

Micra®

Pompa · Yangın Söndürme Sistemleri · Hidrofor

MİCRA POMPA VE MAKİNA İMALAT LTD. ŞTİ.



SGM-VH VERTICAL MULTISTAGE CENTRIFUGAL PUMPS



Dağyaka mah. 614. cadde No:134 Kahramankazan / Ankara

+ 90 312 250 99 99

info@micrapompa.com

www.micrapompa.com

GENERAL INFORMATION

Discharge Flange	DN 32 - DN 150
Capacity	180 m³/h
Head	450 m
Frequency	Three-phase 50 Hz - 60 Hz*
Temperature of Pumped Liquid	From -25 °C to + 140 °C
Maximum Operating Pressure	25 bar (63 bar)*

Depending on the type of liquid, operating temperature and pressure. The pump material changes. Please contact our company for detailed information.

Shaft Sealing

Depending on request or requirement, pumps with soft packing or mechanical seals can be supplied.

Applications

Water Treatment and Pressurization	Power Plants
Heating, Ventilating and Air Conditioning	Oil Industry
Agricultural Irrigation and Drainage	Chemical Industry
Food and Beverage Industry	Mining
Iron and Steel Industry	Fire Fighting
Building System	

Transferable liquids

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

Pump Code

Pump Type **SGMV-H** **100 / 6**

Discharge Nozzle (DN-mm) _____

Number of Stages _____



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DESIGN FEATURES

Vertical, multistage centrifugal pumps with closed impellers and diffusers.

8 models from DN 32 to DN 150.

Suction nozzle flanges are according to DIN 2533 / PN 16 and discharge nozzle flanges are according to DIN 2535 / PN 40

Axial thrust is balanced by back wear ring and balancing holes in each impeller.

Pump impellers are balanced statically and dynamically according to ISO 1940 class 6.3.

Pump shaft is coupled with standard motor shaft by means of a flexible coupling.

Axial force is balanced by impeller balancing holes system.

The direction of rotation is counter clockwise

when viewed from the motor side.

Bearings

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



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Dimensions

1450 rpm		Dimensions(mm)										c (mm) Stage Number											
Pump Type	MOTOR IEC No	DN1	DN2	L	A	B	e	KxK	K1	s	1	2	3	4	5	6	7	8	9	10	11	12	
32	80	40	32	399+C	103	296	155	212	300	18	71	114	157	200	243	286	329	372	415	458	501	544	
	409+C			306																			
	405+C			302																			
40	90	50	40	415+C	103	312	175	212	300	18	78	133	188	243	298	353	408	463	518	573	628	683	
	435+C			332																			
	100																						
50	112	65	50	453+C	114	339	190	247	350	18	90	152	214	276	338	400	462	524	586	648	710	772	
	132			473+C		359																	
	160			503+C		389																	
65	100	80	65	505+C	135	370	215	247	350	18	107	178	249	320	391	462	533	604	675	746	-	-	
	112			525+C		390																	
	132			555+C		420																	
80	160	100	80	568+C	145	423	265	247	350	23	112	195	278	361	444	527	610	693	776	859	-	-	
	180			598+C		453																	
	200			628+C		483																	
100	225	125	100	675+C	171	504	300	318	450	23	133	233	333	433	533	633	733	833	-	-	-	-	
	250			705+C		534																	
	280																						
125	200	150	125	717+C	179	538	375	424	600	27	165	280	395	510	625	740	-	-	-	-	-	-	
	225			747+C		568																	
	250			777+C		598																	
150	280	200	150	888+C	265	623	425	424	600	27	218	363	508	-	-	-	-	-	-	-	-	-	
	315			918+C		653																	



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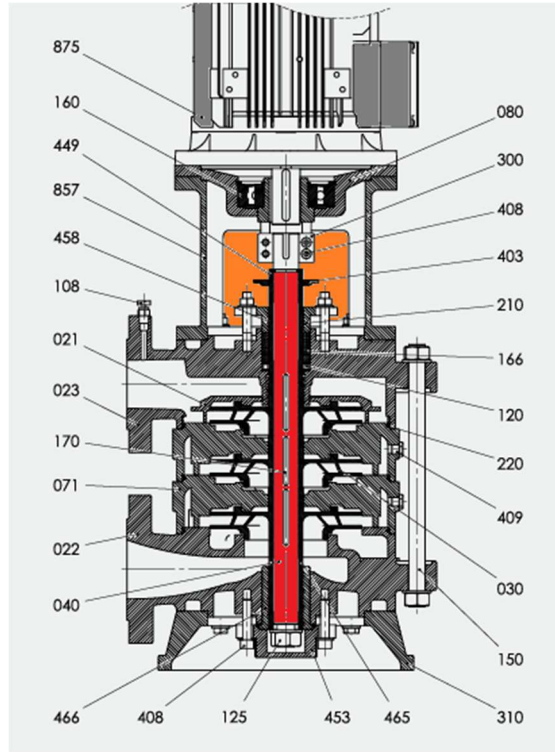
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2900 rpm

Pump Type	MOTOR IEC No	Dimensions(mm)										c (mm) Stage Number											
		DN1	DN2	L	A	B	e	KxK	K1	s	1	2	3	4	5	6	7	8	9	10	11	12	
32	112	40	32	409+C	103	306	155	212	300	18	71	114	157	200	243	286	329	372	415	458	501	544	
	429+C			326																			
	459+C			356																			
	435+C			332																			
40	132	50	40	465+C	103	362	175	212	300	18	78	133	188	243	298	353	408	463	518	573	628	-	
	160			495+C		392																	
	180																						
	200																						
50	225	65	50	503+C	114	389	190	247	350	18	90	152	214	276	338	400	462	524	-	-	-	-	
	250			533+C		419																	
65	160	80	65	555+C	135	420	215	247	350	18	107	178	249	320	391	-	-	-	-	-	-	-	
	180					480																	
	200																						
	225			615+C																			
80	250	100	80	598+C	145	453	265	247	350	23	112	195	278	-	-	-	-	-	-	-	-		
	225			628+C		483																	
	250																						
	280																						

SECTIONAL VIEW



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PART NAME

Discharge Diffuser	021	Basma Difüzörü
Suction Body	022	Emme Gövdesi
Discharge Body	023	Basma Gövdesi
Impeller	030	Çark
Shaft	040	Mil
Stage Body	071	Kademe Gövdesi
Bearing Housing	080	Rulman Yatağı
Air Purge	108	Hava Purjörü
Nut	120	Sulama Halkısı
Nut	125	Somun
Casing Tiebolt	150	Saplama
Bearing	160	Rulman
Soft Packing	166	Yumuşak Salmastra
Pin	170	Kama
Connection Support	210	Salmastra Baskısı
O-Ring	220	O-Ring
Coupling	300	Kaplin
Table	310	Tabla
Throw Protection	403	Su Sıçratma Diski
Bolt	408	DIN 912 Yarım Paso Cıvata
Bolt	409	BSP Cıvata
Seal Setting Sleeve	449	Salmastra Mesafe Burcu
Suction Housing Cover	453	Emme Yatak Kapağı
Seal Sleeve	458	Salmastra Burcu
Suction Housing Sleeve	465	Emme Yatak Burcu
Suction Housing	466	Emme Yatağı
Motor Support Foot	857	Motor Taşıyıcı
Electric Motor	875	Elektrik Motoru

MATERIAL OPTION

Part List	0.6025	0.7040	1.7043	1.0619	1.4308	1.4309	1.4408	1.4409	1.4500	1.4517	1.4469	1.4317	1.4008	2.1050.01	2.0975.01	2.1096.01	1.0503	1.4021	1.4021+QT	1.4301	1.4404	1.4460	1.4462	Tungsten Carbide
Suction Body	●	○	○		○	○	○	○	○	○	○	○	○	○										
Discharge Body	●	○	○		○	○	○	○	○	○	○	○	○	○										
Stage Body	●	○	○		○	○	○	○	○	○	○	○	○	○										
Diffuser	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○								
Impeller	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○						○		
Shaft																		●	○	○	○		○	
Wear Ring	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○								
Shaft Sleeve																	●	○	○	○	○		○	
Seal Sleeve																	●	○	○	○	○		○	
Stage Sleeve																	●	○	○	○	○		○	
Bearing Bush														●										○
Mechanical Seal (*)	EN 12756 / DIN 24250																							



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(*) Options: Different brand and type mechanical seal can be use according to customer request.

● Standard Manufacturing

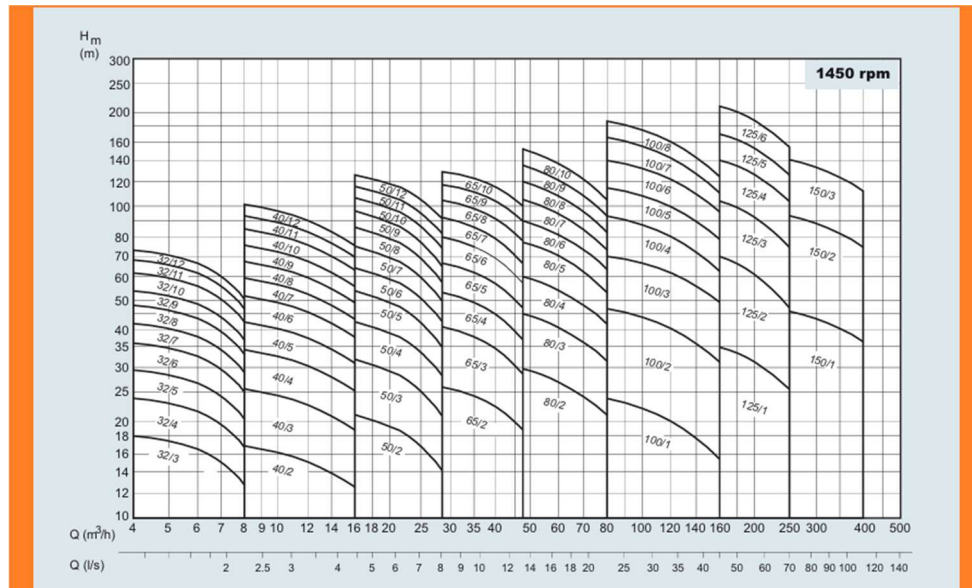
○ Optional

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-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

SELECTION CHARTS

1500 RPM



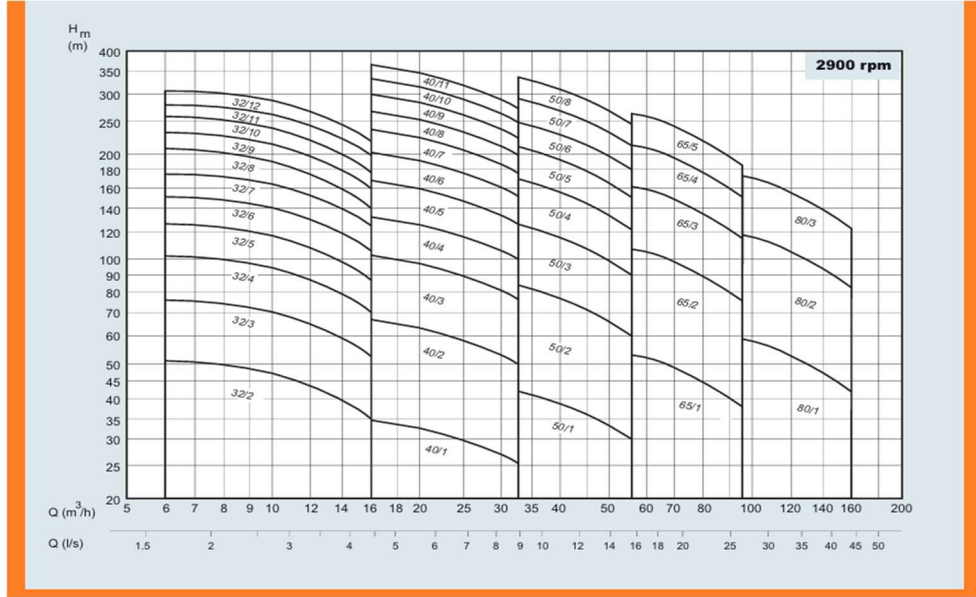
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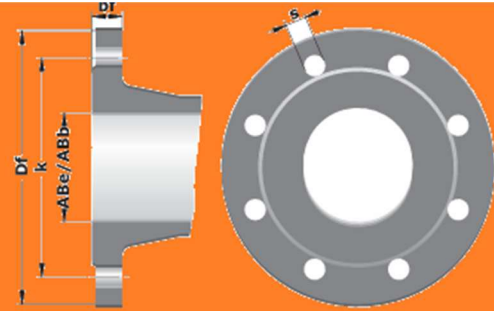
3000 RPM



FLANGE DIMENSIONS

Pump Type	Suction (PN 16)						Discharge (PN 40)					
	ABe	Df	k	s	n	bf	ABb	Df	k	s	n	bf
32	40	150	110	18	4	18	32	140	100	18	4	20
40	50	165	125	18	4	20	40	150	110	18	4	20
50	65	185	145	18	4	20	50	165	125	18	4	22
65	80	200	160	18	8	22	65	185	145	18	8	24
80	100	220	180	18	8	24	80	200	160	18	8	26
100	125	250	210	18	8	26	100	235	190	23	8	28
125	150	285	240	23	8	26	125	270	220	27	8	30
150	200	340	295	23	12	30	150	300	250	27	8	34

"n" number of holes



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