

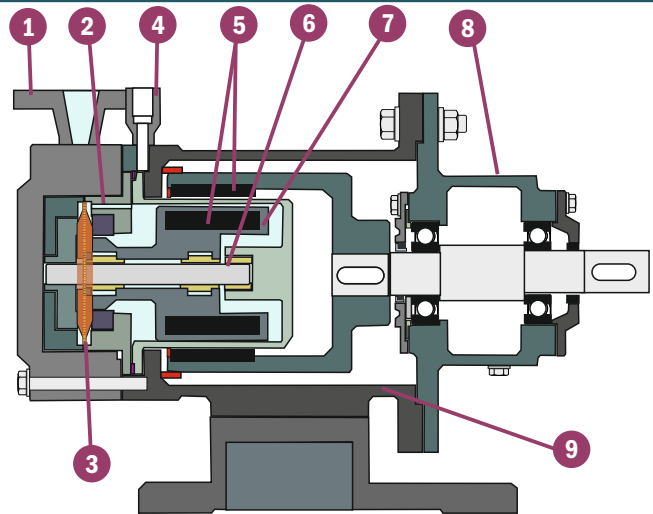


## Turbine Pumps

### STM Range Magnetically Driven Pumps

#### DESIGN SUMMARY

<b>Standards</b>	API 685 (deviations) - ISO 15783
<b>Configuration</b>	Horizontal long or close coupled
<b>Motors</b>	IEC, NEMA
<b>Seal Type</b>	Magnetic Drive



#### SPECIFICATIONS

<b>Maximum Temp</b>	315 °C
<b>Minimum Temp</b>	-150 °C
<b>Max Flow</b>	9 m <sup>3</sup> /hr
<b>Max Head</b>	95 m
<b>Max Pressures</b>	250 bar total system
<b>ATEX</b>	Yes

#### DESIGN FEATURES

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

- 1 ANSI 300 RF connections.
- 2 Internal re-circulation to rear pump housing.
- 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 315 °C.
- 6 SiC shaft with SiC bearing as standard to give improved chemical and mechanical resistance.
- 7 Hastelloy or single piece titanium rear housing.
- 8 Optional long coupled.
- 9 Optional carbon steel motor bracket to give secondary containment..

#### MATERIALS

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

The STM pumps are supplemented by the SVM rotary vane pumps to API 676..



# STM - Performance Curves

2950 rpm

