

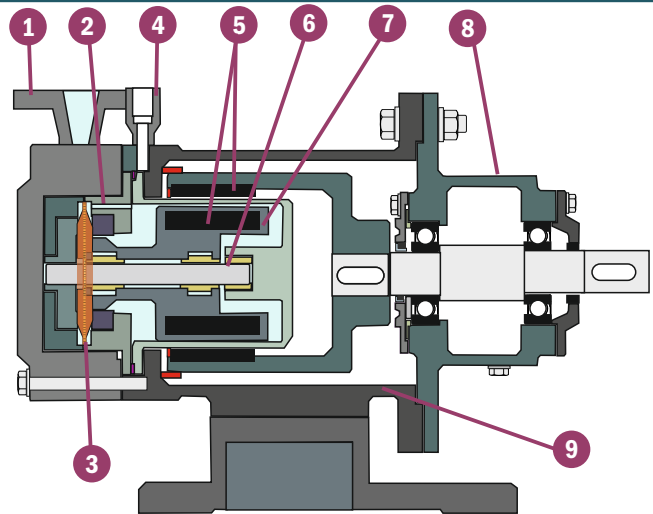


Turbine Pumps

STM Range Magnetically Driven Pumps

DESIGN SUMMARY

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



SPECIFICATIONS

| | |
|----------------------|----------------------|
| Maximum Temp | 315 °C |
| Minimum Temp | -150 °C |
| Max Flow | 9 m ³ /hr |
| Max Head | 95 m |
| Max Pressures | 250 bar total system |
| ATEX | 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 |
|------------------------|------------------|----------------|
| Rear Casing | HC276 | Ti Gr.5 |
| Front Casing | CF8M SS | HC276, Ti Gr.5 |
| Impeller | CF8M SS | HC276, Ti Gr.5 |
| Shaft | SiC | 316 Hard, |
| Shaft Bearings | SiC | PTFE, Carbon |
| Thrust Bearings | Carbon | PTFE |
| O Ring: | Viton | EPDM, FEP |
| Magnets | Samarium Colbalt | |

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



STM - Performance Curves

2950 rpm

