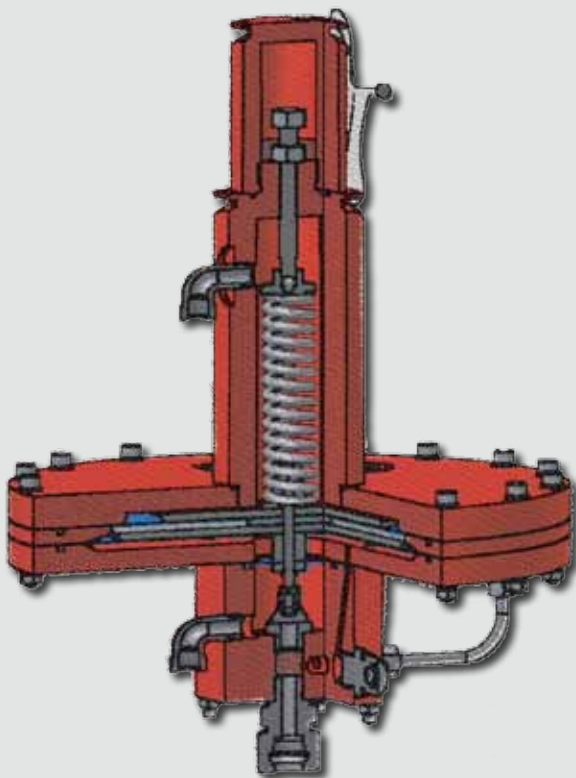


## Pressure/Vacuum Relief Valve; Pilot-Operated Diaphragm Valve

The PROTEGO® PM-HF pilot-operated diaphragm valve is a persuasive design, sealing extremely tight. Minimal product losses and hence reduced environmental impact are guaranteed. The valve can be put to service in applications where temperatures as low as  $-200^{\circ}\text{C}$  prevail.



*cut drawing of pilot*



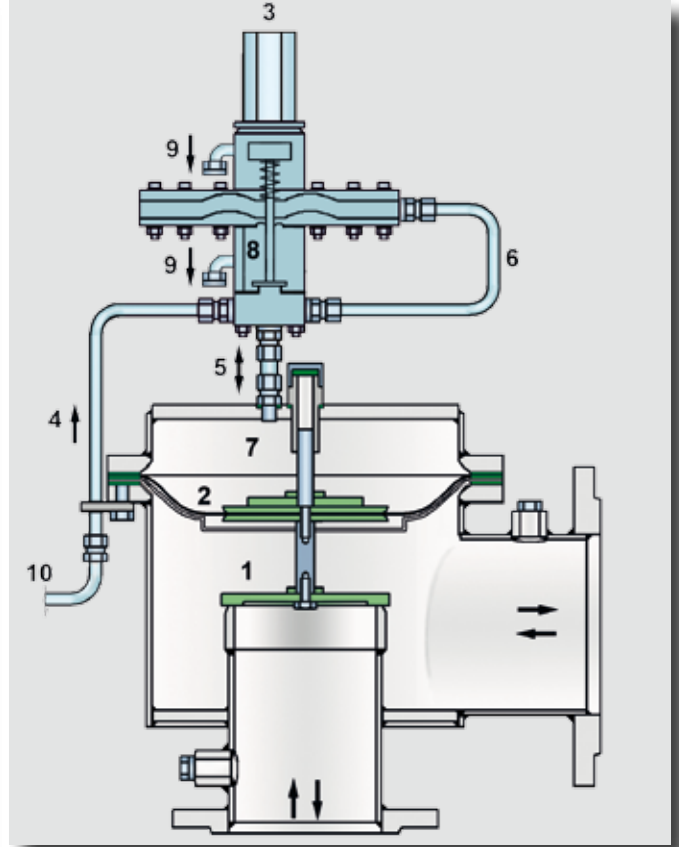
*the heart of PROTEGO® PM-HF is the pilot*

### Special Advantages of the PROTEGO® PM-HF

- In accordance with API 2000 recommendations
- Increased set pressure up to 1034 mbar (15 psig)
- Blow down < 7 %
- Optimized flow performance



## PM-HF - Function Schematic



### Features

- Designed for use at low temperatures
- Seals extremely tight; hence, least possible product losses and reduced impact on the environment
- 10% technology for minimum pressure increase until full lift
- Set pressure very close to the opening pressure; hence, optimum pressure kept in the system
- Control with corrosion-resistant spring-loaded pilot valve
- Control diaphragm of the main valve shielded from low temperatures - long service life
- Suited for use in hazardous areas
- Automatic condensate drain

- 1 Main-valve pallet
- 2 Main-valve diaphragm
- 3 Spring-loaded pilot valve
- 4 Filling line
- 5 Venting and breather line
- 6 Control line
- 7 Main-valve chamber
- 8 Connecting bore
- 9 Top/Bottom outlet
- 10 External control line

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