

BEDU
≡ POMPEN ≡

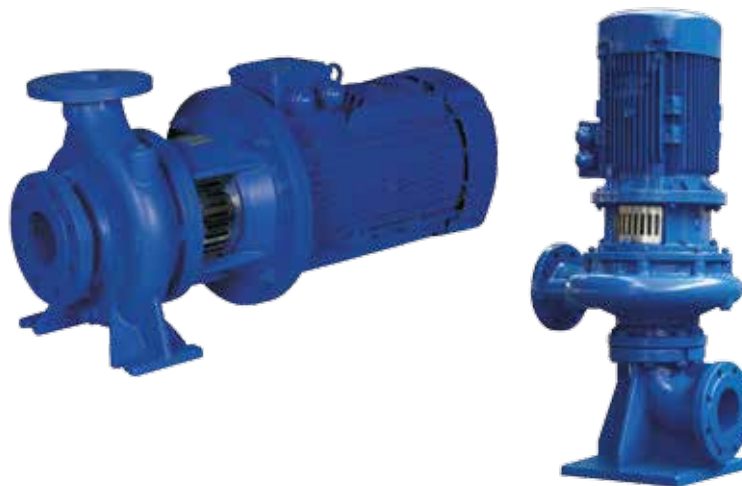
**CLOSE COUPLED
CENTRIFUGAL PUMPS**
BNM / BNM-V



made for your process

BNM/BNM 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

BNM / BNM-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.

BNM / BNM-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.

Shaft Sealing

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

Pump Designation

BNM-V 100 - 250

Pump Type _____

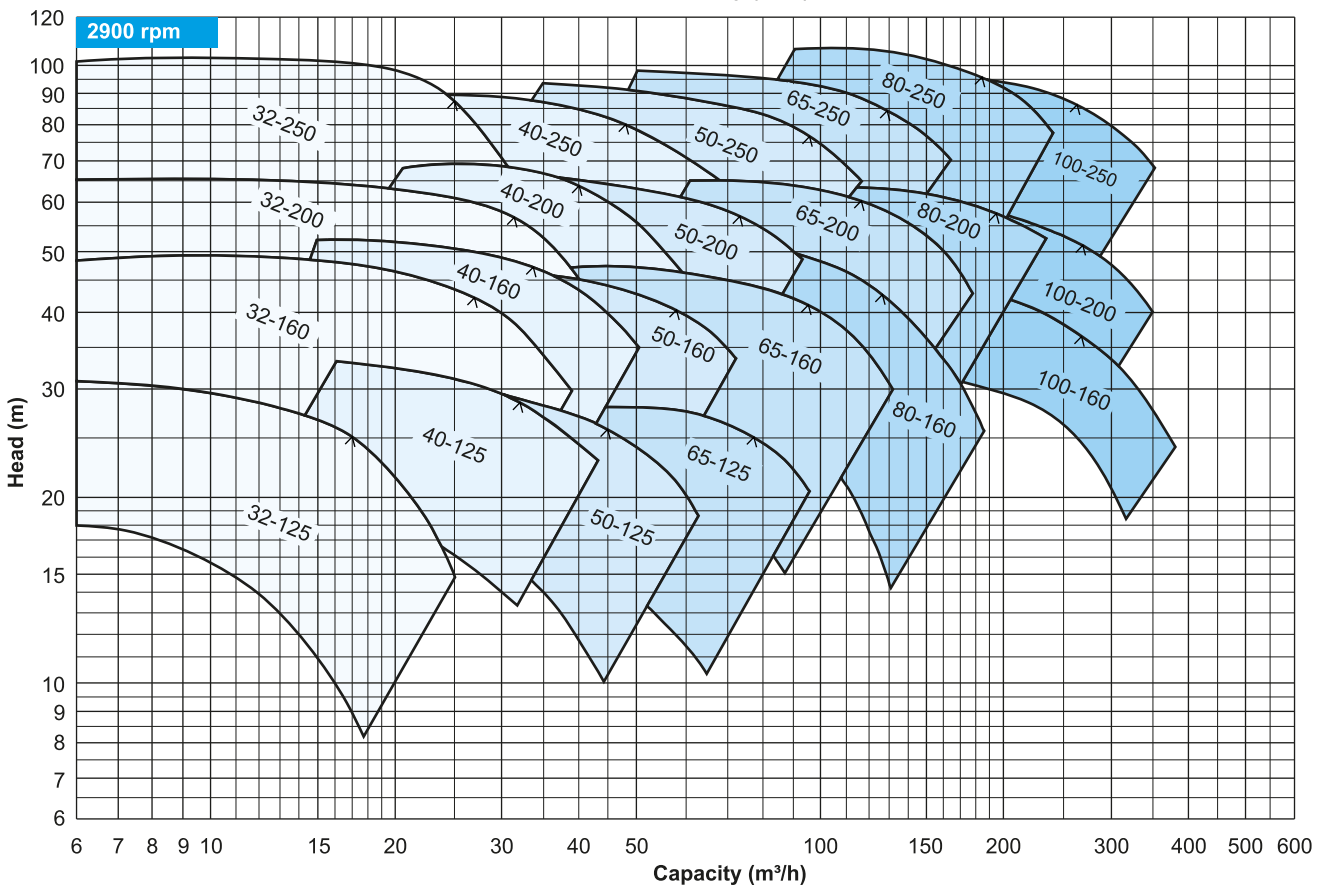
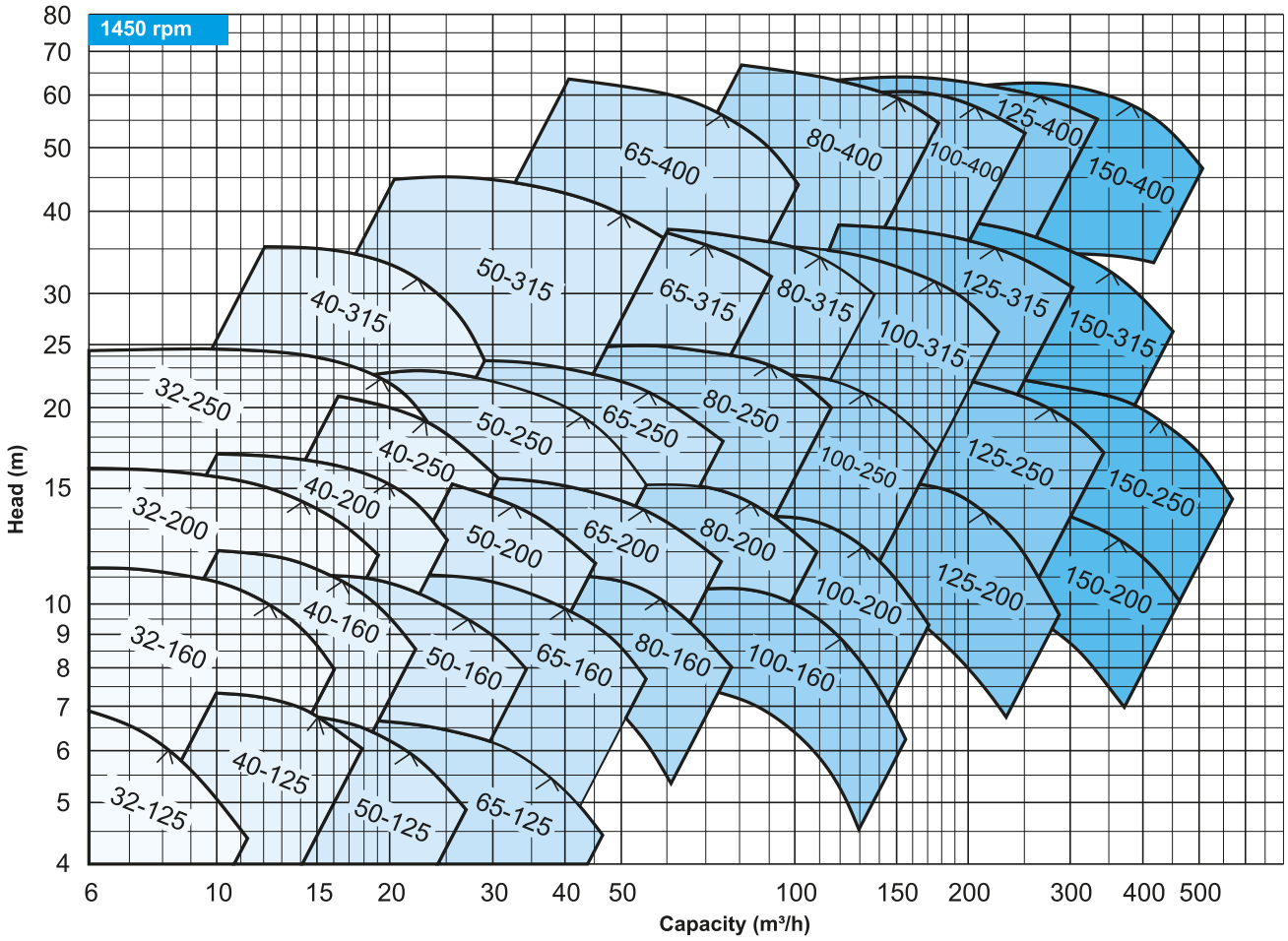
Vertical Installation _____

Discharge Nozzle (DN-mm) _____

Nominal Impeller Diameter (mm) _____

Field Chart

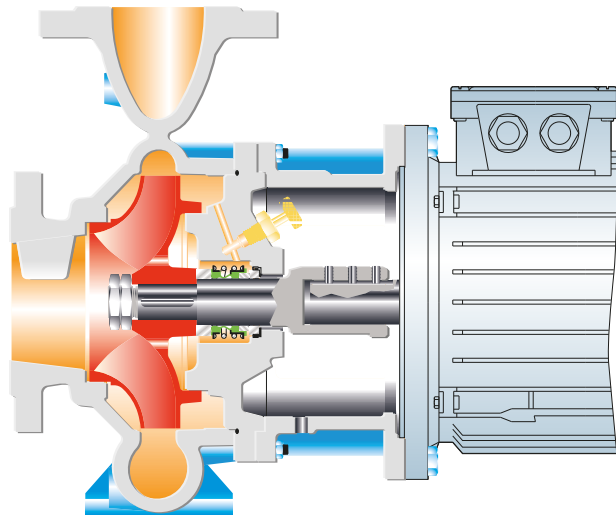
BNM/BNMV



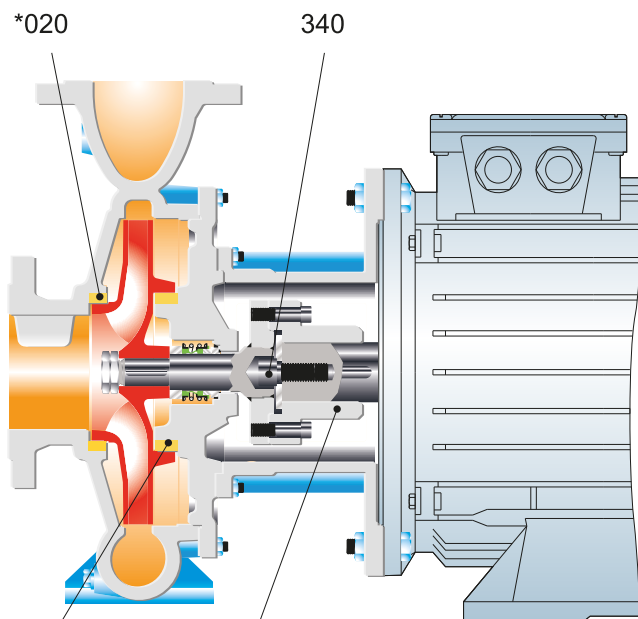
Sectional Drawings

BNM/BNMV

Horizontal Installation

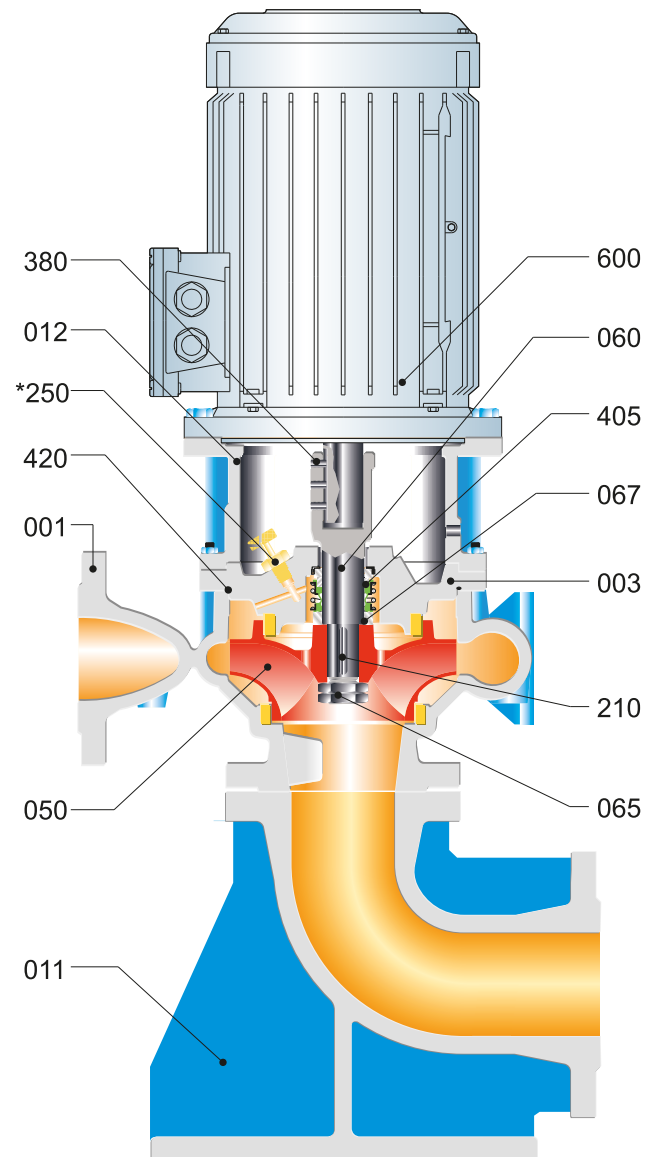


Form D1



Form D2

Vertical Installation



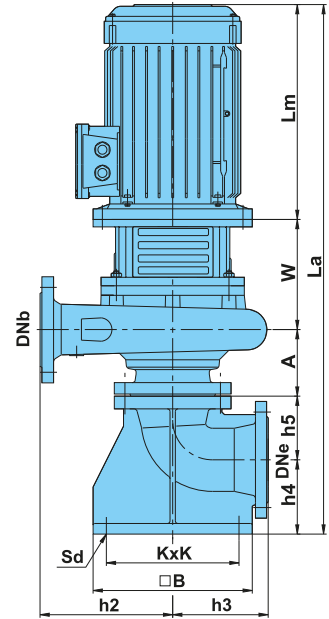
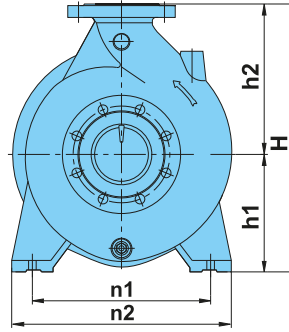
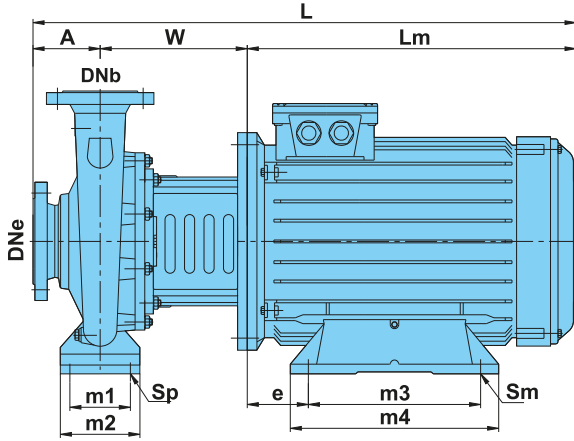
Part List

001	Volute Casing	050	Impeller	*250	Air Vent Screw
003	Casing Cover	060	Shaft	340	Allien 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

BNM Horizontal Installation

BNM-V Vertical Installation



2900 rpm (2 Pole Motor)

FORM	PUMP TYPE	MOTOR kW IEC	BNM HORIZONTAL INSTALLATION DIMENSIONS (mm)																	Weight (kg)	BNM-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	7,5 132S	50	32	80	195	358	633	292	132	160	-	70	100	-	-	190	240	14	-	74	160	105	110	848	220	270	14	99		
		5,5 132S					361	636																	76					101	
		7,5 132S					361	636																	81					106	
	32-250	11 160M	50	32	100	238	476	794	340	160	180	-	108	-	-	210	304	254	312	-	15	125	160	105	110	1009	220	270	14	150	
		7,5 132S					361	656																		91					116
		15 160M					476	816																		108					160
	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	106		
		7,5 132S					361	636																	76					101	
		11 160M					361	636																	81					106	
	40-200	7,5 132S	65	40	100	239	476	795	340	160	180	-	108	-	-	210	304	254	312	-	15	120	160	110	120	1025	220	270	14	150	
		11 160M					476	815																		84					114
		15 160M					476	815																		88					118
	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					476	816																	148					178	
		18,5 160L					519	859																	163					193	
50-125	22 180M	65	50	100	555	895	425	292	132	160	-	121	-	-	241	343	279	354	-	15	186	160	110	120	1089	220	270	14	216		
	30 200L					555	895																		133					223	
	3 100L					292	557																		61					91	
50-125	4 112M	65	50	100	336	601	292	132	160	-	70	100	-	-	190	240	14	-	69	71	160	110	120	831	220	270	14	99			
	5,5 132S					336																		601					71	101	
50-125	7,5 132S	336	601	76	106																										

Technical Data

BNM/BNMV

FORM	PUMP TYPE	MOTOR		BNM HORIZONTAL INSTALLATION DIMENSIONS (mm)																		Weight (kg)	BNM-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				239	476	815				108	-	-	210	304	254	312	-	15	123				1045				153	
	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								168	
		18,5	160L																			153								183	
		22	180M																			176								206	
	50-250	18,5	160L	65	50	100	239	476	815	380	180	180	-	95	125	-	-	250	320	14	-	166	160	110	120	1088	220	270	14	196	
		22	180M																			189								219	
		30	200M																			226								256	
		37	200M																			245								275	
	65-125	4	112M	80	65	100	165	336	601	340	160	180	-	95	125	-	-	212	280	14	-	76	180	120	130	941	250	300	19	116	
		5,5	132S																			78								118	
		7,5	132S																			83								123	
		11	C132M																			103								143	
	65-160	11	160M	80	65	100	239	476	815	360	160	200	108	-	-	210	304	212	280	-	15	127	180	120	130	1065	250	300	19	167	
		15	160M																			134								174	
		18,5	160L																			149								189	
		22	180M																			159								199	
	65-200	18,5	160L	80	65	100	239	519	858	405	180	225	-	95	125	-	-	250	320	14	-	182	180	120	130	1108	250	300	19	222	
		22	180M																			199								259	
		30	200L																			219								297	
		37	200L																			259								339	
	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																			278									
37		200L	257																			297									
45		225M	299																			339									
D2	55	250M	80	65	100	283	644	1027	500	250	250	168	-	-	-	349	421	356	436	-	24	180	120	130	1277	250	300	19	373		
																					11								160M	134	177
																					15								160M	141	184
																					18,5								160L	156	199
D1	80-160	22	180M	100	80	125	239	476	840	405	180	225	-	95	125	-	-	250	320	14	-	179	230	140	130	1100	250	300	19	222	
		22	180M																			198								241	
		30	200L																			235								278	
		37	200L																			254								297	
80-200	45	225M	100	80	125	253	555	933	430	200	250	133	-	-	305	365	280	345	-	19	296	230	140	130	1203	250	300	19	339		
	22	180M																			241								280		
	30	200L																			254								297		
	37	200L																			296								339		
80-250	45	225M	100	80	125	253	555	933	480	200	280	133	-	-	305	365	318	350	-	19	268	230	140	130	1203	250	300	19	311		
	55	250M																			310								353		
	30	200L																			344								387		
	37	200L																			344								387		
D1	100-160	30	200L	125	100	125	253	555	933	480	200	280	133	-	-	305	365	318	350	-	241	200	155	145	1233	280	340	19	304		
		37	200L																		260								323		
		45	225M																		302								365		
		55	250M																		344								407		
100-200	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								331		
	45	225M																			310								373		
	55	250M																			344								407		
D2	55	250M	125	100	140	283	644	1052	480	250	280	168	-	-	-	349	421	406	484	-	24	200	155	145	1352	280	340	19	407		
D1	45	225M																			310								353		
D2	55	250M																			344								407		
D1	45	225M																			310								353		
D2	55	250M	344	407																											
D1	100-250	45	225M	125	100	140	253	625	1018	505	225	280	149	-	-	-	311	383	356	436	-	19	200	155	145	1318	280	340	19	382	
		55	250M																			283								644	1067

1450 rpm (4 pole Motor)

FORM	PUMP TYPE	MOTOR		BNM HORIZONTAL INSTALLATION DIMENSIONS (mm)														Weight (kg)	BNM-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	244	489	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	100	165	246	491	405	180	225	95	125	250	320	14	54	160	105	110	704	220	270	14	79		
		1,1	90S																								56	81
		1,5	90L																								66	91
		2,2	100L																								68	93
	40-125	3	100L	65	40	80	165	266	531	405	180	225	95	125	250	320	14	76	160	105	110	721	220	270	14	101		
		0,25	71M																								79	104
		0,37	71M																								44	74
		0,55	80M																								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
		1,1	90S																								49	79
		1,5	90L																								51	81
	40-200	0,75	80M	65	40	100	165	244	509	340	160	180	60	100	212	265	14	57	160	110	120	739	220	270	14	87		
		1,1	90S																								59	89
		1,5	90L																								61	91
		2,2	100L																								69	99

1450 rpm (4 pole Motor)

FORM	PUMP TYPE	MOTOR		BNM HORIZONTAL INSTALLATION DIMENSIONS (mm)														Weight (kg)	BNM-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	886									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								

1450 rpm (4 pole Motor)

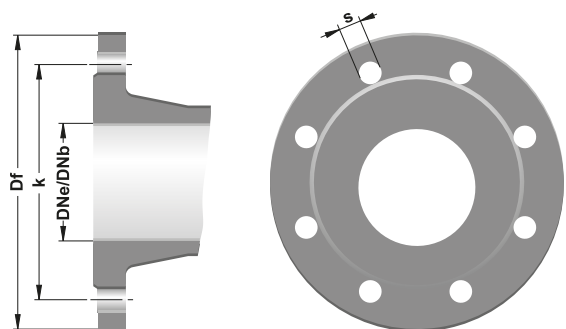
FORM	PUMP TYPE	MOTOR		BNM HORIZONTAL INSTALLATION DIMENSIONS (mm)														Weight (kg)	BNM-V VERTICAL INSTALLATION DIMENSIONS (mm)							Weight (kg)
		kW	IEC	Dne	Dnb	A	W	Lm	L	H	h1	h2	m1	m2	n1	n2	Sp		h3	h4	h5	La	KxK	B	Sa	
D1	100-200	3	100L	125	100	125	188	292	605	480	200	280	120	160	280	360	19	111	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	519	906									221				1163				284
		18,5	180M				253	555	948									250				1206				313
		22	180L				253	555	948									310				1248				321
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	519	914									358				1250				421
		37	225S				310	625	1075									408				1375				471
		45	225M				310	625	1075									445				1375				508
D1	125-200	7,5	132M	150	125	140	203	361	704	565	250	315	120	160	315	400	19	157	250	190	180	1074	340	400	23	237
		11	160M				247	476	863									182				1233				262
		15	160L				247	476	863									196				1233				276
		11	160M				247	476	863									198				1233				278
	125-250	15	160L	150	125	140	247	476	906	605	250	355	120	160	315	400	19	212	250	190	180	1233	340	400	23	292
		18,5	180L				519	906	241									1276				321				
		22	180M				519	906	249									1276				329				
		15	160L				476	871	249									1241				329				
	125-315	18,5	180M	150	125	140	255	519	914	635	280	355	150	200	400	500	23	278	250	190	180	1284	340	400	23	358
		22	180M				519	914	286									1284				366				
		30	200L				555	950	338									1320				418				
		37	225S				310	625	1075									388				1445				468
D2	125-400	37	225S	150	125	160	310	625	1095	635	280	355	150	200	400	500	23	413	250	190	180	1465	340	400	23	493
		45	225M				644	1114	450									1465				530				
		55	250M				644	1114	475									1484				555				
		11	160M				221	476	883									221				1438				336
D1	150-200	15	160L	200	150	160	247	476	883	635	280	355	150	200	400	500	23	235	315	225	330	1438	530	600	23	350
		18,5	180M				519	926	264									1481				379				
		15	160L				476	883	265									1333				380				
		18,5	180M				247	519	926									294				1438				409
D1	150-250	22	180L	200	150	160	253	555	968	655	280	375	150	200	400	500	23	302	315	225	330	1481	530	600	23	417
		30	200L				253	555	968									354				1481				469
		22	180L				255	519	934									306				1523				421
		30	200L				255	555	970									358				1489				473
D2	150-315	37	225S	200	150	160	310	625	1095	680	280	400	150	200	450	550	23	408	315	225	330	1650	530	600	23	523
		45	225M				310	625	1095									445				1650				560
		45	225M				625	1095	472									1650				587				
		55	250M				644	1114	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



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														

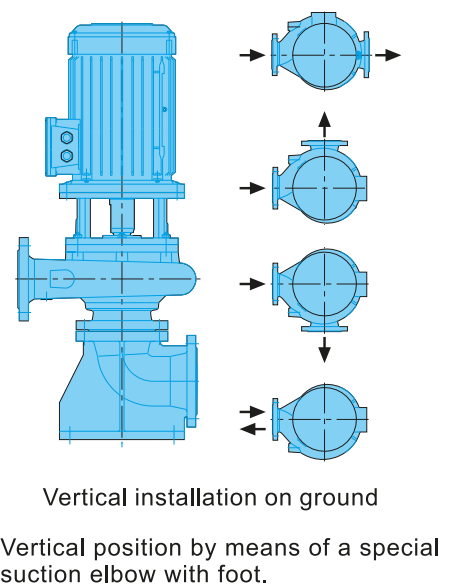
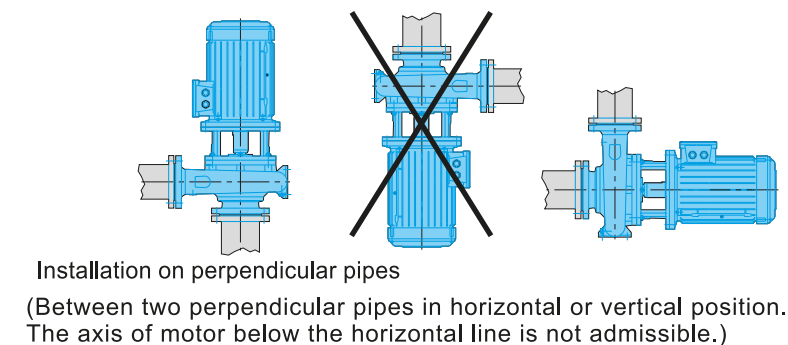
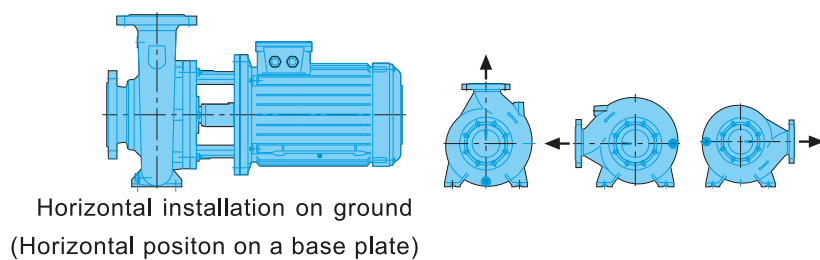
● manufacturing
○ Optinal

(*) 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



The logo consists of the word "BEDU" in a large, bold, white sans-serif font, with "POMPEN" in a smaller, white sans-serif font below it. The text is centered within a dark teal square, which is itself centered within a white square border.

BEDU
POMPEN

made for your process

- Expert advice
- A customer-oriented organization that adapts to the requirements and wishes of your organization
- Innovative and customized solutions
- Breakdownservice, 24 hours a day, 7 days a week
- Technical service with extensive test facilities, working from our own workplace or at your location
- A fast and appropriate solution for all your issues
- Wide range of liquid pumps
- Repair, maintenance and revision

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