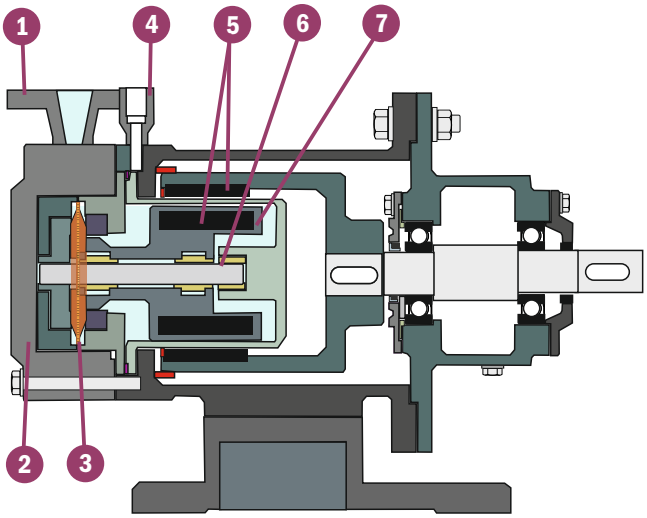
STM Range
Magnetically Driven Pumps



DESIGN SUMMARY

Standards	Internal - API 685
Configuration	Horizontal long or close coupled
Motors	IE2, IE3
Seal Type	Magnetic Drive

SPECIFICATIONS

Maximum Temp	300 °C
Minimum Temp	-150 °C
Max Flow	9 m^3/hr
Max Head	95 m
Max Pressures	250 bar total system
ATEX	Yes

MATERIALS

	Standard	Options
Rear Casing	CF8M SS	HC276, Tit Gr.5
Front Casing	CF8M SS	HC276, Tit Gr.5
Impeller	CF8M SS	HC276, Tit Gr.5
Shaft	SiC	316 Hard, HC276
Bearings	PTFE	Carbon, SiC
O Ring:	Viton	EPDM, FEP
Magnets	Samarium Colbalt	

DESIGN FEATURES

STM pumps are peripheral turbine pumps designed for low flow high head applications and directly replace Caster MTA pumps..

1. BSP, NPT, PN16/25 or ANSI 150/300 connections.
2. Thick wall housings machined from solid block.
3. Peripheral turbine require a low NPSH and can pump liquids with 20% entrained gases.
4. Slot for PT 100 temperature probe on ATEX versions.
5. Powerful Samarium Colbalt magnets that allow STM pumps to cope with high SGs and liquid temperatures up to 300 ºC.
6. SiC shaft with PTFE bearing as standard to give improved chemical and mechanical resistance.
7. Internal magnet casing can be vacuum welded to withstand high temp and full vacuum systems.

The STM pumps are supplemented by the PTM range manufactured from polypropylene or PVDF.

STM - Performance Curves