

Micra®

Pompa · Yangın Söndürme Sistemleri · Hidrofor

MİCRA POMPA VE MAKİNA İMALAT LTD. ŞTİ.



SGC-V SERIES VERTICAL DOUBLE SUCTION SPLITCASE PUMPS



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

+ 90 312 250 99 99

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www.micrapompa.com

GENERAL INFORMATION

Discharge Flange	DN 65 – DN 600
Capacity	up to 6000 m³/h
Head	up to 180 m
Working Temperature	From -20 °C to + 110 °C*
Casign Pressure (Pmax)	16 bar - 25 bar*

(Pmax: Suction Pressure + Shut off Head)

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

Transferable Liquids

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

Design Features

· Suction and discharge flanges are on the same axis line. The double-suction design reduces axial forces by directing flow into both sides of the impeller. The double-volute design, available on most models, reduces the radial load and minimizes noise and vibration.

Suction and discharge flanges are PN 16 according to EN 1092-2 (DIN2501).

Seal box is cooled with water. Seals are easily dismountable, which makes replacing and fitting up additional seals easy.

Replaceable case wear rings protect the pump casing and reducing maintenance costs.

Bronze shaft sleeves protect the shaft and help with fixation of the impeller.

In horizontal installation, ball bearing with grease lubrication is used as standard. In the case of vertical installation, the bearing with fluid lubrication is used on the lower side and the ball bearing with grease lubrication is used on the upper side.

Split-case pumps could manufacturing horizontal

The impellers are dynamically balanced according to ISO 1940 class 6.3.

· Direction of rotation is clockwise when viewed from the motor in standard manufacture. In this case, the suction flange is on the right side. If required, the direction of rotation can be adjusted counter-clockwise. In this case, the suction flange is on the left side.

Shaft Sealing

Single, double, carter type mechanical seal or soft packing is used depending on the type of fluid and operating conditions.



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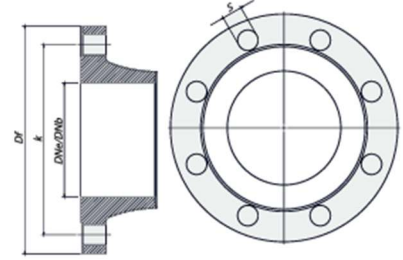
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Applications

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	Marine
Building System	Fire Fighting

FLANGE DIMENSIONS

Pump Type Pompa Tipi	Suction & Discharge / Emme & Basma (PN 16)				Suction & Discharge / Emme & Basma (PN 25)			
	Df	k	s	n	Df	k	s	n
65	185	145	19	4	185	145	19	8
80	200	160	19	8	200	160	19	8
100	220	180	19	8	235	190	23	8
125	250	210	19	8	270	220	28	8
150	285	240	24	8	300	250	28	8
200	340	295	24	12	360	310	28	12
250	405	355	28	12	425	370	31	12
300	460	410	28	12	485	430	31	16
350	520	470	28	16	555	490	34	16



PUMP CODE

SGC- V 80 - 315

Pump Type _____
Vertical Installation _____
Discharge Nozzle (DN-mm) _____
Nominal Impeller Diameter (mm) _____



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TECHNICAL SPECIFICATIONS

Pump Type / Pompa Tipi	Shaft End Diameter Mil Ucu Çapı	Mechanical Seal Diameter Mekanik Salmastıra Çapı
65-250	35	50
80-200	35	50
80-250	35	50
80-315	35	50
100-250	42	60
100-315	42	60
100-400	42	60
125-480	42	60
125-315	55	70
125-350	55	70
125-450	55	70
150-315	55	70
150-460	55	70
200-430	55	70
150-600	65	80
200-315	65	80
200-400	65	80
200-500	65	80
250-350	65	80
250-450	65	80
300-315	65	80
300-400	60	80
350-350	75	100
350-400	75	100
250-600	80	100
300-500	80	100
350-500	80	100
300-700	100	120
350-600	100	120
350-700	100	120



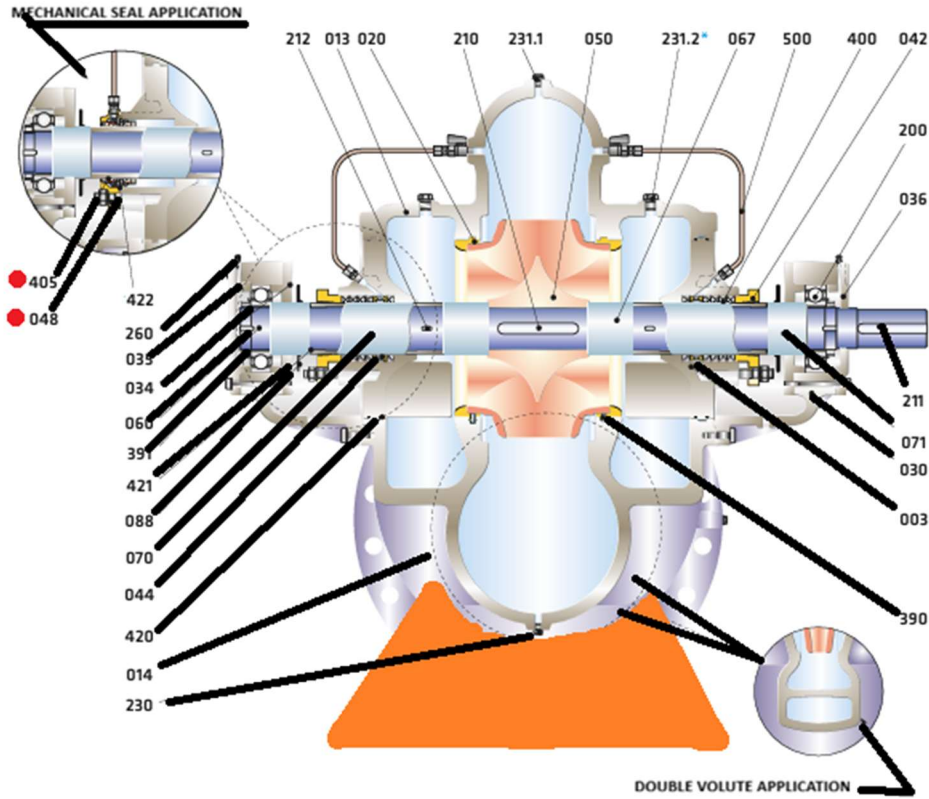
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SECTIONAL VIEW



PART LIST

003	Stuffing Box	200	Ball Bearing
013	Volute Casing (top half)	210	Impeller Key
014	Volute Casing (bottom half)	211	Coupling Key
020	Wear Ring	212	Spacer Sleeve Key
030	Bearing Bracket	230	Drain Plug
034	Bearing Cover (inboard)	231.1	Air Plug
035	Bearing Cover (outboard)	*231.2	Air Plug
036	Bearing Cover (coupling)	260	Grease Nipple
042	Stuffing Box Gland	390	Pin
044	Lantern Ring	391	Shaft Nut & Lock Washer
*048	Mechanical Seal Cover	400	Stuffing Box Packing
050	Impeller	*405	Mechanical Seal
060	Pump Shaft	420	O-Ring
067	Spacer Sleeve	421	O-Ring
070	Shaft Protecting Sleeve	*422	O-Ring
071	Shaft Protecting Sleeve	500	Flushing Pipe
088	Thrower		



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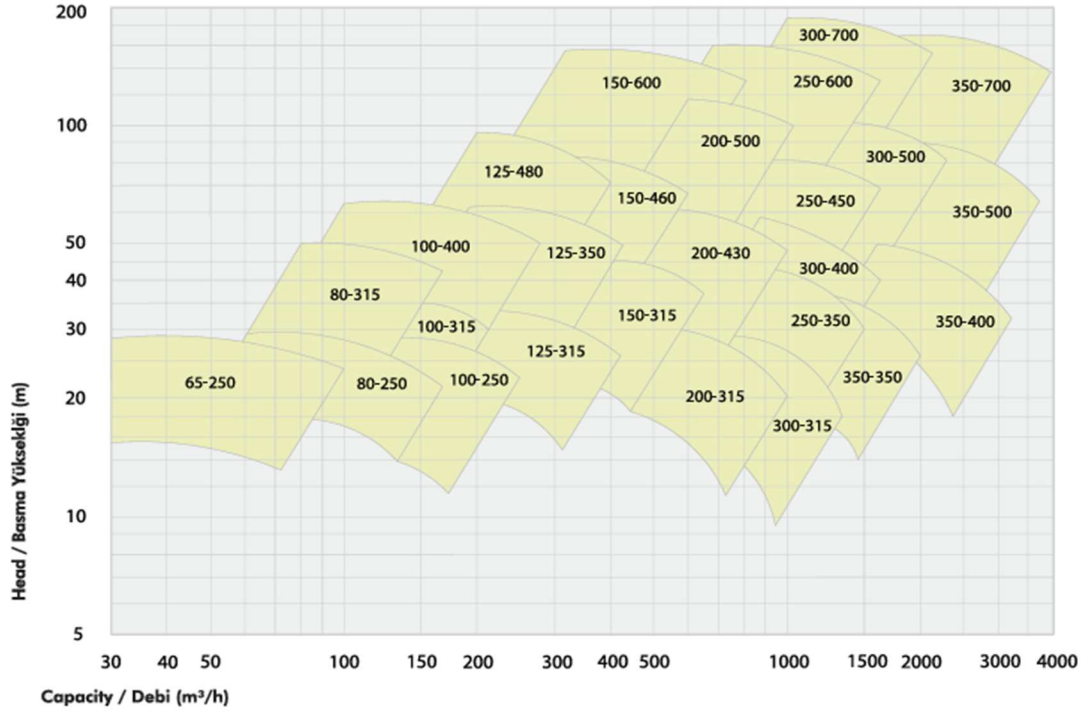
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SELECTION CHARTS

1450 rpm / (d/d) (50 Hz)



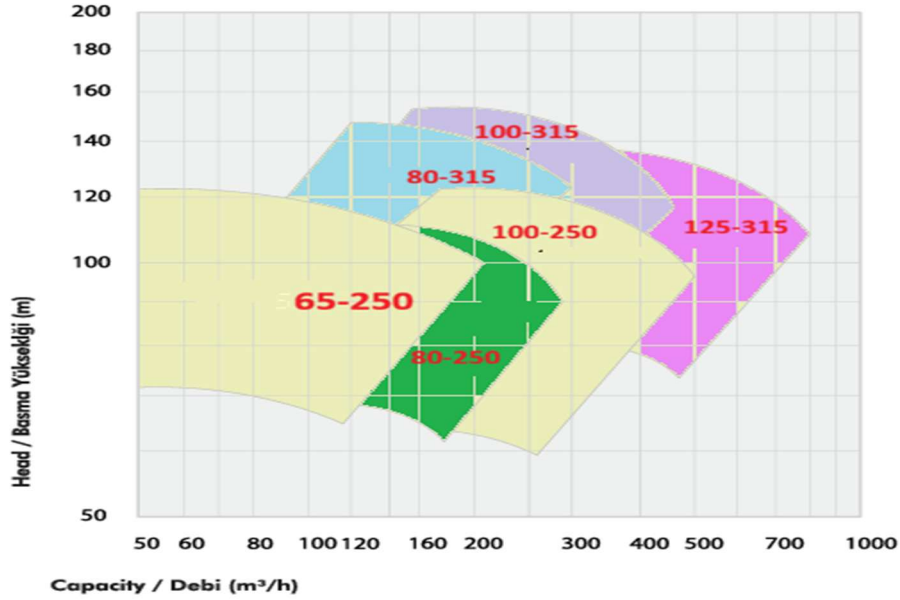
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2900 rpm / (d/d) (50 Hz)



SEAL SOLUTIONS

Packing Type / Salmastra Tipi	Packing Specifications / Salmastra Özellikleri	
	Temperature / Sıcaklık	Pressure / Basınç
MG1	t = -20 °C ... +85 °C t = +85 °C ... +100 °C (*)	p1 = 16 bar (230 PSI) p1 = 16 bar (230 PSI) (*)
H12N	t = +100 °C ... +140 °C	p1 = 25 bar (363 PSI)
M7N	t = -20 °C ... +220 °C	p1 = 25 bar (363 PSI)
Soft Packing / Yumuşak Salmastra	t = -20 °C ... +100 °C	p1 = 10 bar (145 PSI)
	t = -20 °C ... +140 °C (*)	p1 = 25 bar (230 PSI) (*)
CARTEX - DN	t = -20 °C ... +220 °C	p1 = 25 bar (363 PSI)

□ (*) Optional

*Note: Above datas mentioned according to BURGMANN Brand.
Packing can be changed according to customer request.

*Different seal application can be used according to liquid specification.



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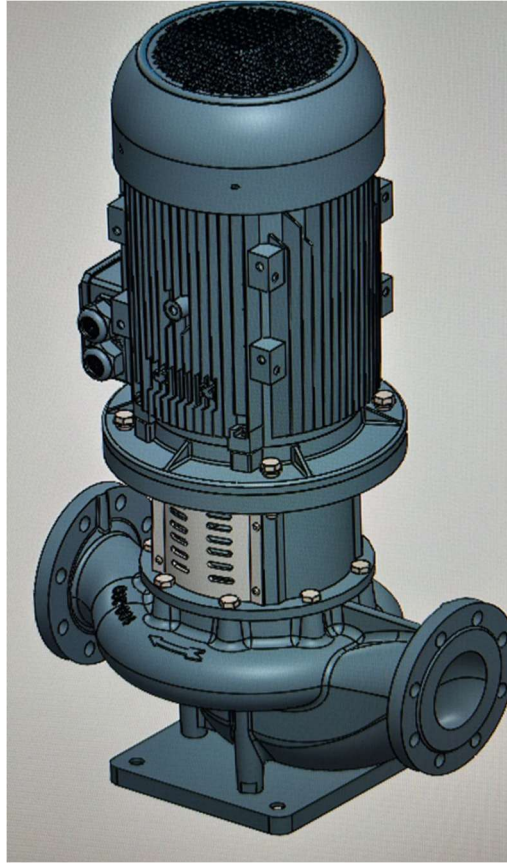
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