

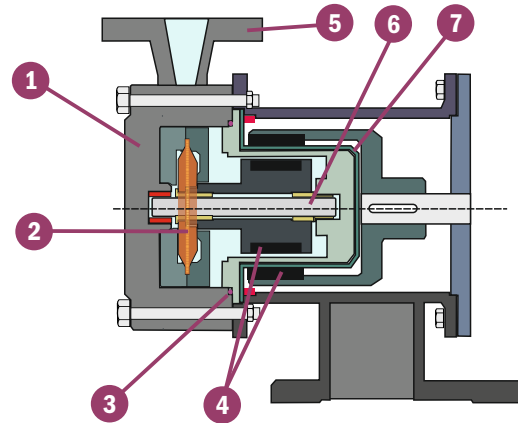


## Turbine Pumps

### PTM-SP Range Magnetically Driven Self Priming Pumps

#### DESIGN SUMMARY

|                      |                |
|----------------------|----------------|
| <b>Standards</b>     | ISO 9001       |
| <b>Configuration</b> | Close coupled  |
| <b>Motors</b>        | IE2, IE3       |
| <b>Seal Type</b>     | Magnetic Drive |



#### SPECIFICATIONS

|                      |                       |
|----------------------|-----------------------|
| <b>Maximum Temp</b>  | 80 °C                 |
| <b>Minimum Temp</b>  | -40 °C                |
| <b>Max Flow</b>      | 10 m <sup>3</sup> /hr |
| <b>Max Head</b>      | 50 m                  |
| <b>Max Pressures</b> | 10 bar total system   |
| <b>ATEX</b>          | Yes                   |

#### MATERIALS

|                     | Standard  | Options    |
|---------------------|-----------|------------|
| <b>Rear Casing</b>  | PP        | PVDF       |
| <b>Front Casing</b> | PP        | PVDF       |
| <b>Impeller</b>     | PP        | PVDF       |
| <b>Shaft</b>        | SiC       |            |
| <b>Bearings</b>     | PTFE      | SiC        |
| <b>O Ring:</b>      | EPDM      | Viton, FEP |
| <b>Magnets</b>      | Neodymium |            |

#### DESIGN FEATURES

PTM-SP pumps are peripheral turbine pumps designed for low flow high head applications and directly replace Caster MT pumps..

- 1 Thick wall housings machined from solid block polypropylene or PVDF.
- 2 Peripheral turbine that requires a low NPSH and can pump liquids with 20% entrained gases.
- 3 Viton, EPDM or FEP O rings.
- 4 Powerful rare earth Neodymium magnets.
- 5 BSP, NPT, PN10, PN16 or ANSI 150 connections
- 6 SiC shaft with PTFE bearing as standard to give improved chemical and mechanical resistance.
- 7 Secondary carbon fibre containment shell on sizes above 2.5 x 6.5 as standard and option on smaller sizes.

The PTM pumps are supplemented by the standard PTM range and STM stainless steel turbine pumps.



# PTM - Performance Curves

2950 rpm

