



Quartz GEM® Trap

Generic Low Duty Venturi Orifice Steam Trap. Rev 3 Oct 2012

The GEM® Trap

The GEM Trap is a staged venturi orifice steam trap. It has no moving parts so will not wear and cannot fail. The unique venturi orifice technology utilises the expansion of the flash steam created by the pressure differential across the trap to control the flow of condensate.

Operating over variable loads, the GEM Trap will suit all industrial applications. The single piece bodies are manufactured from wear and corrosion resistant grades of stainless steel.

The GEM Trap is the most energy efficient steam trap on the market and is supplied with a 10 year performance guarantee*, and a full sizing and commissioning service.

The Quartz GEM® Trap

- Suited for generic low condensate duty applications
- Un-calibrated for minimal loads
- Same face to face dimension as mechanical traps

Quartz Traps contain GEM's inverted cone technology and an integral thimble filter to further protect the orifice from debris.

Suitable Applications

- High volume generic trapping
- Low condensate duty applications
- Line drainage / trace heating

Operating Parameters

- PMA 50 Bar (730psi)
- TMA 400°C (750°F)

Available Spares

- Thimble Filter
- Circlip



Sizes and Connection Types Available

	Threaded BSP / NPT	Socket Weld
DN15 / 1/2 "	✓	✓
DN20 / 3/4 "	✓	✓

Key GEM® Trap Benefits

Quality, Efficiency, Reliability and Service

- > 10 Year performance guarantee*
- > No moving parts to wear or fail
- > No inserts - no leak path
- > No ongoing trap surveys
- > Minimal annual maintenance
- > Does not contribute to waterhammer
- > No pressurisation of condensate return system
- > Inherently more efficient than mechanical traps
- > Typical payback < 2 years
- > Permanent energy savings
- > Each traps supplied with full sizing and commissioning service

* Reduced guarantee offered for superheated steam



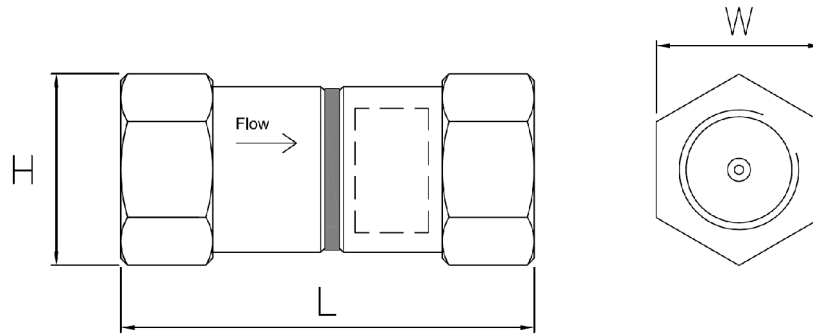
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Dimensions and Weights



	H (mm)	L (mm)	W (mm)	Weight (kg)
Q15 (DN15 / 1/2")	42	78	36	0.5
Q20 (DN20 / 3/4")	42	90	36	0.5

Materials

Part	Material
Body	304 / 303 Stainless Steel
Thimble Filter Base	304 Stainless Steel ring base
Thimble Filter Mesh	316 Stainless Steel 50 Mesh
Gasket	METACAM 316 Stainless Steel Core/Graphite faced

- Full product traceability is part of our Quality Assurance procedure
- Type 3.1 material certification to BS EN 10204:2004 (E)

All certification/inspection requirements must be stated at time of order placement.