





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 maintenance-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

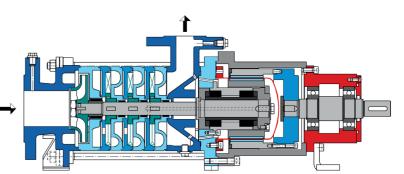
SEMA 110-660			
Flow rates	up to 36 m³/h (1450 1/min) up to 42 m³/h (1750 1/min)		
Heads	up to 350 m (1450 1/min) up to 550 m (1750 1/min)		
Speed	900 - 1800 1/min		
Temperature	-60 °C up to +220 °C		
Nom. Pressure	max. 40 bar (depending on mech. seal)		
NPSH	starts at 0,35 m (SEMA-S) starts at 1 m (SEMA-L/Z)		

Features

- Robust, compact castings in various designs.
- Open star impellers with automatic hydraulic axial balance. Free of axial thrust.
- SEMA-S with an additional NPSH-impeller guarantees extremely low NPSH values (axial inlet).
- Permanent magnetic coupling with completely encapsulated inner rotor and oversized SiC drive-end sleeve bearing.
- The heavy atmospheric ball bearings with lifetime grease-filling are maintenance-free. Oil lubrication as an option.

- Specific models for special applications are available:
 - BC (Barrel casing for elevated environmental and operational safety)
 - B (Close-coupled block design for limited space and ideal alignment)
 - TT (Low temperature option for media
 - K (High temperature option for media up to +220° C)







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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] I 2.4610 [Hastelloy C4] I CFK [carbon fiber reinforced plastic]			
Flange (split can)	1.4571 [stainless steel] I 2.4610 [Hastelloy C4] I 1.4462 [duplex steel]			

[Subject to modifications]

Performance range 1450 min-1

