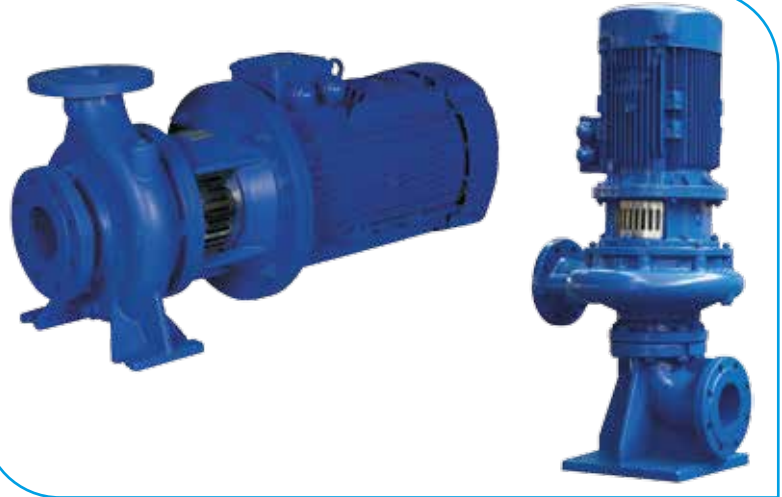


SNM/SNM-V

CLOSE-COUPLED
CENTRIFUGAL PUMPS



Handled Liquids

Clean or slightly contaminated low viscosity liquids without solid & fibrous particles.

Technical Data

Discharge Flange _____ DN 32 DN 150 mm

Capacity _____ up to 500 m³/h

Head _____ up to 100 m

Speed _____ up to 2900 rpm

Motor Rating _____ up to 55* kW

Operating Temperature _ -10 °C' up to +110 °C **

Casing Pressure (Pmax) 10 bar (16 bar) **

(Pmax : Suction Pressure + Shut off Head)

(*) Contact for 75 kW and 90 kW options

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

- Main dimensions of volute casing complies with EN 733.
- Suction and discharge flanges conform to EN 1092 - 2 / PN 16
- SNM / SNM-V pumps are direct coupled with electric motors of IEC frame sizes with IE2 efficiency class (if requested IE3)
- All impellers are balanced dynamically according to ISO 1940 class 6.3.
- Axial thrust is balanced by impeller balancing holes system.
- Pump shaft is supported with motor bearings.
- SNM / SNM-V type close-coupled pumps are lighter and smaller comparing to the norm centrifugal pumps of same hydraulic specifications.
- Direction of rotation is clockwise viewed from driver.

Design Features

- Horizontal / Vertical Close-coupled, volute casing, single stage, end suction centrifugal pump with closed impeller.

Pump Designation

Pump Type _____

Vertical Installation _____

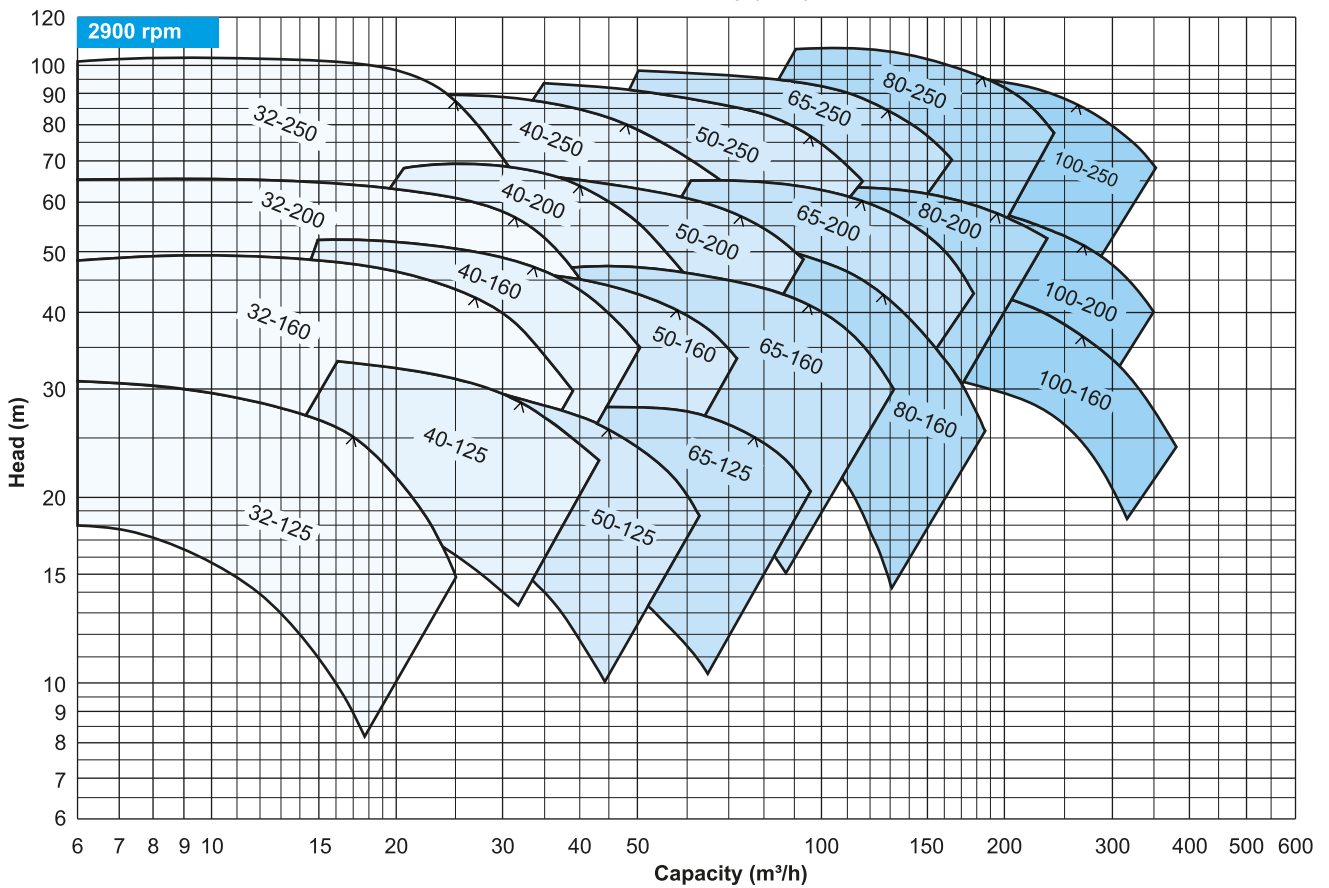
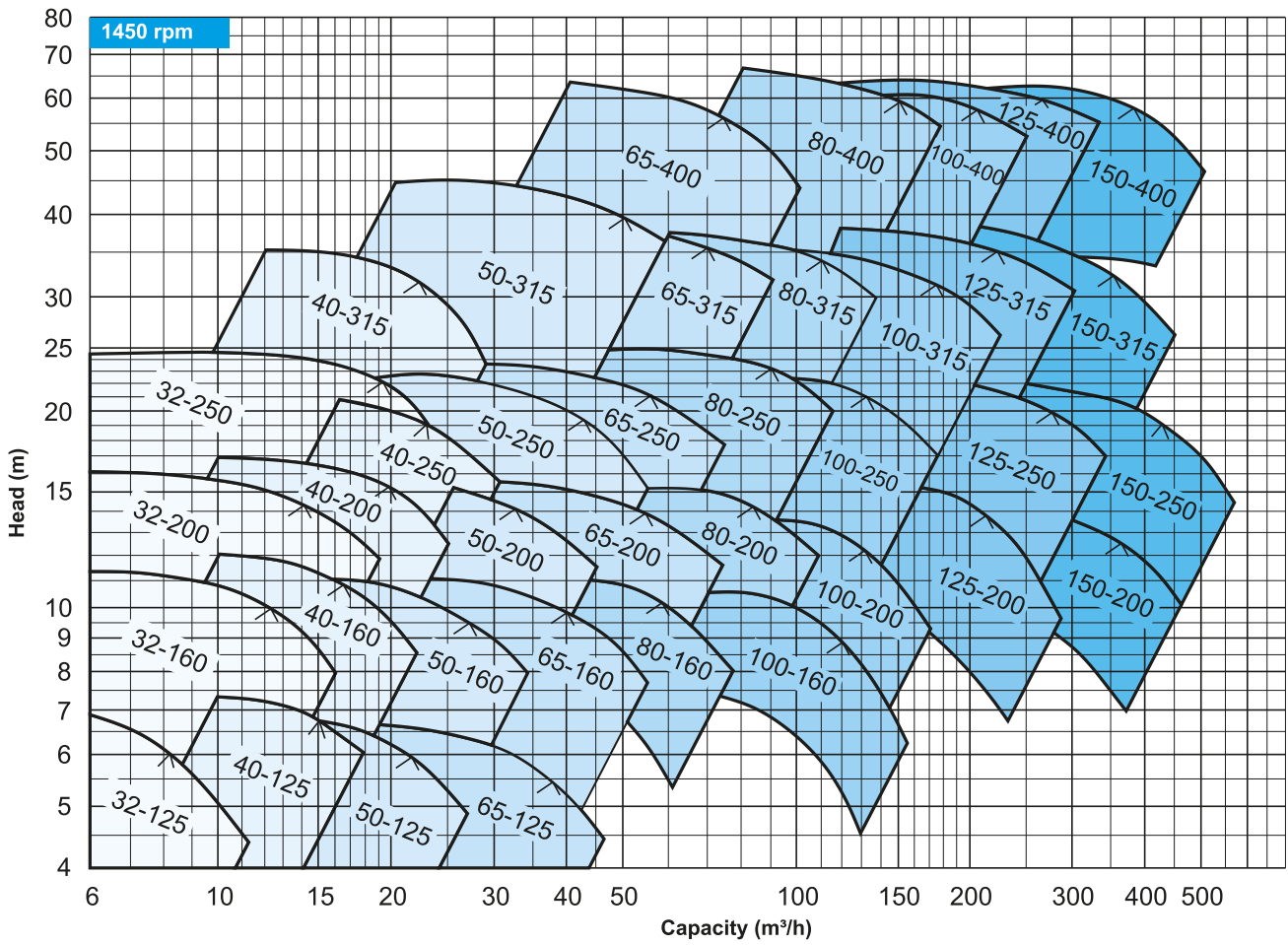
Discharge Nozzle (DN-mm) _____

Nominal Impeller Diameter (mm) _____

SNM-V 100 - 250

Shaft Sealing

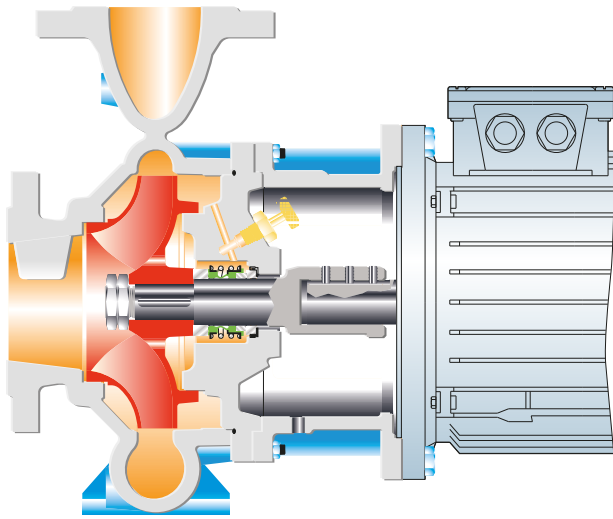
- Single mechanical seal, flushed by pumped liquid, uncooled and unbalanced.



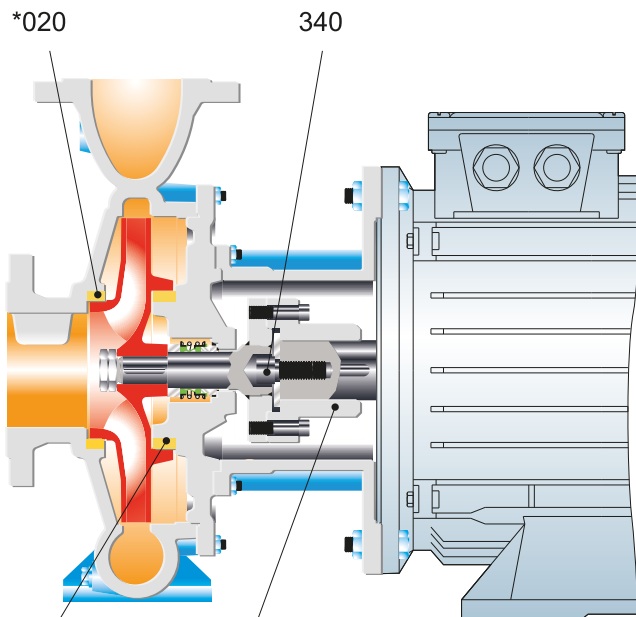
Sectional Drawings

SNM / SNM-V

Horizontal Installation



Form D1



*020

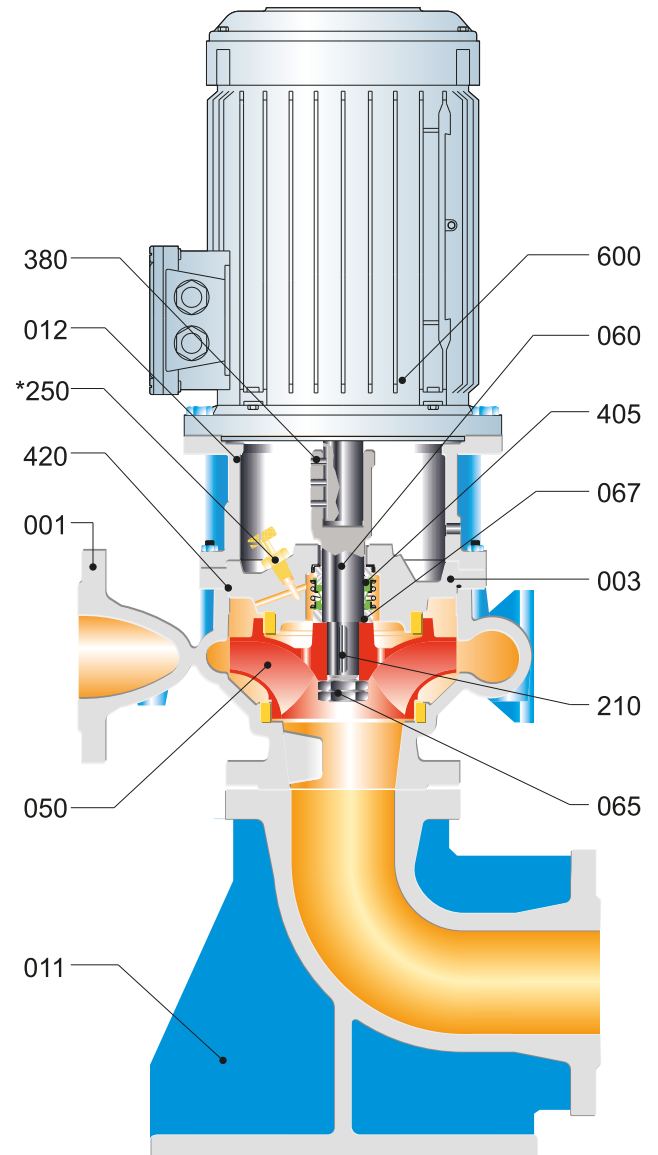
340

*021

085

Form D2

Vertical Installation



Part List

001	Volute Casing	050	Impeller	*250	Air Vent Screw
003	Casing Cover	060	Shaft	340	Allen Bolt
011	Elbow Foot	065	Impeller Nut	380	Set-Screw
012	Motor Pedestal	067	Spacer Sleeve	405	Mechanical Seal
*020	Wear Ring (Casing)	085	Rigid Coupling	420	O-Ring
*021	Wear Ring (Casing Cover)	210	Impeller Key	600	Electric Motor

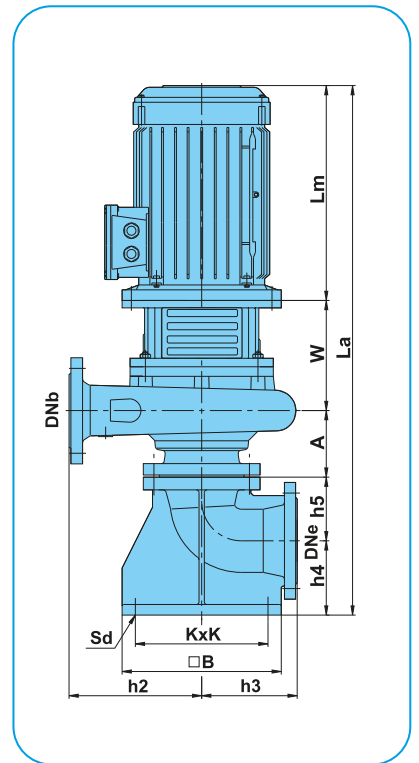
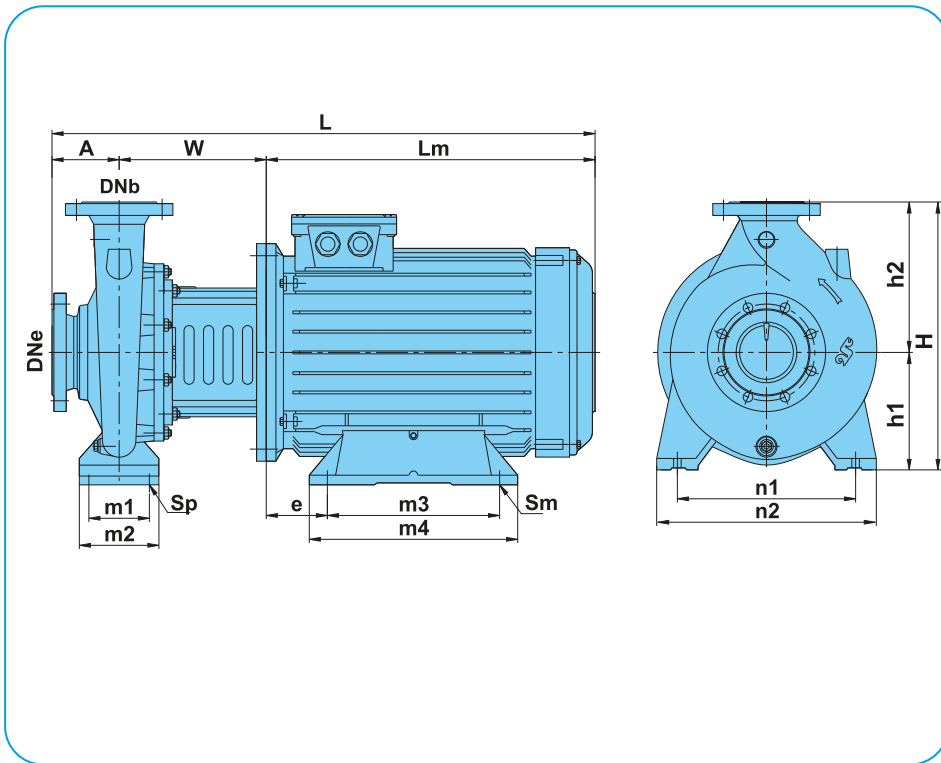
(*) Optional

Technical Data

SNM / SNM-V

SNM Horizontal Installation

SNM-V Vertical Installation



2900 rpm (2 Pole Motor)

FORM	PUMP TYPE	MOTOR kW IEC	SNM HORIZONTAL INSTALLATION DIMENSIONS (mm)																	Weight (kg)	SNM-V VERTICAL INSTALLATION DIMENSIONS (mm)					Weight (kg)				
			Dne	DNb	A	W	Lm	L	H	h1	h2	e	m1	m2	m3	m4	n1	n2	Sp		Sm	h3	h4	h5	La		KxK	B	Sd	
D1	32-125	1,1 80M	50	32	80	165	244	489	252	112	140	-	70	100	-	-	140	190	14	-	43	160	105	110	704	220	270	14	68	
		1,5 90S					266	511																	46					71
		2,2 90L					266	511																	48					73
	32-160	3 100L	50	32	80	165	292	537	292	132	160	-	70	100	-	-	190	240	14	-	55	160	105	110	752	220	270	14	80	
		4 112M					292	537																	59					84
		5,5 132S					336	581																	67					92
	32-200	5,5 132S	50	32	80	195	358	633	292	132	160	-	70	100	-	-	190	240	14	-	74	160	105	110	848	220	270	14	94	
		7,5 132S					195	358																	69					99
		11 160M					238	476																	76					101
	32-250	7,5 132S	50	32	80	195	361	656	340	160	180	-	70	100	-	-	190	240	14	-	76	160	105	110	851	220	270	14	106	
		11 160M					238	476																	81					106
		15 160M					238	476																	81					106
	40-125	2,2 90L	65	40	80	165	266	511	252	112	140	-	70	100	-	-	160	210	14	-	53	160	110	120	741	220	270	14	83	
		3 100L					292	537																	60					90
		4 112M					336	581																	68					98
	40-160	5,5 132S	65	40	80	195	358	633	292	132	160	-	70	100	-	-	190	240	14	-	70	160	110	120	866	220	270	14	101	
		7,5 132S					195	358																	76					106
		11 160M					239	476																	79					102
	40-200	7,5 132S	65	40	100	195	361	656	340	160	180	-	60	100	-	-	212	265	14	-	84	160	110	120	886	220	270	14	114	
		11 160M					239	476																	81					114
		15 160M					239	476																	81					114
	40-250	11 160M	65	40	100	240	476	816	405	180	225	-	95	125	-	-	250	320	15	-	141	160	110	120	1046	220	270	14	171	
		15 160M					519	859																	148					178
		18,5 160L					519	859																	148					178
50-125	22 180M	65	50	100	195	361	656	292	132	160	-	70	100	-	-	190	240	14	-	61	160	110	120	831	220	270	14	99		
	30 200L					555	895																	133					126	
	3 100L					292	557																	71					101	
50-125	4 112M	65	50	100	195	361	656	292	132	160	-	70	100	-	-	190	240	14	-	69	160	110	120	886	220	270	14	101		
	5,5 132S					195	361																	71					101	
50-125	7,5 132S	65	50	100	195	361	656	292	132	160	-	70	100	-	-	190	240	14	-	76	160	110	120	886	220	270	14	106		
	7,5 132S					195	361																	76					106	

Technical Data

SNM / SNM-V

FORM	PUMP TYPE	MOTOR		SNM HORIZONTAL INSTALLATION DIMENSIONS (mm)																	Weight (kg)	SNM-V VERTICAL INSTALLATION DIMENSIONS (mm)						Weight (kg)		
		kW	IEC	Dne	Dnb	A	W	Lm	L	H	h1	h2	e	m1	m2	m3	m4	n1	n2	Sp		Sm	h3	h4	h5	La	KxK		B	Sa
D1	50-160	5,5	132S	65	50	100	195	361	656	340	160	180	-	70	100	-	-	212	265	14	-	74	160	110	120	886	220	270	14	104
		7,5	132S				239	476	815				108	-	-	210	304	254	312	-	15	123				886				109
		11	160M																											1045
	50-200	11	160M	65	50	100	239	476	815	360	160	200	108	-	-	210	304	254	312	-	15	131	160	110	120	1045	220	270	14	161
		15	160M																			138				1045				168
		18,5	160L																			153				1045				183
		22	180M																			176				1088				206
	50-250	18,5	160L	65	50	100	239	476	815	380	180	180	-	95	125	-	-	250	320	14	-	166	160	110	120	1045	220	270	14	196
		22	180M																			189				1088				219
		30	200M																			226				1124				256
		37	200M																			245				1124				275
	65-125	4	112M	80	65	100	195	336	601													76	180	120	130	851	250	300	19	116
		5,5	132S																			103				941				123
		7,5	132S																			127				941				143
		11	C132M																			149				1065				167
	65-160	15	160M	80	65	100	239	476	815	360	160	200	108	-	-	210	304	212	280	-	15	134	180	120	130	1065	250	300	19	174
		18,5	160L																			149				1065				189
	65-200	18,5	160L	80	65	100	239	476	815	405	180	225	-	95	125	-	-	250	320	14	-	159	180	120	130	1065	250	300	19	199
		22	180M																			182				1108				222
		30	200L																			219				1144				259
	65-250	22	180M	80	65	100	247	519	866	450	200	250	-	120	160	-	-	280	360	15	-	201	180	120	130	1116	250	300	19	241
		30	200L																			238				1158				278
		37	200L																			257				1158				297
		45	225M																			299				1228				339
D2	55	250M	80	65	100	283	644	1027	500	250	250	168	-	-	349	421	356	436	-	24	333	180	120	130	1277	250	300	19	373	
	11	160M																			134				1100				177	
	15	160M																			141				1100				184	
D1	18,5	160L	100	80	125	239	476	840	405	180	225	-	95	125	-	-	250	320	14	-	156	230	140	130	1100	250	300	19	199	
	22	180M																			179				1153				222	
	27	180M																			198				1161				241	
	30	200L																			235				1203				278	
80-200	37	200L	100	80	125	253	555	933	430	200	250	133	-	-	305	365	280	345	-	19	254	230	140	130	1203	250	300	19	297	
	45	225M																			296				1273				339	
	55	250M																			344				1322				387	
80-250	37	200L	100	80	125	253	555	933	480	200	280	133	-	-	305	365	318	350	-	19	268	230	140	130	1203	250	300	19	311	
	45	225M																			310				1273				353	
	55	250M																			344				1322				387	
D2	55	250M	100	80	125	283	644	1052	530	250	250	168	-	-	349	421	406	484	-	24	344	230	140	130	1322	250	300	19	387	
	30	200L																			241				1233				304	
D1	37	200L	125	100	125	253	555	933	480	200	280	133	-	-	305	365	318	350	-	19	260	200	155	145	1233	280	340	19	323	
	45	225M																			302				1303				365	
	55	250M																			344				1352				407	
D2	30	200L	125	100	125	253	555	933	480	200	280	133	-	-	305	365	318	350	-	19	249	200	155	145	1233	280	340	19	312	
	37	200L																			268				1303				331	
D1	45	225M	125	100	125	283	644	1052	480	250	280	149	-	-	311	383	383	442	-	19	310	200	155	145	1303	280	340	19	373	
	55	250M																			344				1352				407	
D1	100-250	45	225M	125	100	140	253	625	1018	505	225	280	149	-	-	311	383	356	436	-	19	319	200	155	145	1318	280	340	19	382
D2	55	250M	283																							644				1067

1450 rpm (4 pole Motor)

FORM	PUMP TYPE	MOTOR		SNM HORIZONTAL INSTALLATION DIMENSIONS (mm)														Weight (kg)	SNM-V VERTICAL INSTALLATION DIMENSIONS (mm)						Weight (kg)					
		kW	IEC	Dne	Dnb	A	W	Lm	L	H	h1	h2	m1	m2	n1	n2	Sp		h3	h4	h5	La	KxK	B		Sa				
D1	32-125	0,25	71M	50	32	80	165	223	468	254	114	140	70	100	140	190	14	39	160	105	110	683	220	270	14	64				
		0,37	71M															40								65				
	32-160	0,37	71M	50	32	80	165	223	468	292	132	160	70	100	190	240	14	44	160	105	110	683	220	270	14	69				
		0,55	80M															46								71				
	32-200	0,75	80M	50	32	80	165	243	488	340	160	180	70	100	190	240	14	47	160	105	110	703	220	270	14	72				
		0,55	80M															53								78				
	32-250	0,75	80M	50	32	80	165	244	489	405	180	225	95	125	250	320	14	54	160	105	110	704	220	270	14	79				
		1,1	90S															56								81				
		1,5	90S															66								91				
		2,2	100L															68								93				
	40-125	1,1	90S	65	40	80	165	266	531	405	180	225	95	125	250	320	14	76	160	105	110	772	220	270	14	101				
		3	100L															79								104				
		0,25	71M															44								74				
		0,37	71M															45								75				
	40-160	0,55	80M	65	40	80	165	244	489	292	132	160	70	100	190	240	14	47	160	110	120	719	220	270	14	77				
		0,75	80M															48								78				
	40-200	1,1	90S	65	40	80	165	246	491	340	160	180	60	100	212	265	14	51	160	110	120	721	220	270	14	81				
		0,75	80M															57								87				
	D2	1,5	90L	65	40	100	165	246	511	340	160	180	60	100	212	265	14	59	160	110	120	741	220	270	14	89				
		2,2	100L															61								91				
								292	557									69				787								99

1450 rpm (4 pole Motor)

FORM	PUMP TYPE	MOTOR		SNM HORIZONTAL INSTALLATION DIMENSIONS (mm)													Weight (kg)	SNM-V VERTICAL INSTALLATION DIMENSIONS (mm)						Weight (kg)			
		kW	IEC	Dne	Dnb	A	W	Lm	L	H	h1	h2	m1	m2	n1	n2		Sp	h3	h4	h5	La	KxK		B	Sa	
D1	40-250	1,1	90S	65	40	100	165	266	531	405	180	225	95	125	250	320	14	72	160	110	120	761	220	270	14	102	
		1,5	90L					74	761									104									
		2,2	100L					82	787									112									
		3	100L					85	787									115									
	40-315	2,2	100L	65	40	100	165	292	557	450	200	250	95	125	280	345	14	91	160	110	120	787	220	270	14	121	
		3	100L					94	831									124									
		4	112M					101	831									131									
		5,5	132S					111	886									141									
	50-125	0,37	71M	65	50	100	165	223	488	292	132	160	70	100	190	240	14	46	160	110	120	718	220	270	14	76	
		0,55	80M					48	739									78									
		0,75	80M					49	739									79									
	50-160	0,75	80M	65	50	100	165	243	508	340	160	180	70	100	212	265	14	52	160	110	120	738	220	270	14	82	
		1,1	90S					54	761									84									
		1,5	90L					56	761									86									
	50-200	1,1	90S	65	50	100	165	246	511	360	160	200	70	100	212	265	14	62	160	110	120	741	220	270	14	92	
		1,5	90L					64	741									94									
		2,2	100L					72	787									102									
		3	100L					75	787									105									
	50-250	2,2	100L	65	50	100	165	292	557	405	180	225	95	125	250	320	14	85	160	110	120	787	220	270	14	115	
		3	100L					88	787									118									
		4	112M					95	831									125									
		5,5	132S					105	886									135									
	50-315	4	112M	80	50	125	203	358	686	505	225	280	95	125	280	345	19	119	180	120	130	899	250	300	19	159	
		5,5	132S					129	936									169									
7,5		132M	150					936	190																		
11		160M	175					1098	215																		
65-125	0,55	80M	80	65	100	165	244	509	340	160	180	95	125	212	280	14	55	180	120	130	759	250	300	19	95		
	0,75	80M					56	759									96										
	1,1	90S					58	761									98										
65-160	1,1	90S	80	65	100	165	246	511	360	160	200	95	125	212	280	14	58	180	120	130	761	250	300	19	98		
	1,5	90L					60	761									100										
	2,2	100L					68	807									108										
65-200	1,5	90L	80	65	100	165	246	511	405	180	225	95	125	250	320	14	70	180	120	130	761	250	300	19	110		
	2,2	100L					78	807									118										
	3	100L					81	807									121										
	4	112M					88	851									128										
65-250	3	100L	80	65	100	188	292	580	450	200	250	120	160	280	360	19	100	180	120	130	830	250	300	19	140		
	4	112M					107	873									147										
	5,5	132S					117	914									157										
	7,5	132M					138	914									178										
65-315	5,5	132S	80	65	125	218	361	704	505	225	280	120	160	315	400	19	117	180	120	130	954	250	300	19	157		
	7,5	132M					138	1098									178										
	11	160M					163	1098									203										
	15	160L					177	1098									217										
65-400	11	160M	100	65	125	237	476	838	615	260	355	120	160	355	435	19	208	180	120	130	1088	250	300	19	251		
	15	160L					222	1088									265										
	18,5	180M					251	1131									294										
	22	180L					259	1131									302										
D2	80-160	1,5	90L	100	80	125	165	266	556	405	180	225	95	125	250	320	14	311	230	140	130	1167	250	300	19	354	
		2,2	100L					67	826									110									
		3	100L					75	852									118									
		3	100L					80	852									123									
	80-200	3	100L	100	80	125	188	292	605	430	180	250	95	125	280	345	14	97	230	140	130	875	250	300	19	140	
		4	112M					104	919									147									
		5,5	132S					114	959									157									
		4	112M					118	918									161									
	80-250	5,5	132S	100	80	125	203	361	689	480	200	280	120	160	315	400	19	128	230	140	130	959	250	300	19	171	
		7,5	132M					149	959									192									
		11	160M					174	1118									217									
		7,5	132M					203	959									218									
	80-315	11	160M	100	80	125	247	476	848	565	250	315	120	160	315	400	19	175	230	140	130	959	250	300	19	218	
		15	160L					200	1118									243									
		18,5	180M					214	1118									257									
		18,5	180M					243	1161									286									
	80-400	18,5	180M	100	80	125	255	519	899	635	280	355	120	160	355	435	19	274	230	140	130	1169	250	300	19	317	
		22	180L					282	1169									325									
		30	200L					334	1205									377									
		37	225S					384	1320									427									
	D1	100-160	3	100L	125	100	125	188	292	605	480	200	280	120	160	280	360	19	103	200	155	145	905	280	340	19	166
			4	112M					110	949									173								
			5,5	132M					120	989									183								

1450rpm (4 pole Motor)

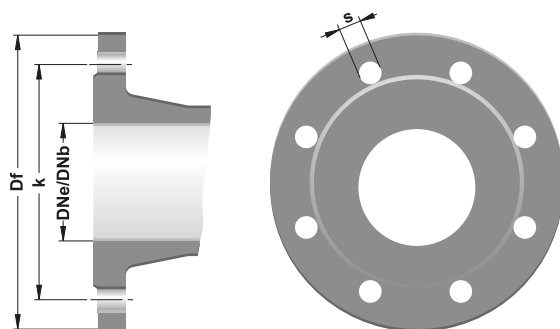
FORM	PUMP TYPE	MOTOR		SNM HORIZONTAL INSTALLATION DIMENSIONS (mm)														Weight (kg)	SNM-V VERTICAL INSTALLATION DIMENSIONS (mm)							Weight (kg)							
		kW	IEC	Dne	Dnb	A	W	Lm	L	H	h1	h2	m1	m2	n1	n2	Sp		h3	h4	h5	La	KxK	B	Sa								
D1	100-200	3	100L	125	100	125	188	292	605	480	200	280	120	160	280	360	19	111	200	155	145	905	280	340	19	174							
		4	112M				335	648	118									948				181											
		5,5	132S				203	358	686									128				986				191							
		7,5	132M				203	360	703									149				986				212							
	100-250	5,5	132S	125	100	140	203	360	703	505	225	280	120	160	315	400	19	137	200	155	145	1003	280	340	19	200							
		7,5	132M				247	476	863									158				1003				221							
		11	160M				247	476	863									183				1163				246							
		15	160L				247	476	863									197				1163				260							
	100-315	11	160M	125	100	140	247	476	863	565	250	315	120	160	315	400	19	207	200	155	145	1163	280	340	19	270							
		15	160L				247	476	863									221				1163				284							
		18,5	180M				247	519	906									250				1206				313							
		22	180L				253	555	948									310				1248				373							
D2	100-400	22	180L	125	100	140	255	519	914	635	280	355	150	200	400	500	19	306	200	155	145	1214	280	340	19	369							
		30	200L				255	555	950									358				1250				421							
		37	225S				310	625	1075									408				1375				471							
		45	225M				310	625	1075									445				1375				508							
D1	125-200	55	250M	150	125	140	285	644	1069	565	250	315	120	160	315	400	19	470	250	190	180	1369	340	400	23	533							
		7,5	132M				203	361	704									157				1074				237							
		11	160M				247	476	863									182				1233				262							
		15	160L				247	476	863									196				1233				276							
	125-250	11	160M	150	125	140	247	476	863	605	250	355	120	160	315	400	19	198	250	190	180	1233	340	400	23	278							
		15	160L				247	476	863									212				1233				292							
		18,5	180L				519	906	605									250				355				120	160	315	400	19	241	1276	321
		22	180M				519	906	605									250				355				120	160	315	400	19	249	1276	329
	D2	125-315	15	160L	150	125	140	255	519	914	635	280	355	150	200	400	500	23	249	250	190	180	1241	340	400	23	329						
			18,5	180M				278	519	914									278				1284				358						
			22	180M				310	625	1075									286				1284				366						
			30	200L				310	625	1075									338				1320				418						
D2	125-400	37	225S	150	125	160	310	625	1075	635	280	355	150	200	400	500	23	388	250	190	180	1445	340	400	23	468							
		37	225S				413	625	1095									413				1465				493							
		45	225M				450	625	1095									450				1465				530							
		55	250M				644	1114	644									475				1484				555							
D1	150-200	11	160M	200	150	160	247	476	883	635	280	355	150	200	400	500	23	221	315	225	330	1438	530	600	23	336							
		15	160L				247	476	883									235				1438				350							
		18,5	180M				247	519	926									264				1481				379							
		15	160L				247	476	883									265				1333				380							
D1	150-250	18,5	180M	200	150	160	247	519	926	655	280	375	150	200	400	500	23	294	315	225	330	1438	530	600	23	409							
		22	180L				253	555	968									302				1481				417							
		30	200L				253	555	968									354				1481				469							
		22	180L				255	519	934									306				1523				421							
D2	150-315	30	200L	200	150	160	255	555	970	680	280	400	150	200	450	550	23	358	315	225	330	1489	530	600	23	473							
		37	225S				310	625	1095									408				1650				523							
		45	225M				310	625	1095									445				1650				560							
		45	225M				310	625	1095									472				1650				587							
D2	150-400	55	250M	200	150	160	310	625	1095	765	315	450	150	200	450	550	23	497	315	225	330	1669	530	600	23	612							
		55	250M				644	1114	644									497				1669				612							

NOTE: Dimensions and weight may change according to motor brand. Rights reserved to change without notice.

Flange Dimensions

DNe / DNb	Suction and Discharge (PN 16)			
	Df	k	s	n
32	140	100	19	4
40	150	110	19	4
50	165	125	19	4
65	185	145	19	4
80	200	160	19	8
100	220	180	19	8
125	250	210	19	8
150	285	240	23	8
200	340	295	23	12

" n " number of holes



Technical Data

SNM / SNM-V

Material Options

Part List	0.6025	0.7040	1.0619	1.4308	1.4309	1.4408	1.4409	1.4317	2.1050.01	2.0975.01	1.4021	1.4301	1.4306	1.4401	1.4404
Volute Casing	●	○	○	○	○	○	○	○	○	○					
Casing Cover	●	○	○	○	○	○	○	○	○	○					
Impeller	●	○	○	○	○	○	○	○	○	○					
Shaft											●	○	○	○	○
Motor Pedestal	●	○													
Wear Ring (casing)	○	○	○	○	○	○	○	○	○	○					
Mechanical Seal (*)	EN 12756 / DIN 24960														

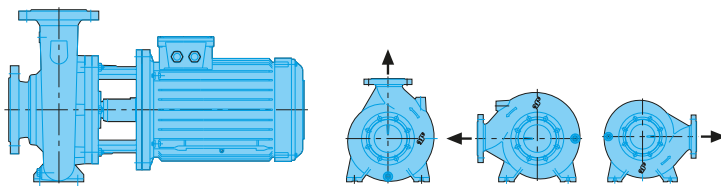
● Standard manufacturing
○ Optinal

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

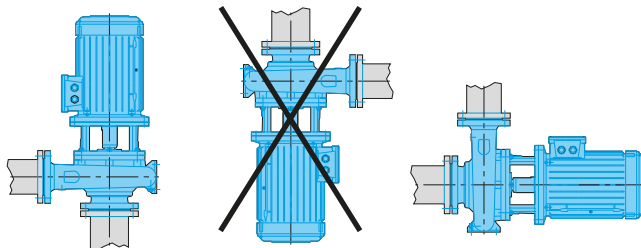
Material Equivalents

Description	DIN 17007	EN-DIN	ASTM
Cast Iron	0.6025	GJL-250 (GG 25)	A 48 Class 40-B
Noduler 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 351/743/744 Gr. CF8
Chrome nickel cast steel (low carbon)	1.4309	G-X2 Cr Ni 19-11	A 351/743/744 Gr. CF3
Chrome nickel molybdenum cast steel	1.4408	G-X5 Cr Ni Mo 19-11-2	A 351/743/744 Gr. CF8M
Chrome nickel molybdenum cast steel (low carbon)	1.4409	G-X2 Cr Ni Mo 19-11-2	A 351/743/744 CF3M
Martenzitic Stainless Cast Steel	1.4317	GX4 Cr Ni 13-4	A 351/743/744 (CA6NM)
Cast bronze (tin alloy)	2.1050.01	G-Cu Sn 10	B 584 C 90700
Cast bronze (nickel alloy)	2.0975.01	G-Cu Al 10 Ni	B 148 C 95800
Chrome steel	1.4021	X20 Cr 13	A 276 Type 420
Chrome nickel steel	1.4301	X5 Cr Ni 18-10	A 276 Type 304
Chrome nickel steel (low carbon)	1.4306	X2 Cr Ni 19-11	A 276 Type 304L
Chrome nickel molybdenum steel	1.4401	X5 Cr Ni Mo 17-12-2	A 276 Type 316
Chrome nickel molybdenum steel (low carbon)	1.4404	X2 Cr Ni Mo 17-12-2	A 276 Type 316 L

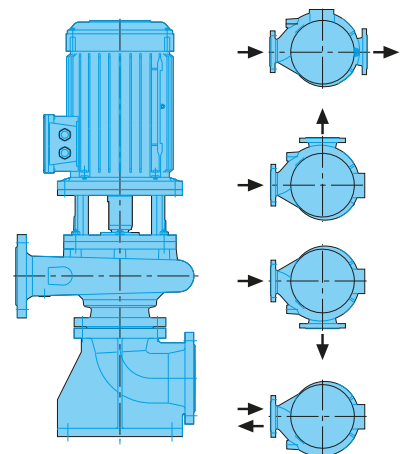
Installation Arrangements



Horizontal installation on ground
(Horizontal position on a base plate)



Installation on perpendicular pipes
(Between two perpendicular pipes in horizontal or vertical position.
The axis of motor below the horizontal line is not admissible.)



Vertical installation on ground

Vertical position by means of a special suction elbow with foot.