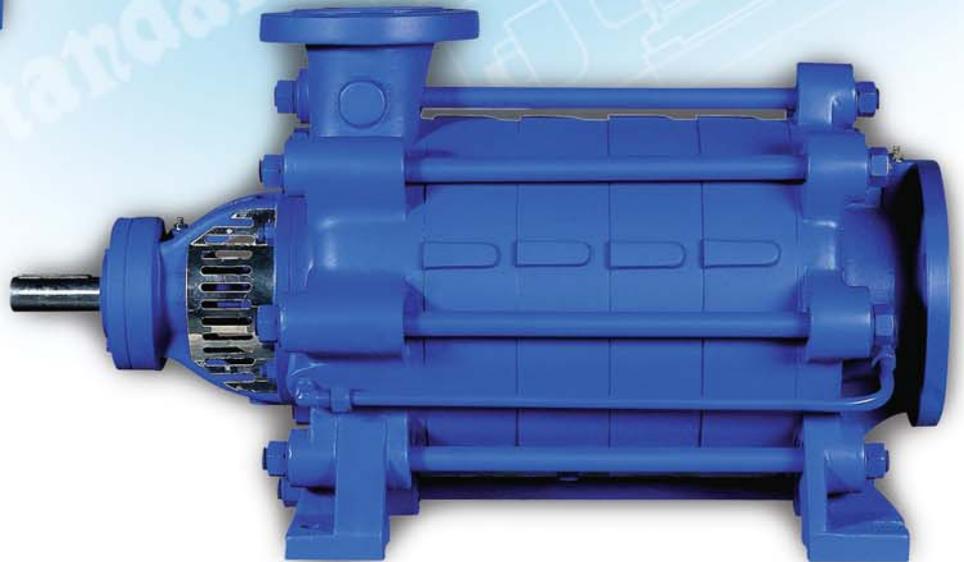
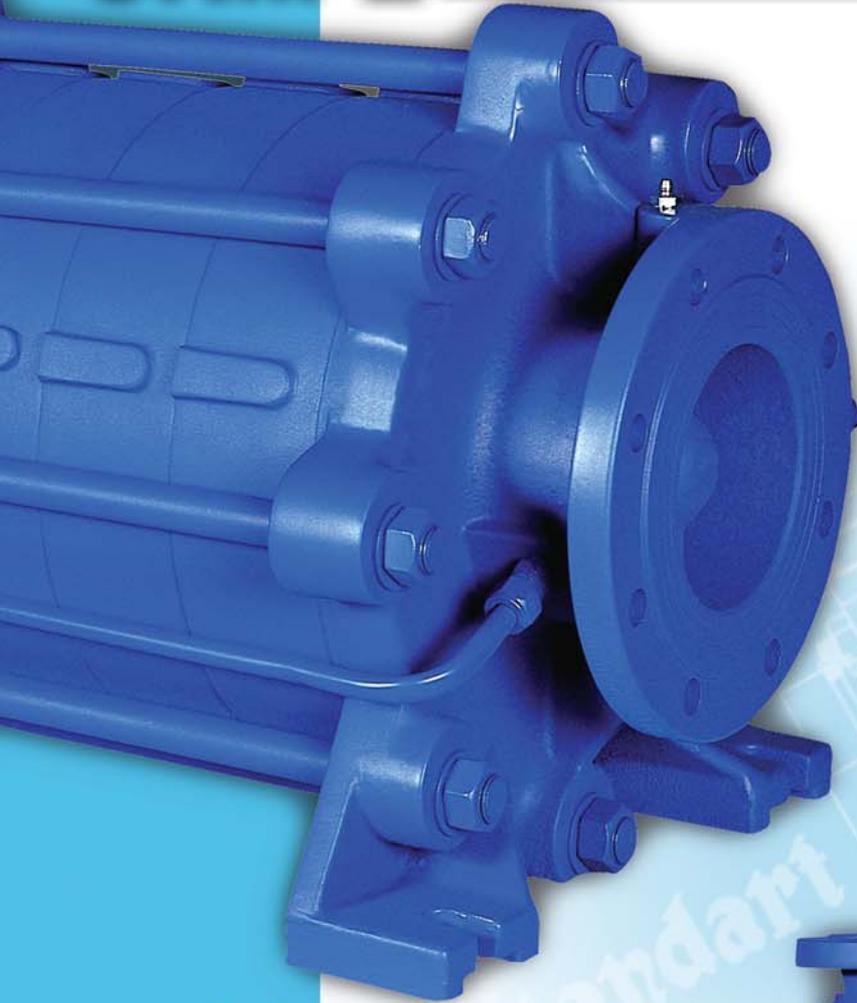


TS EN ISO 9905

Standart

SKM-E

Multistage, End-Suction
Centrifugal Pumps



CE



PG



Handled Liquids

SKM-E Type pump are suitable for clean or slightly contaminated liquids with low viscosity.

Technical Data

Discharge Nozzle Range — DN 40 up to 150 mm

Capacities — up to 400 m³/h

Heads — up to 390 m

Speed — 1450 - 2900 rpm

Operating Temperature — -10 °C up to 110 °C *

Casing Pressure (Pmax) — 30 bar (40 bar) *

(Pmax : Suction Pressure + Shut off Head)

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

Applications

- General water supply, irrigation and sprinkler
- Pressurized water supply
- Boosters systems
- Boiler feed water and condensate
- Heating and air conditioning
- Circulation
- Industry
- Fire - fighting systems
- Power plants

Design Feature

- Horizontal, multistage, end suction centrifugal pumps with closed impellers and diffusers.
- 7 models from DN 40 to DN 150.
- Suction nozzle flanges are according to ISO 7005-2/PN 16 and discharge nozzle flanges are according to ISO 7005-2/PN 40.
- Axial thrust is balanced by back wear rings and balancing holes system.
- All impellers are balanced statically and dynamically according to ISO 1940 class 6.3.

Bearings

Pump shaft is supported by grease lubricated sleeve bearing in suction casing and grease lubricated ball bearing on the delivery side.

Shaft Seal

Sealing with soft packing or mechanical seal.

Rotation

Direction of rotation is counter clockwise viewed from driver end.

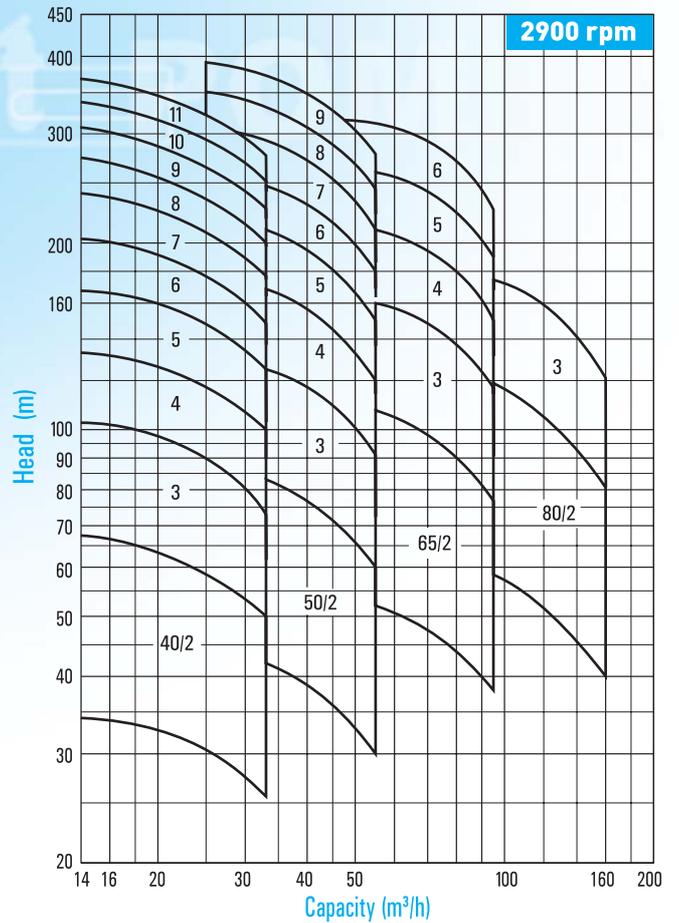
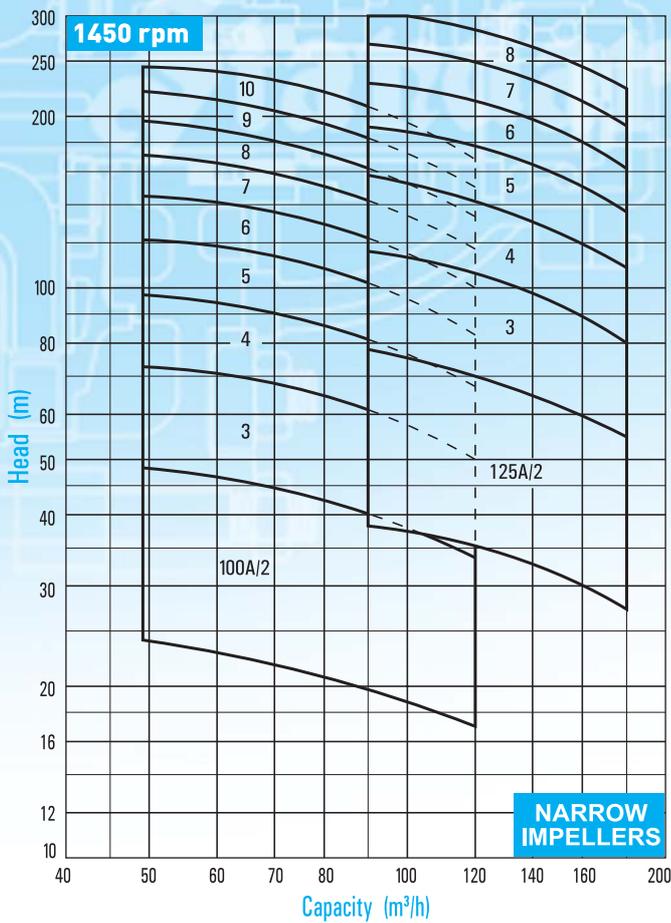
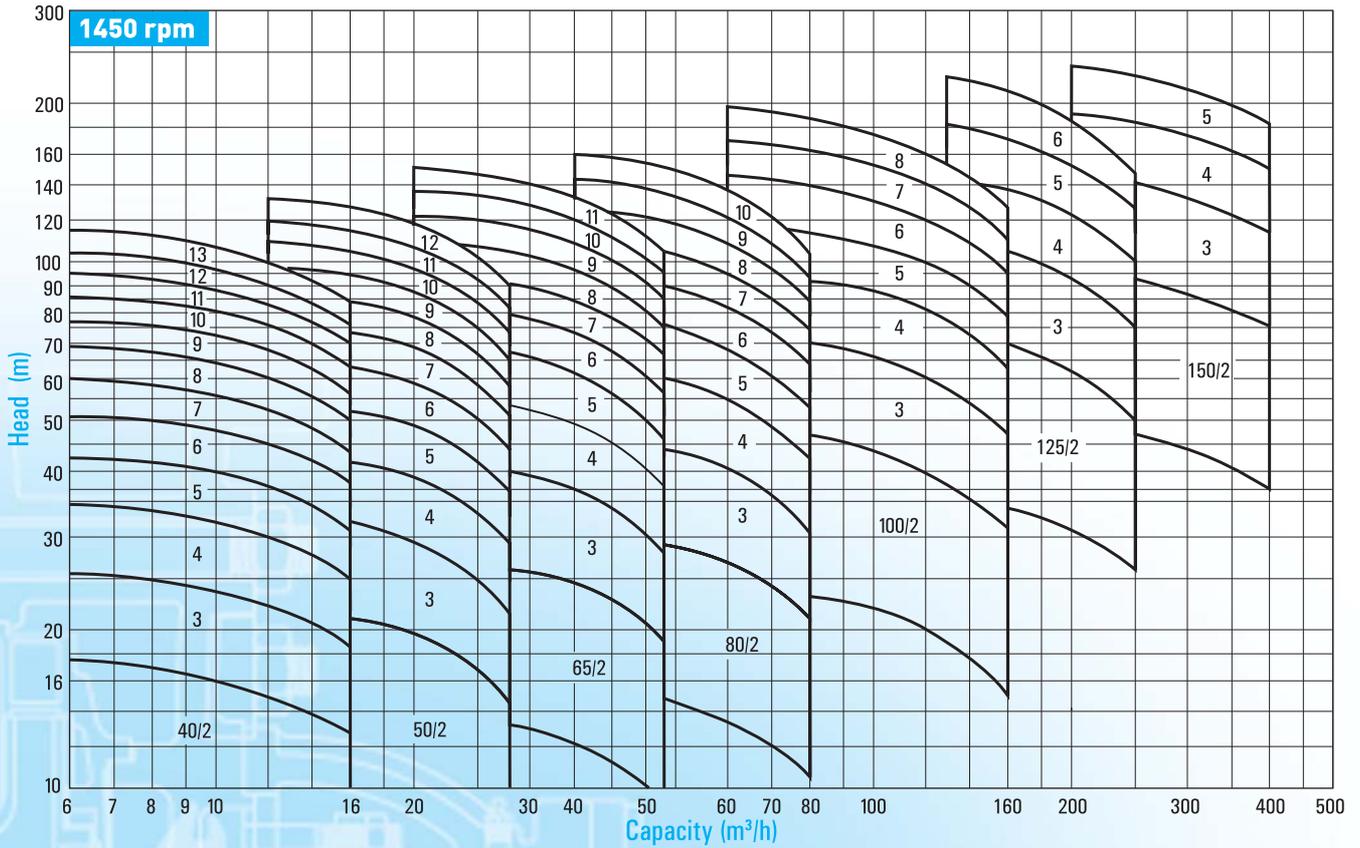
Pump Designation

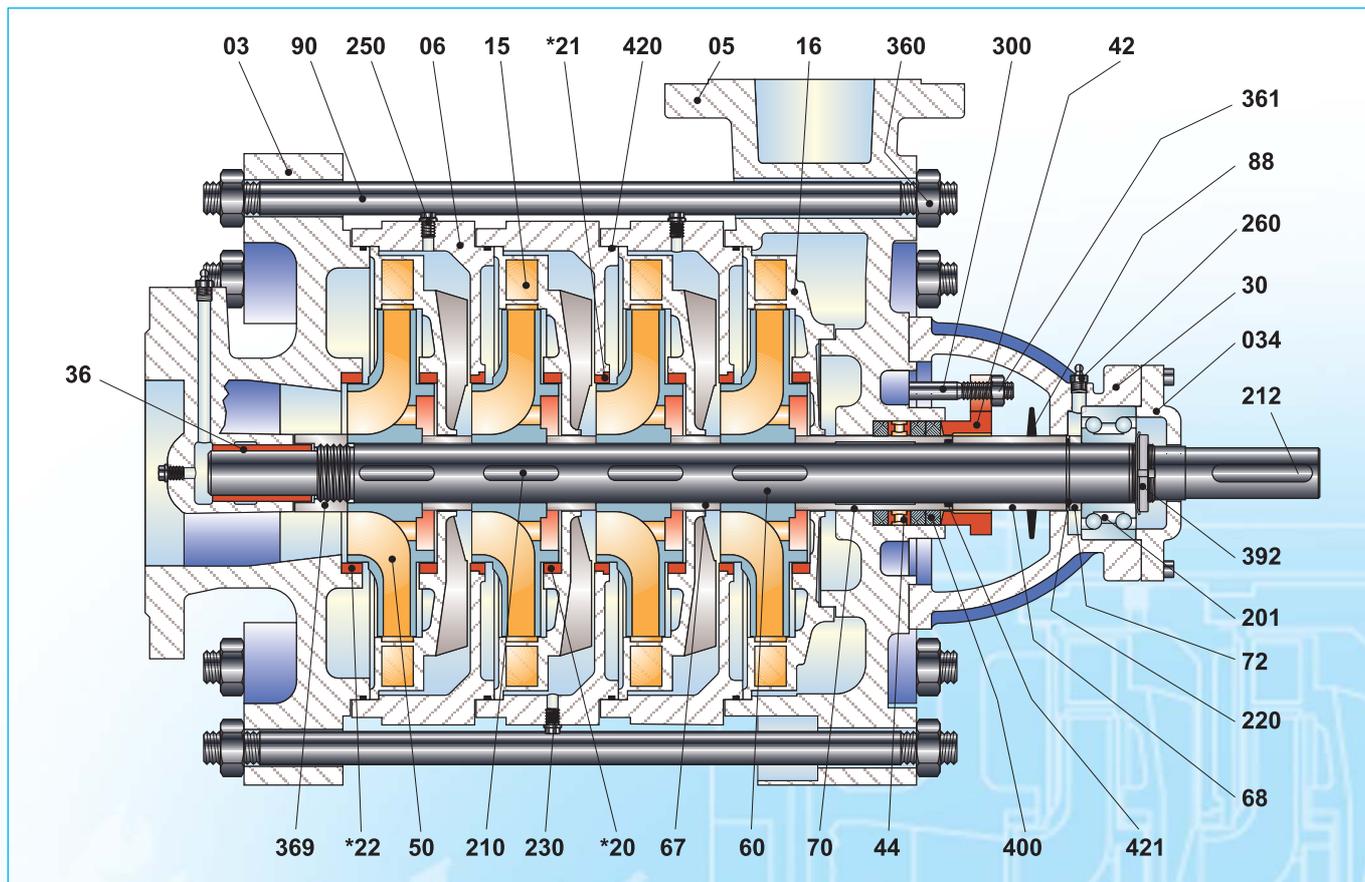
SKM-E 100 / 6

Pump type _____

Discharge nozzle (DN) _____

Number of stages _____

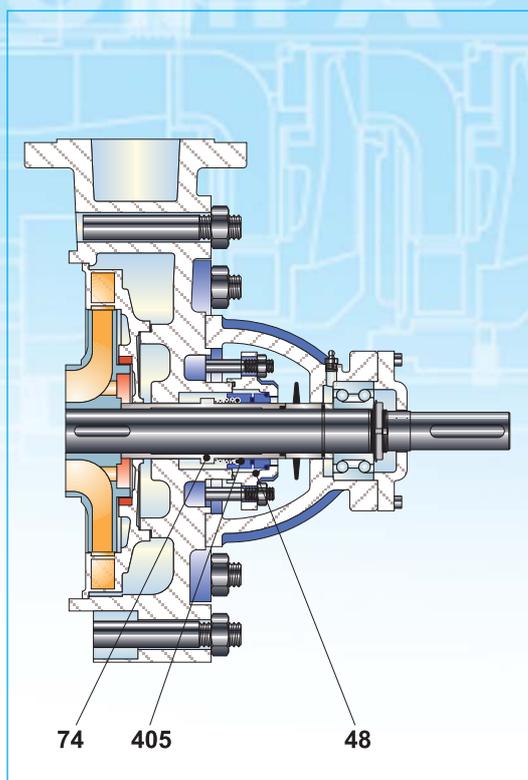




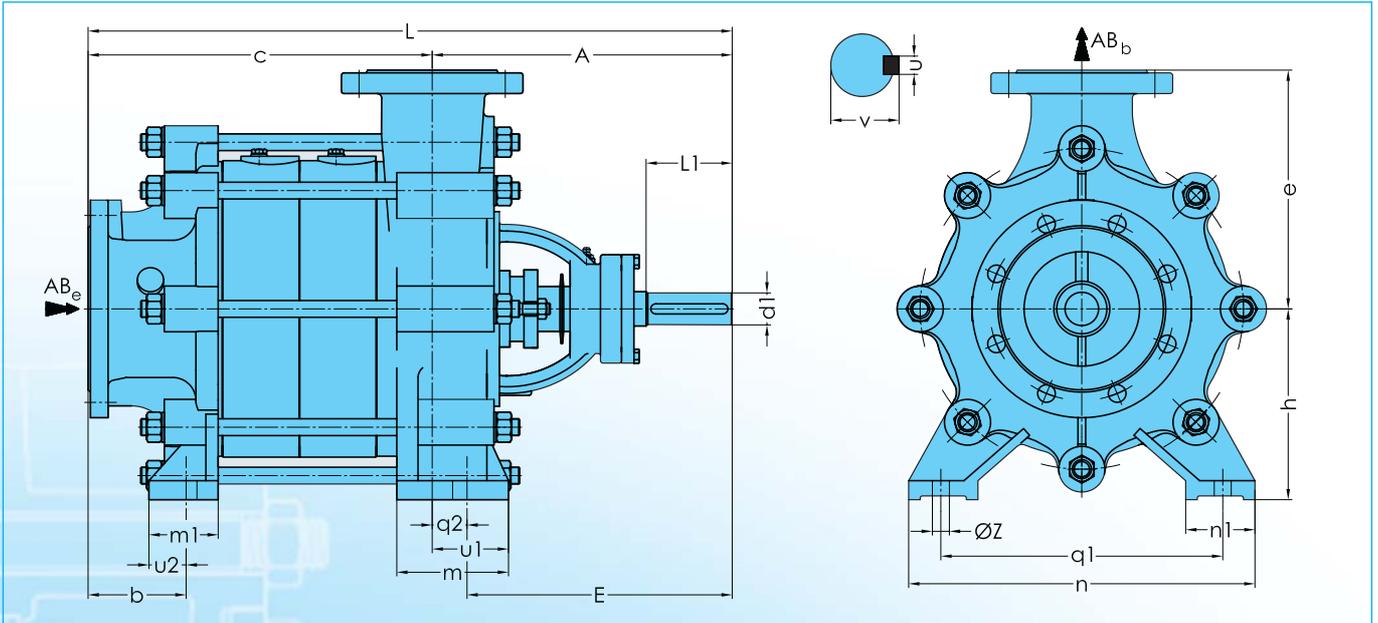
Parts list

Part No	Part Name	Part No	Part Name
03	Suction casing	72	Spacer sleeve (Discharge side)
05	Discharge casing	*74	Mechanical seal sleeve
06	Stage casing	88	Thrower
15	Diffuser	90	Tiebolt
16	Final stage diffuser	201	Angular contact ball bearing (Discharge side)
*20	Wear ring (stage casing)	210	Impeller key
*21	Wear ring (stage casing)	212	Coupling key
*22	Wear ring (suction casing)	220	Retaining ring
30	Bearing housing	230	Plug
34	Bearing end cover	260	Grease Nipple
36	Bearing bush	300	Stuffing box stud
42	Stuffing box gland	360	Hex. nut
44	Lantern ring	361	Hex. nut
*48	Mechanical seal cover	369	Shaft nut
50	Impeller	392	Shaft locking nut + Washer
60	Shaft	400	Stuffing box packing
67	Interstage sleeve	*405	Mechanical seal
68	Spacer sleeve (Discharge side)	420	O-Ring
70	Shaft protecting sleeve (Discharge side)	421	O-Ring

Mechanical seal applications



(*) Optional



"C" according to the number of stages (mm)

Pump Type	2	3	4	5	6	7	8	9	10	11	12	13
40	187	242	297	352	407	462	517	572	627	682	737	792
50	212	274	336	398	460	522	584	646	708	770	832	
65	247	318	389	460	531	602	673	744	815	886		
80	280	363	446	529	612	695	778	861	944			
100	347	447	547	647	747	847	947	1047	1147			
125	364	479	594	709	824	939	1054					
150	437	582	727	872								

Maximum no. of stages depending on shaft material

Pump Type	AISI 420		AISI 304 / 316	
	1450 rpm	2900 rpm	1450 rpm	2900 rpm
40	13	11	13	7
50	12	9	12	7
65	11	6	11	5
80	8	3	8	3
100	10	-	7	-
125	8	-	6	-
150	5	-	3	-

Bearing Types

Pump Type	Bearing Type
40	6305
50	6306
65	6307
80	3308
100	3309
125	3310
150	3312

Pump dimensions

Pump Type	Dimensions (mm)																Shaft end				Weight (kg)		
	AB _e	AB _b	A	b	L	E	e	h	m	m1	n	n1	q1	q2	øz	u1	u2	d1	l1	v	u	G	g
40	65	40	237	23	C+237	147	175	160	60	75	232	55	175	90	15	109	20	24	60	27	8	54	9.5
50	80	50	259	23	C+259	163	190	160	60	85	256	60	200	95	15	115	20	28	65	31	8	82	13
65	100	65	275	38	C+275	168	215	180	60	85	294	60	240	121	15	125	25	32	65	35	10	85	20
80	125	80	331	75	C+331	289	265	210	85	85	410	90	340	42	15	62	25	34	80	37.3	10	113	26
100	150	100	397	105	C+397	349	300	250	90	90	450	90	370	48	15	70	30	40	110	43.3	12	150	42
125	200	125	410	70	C+410	355	375	300	110	112	572	105	450	55	23	80	30	45	110	48.8	14	264	75
150	200	150	475	60	C+475	410	425	350	130	135	655	110	550	65	23	103	30	55	110	59.3	16	455	120

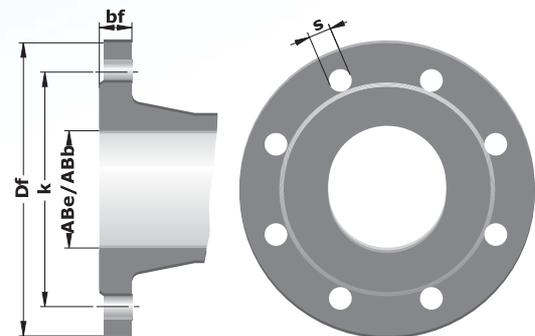
NOTE : Right reserved to change without notice.

Pump weight = G + (n x g) (n : number of stages)

Flange dimensions

Pump Type	Suction (PN 16)						Discharge (PN 40)					
	AB _e	Df	k	s	n	bf	AB _b	Df	k	s	n	bf
40	65	185	145	18	4	20	40	150	110	18	4	20
50	80	200	160	18	8	22	50	165	125	18	4	22
65	100	220	180	18	8	24	65	185	145	18	8	24
80	125	250	210	18	8	26	80	200	160	18	8	26
100	150	285	240	23	8	26	100	235	190	23	8	28
125	200	340	295	23	12	30	125	270	220	27	8	30
150	200	340	295	23	12	30	150	300	250	27	8	34

"n" number of holes



Material options

Parts list	0.6025	0.7040	1.0619	1.4308	1.4408	2.1050.01	1.4021	1.4301	1.4401	1.4138	2.1090.01	2.1096.01	Tungsten Carbide
Suction casing	●	○	○	○	○	○							
Discharge casing	●	○	○	○	○	○							
Stage casing	●	○	○	○	○	○							
Diffuser	●	○	○	○	○	○							
Impeller	●	○	○	○	○	○							
Pump shaft							●	○	○				
Bearing housing	●	○	○	○	○	○							
Wear ring (Casing)	○	○								○	○		
Interstage sleeve						○	●	○	○		○	○	
Spacer sleeve						○	●	○	○		○	○	
Shaft protecting sleeve						○	●	○	○		○	○	
Bearing bush						●					○		○
Mechanical seal *	DIN 24960 / EN 12756												

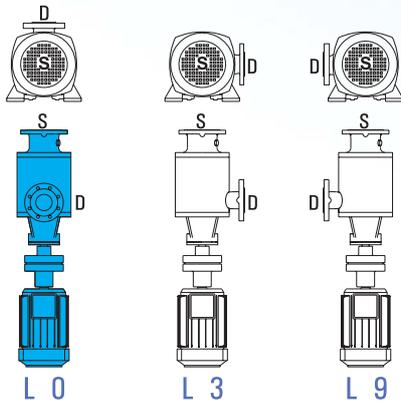
(*) Optional : Depending on customer requirement or request different types and brands of mechanical seals are applicable. ● Standart manufacturing ○ Optional

Material equivalents

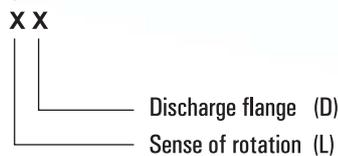
Description	DIN 17007	EN-DIN	ASTM
Cast iron	0.6025	GJL-250 (GG 25)	A 48 Class 40-B
Nodular cast iron	0.7040	GJS-400-15 (GGG 40)	A 536 Gr. 60-40-18
Cast steel	1.0619	GP240GH (GS-C 25)	A 216 Gr. WCB
Chrome nickel cast steel	1.4308	G-X6 Cr Ni 18.9	A 351-75 Grade CF8
Chrome nickel molybdenum cast steel	1.4408	G-X6 Cr Ni Mo 18.10	A 351-75 Grade CF8M
Chrome molybdenum cast steel	1.4138	G-X120 Cr Mo 29.2	-
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
Cast bronze	2.1096.01	G-Cu Sn 5 Zn Pb	B 584 C 83600
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

Flange positions

Counter clockwise rotation viewed from driver (Discharge flange is on the motor side) :



Explanation :



Sense of rotation viewed from driver :
L : Left

®



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