

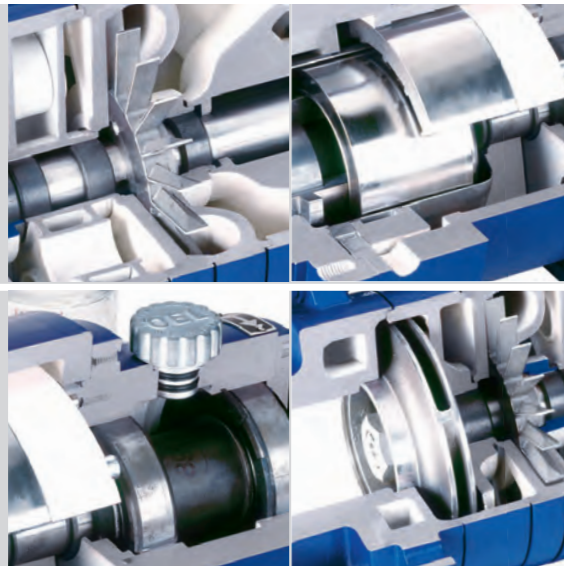
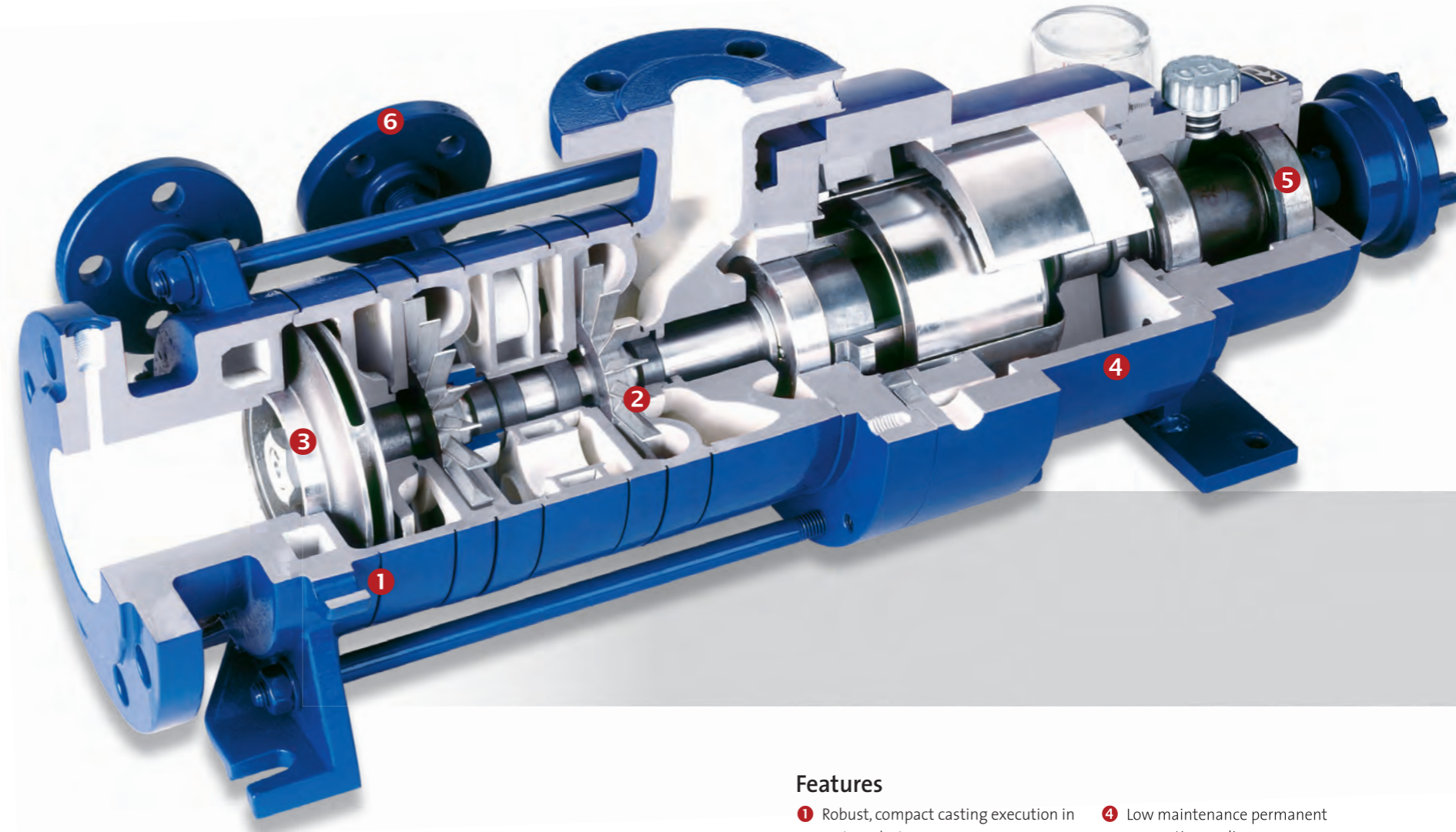
Selfpriming Side Channel Pump SEMA®.

Sealless with Magnetic Drive.

- Ability to Pump Process Fluids with Entrained Gas
- Low NPSH requirements
- Modular Construction with Standardized Parts
- Low Flows with High Head

Secure Delivery of Toxic or Aggressive Liquids
also with High Gas Content.

SEMA® – Zero Leakage.



Features

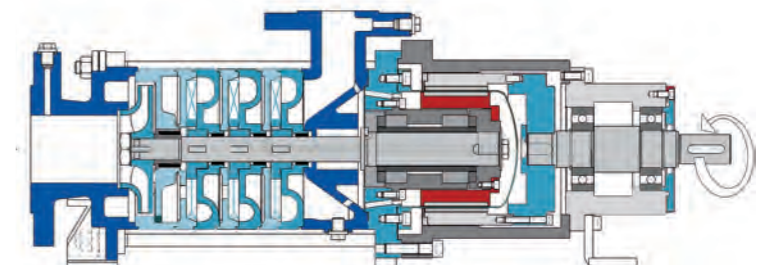
- 1 Robust, compact casting execution in various designs
- 2 Open star impellers guarantee the highest hydraulic axial thrust equalization
- 3 SEMA-S with an additional NPSH-impeller guarantees extremely low NPSH values
- 4 Low maintenance permanent magnetic coupling
- 5 Support of the outer magnet systems by two grease-lubricated ball bearings
- 6 Available in many designs and configurations such as for low temperatures or compact block designs

Construction

SEMA 110-660	
Nozzle position	End suction: axial or radial inlet Top discharge: radial outlet
Flanges	DIN 2501PN 40 or ANSI 300 lbs optional
Shaft seal	sealless due to magnetic coupling
Bearing	Combined medium lubricated axial-radial bearing in SIC or carbon and fluid lubricated carbon slide bearings in every stage plus two grease-lubricated ball bearings
Direction of rotation	counterclockwise for SEMA-S and SEMA-L, clockwise for SEMA-Z

Operating Data

SEMA 110-660	
Flow rates	0,3 to 36 m³/h
Heads	up to 250 m
Speed	up to 1800 1/min
Temperature	-60 °C up to +200 °C
Nom. Pressure	up to 40 bar
NPSH	
SEMA-L (Z)	> 1 m
SEMA-S	> 0,4 m



Material Specification

	cast iron (12)	ductile iron (62)	stainless steel (32)
Casings	GG-25	GGG-40.3	1.4408
Inner stage casings	GG-25	GGG-40	1.4470
Shaft	1.4021	1.4021	1.4470
Impeller	1.4059	1.4059	1.4581
Suction impeller	1.4581	1.4581	1.4581
Bearing bushing	Coal	Coal	Coal
Sleeve bearing (mag drive)	1.4462 / SiC-SiC	1.4462 / SiC-SiC	1.4462 / SiC-SiC
Shaft sleeve	SiSiC	SiSiC	SiSiC
Separation chamber /flange	1.4571 / 1.4571*	1.4571 / 1.4571*	1.4571 / 1.4571*

* available also in 2.4610 / 1.4462 or 2.4610 / 2.4610

Performance field

