

EN ISO 9905

Standart

SNL

In-Line

Centrifugal Pumps



ATEX



SNL 00 04-12 EN

Liquids Handled

SNL type pumps are suitable for non-aggressive, non-explosive, clean or slightly contaminated liquids with low viscosity.

Technical Data

Suction Flange _____	: DN 40 up to 200 mm
Discharge Flange _____	: DN 40 up to 200 mm
Capacity _____	: up to 500 m ³ /h
Head _____	: up to 95 m
Speed _____	: up to 2900 rpm
Motor Rating _____	: up to 55 kW ⁺
Operating Temperature _____	: -10 °C up to 110 °C
Casing Pressure (Pmax) _____	: 16 Bar (Group A and B)* 10 Bar (Group C) *

(Pmax: Suction pressure + Shut off Head)

(+) Please contact our company for pumps with motor power over 55 kW.

(*) The material of pumps differs according to the type of pumped liquid, operating temperature and pressure. Contact our company for detailed information.

Applications

- Water supply systems
- Warm water heating, chilled and cooling water systems
- Water systems for industrial uses
- Industrial circulating systems
- Fire-fighting systems.

Pump Designation

Pump Type _____

Suction and Discharge Nozzles (DN-mm) _____

Nominal Impeller Diameter (mm) _____

Design Features

- Close-coupled, volute casing, single stage, in-line centrifugal pump with closed impeller.
- Suction and discharge flanges are conforming to EN 1092 - 2 / PN 16
- SNL type pumps are direct coupled with NORM electric motors comply with the VDI standards and IEC frame sizes.
- Due to back pull-out design the motor, motor pedestal, stuffing box cover and impeller can be dismantled without removing the volute casing from the pipe system.
- Axial thrust is balanced by wear ring/balancing holes system.

Bearings

- Pump shaft is supported by motor bearings.

Shaft Seal

- Single mechanical seal, flushed by pumped liquid, uncooled and unbalanced.

Rotation

- Direction of rotation is clockwise viewed from driver.

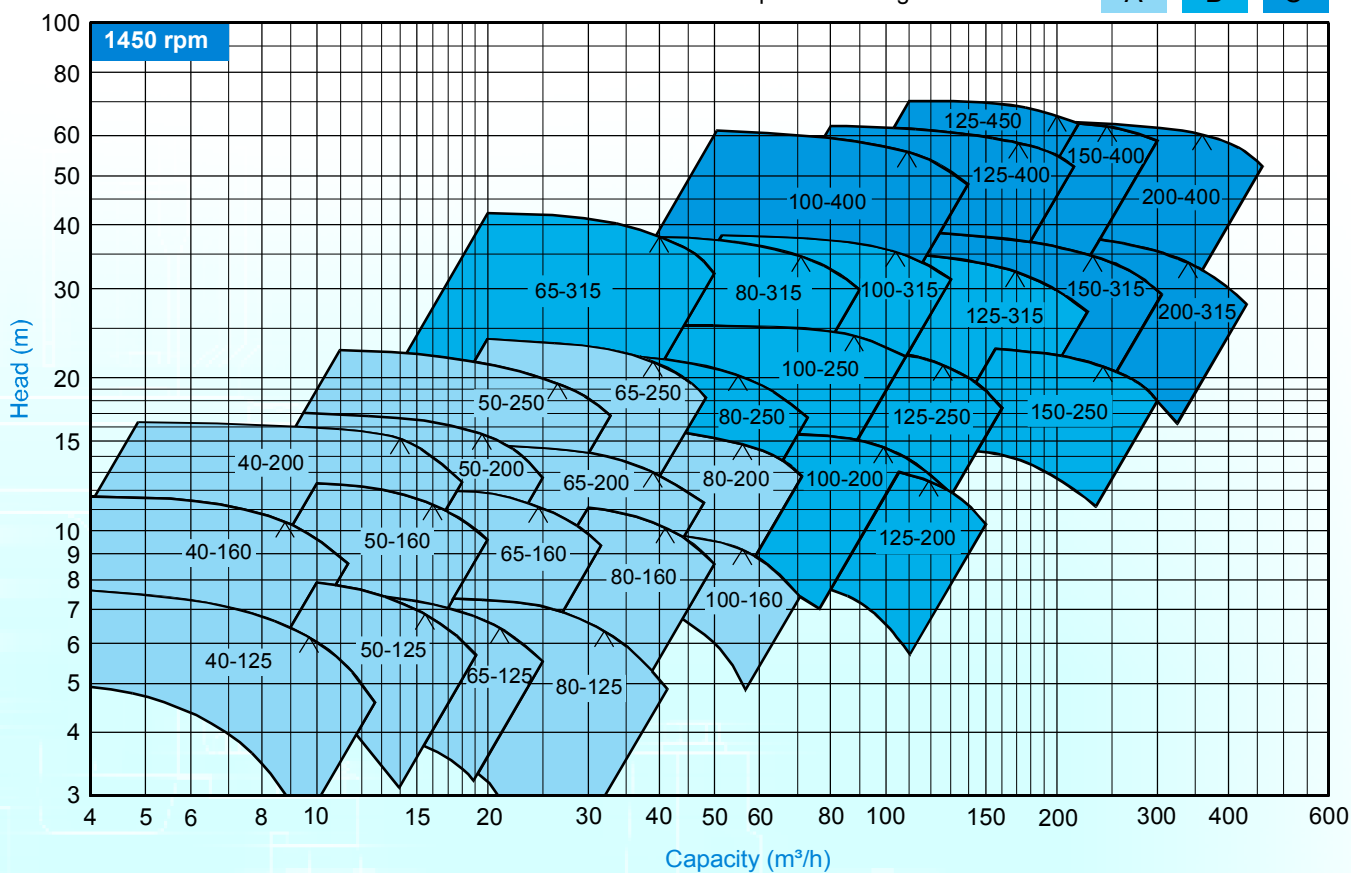
SNL 100 - 250

Grouped according to the shaft form

A

B

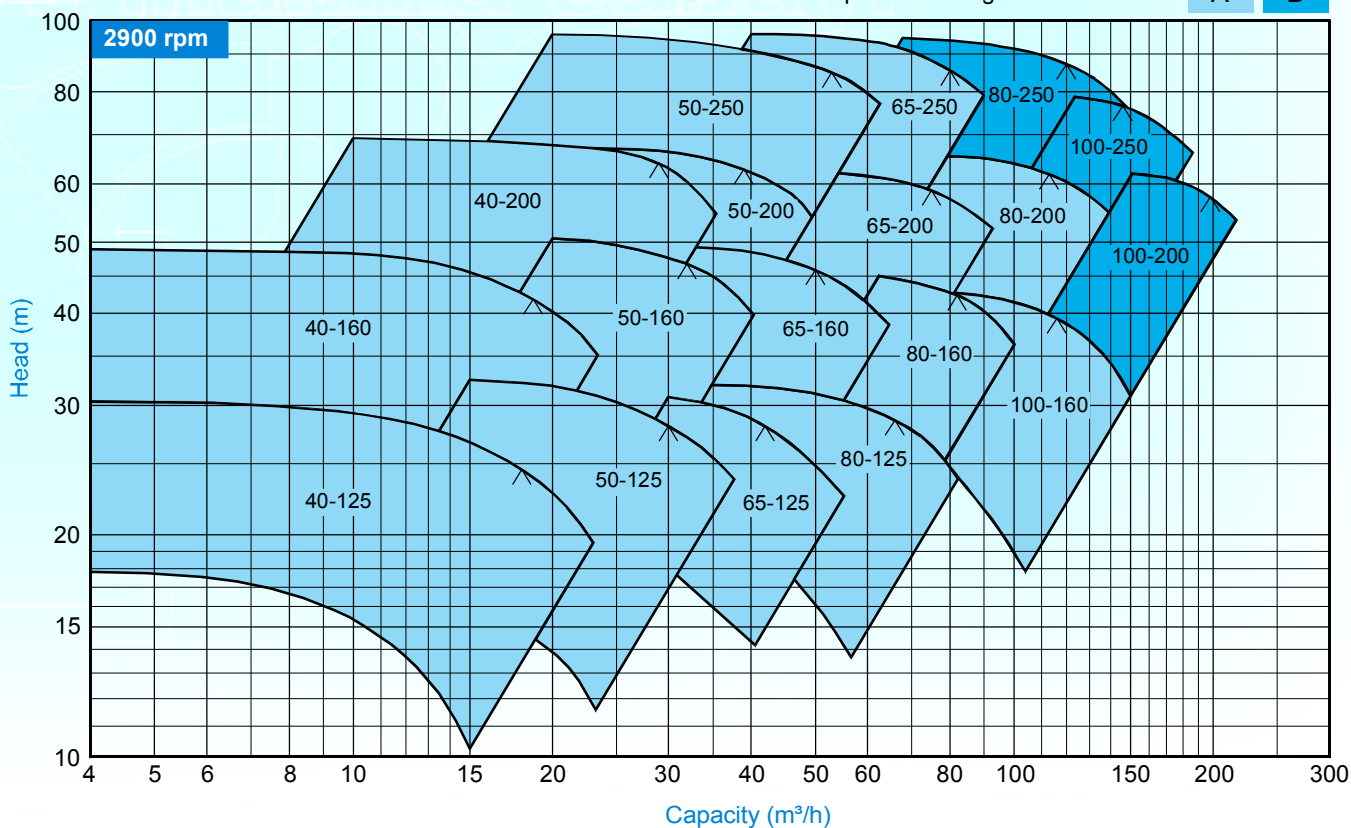
C

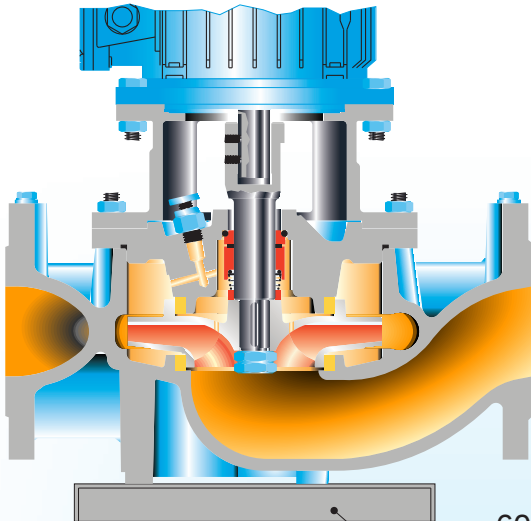


Grouped according to the shaft form

A

B



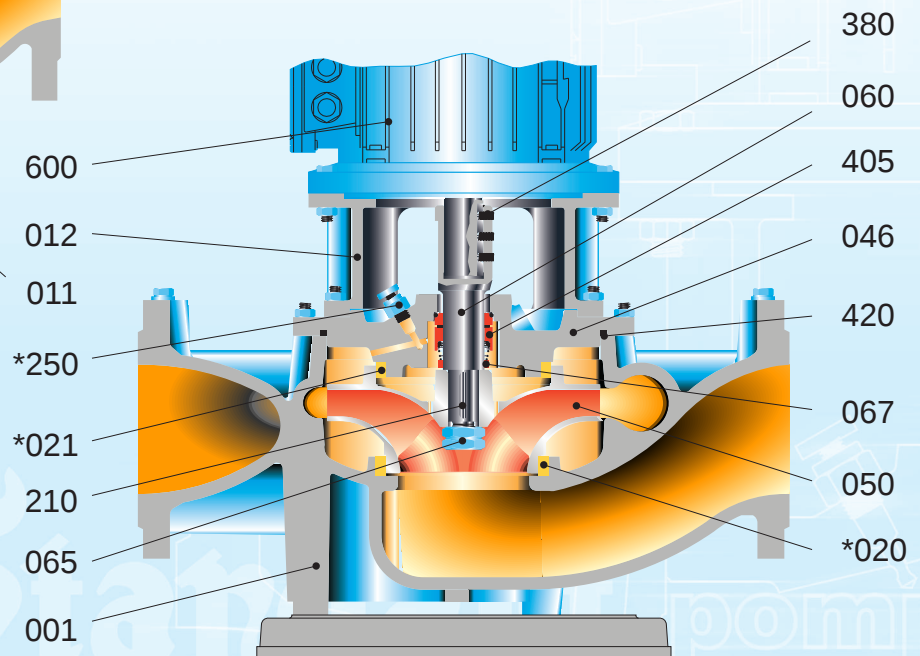


Design No: D1

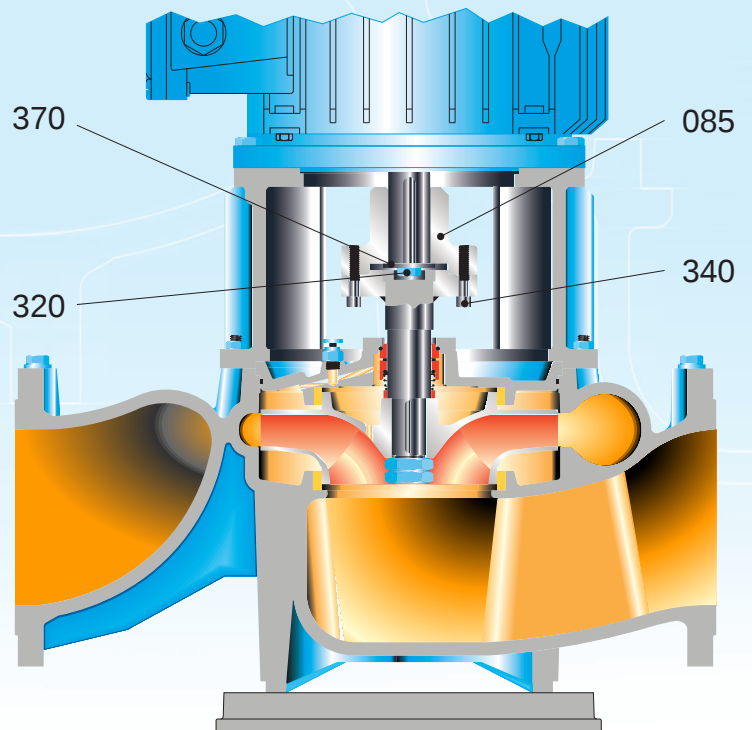
Parts List

- 001 — Volute Casing
- 011 — Base Plate (Foot)
- 012 — Motor Pedestal
- *020 — Wear Ring (Casing)
- *021 — Wear Ring (Casing cover)
- 046 — Casing Cover
- 050 — Impeller
- 060 — Pump Shaft
- 065 — Impeller Nut
- 067 — Spacer Sleeve
- 085 — Rigid Coupling
- 210 — Impeller Key
- *250 — Air Vent Screw
- 320 — Hex. Head Bolt
- 340 — Allen Bolt
- 370 — Washer
- 380 — Set-screw
- 405 — Mechanical Seal
- 420 — O-Ring
- 600 — Electric Motor

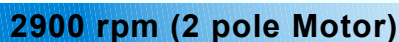
(*) Optional



Design No: D2



Design No: D3



Standart

2900 rpm (2 pole Motor)

PUMP TYPE	Design No	MOTOR		DNe/DNb mm	DIMENSIONS (mm)															Base** Plate	Weight* (kg)			
		kW	IEC		A	W	Lm*	L*	H	h1	h2	X	G	g1	g2	ABxAB	KxK	øS						
80-250	D2	22	180M	80	175	247	519	941	560	280	280	125	379	197	182	320	270	18	T3	190				
		30	200L			253	555	983				250												
		37	200L									140								310				
		45	225M																	625	1053	320		
		55	250M			283	644	1102				350												
100-160	D1	11	160M	100	158	239	476	873	475	250	225	140	292	162	130	260	220	14	T2	146				
		15	160M				476	873												185				
		18.5	160L				476	873												175				
		22	180M			247	519	924												201				
100-200	D1	22	180M	100	197	247	519	963												525	275	250	140	362
		30	200L			253	555	1013					251											
		37	200L				555	1013		305														
		45	225M				625	1083		335														
100-250	D2	37	200L	100	205	253	546	1004		580	300	280	140	384	206	178	320	270		18				
		45	225M				625	1083											326					
		55	250M			283	644	1132											346					

1450 rpm (4 pole Motor)

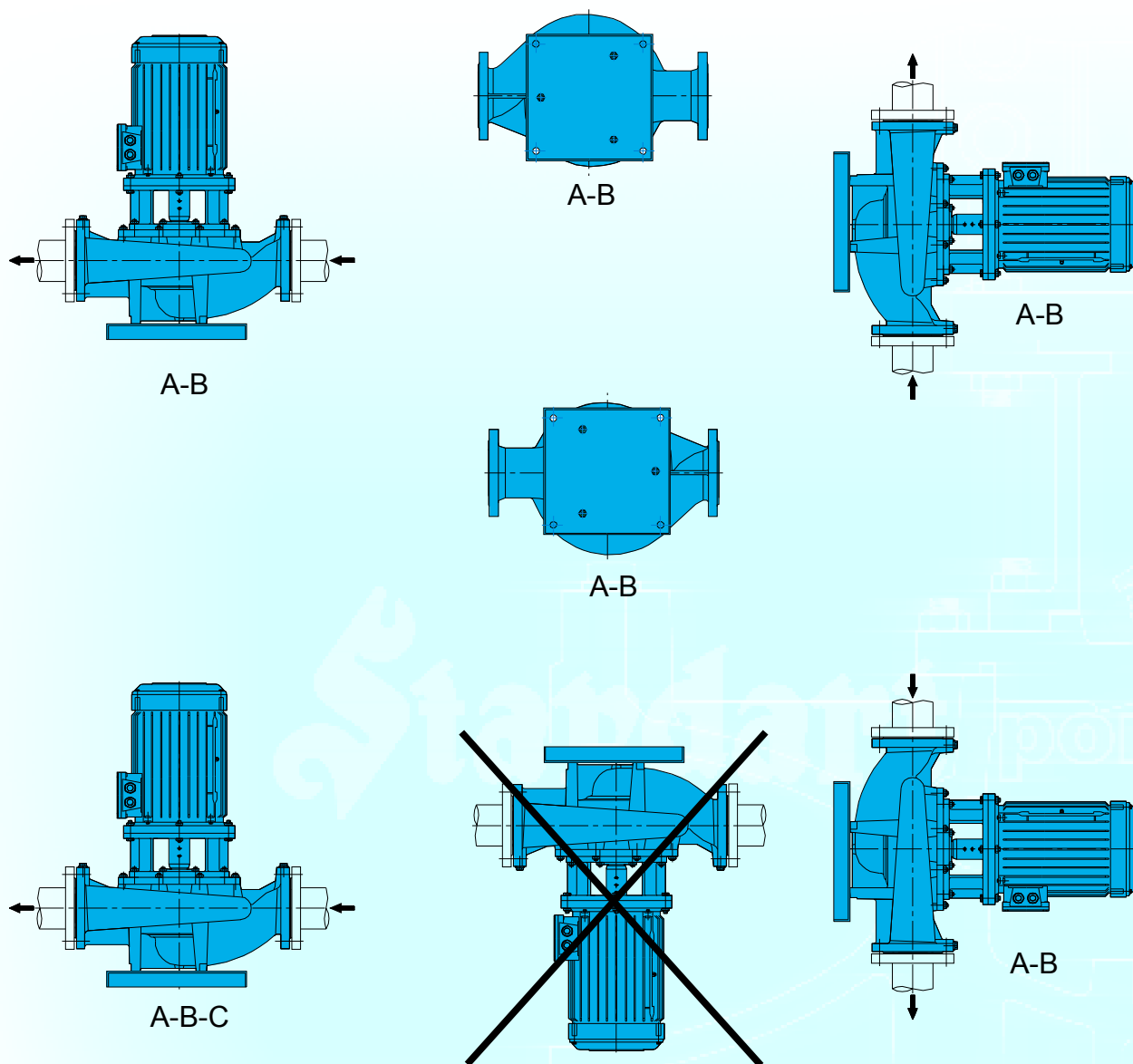
PUMP TYPE	Design No	MOTOR		DNe/DNb mm	DIMENSIONS (mm)															Base** Plate	Weight* (kg)
		kW	IEC		A	W	Lm*	L*	H	h1	h2	X	G	g1	g2	ABxAB	KxK	øS			
40-125	D1	0.37	71M	40	98	165	223	486	300	160	140	100	208	108	100	170	130	14	T0	31	
40-160		0.37	71M	40	98	165	223	486	340	180	160	100	236	122	114	170	130	14		35	
		0.55	80M				244	507												37	
		0.75	80M				244	507												38,5	
40-200	D2	0.55	80M	40	98	165	244	507	380	200	180	100	275	140	135	200	160	14	T1	39	
		0.75	80M				244	507												41	
		1.1	90S				246	509												43,5	
50-125	D1	0.37	71M	50	113	165	223	501	300	160	140	100	212	110	102	170	130	14	T0	34	
		0.55	80M				244	522												38,5	
		0.75	80M				244	522												40	
50-160		0.37	71M	50	113	165	223	501	340	180	160	100	238	124	114	170	130	14		35	
		0.55	80M				244	522												38	
		0.75	80M				244	522												39,5	
	1.1	90S	246				524	43													
50-200	D2	1.5	90L	50	113	165	266	544	425	225	200	100	280	145	135	200	160	14	T1	45	
		0.75	80M				244	522												51	
		1.1	90S				246	525												53	
		1.5	90L				266	544												55	
		2.2	100L				292	570												57	
50-250	D2	1.5	90L	50	117	165	267	548	475	250	225	100	342	175	187	260	220	14	T2	63	
		2.2	100L				292	574												67	
		3	100L				292	574												70	
		0.37	71M				223	521												340	180
0.55	80M	244	542	41																	
0.75	80M	244	542	42,5																	
1.1	90S	246	544	46,5																	
65-125	D1	1.5	90L	65	133	165	266	564	380	200	180	100	252	136	116	200	160	14	T1	49	
		0.75	80M				244	542												45	
		1.1	90S				266	564												49	
1.5		90L	266				564	52													
65-160		D1	0.75				80M	65												133	165
	1.1		90S	266	564	49															
	1.5		90L	266	564	52															
65-200	D2	1.1	90S	65	137	165	246	549	475	250	225	100	315	162	153	260	220	14	T2	59	
		1.5	90L				266	569												61	
		2.2	100L				292	594												67	
		3	100L				292	594												70	
		2.2	100L				292	594												73	
65-250		D2	3	100L	65	137	165	292	594	475	250	225	125	343	177	166	260	220	14	T2	76
			4	112M				336	638												81
			5.5	132S				202	361												700
65-315		D2	3	100L	65	170		188	292	560	280	280	125	418	216	202	400	350	18	T4	121
			4	112M				188	336												693
	5.5		132S	203				361	733												138
	7.5		132M	203				361	733												149
	11		160M	247				476	893												160
80-125	D1	0.37	71M	80	153	165	223	541	380	200	180	125	252	138	114	200	160	14	T1	46	
		0.55	80M				244	562												48	
		0.75	80M				244	562												49,5	
		1.1	90S				246	564												54	
		1.5	90L				266	588												56	
80-160		D1	0.55	80M	80	153	165	244	562	425	225	200	125	280	152	128	200	160		14	55
			0.75	80M				244	562												57
			1.1	90S				246	564												59
			1.5	90L				266	584												61
	2.2		100L	292				610	65												

1450 rpm (4 pole Motor)

PUMP TYPE	Design No	MOTOR		DNe/DNb mm	DIMENSIONS (mm)														Base** Plate	Weight** (kg)	
		kW	IEC		A	W	Lm*	L*	H	h1	h2	X	G	g1	g2	ABxAB	KxK	øS			
80-200	D2	1.1	90S	80	157	165	246	569	475	250	225	125	315	170	145	260	220	14	T2	63	
		1.5	90L				266	589												76	
		2.2	100L				292	614												70	
		3	100L				292	614												73	
		4	112M				336	658												76	
80-250	D1	2.2	100L	80	175	188	292	620	560	280	280	125	379	197	182	320	270	18	T3	88	
		3	100L				292	620												91	
		4	112M				336	699												108	
		5.5	132S				203	396												739	128
		5.5	132S			203	361	753												160	
80-315	D2	7.5	132M	80	190	203	361	753	595	315	280	140	425	220	205	400	350	18	T4	168	
		11	160M				476	913												205	
		15	160L				476	913												245	
100-160		1.5	90L	100	158	165	266	589	475	250	225	140	292	162	130	260	220	14		65	
		2.2	100L				292	615												70	
		3	100L				292	615												73	
		3	100L				292	677												92	
100-200	D1	4	112M	100	197	188	336	720	525	275	250	140	362	192	170	260	220	14		96	
		5.5	132S				203	361												761	121
							203	361												761	132
		7.5	132S																		
100-250		4	112M	100	205	188	336	729	580	300	280	140	384	206	178	320	270	18	T3	120	
		5.5	132S				361	771												136	
		7.5	132M				205	361												771	146
		11	160M				248	476												929	174
		7.5	132M				205	361												765	178
100-315		11	160M	100	200	250	476	926	670	355	315	140	455	240	215	400	350	18		225	
		15	160L				476	926												240	
		18.5	180M				519	969												253	
100-400	D3	15	160L	100	190	255	476	921	800	400	400	160	558	288	270	400	350	18		270	
		18.5	180M				519	964												293	
		22	180L				519	964												307	
		30	200L				555	1000												356	
		37	225S				300	625												1115	403
125-200	D1	3	100L	125	220	213	292	725	560	280	280	140	390	208	182	400	350	18		116	
		4	112M				336	768												123	
		5.5	132S				361	809												148	
		7.5	132M				228	361												809	159
125-250		5.5	132S	125	220	228	363	811	630	315	315	140	413	218	195	400	350	18		158	
		7.5	132M				363	811												169	
		11	160M				476	968												198	
		15	160L				476	968												213	
125-315	D2	11	160M	125	200	280	476	956	710	355	355	140	488	258	230	400	350	18		241	
		15	160L				476	956												273	
		18.5	180M				519	999												273	
		22	180L				519	999												292	
		30	200L				555	1035												324	
125-400	D3	22	180L	125	200	280	519	999	800	400	400	160	562	292	270	400	350	18		336	
		30	200L				555	1035												385	
		37	225S				625	1150												432	
		45	225M				625	1150												469	
		45	225M			625	1155														
125-450		55	250M	125	205	325	644	1174	850	425	425	160	613	316	297	440	380	23	T5	574	
150-250	D2	11	160M	150	220	304	476	1000	710	355	355	140	474	254	220	400	350	18	T4*	594	
		15	160L				476	1000												262	
		18.5	180M				519	1043												276	
		22	180L				519	1043												294	
150-315		15	160L	150	225	315	476	1016	710	355	355	160	548	290	258	440	380	23		315	
		18.5	180M				519	1059												319	
		22	180L				519	1059												327	
		30	200L				555	1095												376	
		37	225S				625	1210												423	
150-400	D3	37	225S	150	225	360	625	1210	800	400	400	160	604	314	290	440	380	23		483	
		45	225M				625	1210												520	
		55	250M				644	1229												540	
		18.5	180M				519	1119												540	
		22	180L				519	1119												540	
200-315		30	200L	200	245	355	555	1155	800	350	450	160	547	295	252	440	380	23		392	
		37	225S				625	1255												441	
		45	225M				625	1255												488	
							625	1255												522	
		37	225S			625	1270	493													
200-400		45	225M	200	245	400	625	1270	900	400	500	160	618	328	290	440	380	23		527	
		55	250M				644	1289												550	

3- Right reserved to change without notice.

Installation Arrangements



Note : A, B and C represent groups which are in the performance areas.

Material Options

Part List	0.6025	0.7040	1.0619	1.4308	1.4408	1.4409	2.1050.01	2.1090.01	1.4021	1.4301	1.4401	1.4404
Volute casing	●	○	○	○	○	○	○					
Casing cover	●	○	○	○	○	○	○					
Impeller	●	○	○	○	○	○	○					
Pump shaft									○	●	○	○
Motor pedestal	●	○										
Wear ring	○	○	○	○	○	○	○	○				
Mechanical seal * DIN 24960 / EN 12756												

(*)Optional : Depending on customer requirement or request different types and brands of mechanical seals are applicable.

● Standard manufacturing
○ Optional

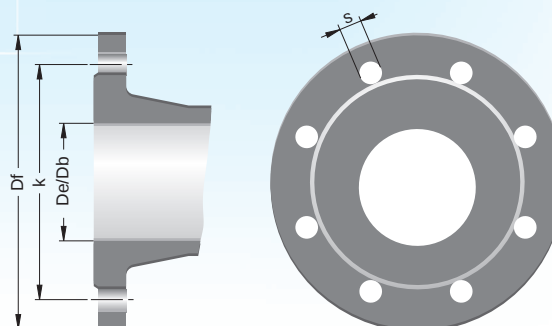
Material Equivalents

Description	DIN 17007	EN-DIN	ASTM
Cast iron	0.6025	GJL-250 (GG 25)	A 48 Class 40-B
Nodular cast iron	0.7040	GJS-400-15 (GGG 40)	A 536 Gr. 60-40-18
Cast steel	1.0619	GP240GH (GS-C 25)	A 216 Gr. WCB
Chrome nickel cast steel	1.4308	G-X5 Cr Ni 19-10	A 351-75 Grade CF8
Chrome nickel molybdenum cast steel	1.4408	G-X5 Cr Ni Mo 19-11-2	A 351-75 Grade CF8M
Chrome nickel molybdenum cast steel (low carbon)	1.4409	G-X2 Cr Ni Mo 19-11-2	A 351-75 Grade CF3M
Cast bronze	2.1050.01	G-Cu Sn 10	B 584 C 90700
Cast bronze	2.1090.01	G-Cu Sn 7 Zn Pb	B 584 C 93200
Chrome steel	1.4021	X20 Cr 13	A 276 Type 420
Chrome nickel steel	1.4301	X5 Cr Ni 18.9	A 276 Type 304
Chrome nickel molybdenum steel	1.4401	X5 Cr Ni Mo 18.10	A 276 Type 316
Chrome nickel molybdenum steel (low carbon)	1.4404	X2 Cr Ni Mo 18.10	A 167-74 Type 316 L

Flange Dimensions

De / Db	Suction & Discharge (PN 16)			
	Df	k	s	n
40	150	110	18	4
50	165	125	18	4
65	185	145	18	4
80	200	160	18	8
100	220	180	18	8
125	250	210	18	8
150	285	240	23	8
200	340	295	23	12

" n " number of holes



®



Standart
POMPA ve MAKİNA SANAYİ TİC. AŞ.

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