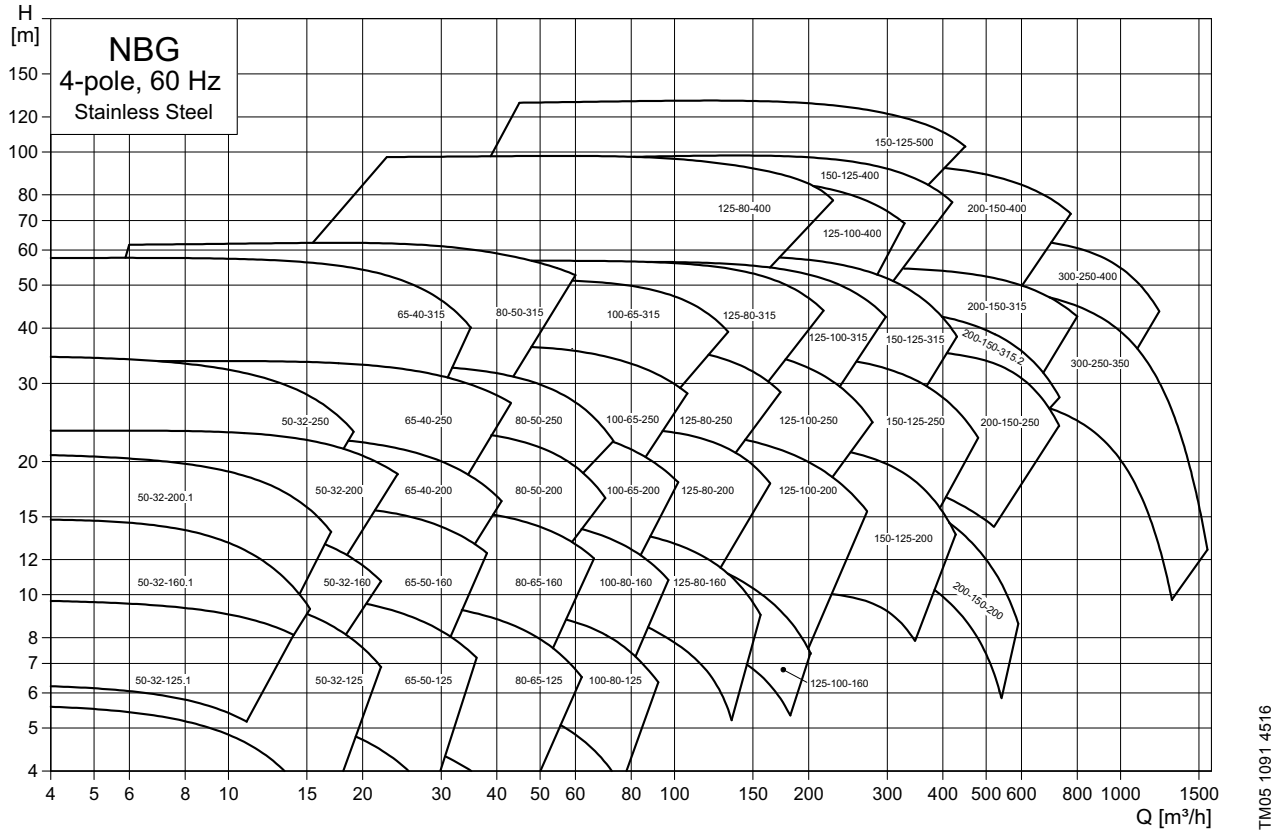


TM05 1083 4516

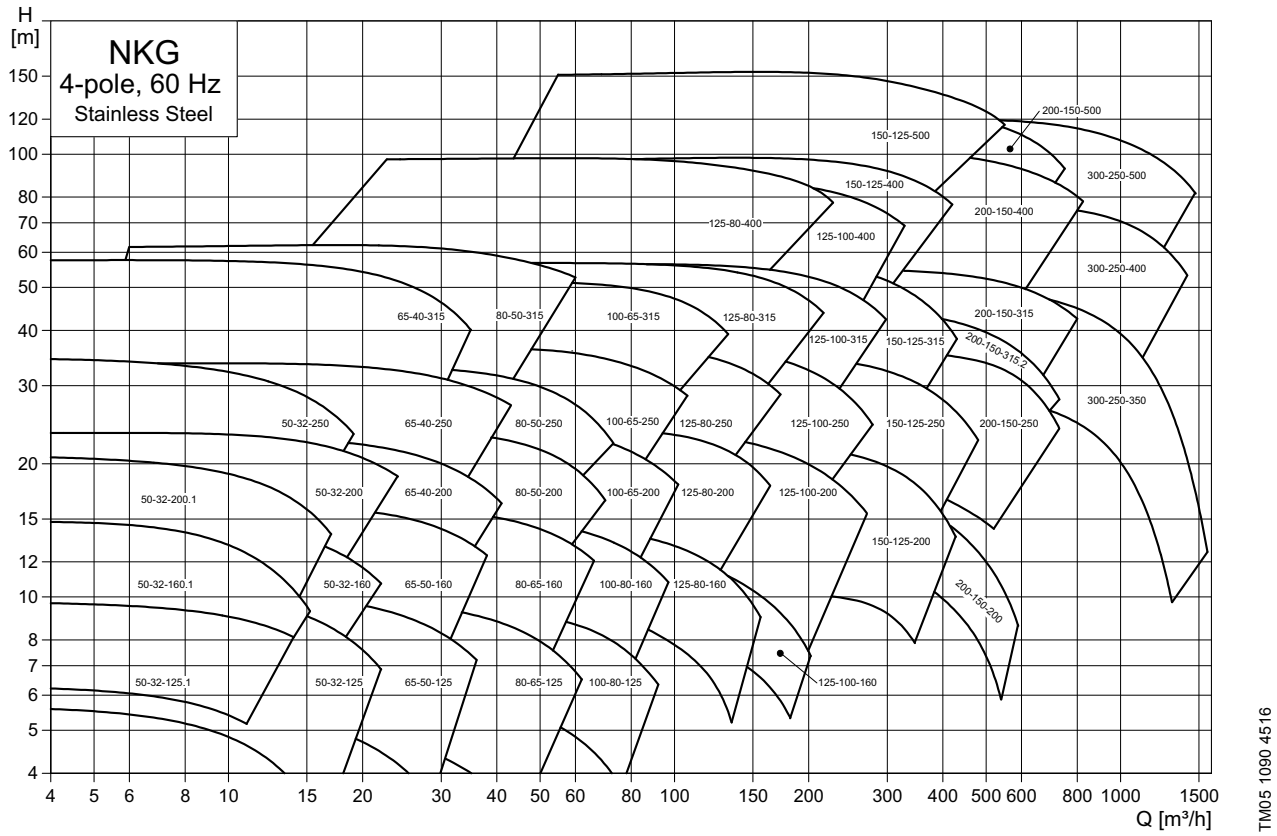


TM05 1082 4516

4-pole, 60 Hz

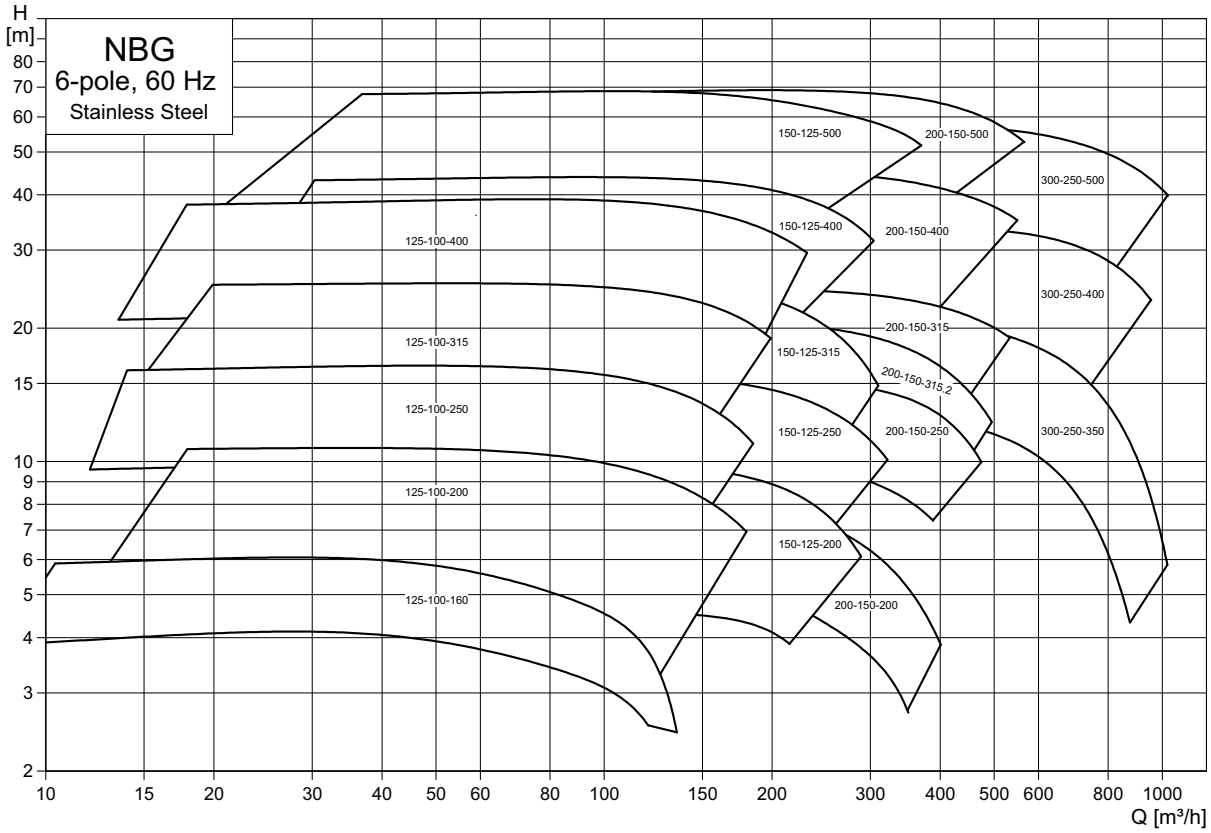


TM05 1091 4516

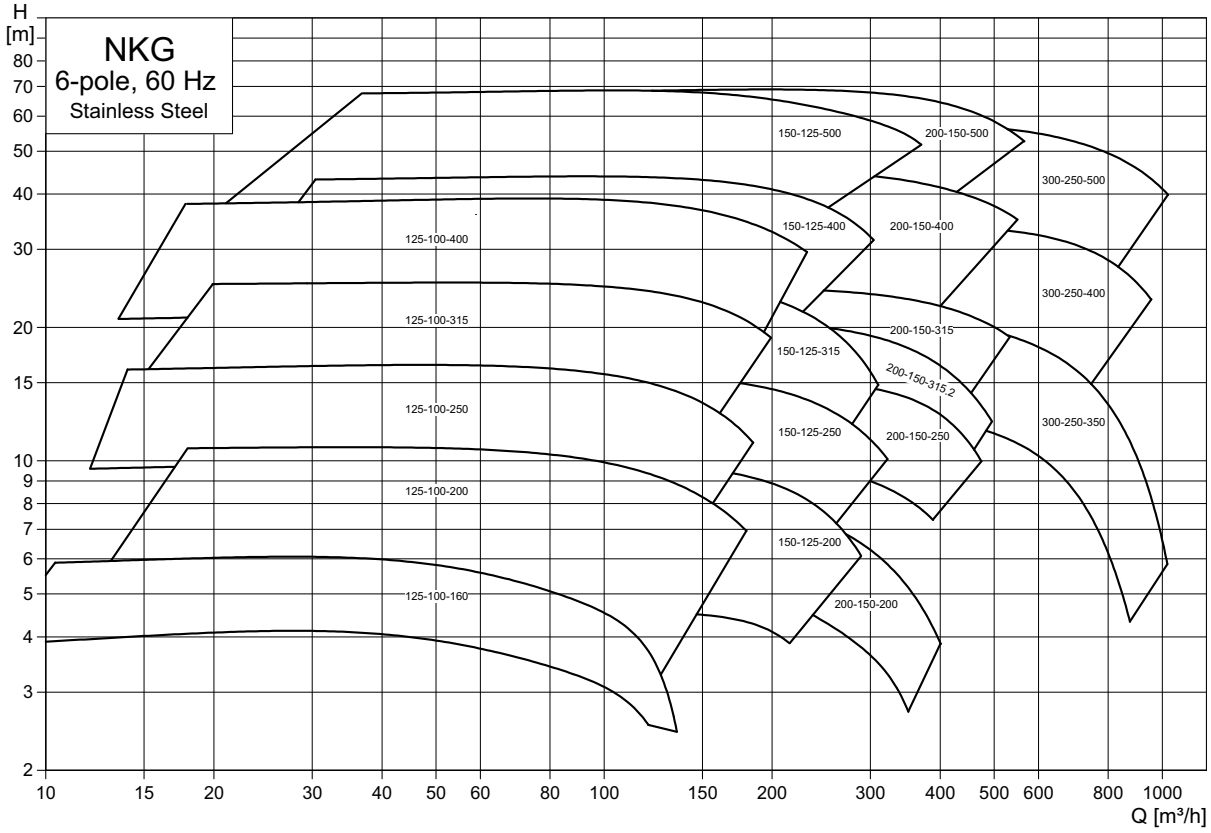


TM05 1090 4516

6-pole, 60 Hz



TM05 1134 4516



TM05 1094 4516

3. Product range

The tables on the following pages show the product ranges of the oversize NBG and NKG pumps.

The ranges have been combined on the basis of the following parameters:

- Pump housings have outlet flanges from DN 250 to DN 300.
- Motors are for 50 Hz and 60 Hz.
- NBG, NKG pumps are available with 4- and 6-pole motors.
- NBG, NKG pumps are available with premium-range and standard-range motors.

4-pole, 50 Hz

50 Hz, 4-pole				NBG pumps								NKG pumps								Stainless steel pump						
					Material code			Options				Material code			Options					Flange rating[1]			Flange standard				
Pump type	P2 [kW]	E-solution	Oversize shaft	Mounting design	K, M	N, P	I, J, L, R, U, W	Double seal arrangement	Cartridge seal, single or double	Pump housing with feet	Pump with base frame	K, M	N, P	I, J, L, R, U, W	Stuffing box	Double seal arrangement	Cartridge seal, single or double	Standard bearing bracket	Heavy-duty bearing bracket	PN 16	PN 25	PN 40	DIN, code F	ANSI, code G	JIS, code J	d5 [mm]	Shaft seal diameter [mm]
300-250-350	37	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	45	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	55	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	75	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	90	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
300-250-400	45	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	55	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	75	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	90	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	110	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	132	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	160	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
300-250-500	160	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60
	200	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60
	250	CUE	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60
	315	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60

[1] L: loose flange.

6-pole, 50 Hz

50 Hz, 6-pole				NBG pumps									NKG pumps								Stainless steel pump							
					Material code			Options					Material code			Options					Flange rating[1]			Flange standard				
Pump type	P2 [kW]	E-solution	Oversize shaft	Mounting design	K, M	N, P	I, J, L, R, U, W	Double seal arrangement	Cartridge seal, single or double	Pump housing with feet	Pump with base frame		K, M	N, P	I, J, L, R, U, W	Stuffing box	Double seal arrangement	Cartridge seal, single or double	Standard bearing bracket	Heavy-duty bearing bracket	PN 16	PN 25	PN 40	DIN, code F	ANSI, code G	JIS, code J	d5 [mm]	Shaft seal diameter [mm]
300-250-350	11	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	15	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	18.5	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	22	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
300-250-400	15	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	18.5	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	22	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	30	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	37	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	45	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
300-250-500	45	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60
	55	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60
	75	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60
	90	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60

[1] L: loose flange.

4-pole, 60 Hz

50 Hz, 4-pole				NBG pumps									NKG pumps								Stainless steel pump							
					Material code			Options					Material code			Options					Flange rating[1]			Flange standard				
Pump type	P2 [kW]	E-solution	Oversize shaft	Mounting design	K, M	N, P	I, J, L, R, U, W	Double seal arrangement	Cartridge seal, single or double	Pump housing with feet	Pump with base frame		K, M	N, P	I, J, L, R, U, W	Stuffing box	Double seal arrangement	Cartridge seal, single or double	Standard bearing bracket	Heavy-duty bearing bracket	PN 16	PN 25	PN 40	DIN, code F	ANSI, code G	JIS, code J	d5 [mm]	Shaft seal diameter [mm]
300-250-350	75	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	90	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	110	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	132	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
300-250-400	75	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	90	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	110	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	132	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	160	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	200	CUE	-	C	●	●	●	-	-	●	●		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	288	-	-	-	-	-	-	-	-	-	-		●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
300-250-500	288	-	-	-	-	-	-	-	-	-	-		●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60
	362	-	-	-	-	-	-	-	-	-	-		●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60
	408	-	-	-	-	-	-	-	-	-	-		●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60
	460	-	-	-	-	-	-	-	-	-	-		●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60

[1] L: loose flange.

6-pole, 60 Hz

50 Hz, 6-pole				NBG pumps								NKG pumps								Stainless steel pump							
					Material code			Options				Material code			Options					Flange rating[1]			Flange standard				
Pump type	P2 [kW]	E-solution	Oversize shaft	Mounting design	K, M	N, P	I, J, L, R, U, W	Double seal arrangement	Cartridge seal, single or double	Pump housing with feet	Pump with base frame	K, M	N, P	I, J, L, R, U, W	Stuffing box	Double seal arrangement	Cartridge seal, single or double	Standard bearing bracket	Heavy-duty bearing bracket	PN 16	PN 25	PN 40	DIN, code F	ANSI, code G	JIS, code J	d5 [mm]	Shaft seal diameter [mm]
300-250-350	22	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	30	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	37	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	45	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
300-250-400	30	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	37	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	45	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	55	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	75	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
	90	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	48	55
300-250-500	75	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60
	90	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60
	110	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60
	132	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60
	160	CUE	-	C	●	●	●	-	-	●	●	●	●	●	●	●	●	●	●	L	L	L	●	-	-	60	60

[1] L: loose flange.

4. Construction

NBG, tangential outlet

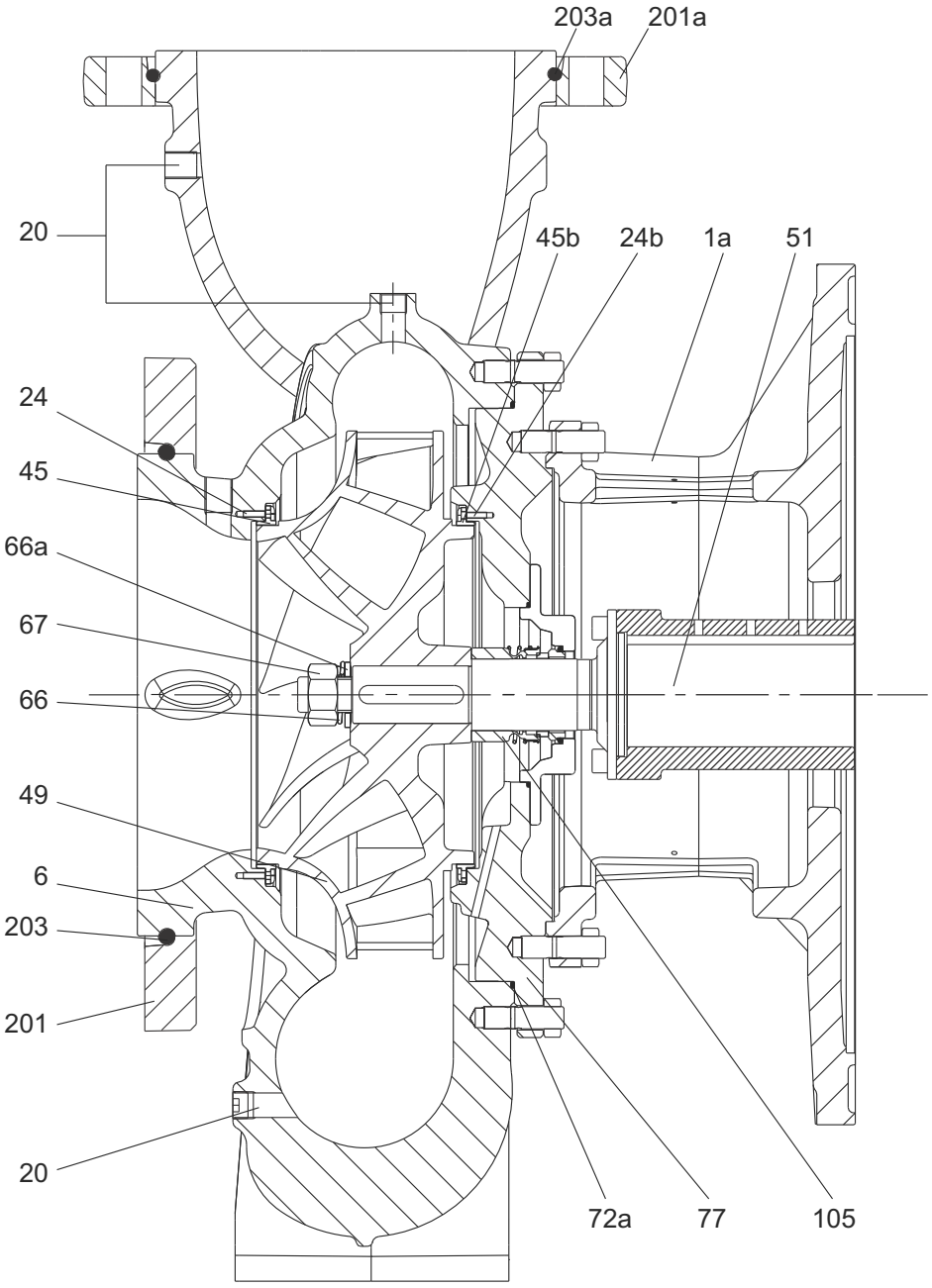


Fig. 1 Sectional drawing, tangential outlet, DN 250 and DN 300

NKG, tangential outlet

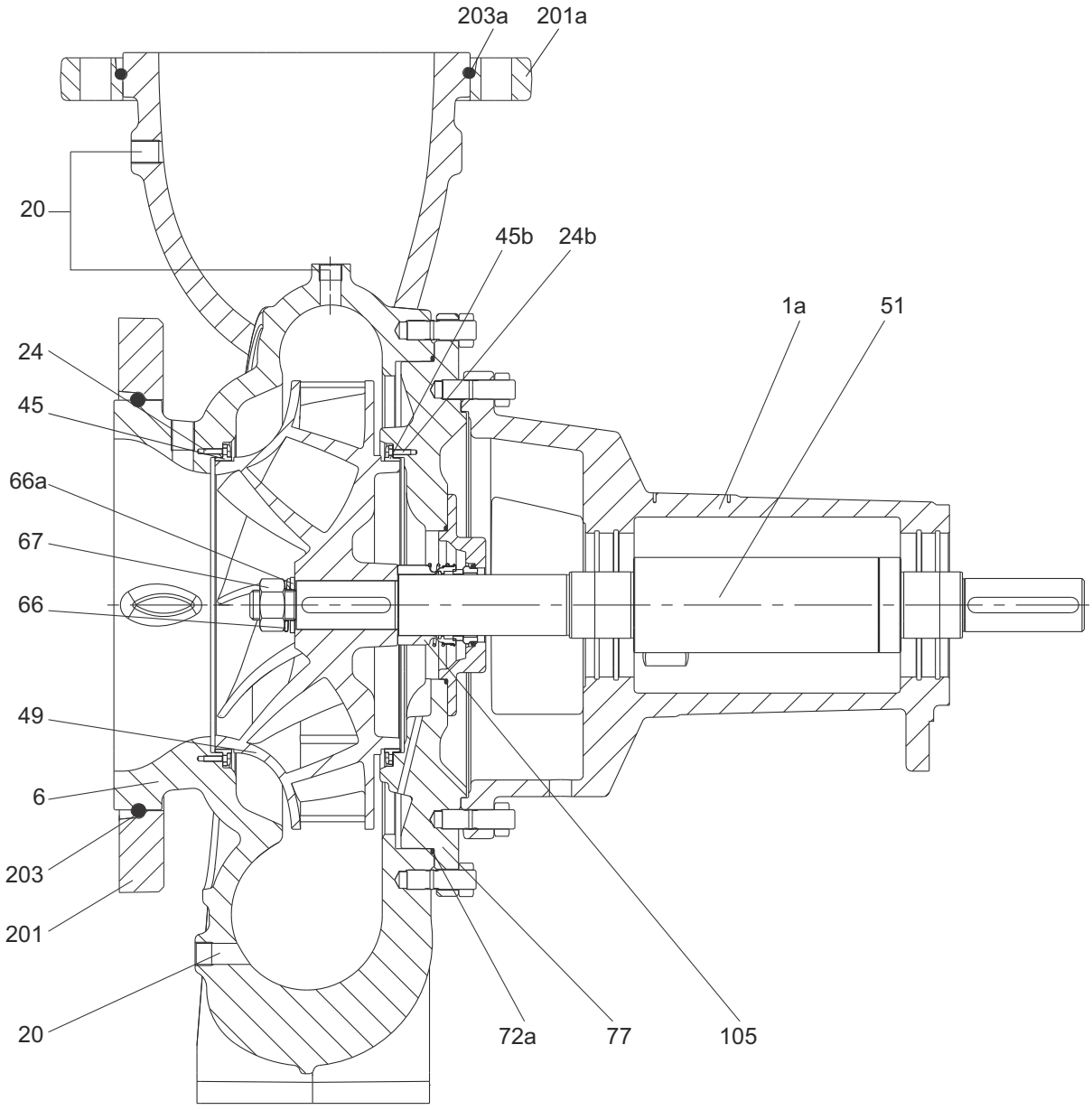


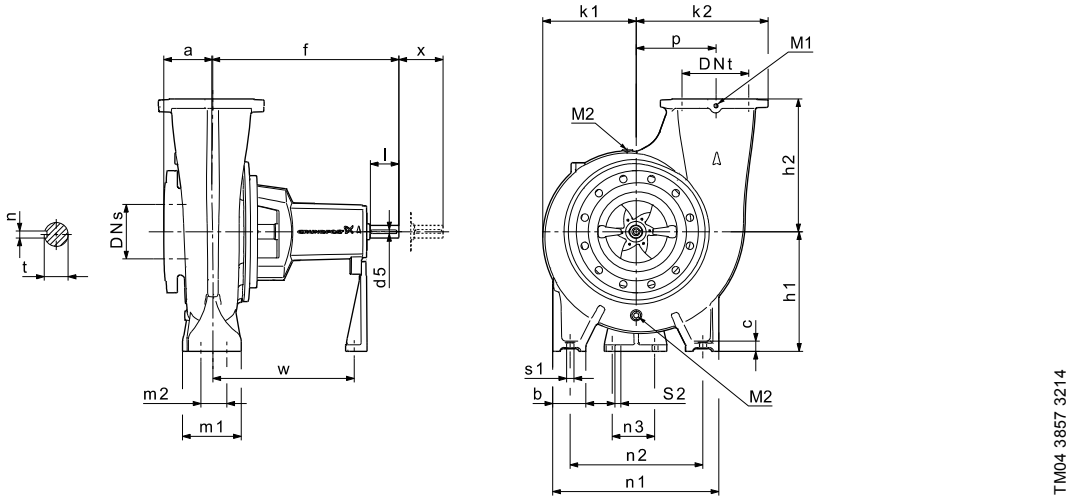
Fig. 2 Sectional drawing, tangential outlet, DN 250 and DN 300

Material specification

Pos.	Description	Materials	Material code									
			I	J	K	L	M	N	P	R	U	W
1a	Motor stool	EN-GJL-250	●	●	●	●	●	●	●	●	●	●
6	Pump housing	1.4408/CF8M	●	●	●	-	●	●	●	-	●	●
		1.4517/CD4MCuN	-	-	-	●	-	-	-	●	-	-
20	Plug	1.4401/AISI 316	●	●	●	-	●	●	●	-	●	●
		1.4539/AISI 904L	-	-	-	●	-	-	-	●	-	-
24	Hexagon socket head cap screw	1.4401/AISI 316	●	●	●	●	●	●	●	●	●	●
		1.4539/AISI 904L	●	●	●	●	●	●	●	●	●	●
24b	Hexagon socket head cap screw	1.4401/AISI 316	●	●	●	●	●	●	●	●	●	●
		1.4539/AISI 904L	●	●	●	●	●	●	●	●	●	●
45	Wear ring	1.4517/CD4MCuN	●	-	●	●	●	-	-	-	●	-
		Carbon-graphite filled PTFE (Graflon®)	-	●	-	-	-	●	●	●	-	●
45b	Wear ring	1.4517/CD4MCuN	●	-	●	●	●	-	-	-	●	-
		Carbon-graphite filled PTFE (Graflon®)	-	●	-	-	-	●	●	●	-	●
49	Impeller	1.4408/CF8M	●	●	●	-	-	●	-	-	-	-
		1.4517/CD4MCuN	-	-	-	●	●	-	●	●	●	●
51	2-part shaft (NBG only)	1.4401 + 1.0569/AISI 316 + carbon steel	-	-	●	-	●	●	●	-	-	-
		1.4462 + 1.0569/ASTM J92205 + carbon steel	●	●	-	●	-	-	-	●	●	●
	Shaft (NKG only)	1.4401 + (1.4034)	-	-	●	-	●	●	●	-	-	-
		1.4462 + (1.4401)	●	●	-	●	-	-	-	●	●	●
66	Washer	1.4401/AISI 316	●	●	●	-	-	●	-	-	-	-
		1.4539/AISI 904L	-	-	-	●	●	-	●	●	●	●
66a	Spring lock washer	1.4401/AISI 316	●	●	●	-	-	●	-	-	-	-
		1.4539/AISI 904L	-	-	-	●	●	-	●	●	●	●
67	Impeller nut	1.4401/AISI 316	●	●	●	-	-	●	-	-	-	-
		1.4539/AISI 904L	-	-	-	●	●	-	●	●	●	●
72a	O-ring	E / F / K / M / V / X	●	●	●	●	●	●	●	●	●	●
77	Cover	1.4408/CF8M	●	●	●	-	●	●	●	-	●	●
		1.4517/CD4MCuN	-	-	-	●	-	-	-	●	-	-
105	Shaft seal	Burgmann 1.4401/AISI 316	●	●	●	-	●	●	●	-	●	●
		Burgmann 2.4610/Hastelloy C-4	-	-	-	●	-	-	-	●	-	-
201	Loose flange, inlet	GGG50/1.4401/AISI 316	●	●	●	●	●	●	●	●	●	●
201a	Loose flange, outlet	GGG50/1.4401/AISI 316	●	●	●	●	●	●	●	●	●	●
203	Retainer, inlet	1.4310	●	●	●	●	●	●	●	●	●	●
203a	Retainer, outlet	1.4310	●	●	●	●	●	●	●	●	●	●

5. NKG bare shaft pumps

NKG, tangential outlet



M1/M2	Drain plug or priming plug

Type	Pump [mm]											Supporting feet [mm]										Shaft [mm]					Weight [kg]
	DN_s	DN_t	a	f	h_1	h_2	M1	M2	k_1	k_2	p	b	m_1	m_2	n_1	n_2	n_3	w	S_1	S_2	c	d5	l	X	t	n	SS[1]
NKG 300-250-350	300	250	175	739	450	400	1/2"	3/8"	379	523	320	125	200	150	625	500	140	559	M20	M16	33	48	110	180	51.5	14	528
NKG 300-250-400	300	250	160	714	450	500	1/2"	3/8"	350	498	295	125	200	150	625	500	140	532	M20	M16	33	48	110	180	51.5	14	479
NKG 300-250-500	300	250	165	709	450	500	1/2"	3/8"	441	598	395	125	200	150	725	600	140	528	M20	M16	33	60	110	180	64	18	670

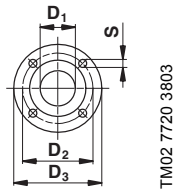
[1] SS: Stainless steel version

X is the minimum pull-back length of the bearing bracket required for service of impeller and shaft seal.

6. Pump flange dimensions

Fixed pump flanges, EN 1092-1

EN 1092-1 is the standard used for stainless steel pump flanges. The flange dimensions are stated in mm.

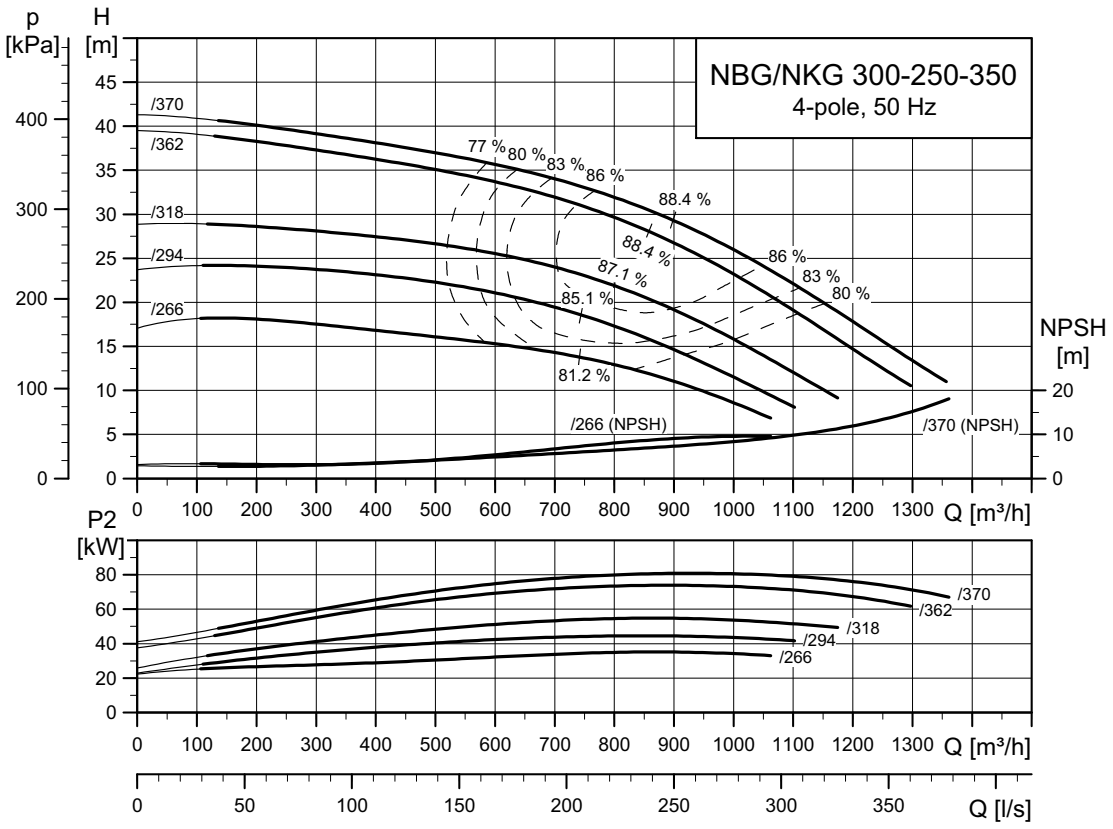


		EN 1092-1	
		Nominal diameter	
		DN 250	DN 300
	D_1	250	300
PN 10	D_2	350	400
	D_3	395	445
	S	12 x ∅23	12 x ∅23
PN 16	D_2	355	410
	D_3	405	460
	S	12 x ∅28	12 x ∅28
PN 25	D_2	370	430
	D_3	425	485
	S	12 x ∅30	16 x ∅30
PN 40	D_2	385	450
	D_3	450	515
	S	12 x ∅33	16 x ∅33

7. Performance curves

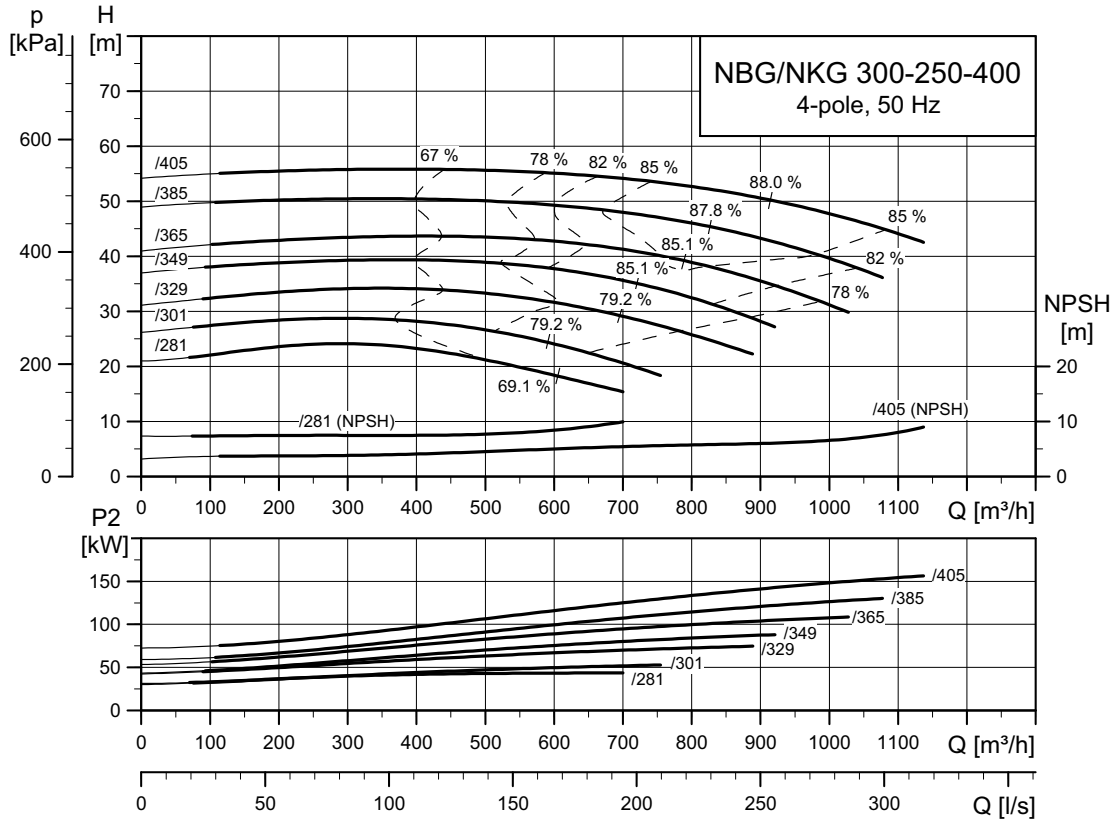
4-pole, 50 Hz

NBG, NKG 300-250-350



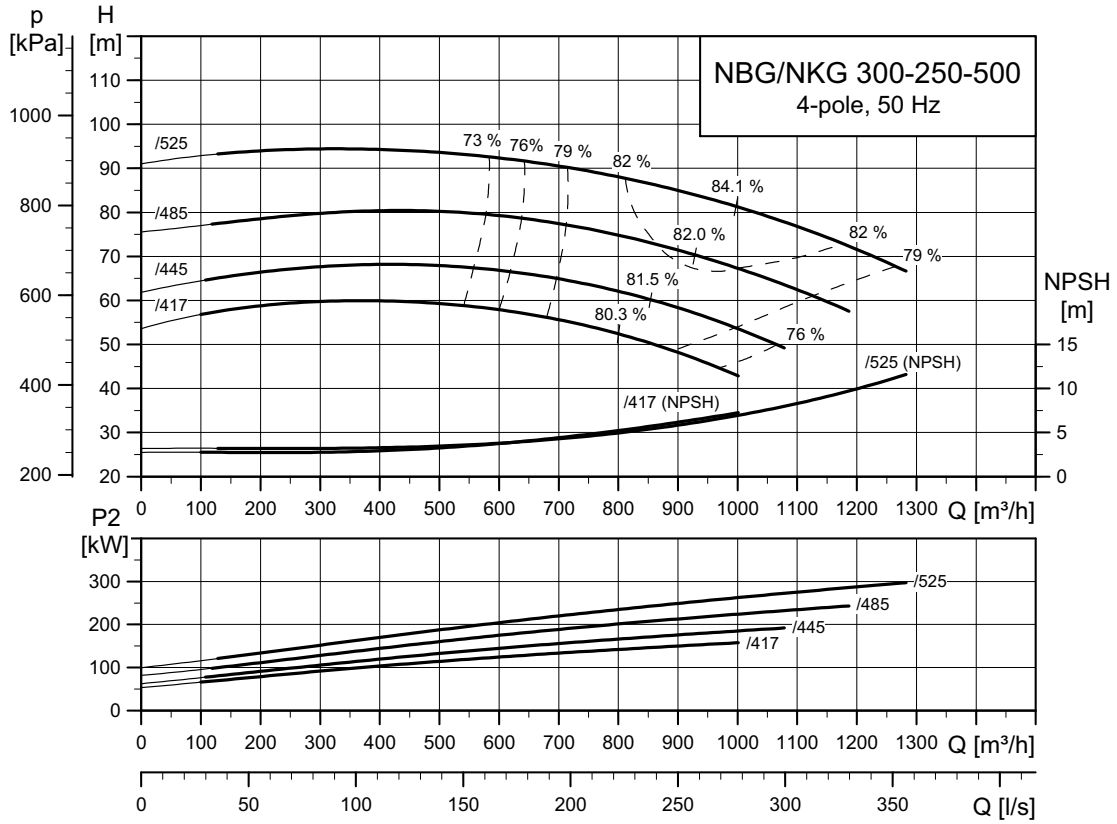
TM04 5962 3414

NBG, NKG 300-250-400



TM04 4018 3414

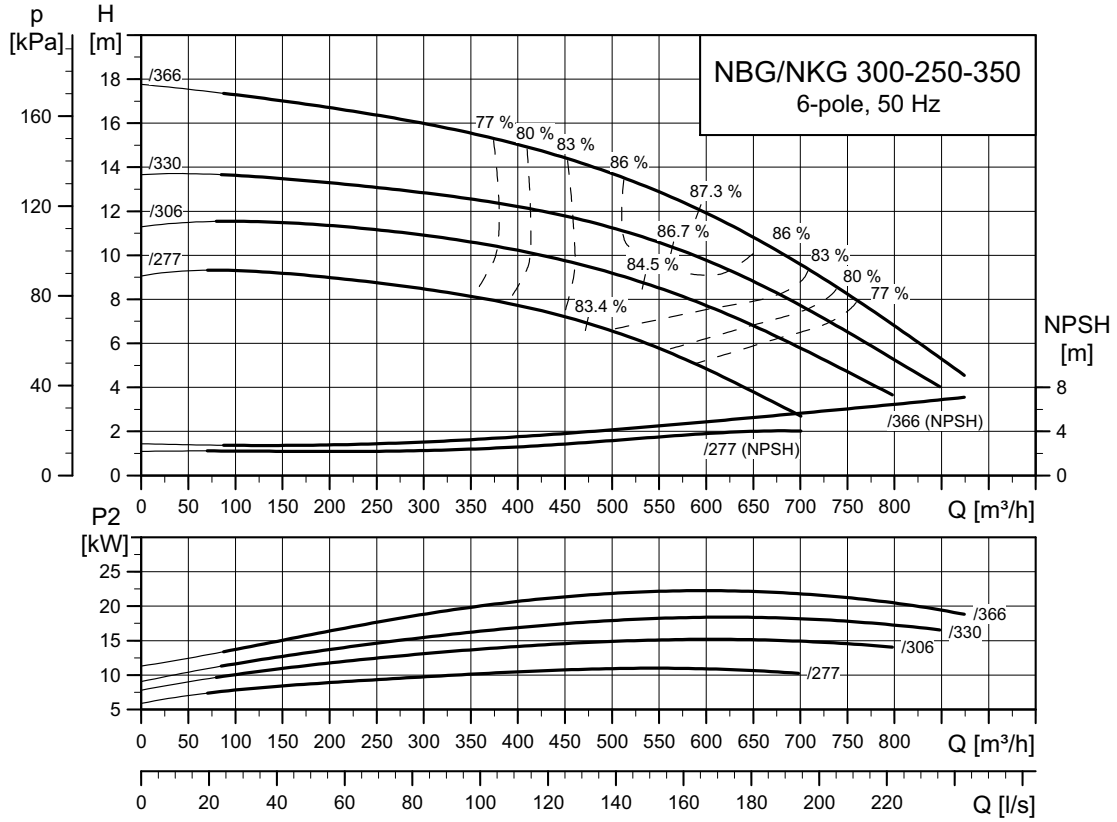
NBG, NKG 300-250-500



TM04 5966 3414

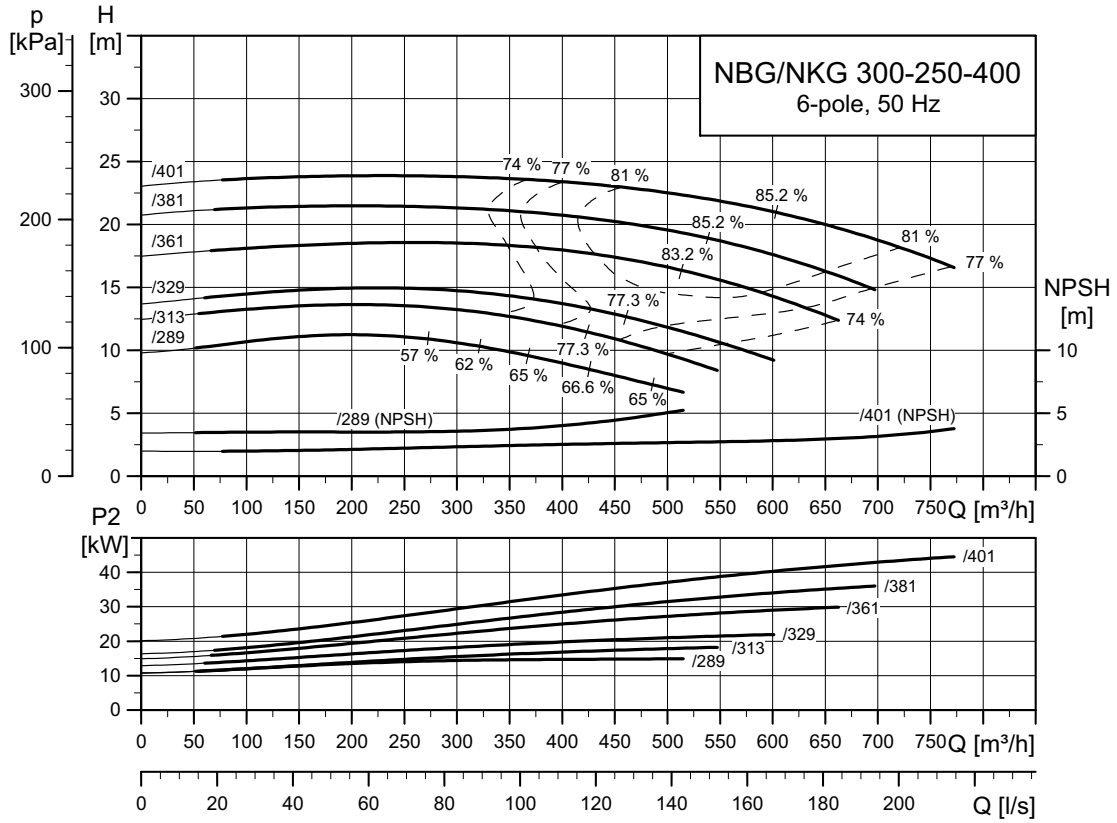
6-pole, 50 Hz

NBG, NKG 300-250-350



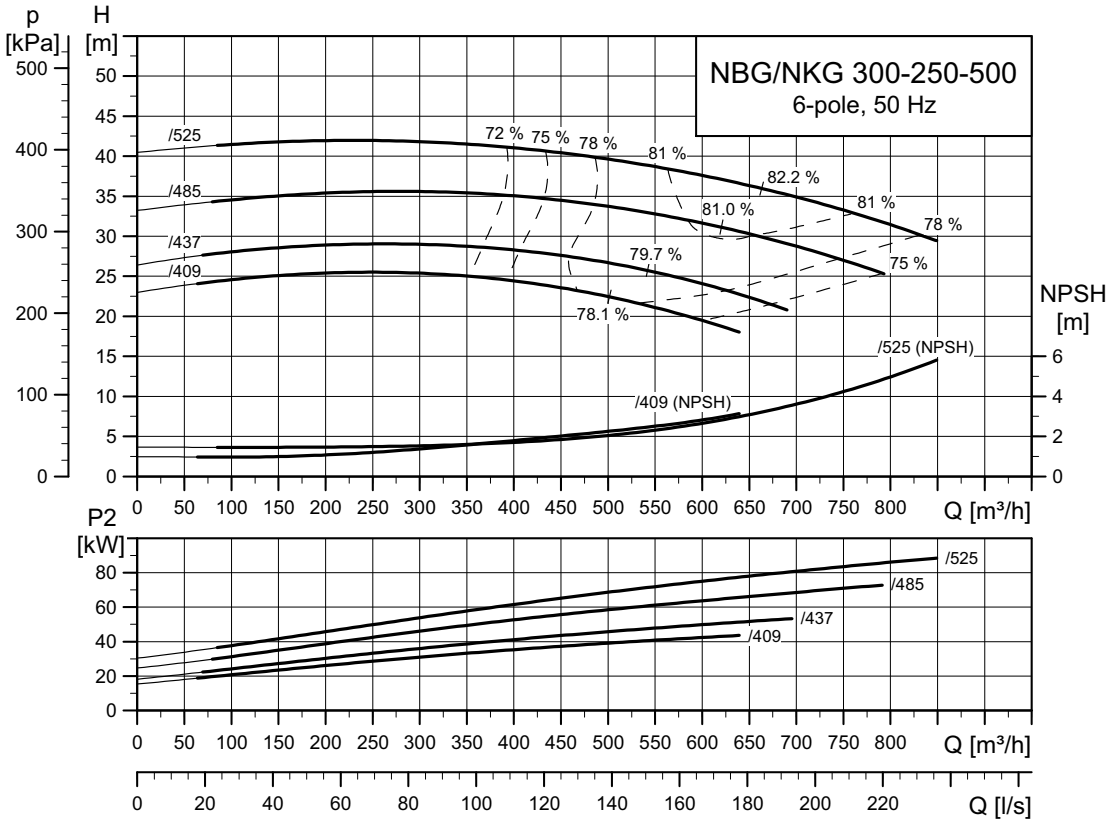
TM04 5963 3414

NBG, NKG 300-250-400



TM04 4019 3414

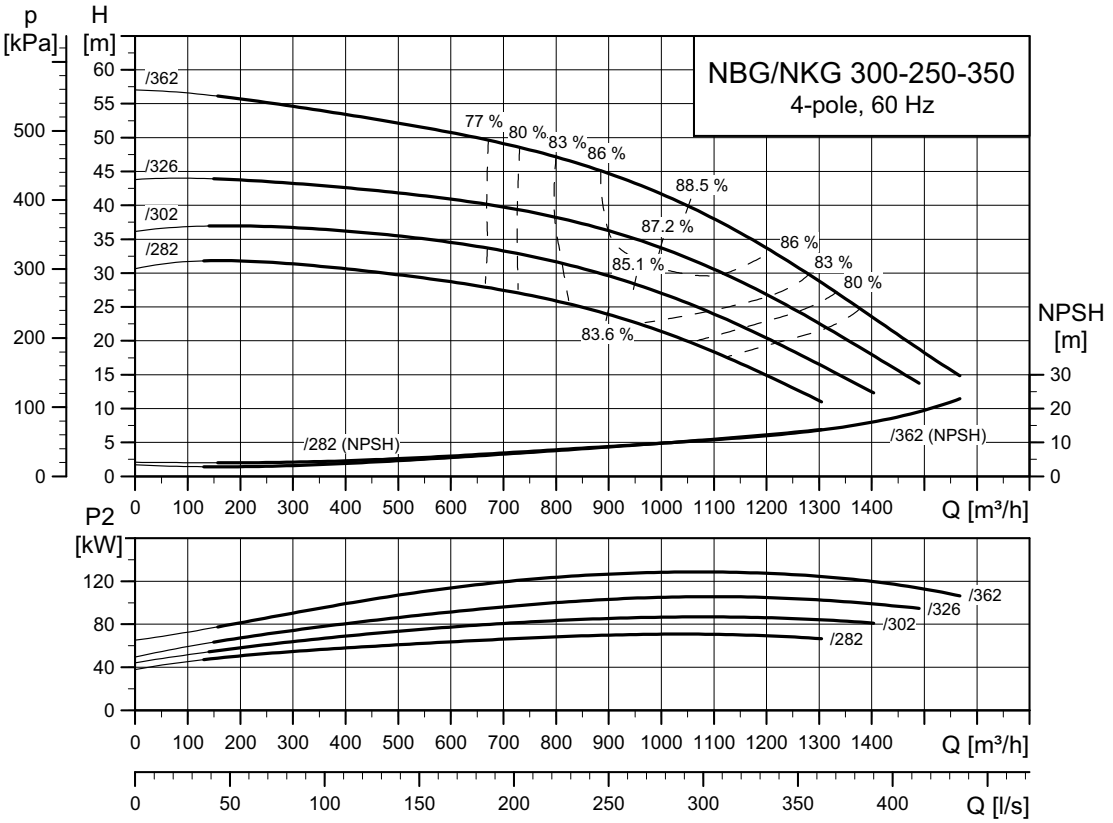
NBG, NKG 300-250-500



TM04 5967 3414

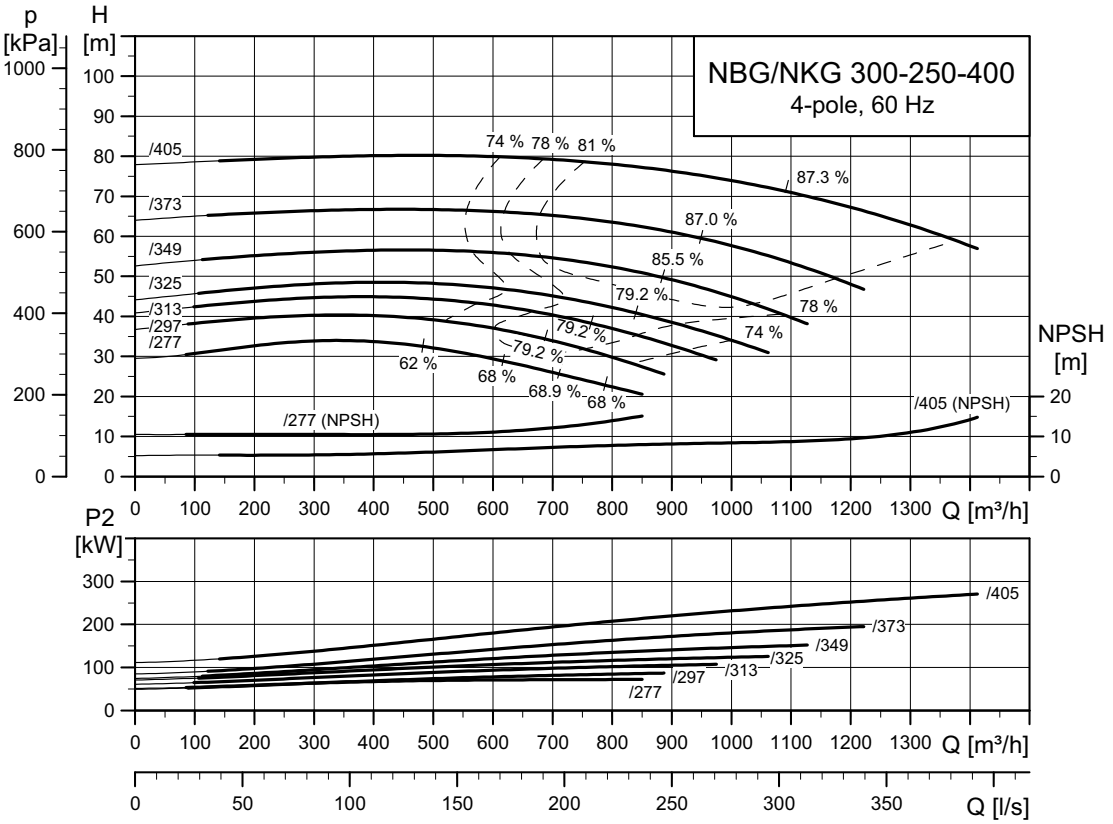
4-pole, 60 Hz

NBG, NKG 300-250-350



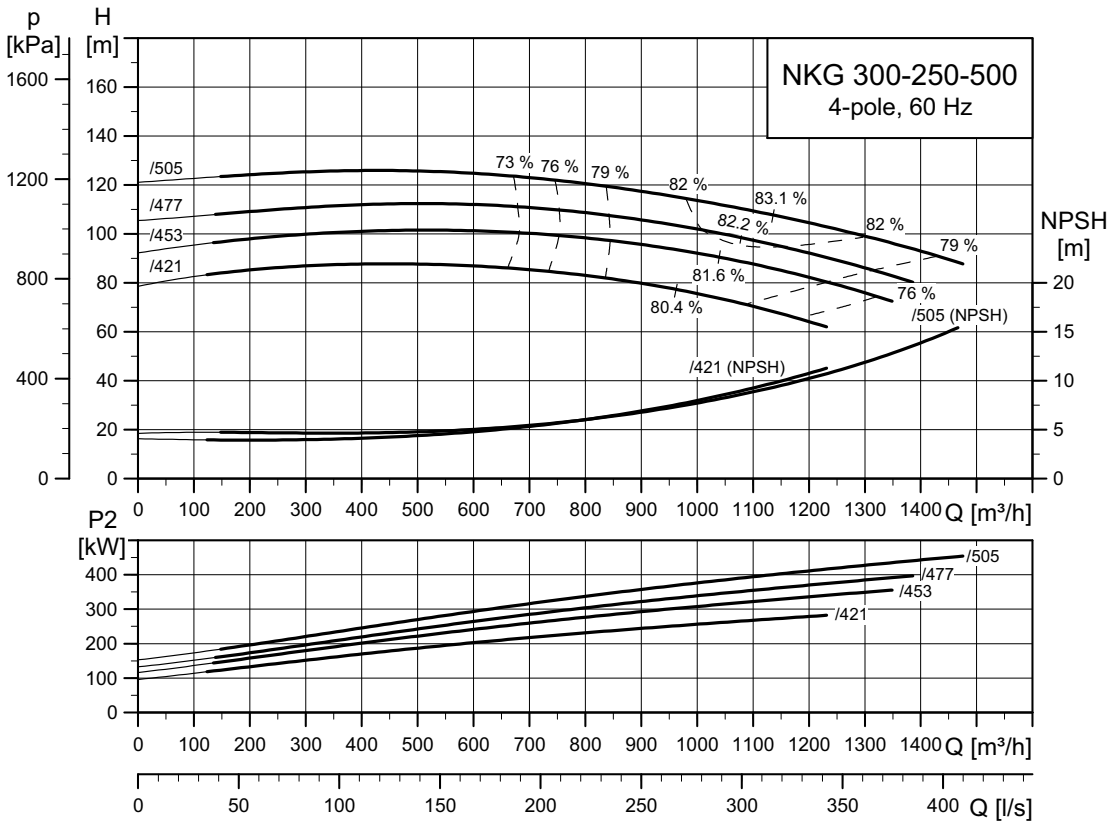
TM04 5964 3414

NBG, NKG 300-250-400



TM04 4020 3414

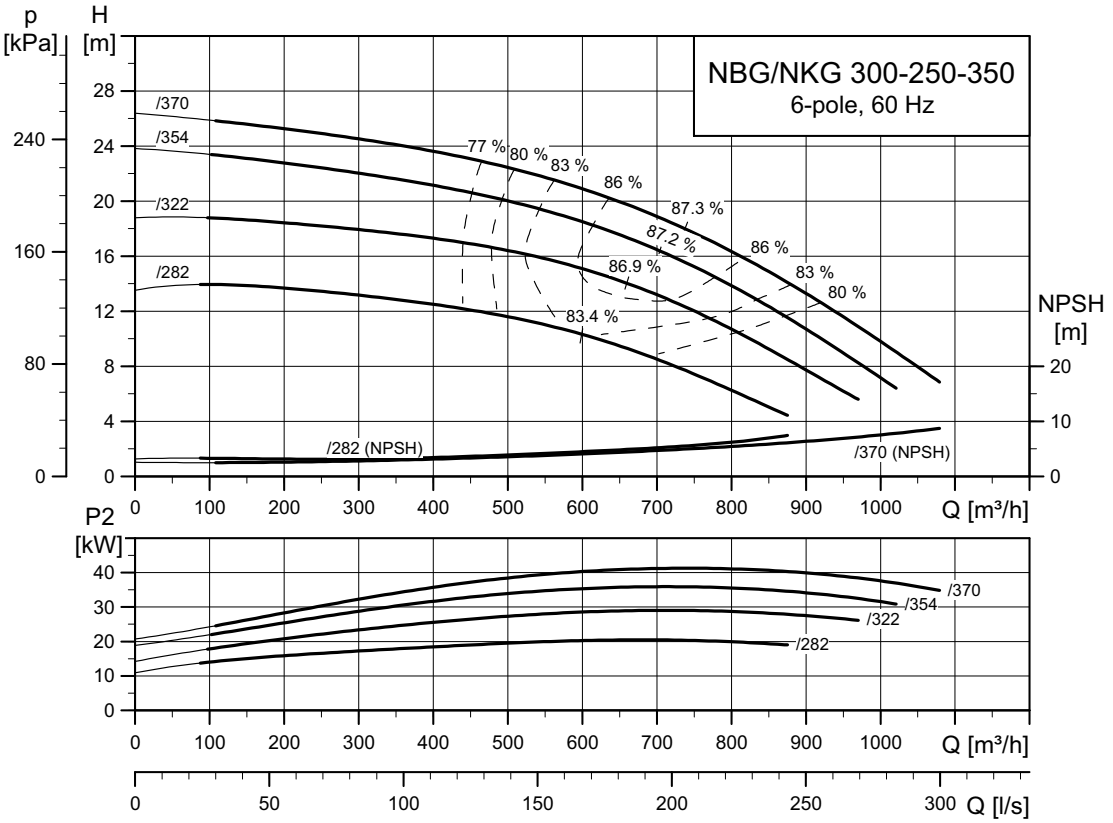
NBG, NKG 300-250-500



TM04 5968 3414

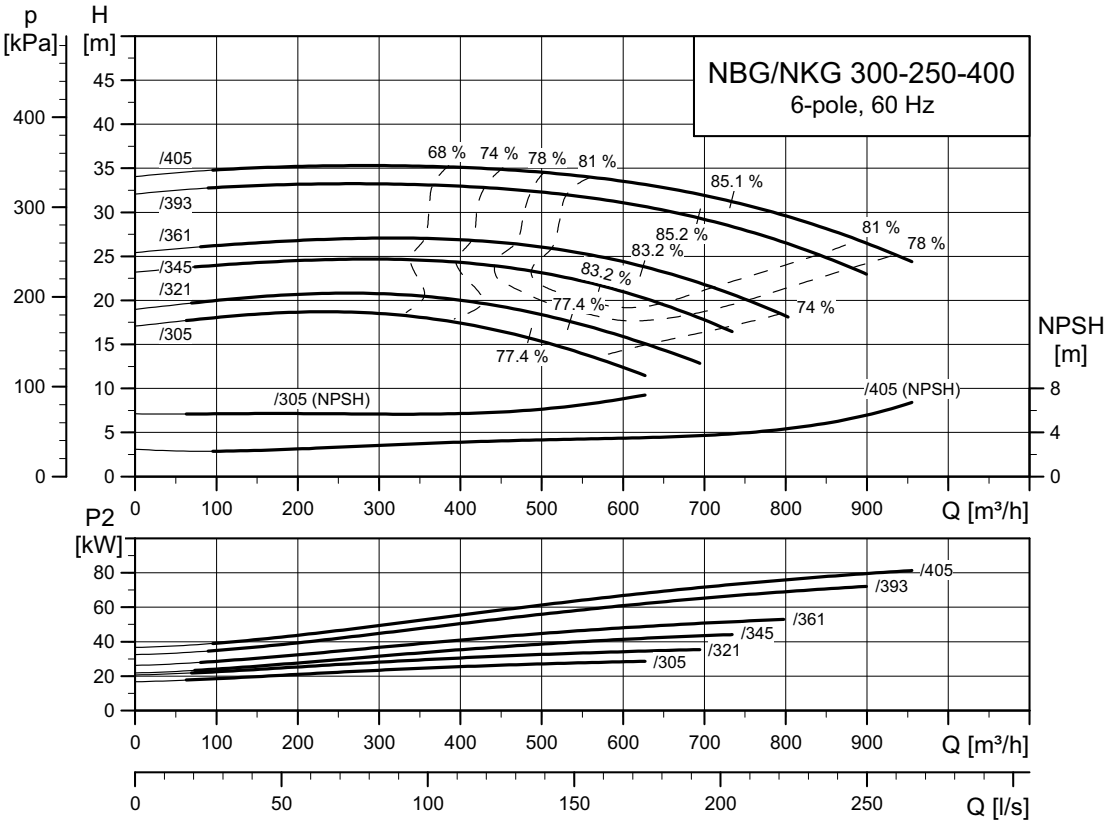
6-pole, 60 Hz

NBG, NKG 300-250-350



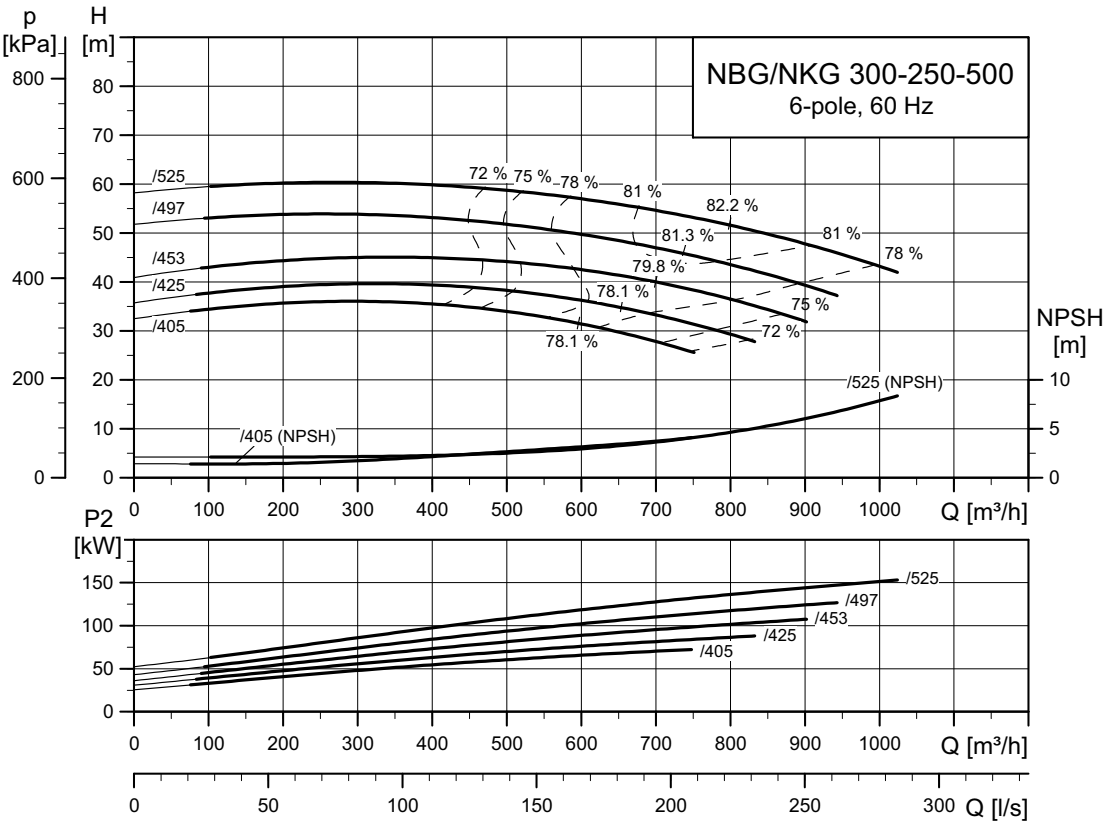
TM04 5965 3414

NBG, NKG 300-250-400



TM04 4021 3414

NBG, NKG 300-250-500

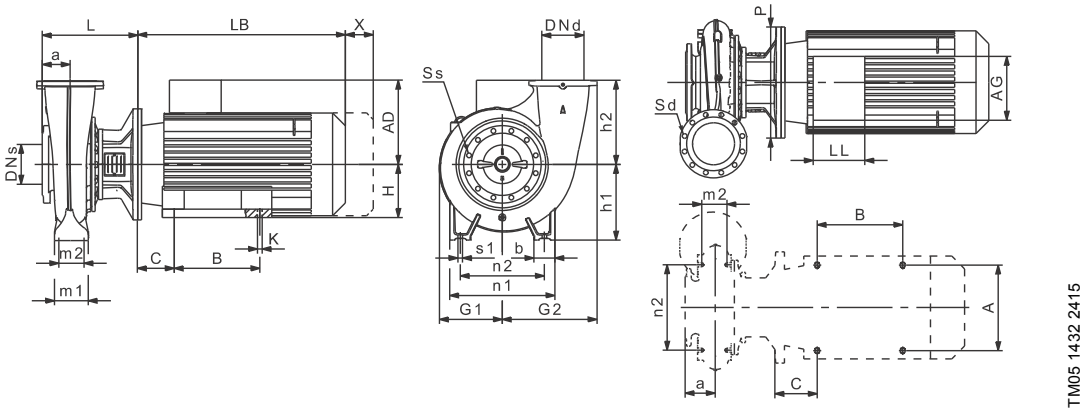


TM04 5969 3414

8. Dimensional drawings and technical data

Dimensional drawings, NBG

Mounting design C2, tangential outlet



Technical data, NBG

Standard motors in this table are IE3 motors:

- 4-pole: pump with Siemens motor.
- 6-pole: pump with Siemens motor.

50 Hz

Pump size	Poles	P2 [kW]	Actual impeller size	Mounting design	Flanges					NBG dimensions [mm]																							
					PN	DNs	DNd	Ss	Sd	a	A	AD	AG	b	B	C	h1	h2	H	G1	G2	K	L CI	L SS	LB	LL	m1	m2	n1	n2	P	s1	X[1]
300-250-350	4	37	266	C2	16	300	250	12x28	12x28	180	356	338	266	125	286	149	450	400	225	379	523	19	566	-	648	197	200	150	625	500	450	20	180
		45	294	C2	16	300	250	12x28	12x28	180	356	338	266	125	286	149	450	400	225	379	523	19	566	-	708	197	200	150	625	500	450	20	180
		55	318	C2	16	300	250	12x28	12x28	180	406	410	319	125	349	168	450	400	250	379	523	24	566	-	747	233	200	150	625	500	550	20	180
		75	362	C2	16	300	250	12x28	12x28	180	457	433	319	125	368	190	450	400	280	379	523	24	566	-	820	233	200	150	625	500	550	20	180
		90	370	C2	16	300	250	12x28	12x28	180	457	433	319	125	368	190	450	400	280	379	523	24	566	-	930	233	200	150	625	500	550	20	180
	6	11	277	C2	16	300	250	12x28	12x28	180	254	237	175	125	254	108	450	400	160	379	523	15	536	-	554	145	200	150	625	500	350	20	180
		15	306	C2	16	300	250	12x28	12x28	180	279	286	189	125	241	121	450	400	180	379	523	15	536	-	588	164	200	150	625	500	350	20	180
		18.5	330	C2	16	300	250	12x28	12x28	180	318	315	265	125	305	133	450	400	200	379	523	19	536	-	611	197	200	150	625	500	400	20	180
		22	366	C2	16	300	250	12x28	12x28	180	318	315	265	125	305	133	450	400	200	379	523	19	536	-	636	197	200	150	625	500	400	20	180
300-250-400	4	45	281	C2	16	300	250	12x28	12x28	160	356	338	266	125	286	149	450	500	225	350	498	19	518	-	708	197	200	150	625	500	450	20	180
		55	301	C2	16	300	250	12x28	12x28	160	406	410	319	125	349	168	450	500	250	350	498	24	518	-	747	233	200	150	625	500	550	20	180
		75	329	C2	16	300	250	12x28	12x28	160	457	433	319	125	368	190	450	500	280	350	498	24	518	-	820	233	200	150	625	500	550	20	180
		90	349	C2	16	300	250	12x28	12x28	160	457	433	319	125	368	190	450	500	280	350	498	24	518	-	930	233	200	150	625	500	550	20	180
		110	365	C2	16	300	250	12x28	12x28	160	508	515	374	125	406	216	450	500	315	350	498	28	548	-	912	299	200	150	625	500	660	20	180
		132	385	C2	16	300	250	12x28	12x28	160	508	515	374	125	457	216	450	500	315	350	498	28	548	-	1077	299	200	150	625	500	660	20	180
		160	405	C2	16	300	250	12x28	12x28	160	508	515	374	125	457	216	450	500	315	350	498	28	548	-	1077	299	200	150	625	500	660	20	180
	6	15	289	C2	16	300	250	12x28	12x28	160	279	286	189	125	241	121	450	500	180	350	498	15	488	-	588	164	200	150	625	500	350	20	180
		18.5	313	C2	16	300	250	12x28	12x28	160	318	315	265	125	305	133	450	500	200	350	498	19	488	-	611	197	200	150	625	500	400	20	180
		22	329	C2	16	300	250	12x28	12x28	160	318	315	265	125	305	133	450	500	200	350	498	19	488	-	636	197	200	150	625	500	400	20	180
		30	361	C2	16	300	250	12x28	12x28	160	356	338	266	125	286	149	450	500	225	350	498	19	518	-	708	197	200	150	625	500	450	20	180
		37	381	C2	16	300	250	12x28	12x28	160	406	410	319	125	349	168	450	500	250	350	498	24	518	-	747	233	200	150	625	500	550	20	180
		45	401	C2	16	300	250	12x28	12x28	160	457	433	319	125	368	190	450	500	280	350	498	24	518	-	820	233	200	150	625	500	550	20	180
300-250-500	4	160	417	C2	16	300	250	12x28	12x28	165	508	515	374	125	457	216	450	500	315	441	598	28	574	-	1077	299	200	150	725	600	660	20	180
		200	445	C2	16	300	250	12x28	12x28	165	508	515	374	125	457	216	450	500	315	441	598	28	574	-	1232	299	200	150	725	600	660	20	180
	6	45	409	C2	16	300	250	12x28	12x28	165	457	433	319	125	368	190	450	500	280	441	598	24	549	-	820	233	200	150	725	600	550	20	180
		55	437	C2	16	300	250	12x28	12x28	165	457	433	319	125	368	190	450	500	280	441	598	24	549	-	820	233	200	150	725	600	550	20	180
		75	485	C2	16	300	250	12x28	12x28	165	508	515	374	125	406	216	450	500	315	441	598	28	574	-	912	299	200	150	725	600	660	20	180
		90	525	C2	16	300	250	12x28	12x28	165	508	515	374	125	457	216	450	500	315	441	598	28	574	-	1077	299	200	150	725	600	660	20	180

[1] X: Service dimension.

60 Hz

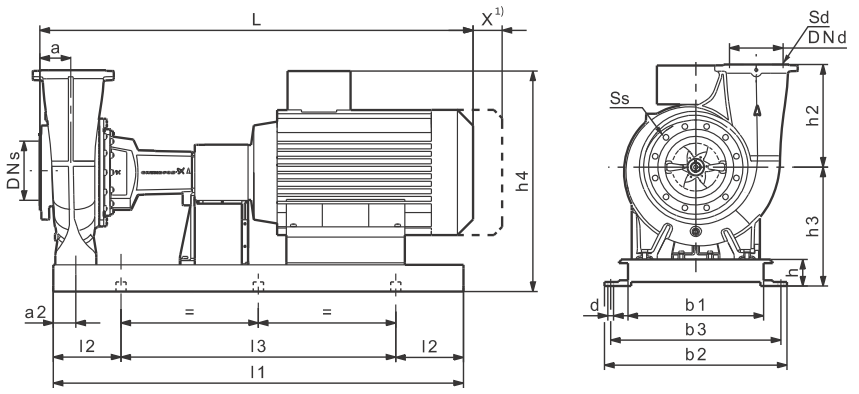
Pump size	Poles	P2 [kW]	Actual impeller size	Mounting design	Flanges					NBG dimensions [mm]																								
					PN	DNs	DNd	Ss	Sd	a	A	AD	AG	b	B	C	h1	h2	H	G1	G2	K	L CI	L SS	LB	LL	m1	m2	n1	n2	P	s1	X[1]
300-250-350	4	75	282	C2	16	300	250	12x28	12x28	180	457	433/-	319/-	125	368	190	450	400	280	379	523	24	566	-	820/-	233/-	200	150	625	500	550	20	180
		90	302	C2	16	300	250	12x28	12x28	180	457	433/-	319/-	125	368	190	450	400	280	379	523	24	566	-	930/-	233/-	200	150	625	500	550	20	180
		110	326	C2	16	300	250	12x28	12x23	180	508	515/-	374/-	125	406	216	450	400	315	379	523	28	596	-	912/-	299/-	200	150	625	500	660	20	180
		132	362	C2	16	300	250	12x28	12x28	180	508	515/-	374/-	125	457	216	450	400	315	379	523	28	596	-	1077/-	299/-	200	150	625	500	660	20	180
	6	22	282	C2	16	300	250	12x28	12x28	180	318	315/-	265/-	125	305	133	450	400	200	379	523	19	536	-	636/-	197/-	200	150	625	500	400	20	180
		30	322	C2	16	300	250	12x28	12x28	180	356	338/-	266/-	125	286	149	450	400	225	379	523	19	566	-	708/-	197/-	200	150	625	500	450	20	180
		37	354	C2	16	300	250	12x28	12x28	180	406	410/-	319/-	125	349	168	450	400	250	379	523	24	566	-	747/-	233/-	200	150	625	500	550	20	180
		45	370	C2	16	300	250	12x28	12x28	180	457	433/-	319/-	125	368	190	450	400	280	379	523	24	566	-	820/-	233/-	200	150	625	500	550	20	180
300-250-400	4	75	277	C2	16	300	250	12x28	12x28	160	457	433/-	319/-	125	368	190	450	500	280	350	498	24	518	-	820/-	233/-	200	150	625	500	550	20	180
		90	297	C2	16	300	250	12x28	12x28	160	457	433/-	319/-	125	368	190	450	500	280	350	498	24	518	-	930/-	233/-	200	150	625	500	550	20	180
		110	313	C2	16	300	250	12x28	12x28	160	508	515/-	374/-	125	406	216	450	500	315	350	498	28	548	-	912/-	299/-	200	150	625	500	660	20	180
		132	325	C2	16	300	250	12x28	12x28	160	508	515/-	374/-	125	457	216	450	500	315	350	498	28	548	-	1077/-	299/-	200	150	625	500	660	20	180
		160	349	C2	16	300	250	12x28	12x28	160	508	515/-	374/-	125	457	216	450	500	315	350	498	28	548	-	1077/-	299/-	200	150	625	500	660	20	180
		200	373	C2	16	300	250	12x28	12x28	160	508	515/-	374/-	125	457	216	450	500	315	350	498	28	548	-	1232/-	299/-	200	150	625	500	660	20	180
	6	30	305	C2	16	300	250	12x28	12x28	160	356	338/-	266/-	125	286	149	450	500	225	350	498	19	518	-	708/-	197/-	200	150	625	500	450	20	180
		37	321	C2	16	300	250	12x28	12x28	160	406	410/-	319/-	125	349	168	450	500	250	350	498	24	518	-	747/-	233/-	200	150	625	500	550	20	180
		45	345	C2	16	300	250	12x28	12x28	160	457	433/-	319/-	125	368	190	450	500	280	350	498	24	518	-	820/-	233/-	200	150	625	500	550	20	180
		55	361	C2	16	300	250	12x28	12x28	160	457	433/-	319/-	125	368	190	450	500	280	350	498	24	518	-	820/-	233/-	200	150	625	500	550	20	180
		75	393	C2	16	300	250	12x28	12x28	160	508	515/-	374/-	125	406	216	450	500	315	350	498	28	548	-	912/-	299/-	200	150	625	500	660	20	180
		90	405	C2	16	300	250	12x28	12x28	160	508	515/-	374/-	125	457	216	450	500	315	350	498	28	548	-	1077/-	299/-	200	150	625	500	660	20	180
300-250-500	6	75	405	C2	16	300	250	12x28	12x28	165	508	515/-	374/-	125	406	216	450	500	315	441	598	28	574	-	912/-	299/-	200	150	725	600	660	20	180
		90	425	C2	16	300	250	12x28	12x28	165	508	515/-	374/-	125	457	216	450	500	315	441	598	28	574	-	1077/-	299/-	200	150	725	600	660	20	180
		110	453	C2	16	300	250	12x28	12x28	165	508	515/-	374/-	125	457	216	450	500	315	441	598	28	574	-	1077/-	299/-	200	150	725	600	660	20	180
		132	497	C2	16	300	250	12x28	12x28	165	508	515/-	374/-	125	457	216	450	500	315	441	598	28	574	-	1232/-	299/-	200	150	725	600	660	20	180
		160	525	C2	16	300	250	12x28	12x28	165	-	-/-	-/-	125	-	-	450	500	-	441	598	-	574	-	-/-	-/-	200	150	725	600	-	20	180

[1] X: Service dimension.

Note: Base frames for NBG pumps are available as part of the pump configuration. Please contact your local Grundfos sales company for specifications.

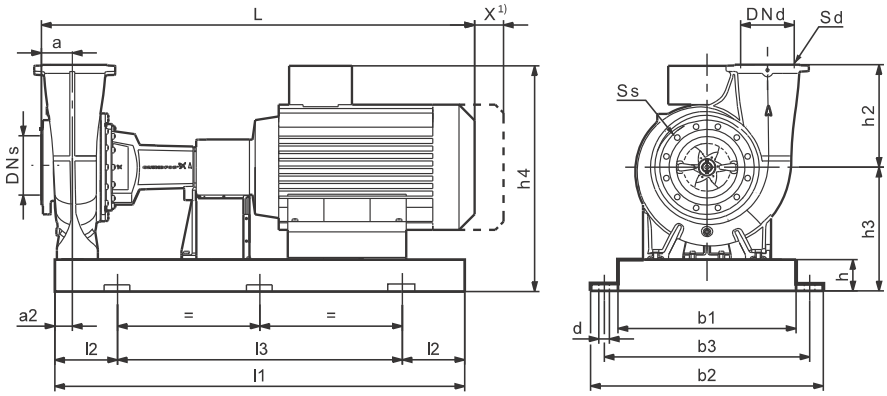
Dimensional drawings, NKG

C-channel base frame, tangential outlet



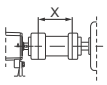
TM04 6113 2415

EN/ISO base frame, tangential outlet



TM03 6005 2415

[1] X: Service dimension. This dimension,which equals to the length of the spacer coupling, can be found in section *5. NKG bare shaft pumps*.



Technical data, NKG

Standard motors in this table are IE3 motors:

- 4-pole: pump with Siemens motor.
- 6-pole: pump with Siemens motor.

50 Hz

Pump size	Poles	P2 [kW]	Actual impeller size	Flanges					NKG dimensions [mm]														L[1]		Base frame No[1, 2]	
				PN	DNs	DNd	Ss	Sd	a	a2	b1	b2	b3	d	h	h2	h3	h4	l1[1]	l2[1]	l3[1]	NKG	NKGE	EN/ISO	C-channel
300-250-350	4	37	266	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	918	1690/1880	330/330	1030/1220	1711/1887	-/-	10E/10F	50/50s
		45	294	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	918	1690/1880	330/330	1030/1220	1771/1947	-/-	10E/10F	50/50s
		55	318	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	990	1690/1880	330/330	1030/1220	1810/1986	-/-	10E/10F	58/58s
		75	362	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	1013	1880/2110	330/330	1220/1450	1883/2059	-/-	10F/10D	66/66s
		90	370	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	1013	1880/2110	330/330	1220/1450	1993/2169	-/-	10F/10D	66/66s
	6	11	277	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	817	1690/1690	330/330	1030/1030	1587/1763	-/-	10E/10E	26/26s
		15	306	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	866	1690/1690	330/330	1030/1030	1621/1797	-/-	10E/10E	40/40s
		18.5	330	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	895	1690/1880	330/330	1030/1220	1644/1820	-/-	10E/10F	47/47s
		22	366	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	895	1690/1880	330/330	1030/1220	1669/1845	-/-	10E/10F	47/47s
300-250-400	4	45	281	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	918	1690/1880	330/330	1030/1220	1726/1902	-/-	10E/10F	50/50s
		55	301	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	990	1690/1880	330/330	1030/1220	1765/1941	-/-	10E/10F	58/58s
		75	329	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1013	1880/2110	330/330	1220/1450	1838/2014	-/-	10F/10D	66/66s
		90	349	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1013	1880/2110	330/330	1220/1450	1948/2124	-/-	10F/10D	66/66s
		110	365	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1100	1880/2110	330/330	1220/1450	1960/2136	-/-	10F/10D	78/78s
		132	385	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1100	1880/2110	330/330	1220/1450	2125/2301	-/-	10F/10D	83/83s
		160	405	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1100	1880/2110	330/330	1220/1450	2125/2301	-/-	10F/10D	83/83s
	6	15	289	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	866	1690/1690	330/330	1030/1030	1576/1752	-/-	10E/10E	40/40s
		18.5	313	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	895	1690/1880	330/330	1030/1220	1599/1775	-/-	10E/10F	47/47s
		22	329	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	895	1690/1880	330/330	1030/1220	1624/1800	-/-	10E/10F	47/47s
		30	361	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	918	1690/1880	330/330	1030/1220	1726/1902	-/-	10E/10F	50/50s
		37	381	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	990	1690/1880	330/330	1030/1220	1765/1941	-/-	10E/10F	58/58s
		45	401	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1013	1880/2110	330/330	1220/1450	1838/2014	-/-	10F/10D	66/66s
300-250-500	4	160	417	16	300	250	12x28	12x28	165	110	730	890	830	28	130	500	580	1100	1880/2110	330/330	1220/1450	2125/2301	-/-	10F/10D	83/83s
		200	445	16	300	250	12x28	12x28	165	110	730	890	830	28	130	500	580	1100	1880/2110	330/330	1220/1450	2280/2456	-/-	10F/10D	83/83s
		250	485	16	300	250	12x28	12x28	165	110	730	890	830	28	130	500	580	1080	1880/2110	330/330	1220/1450	2280/2456	-/-	10F/10D	98/98s
		315	525	16	300	250	12x28	12x28	165	110	730	890	830	28	130	500	580	1080	1880/2110	330/330	1220/1450	2400/2525	-/-	10F/10D	98/98s
	6	45	409	16	300	250	12x28	12x28	165	110	730	890	830	28	130	500	580	1013	1690/2110	330/330	1030/1450	1838/2014	-/-	10E/10D	66/66s
		55	437	16	300	250	12x28	12x28	165	110	730	890	830	28	130	500	580	1013	1880/2110	330/330	1220/1450	1728/1904	-/-	10F/10D	66/66s
		75	485	16	300	250	12x28	12x28	165	110	730	890	830	28	130	500	580	1100	1880/2110	330/330	1220/1450	1960/2136	-/-	10F/10D	78/78s
		90	525	16	300	250	12x28	12x28	165	110	730	890	830	28	130	500	580	1100	1880/2110	330/330	1220/1450	2125/2301	-/-	10F/10D	83/83s

1 Pump with standard coupling or pump with spacer coupling.

2 EN/ISO base frame, see section *NKG with EN/ISO base frames, dimensional sketches* on page 30. C-channel base frame, see section *NKG with C-channel base frames, dimensional sketches* on page 30.

60 Hz

Pump size	Poles	P2 [kW]	Actual impeller size	Flanges					NKG dimensions [mm]															L[1]		Base frame No[1, 2]	
				PN	DNs	DNd	Ss	Sd	a	a2	b1	b2	b3	d	h	h2	h3	h4	l1[1]	l2[1]	l3[1]	NKG	NKGE	EN/ISO	C- channel
300-250-350	4	75	282	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	1013/-	1880/2110	330/330	1220/1450	1883/2059	-/-	10F/10D	66/66s
		90	302	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	1013/-	1880/2110	330/330	1220/1450	1993/2169	-/-	10F/10D	66/66s
		110	326	16	300	250	12x28	12x23	180	110	730	890	830	28	130	400	580	1100/-	1880/2110	330/330	1220/1450	2005/2181	-/-	10F/10D	83/83s
		132	362	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	1100/-	1880/2110	330/330	1220/1450	2170/2346	-/-	10F/10D	83/83s
	6	22	282	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	895/-	1690/1880	330/330	1030/1220	1669/1845	-/-	10E/10F	47/47s
		30	322	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	918/-	1690/1880	330/330	1030/1220	1771/1947	-/-	10E/10F	50/50s
		37	354	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	990/-	1690/1880	330/330	1030/1220	1810/1986	-/-	10E/10F	58/58s
		45	370	16	300	250	12x28	12x28	180	110	730	890	830	28	130	400	580	1013/-	1880/2110	330/330	1220/1450	1883/2059	-/-	10F/10D	66/66s
300-250-400	4	75	277	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1013/-	1880/2110	330/330	1220/1450	1838/2014	-/-	10F/10D	66/66s
		90	297	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1013/-	1880/2110	330/330	1220/1450	1948/2124	-/-	10F/10D	66/66s
		110	313	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1100/-	1880/2110	330/330	1220/1450	1960/2136	-/-	10F/10D	78/78s
		132	325	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1100/-	1880/2110	330/330	1220/1450	2125/2301	-/-	10F/10D	83/83s
		160	349	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1100/-	1880/2110	330/330	1220/1450	2125/2301	-/-	10F/10D	83/83s
		200	373	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1100/-	1880/2110	330/330	1220/1450	2280/2456	-/-	10F/10D	83/83s
		288	405	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1080/-	2110/2290	330/330	1450/1630	2280/2456	-/-	10D/10G	98/98s
	6	30	305	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	918/-	1690/1880	330/330	1030/1220	1726/1902	-/-	10E/10F	50/50s
		37	321	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	990/-	1690/1880	330/330	1030/1220	1765/1941	-/-	10E/10F	58/58s
		45	345	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1013/-	1880/2110	330/330	1220/1450	1838/2014	-/-	10F/10D	66/66s
		55	361	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1013/-	1880/2110	330/330	1220/1450	1728/1904	-/-	10F/10D	66/66s
		75	393	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1100/-	1880/2110	330/330	1220/1450	1960/2136	-/-	10F/10D	78/78s
		90	405	16	300	250	12x28	12x28	160	110	730	890	830	28	130	500	580	1100/-	1880/2110	330/330	1220/1450	2125/2301	-/-	10F/10D	83/83s
300-250-500	4	288	421	16	300	250	12x28	12x28	165	110	730	890	830	28	130	500	580	1080/-	1880/2110	330/330	1220/1450	2280/2456	-/-	10F/10D	98/98s
		362	453	16	300	250	12x28	12x28	165	110	730	890	830	28	130	500	580	1080/-	1880/2110	330/330	1220/1450	2424/2600	-/-	10F/10D	98/98s
		408	477	16	300	250	12x28	12x28	165	110	800	960	900	28	130	500	580	1073/-	2460	225	2010	2513/2689	-/-	-	109/109s
		460	505	16	300	250	12x28	12x28	165	110	800	960	900	28	130	500	580	1073/-	2460	225	2010	2513/2689	-/-	-	109/109s
	6	75	405	16	300	250	12x28	12x28	165	110	730	890	830	28	130	500	580	1100/-	1880/2110	330/330	1220/1450	1960/2136	-/-	10F/10D	78/78s
		90	425	16	300	250	12x28	12x28	165	110	730	890	830	28	130	500	580	1100/-	1880/2110	330/330	1220/1450	2125/2301	-/-	10F/10D	83/83s
		110	453	16	300	250	12x28	12x28	165	110	730	890	830	28	130	500	580	1100/-	1880/2110	330/330	1220/1450	2125/2301	-/-	10F/10D	83/83s
		132	497	16	300	250	12x28	12x28	165	110	730	890	830	28	130	500	580	1100/-	1880/2110	330/330	1220/1450	2280/2456	-/-	10F/10D	83/83s
		160	525	16	300	250	12x28	12x28	165	110	730	890	830	28	130	500	580	1080/-	2110/2110	330/330	1450/1450	2280/2456	-/-	10D/10D	83/83s

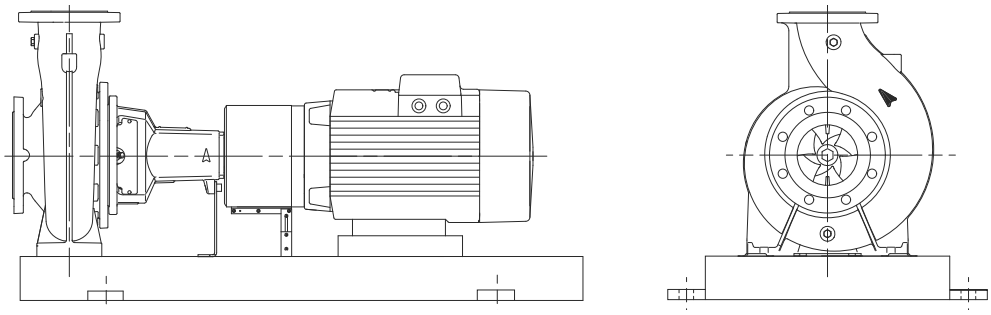
1 Pump with standard coupling or pump with spacer coupling.

2 EN/ISO base frame, see section *NKG with EN/ISO base frames, dimensional sketches* on page 30. C-channel base frame, see section *NKG with C-channel base frames, dimensional sketches* on page 30.

9. Base frames

NKG base frames

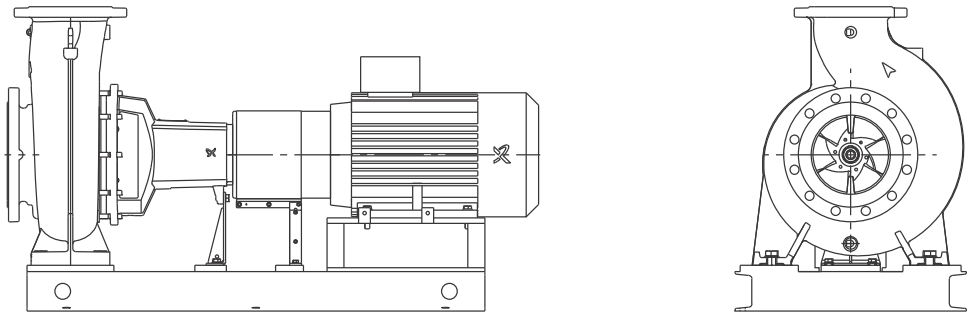
The EN/ISO base frame number is stated for each pump mentioned in section *8. Dimensional drawings and technical data*.



TM05 1513 2711

Fig. 3 NKG pump with EN/ISO base frame

The C-channel base frame number is stated for each pump mentioned in *NKG with C-channel base frames, dimensional sketches*, see page 30.

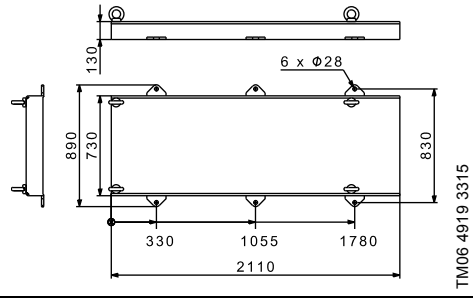
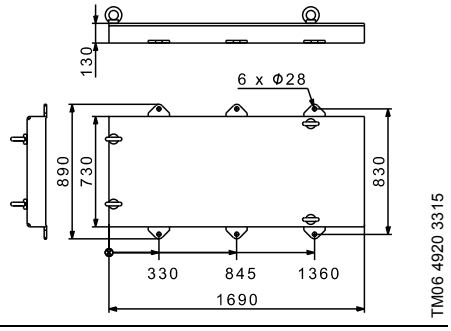
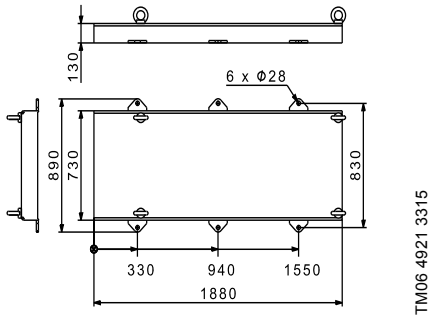
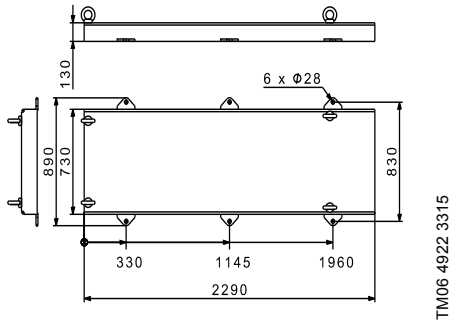


TM05 9293 3713

Fig. 4 NKG pump with C-channel base frame

NKG with EN/ISO base frames, dimensional sketches

The EN/ISO base frame number is stated for each pump mentioned in section *8. Dimensional drawings and technical data*.

Base frame number	Dimensions [mm]
10D	
10E	
10F	
10G	

NKG with C-channel base frames, dimensional sketches

C-channel base frame with six mounting holes

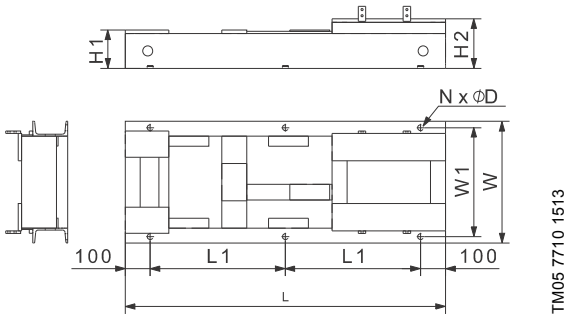


Fig. 5 C-channel base frame with six mounting holes

Base frame number	Dimensions [mm]							
	L	L1	W	W1	H1	H2	N	D
26	1350	575	636	593	116	406	6	19
26s	1526	663	636	593	116	406	6	19
40	1403	601.5	660	610	156	426	6	24
40s	1579	689.5	660	610	156	426	6	24
47	1438	619	660	608	156	406	6	24
47s	1614	707	660	608	156	406	6	24
50	1504	652	660	608	156	381	6	24
50s	1680	740	660	608	156	381	6	24
58	1568	684	780	719	196	396	6	28
58s	1744	772	780	719	196	396	6	28
66	1700	750	780	719	196	366	6	28
66s	1876	838	780	719	196	366	6	28
78	1710	755	780	719	196	331	6	28
78s	1886	843	780	719	196	331	6	28
83	1900	850	780	719	196	331	6	28
98	1900	850	790	729	196	331	6	28

C-channel base frame with eight mounting holes

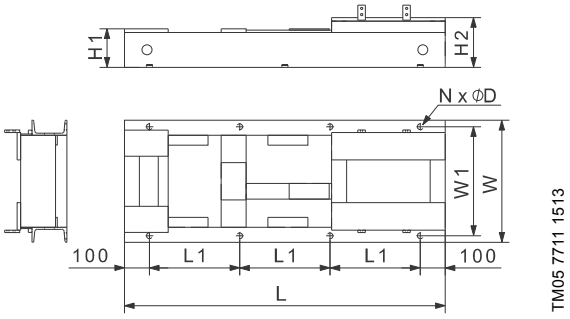
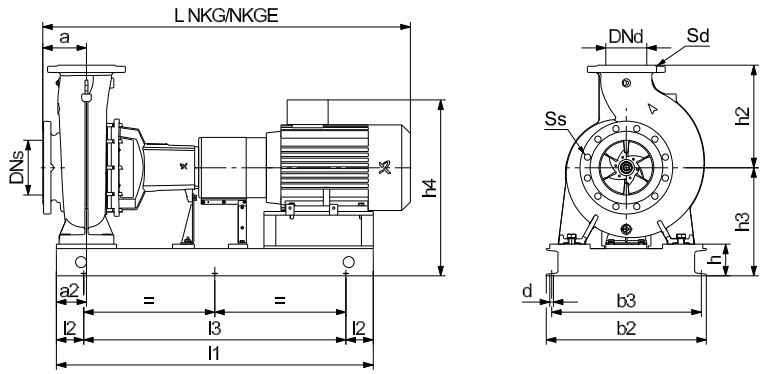


Fig. 6 C-channel base frame with eight mounting holes

Base frame number	Dimensions [mm]							
	L	L1	W	W1	H1	H2	N	D
83s	2076	625	780	719	196	331	8	28
98s	2075	625	790	729	196	331	8	28
109	2090	630	840	779	196	291	8	28
109s	2270	690	840	779	196	291	8	28

NKG pump dimensions with C-channel base frames



TM05 7707 1513

Fig. 7 NKG pump with C-channel base frame

4-pole, 50 Hz

Pump type	Motor data							Base frame number[1]	Dimensions [mm]									
	P2 [kW]	Frame size	Make						a2	l1[1]	l2	l3[1]	b2[1]	b3[1]	d	h	h3	h4[2]
			MG	Siemens	MMG-E	MMG-G	MMG-H											
300-250-350	37	225S	-	●	●	●	●	50/50s	110	1504/1680	100	1304/1480	660/660	608/608	24	156	606	931
	45	225M	-	●	●	●	●	50/50s	110	1504/1680	100	1304/1480	660/660	608/608	24	156	606	931
	55	250M	-	●	●	●	●	58/58s	110	1568/1744	100	1368/1544	780/780	719/719	28	196	646	1038
	75	280S	-	●	●	●	●	66/66s	110	1700/1876	100	1500/1676	780/780	719/719	28	196	646	1078
	90	280M	-	●	●	●	●	66/66s	110	1700/1876	100	1500/1676	780/780	719/719	28	196	646	1078
300-250-400	45	225M	-	●	●	●	●	50/50s	110	1504/1680	100	1304/1480	660/660	608/608	24	156	606	931
	55	250M	-	●	●	●	●	58/58s	110	1568/1744	100	1368/1544	780/780	719/719	28	196	646	1038
	75	280S	-	●	●	●	●	66/66s	110	1700/1876	100	1500/1676	780/780	719/719	28	196	646	1078
	90	280M	-	●	●	●	●	66/66s	110	1700/1876	100	1500/1676	780/780	719/719	28	196	646	1078
	110	315S	-	●	●	●	●	78/78s	110	1710/1886	100	1510/1686	780/780	719/719	28	196	646	1141
	132	315M	-	●	●	●	●	83/83s	110	1900/2076	100	1700/1875	780/780	719/719	28	196	646	1141
	160	315L	-	●	●	●	●	83/83s	110	1900/2076	100	1700/1875	780/780	719/719	28	196	646	1141
300-250-500	160	315L	-	●	●	●	●	83/83s	110	1900/2076	100	1700/1875	780/780	719/719	28	196	646	1141
	200	315L	-	●	●	●	●	83/83s	110	1900/2076	100	1700/1875	780/780	719/719	28	196	646	1141
	250	315	-	●	●	●	-	98/98s	110	1900/2075	100	1700/1875	790/790	729/729	28	196	646	1114
	315	315	-	●	●	●	-	98/98s	110	1900/2075	100	1700/1875	790/790	729/729	28	196	646	1114

1 Pump with standard coupling or pump with spacer coupling.

2 Pump with Siemens motor.

6-pole, 50 Hz

Pump type	Motor data							Base frame number[1]	Dimensions [mm]									
	P2 [kW]	Frame size	Make						a2	l1[1]	l2	l3[1]	b2[1]	b3[1]	d	h	h3	h4[2]
			MG	Siemens	MMG-E	MMG-G	MMG-H											
300-250-350	11	160L	-	●	●	●	●	26/26s	110	1350/1526	100	1150/1326	636/636	593/593	19	116	566	763
	15	180L	-	●	●	●	●	40/40s	110	1403/1579	100	1203/1379	660/660	610/610	24	156	606	864
	18.5	200L	-	●	●	●	●	47/47s	110	1438/1614	100	1238/1414	660/660	608/608	24	156	606	911
	22	200L	-	●	●	●	●	47/47s	110	1438/1614	100	1238/1414	660/660	608/608	24	156	606	911
300-250-400	15	180L	-	●	●	●	●	40/40s	110	1403/1579	100	1203/1379	660/660	610/610	24	156	606	864
	18.5	200L	-	●	●	●	●	47/47s	110	1438/1614	100	1238/1414	660/660	608/608	24	156	606	911
	22	200L	-	●	●	●	●	47/47s	110	1438/1614	100	1238/1414	660/660	608/608	24	156	606	911
	30	225M	-	●	●	●	●	50/50s	110	1504/1680	100	1304/1480	660/660	608/608	24	156	606	931
	37	250M	-	●	●	●	●	58/58s	110	1568/1744	100	1368/1544	780/780	719/719	28	196	646	1038
	45	280S	-	●	●	●	●	66/66s	110	1700/1876	100	1500/1676	780/780	719/719	28	196	646	1078
300-250-500	45	280S	-	●	●	●	●	66/66s	110	1700/1876	100	1500/1676	780/780	719/719	28	196	646	1078
	55	280M	-	●	●	●	●	66/66s	110	1700/1876	100	1500/1676	780/780	719/719	28	196	646	1078
	75	315S	-	●	●	●	●	78/78s	110	1710/1886	100	1510/1686	780/780	719/719	28	196	646	1141
	90	315M	-	●	●	●	●	83/83s	110	1900/2076	100	1700/1875	780/780	719/719	28	196	646	1141

1 Pump with standard coupling or pump with spacer coupling.

2 Pump with Siemens motor.

4-pole, 60 Hz

Pump type	Motor data							Base frame number[1]	Dimensions [mm]										
	P2 [kW]	Frame size	Make						a2	l1[1]	l2	l3[1]	b2[1]	b3[1]	d	h	h3	h4[2]
			MG	Siemens	MMG-E	MMG-G	MMG-H											
300-250-350	75	280S	-	●	●	●	●	66/66s	110	1700/1876	100	1500/1676	780/780	719/719	28	196	646	1078
	90	280M	-	●	●	●	●	66/66s	110	1700/1876	100	1500/1676	780/780	719/719	28	196	646	1078
	110	315S	-	●	●	●	●	83/83s	110	1900/2076	100	1700/1875	780/780	719/719	28	196	646	1141
	132	315M	-	●	●	●	●	83/83s	110	1900/2076	100	1700/1875	780/780	719/719	28	196	646	1141
300-250-400	75	280S	-	●	●	●	●	66/66s	110	1700/1876	100	1500/1676	780/780	719/719	28	196	646	1078
	90	280M	-	●	●	●	●	66/66s	110	1700/1876	100	1500/1676	780/780	719/719	28	196	646	1078
	110	315S	-	●	●	●	●	78/78s	110	1710/1886	100	1510/1686	780/780	719/719	28	196	646	1141
	132	315M	-	●	●	●	●	83/83s	110	1900/2076	100	1700/1875	780/780	719/719	28	196	646	1141
	160	315L	-	●	●	●	●	83/83s	110	1900/2076	100	1700/1875	780/780	719/719	28	196	646	1141
	200	315L	-	●	●	●	●	83/83s	110	1900/2076	100	1700/1875	780/780	719/719	28	196	646	1141
	288	315	-	●	●	●	●	98/98s	110	1900/2075	100	1700/1875	790/790	729/729	28	196	646	1114
300-250-500	288	315	-	●	●	●	●	98/98s	110	1900/2075	100	1700/1875	790/790	729/729	28	196	646	1114
	362	315	-	●	●	●	●	98/98s	110	1900/2075	100	1700/1875	790/790	729/729	28	196	646	1114
	408	355	-	●	●	●	●	109/109s	110	2090/2270	100	1890/2070	840/840	779/779	28	196	646	1187
	460	355	-	●	●	●	●	109/109s	110	2090/2270	100	1890/2070	840/840	779/779	28	196	646	1187

1 Pump with standard coupling or pump with spacer coupling.
2 Pump with Siemens motor.

6-pole, 60 Hz

Pump type	Motor data							Base frame number[1]	Dimensions [mm]										
	P2 [kW]	Frame size	Make						a2	l1[1]	l2	l3[1]	b2[1]	b3[1]	d	h	h3	h4[2]
			MG	Siemens	MMG-E	MMG-G	MMG-H											
300-250-350	22	200L	-	●	●	●	●	47/47s	110	1438/1614	100	1238/1414	660/660	608/608	24	156	606	911
	30	225M	-	●	●	●	●	50/50s	110	1504/1680	100	1304/1480	660/660	608/608	24	156	606	931
	37	250M	-	●	●	●	●	58/58s	110	1568/1744	100	1368/1544	780/780	719/719	28	196	646	1038
	45	280S	-	●	●	●	●	66/66s	110	1700/1876	100	1500/1676	780/780	719/719	28	196	646	1078
300-250-400	30	225M	-	●	●	●	●	50/50s	110	1504/1680	100	1304/1480	660/660	608/608	24	156	606	931
	37	250M	-	●	●	●	●	58/58s	110	1568/1744	100	1368/1544	780/780	719/719	28	196	646	1038
	45	280S	-	●	●	●	●	66/66s	110	1700/1876	100	1500/1676	780/780	719/719	28	196	646	1078
	55	280M	-	●	●	●	●	66/66s	110	1700/1876	100	1500/1676	780/780	719/719	28	196	646	1078
	75	315S	-	●	●	●	●	78/78s	110	1710/1886	100	1510/1686	780/780	719/719	28	196	646	1141
	90	315M	-	●	●	●	●	83/83s	110	1900/2076	100	1700/1875	780/780	719/719	28	196	646	1141
300-250-500	75	315S	-	●	●	●	●	78/78s	110	1710/1886	100	1510/1686	780/780	719/719	28	196	646	1141
	90	315M	-	●	●	●	●	83/83s	110	1900/2076	100	1700/1875	780/780	719/719	28	196	646	1141
	110	315L	-	●	●	●	●	83/83s	110	1900/2076	100	1700/1875	780/780	719/719	28	196	646	1141
	132	315L	-	●	●	●	●	83/83s	110	1900/2076	100	1700/1875	780/780	719/719	28	196	646	1141
	160	315L	-	●	●	●	●	83/83s	110	1900/2076	100	1700/1875	780/780	719/719	28	196	646	1146

1 Pump with standard coupling or pump with spacer coupling.
2 Pump with Siemens motor.

be think innovate

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