

SELF-PRIMING SIDE CHANNEL PUMP



SEMA

made for your process







Self-priming Side Channel Pump SEMA®.

Sealless with Magnetic Drive.

- Gas Handling
- Low NPSH requirements (SEMA-S)
- Leak Proof
- Modular Design with many Standardized Parts

Save handling of Toxic or Aggressive Liquids also with High Gas Content.

SEMA[®] – No compromise.



Construction

SEMA 110–660	
Nozzle position	suction: axial discharge: radial
Flanges	accord. EN 1092 PN 40 or ANSI 300 lbs as an option
Shaft seal	sealless due to magnetic coupling
Bearing	Combined medium lubricated axial-radial bearing in SiC or carbon and medium lubricated carbon bearings in every stage, plus two heavy atmospheric and maintenan- ce-free single-row ball bearings greased for bearing lifetime.
Direction of rotation	counterclockwise (seen from drive-end) for SEMA-S and SEMA-L, clockwise for SEMA-Z

Operating data

SEMA 110-660		
Flow rates	up to 36 m³/h up to 42 m³/h	(1450 1/min) (1750 1/min)
Heads	up to 350 m up to 550 m	(1450 1/min) (1750 1/min)
Speed	900 - 1800 1/min	
Temperature	-60 °C up to +220 °C	
Nom. Pressure	max. 40 bar (depending on mech. seal)	
NPSH	starts at 0,35 m starts at 1 m	(SEMA-S) (SEMA-L/Z)

Features



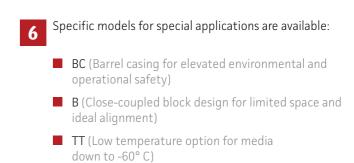
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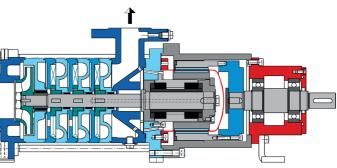








K (High temperature option for media up to +220° C)



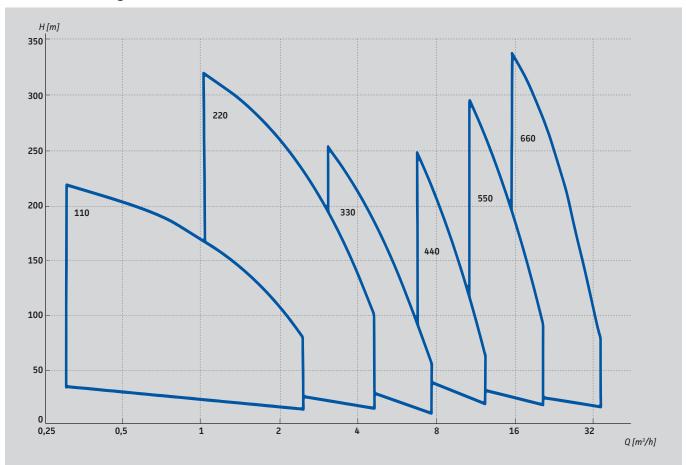




Material specification

	cast iron (12)	ductile iron (62)	stainless steel (32)	
Casings	GJS 400-18	GJS 400-18	1.4408	
Inner stage casings	GJL 200	GJS 400-15	1.4470	
Shaft	1.4021	1.4021	1.4571	
Impeller	1.4059	1.4059	1.4581	
Bearing bushing	Carbon	Carbon	Carbon	
Sleeve bearing (mag drive)	S2 (SiC-SiC) I S4 (SiC-Carbon)			
Split can	1.4571 [stainless steel] 2.4610 [Hastelloy C4] CFK [carbon fiber reinforced plastic]			
Flange (split can)	1.4571 [stainless steel] 2.4610 [Hastelloy C4] 1.4462 [duplex steel]			

[Subject to modifications]



Performance range 1450 min-1



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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