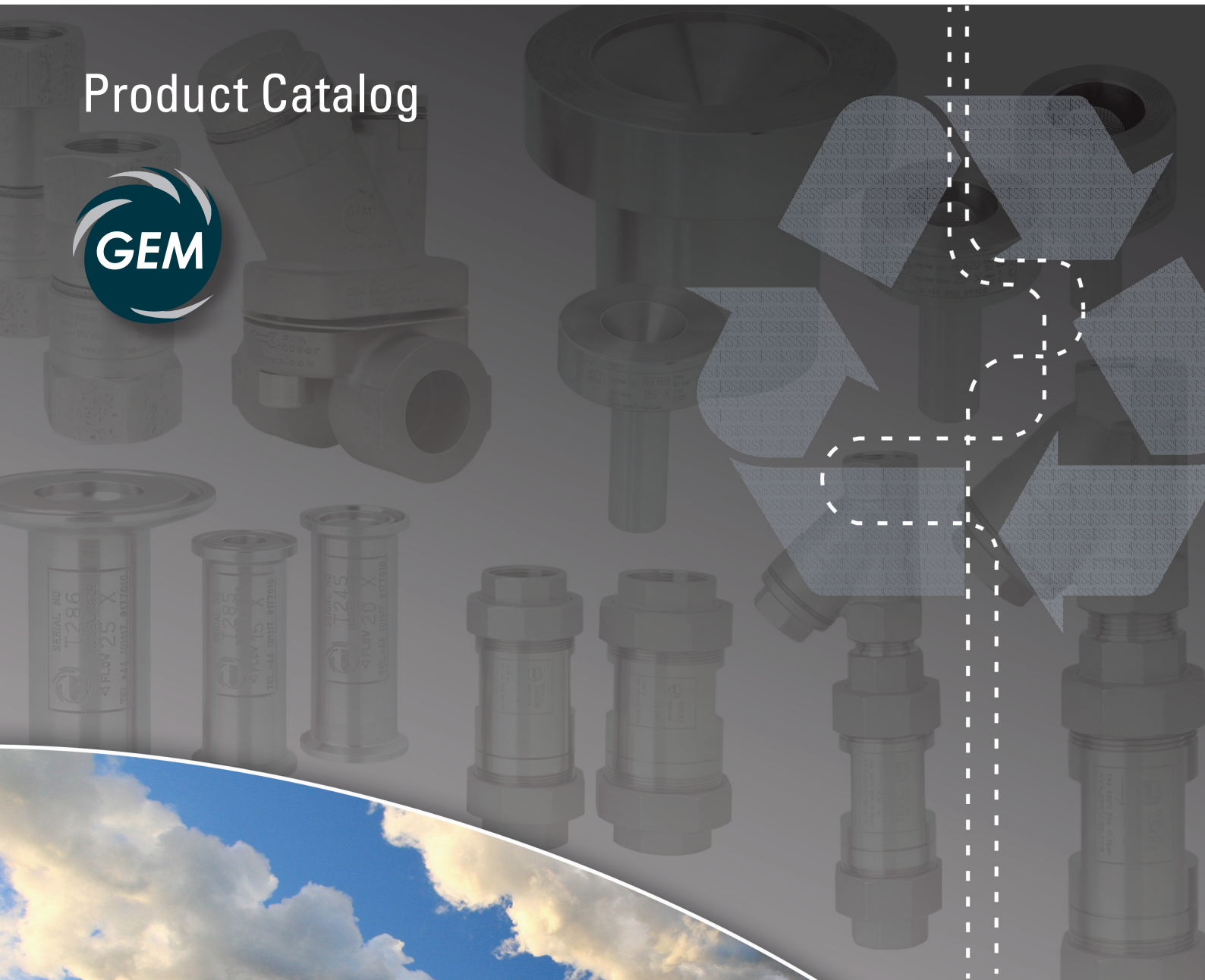


An Innovative Technology Company  
Providing Energy and Emission Reduction Solutions



# GEM<sup>®</sup> Condensate Return System

Product Catalog





## RUBY STEAM TRAPS (Integral filter option for low duty applications)

Suitable for flanged applications

### Operating Parameters:

PMA & PMO: 1450 psi (100 bar)

TMA & TMO: 935°F (500°C)

### Flange rating:

Suitable for all standard flanges

### Pipe Connections:

1/2" - 4" (15 mm - 100 mm)

With optional filter: 1/2" - 1" (15 mm - 25 mm)

### Material:

303 Stainless Steel



## TOPAZ STEAM TRAPS

For clean steam applications

- Crevice free
- Hygienic

### Operating Parameters:

PMA & PMO: 145 psi (10 bar)

TMA & TMO: 392°F (200°C)

\*Please request details

- Smooth internal surfaces to 32 µin (0.8 µm)\*
- Easy to clean and sterilize

### Pipe Connections:

1/2" - 1" (15 mm - 25 mm)

### Material:

316 Stainless Steel



## QUARTZ STEAM TRAPS

For low load drip leg and trace heating lines

### Operating Parameters:

PMA & PMO: 720 psi (50 bar)

when gasket fitted to torque of 37 lb.ft (50 N.m)

TMA & TMO: 935°F (500°C)

### Pipe Connections:

BSP/NPT

1/2" - 3/4" (15 mm - 20 mm)

### Material:

303 Stainless Steel



## SAPPHIRE STEAM TRAPS

Suitable for threaded connections (insulation bags available)

### Operating Parameters:

PMA & PMO: 250 psi (17 bar)

TMA & TMO: 750°F (400°C)

### Pipe Connections:

BSP/NPT thread

1/2" - 2" (15 mm - 50 mm)

### Material:

Trap body 303 Stainless Steel

Union & Strainer 316 Stainless Steel

Strainers not supplied for sizes larger than 1" (25 mm)



## EMERALD STEAM TRAPS

For use with any universal 2-bolt quick-fit connectors\* (insulation bags available)

### Operating Parameters:

PMA & PMO: 1450 psi (100 bar)

TMA & TMO: 935°F (500°C)

\*Supplied with flanges upon request

### Pipe Connections:

BSP/NPT/SW

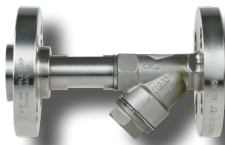
1/2" - 3/4" (15 mm - 20 mm)

### Material:

316L Stainless Steel

## DIAMOND STEAM TRAPS

For high pressure process applications



### Operating Parameters:

PMA & PMO: 730 psi (50 bar)

TMA & TMO: 750°F (400°C)

### Material:

316L Stainless Steel

### Pipe Connections:

PN16/25/40

1/2" - 1" (15 mm - 25 mm)

ASME connections available



## OPAL STEAM TRAPS

For low load line drainage and trace heating lines (insulation bags available)

### Operating Parameters:

PMA & PMO: 730 psi (50 bar)

TMA & TMO: 750°F (400°C)

### Material:

316L Stainless Steel

### Pipe Connections:

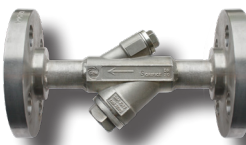
BSP/NPT/SW

1/2" - 3/4" (15 mm - 20 mm)

Flanged connections available

## FLANGED OPAL STEAM TRAPS

For low load line drainage and trace heating lines (insulation bags available)



### Operating Parameters:

PMA & PMO: 730 psi (50 bar)

TMA & TMO: 750°F (400°C)

### Material:

316L Stainless Steel

### Pipe Connections:

PN16/25/40 ANSI 150/300/600

1/2" - 3/4" (15 mm - 20 mm)

1" (25 mm)

Thousands of GEM Traps have been installed worldwide, permanently cutting costs for blue chip international companies.

- ▶ Aesica
- ▶ Allergan
- ▶ BASF
- ▶ Bayer
- ▶ Boots
- ▶ Cadbury
- ▶ Carlsberg
- ▶ Chivas Brothers
- ▶ Coca-Cola
- ▶ Corus
- ▶ Diageo
- ▶ Dow Corning
- ▶ Dupont
- ▶ EON
- ▶ Exxon
- ▶ Ferrero
- ▶ Fruit of the Loom
- ▶ GlaxoSmithKline
- ▶ Glenmorangie
- ▶ Heinz
- ▶ Huntsman
- ▶ Interbrew
- ▶ International Paper
- ▶ Kerry Foods
- ▶ KNPC
- ▶ Kraft
- ▶ Loders Croklaan
- ▶ McCain Foods
- ▶ Merck
- ▶ Michelin
- ▶ Nestle
- ▶ NHS
- ▶ Novartis
- ▶ Pfizer
- ▶ Pirelli
- ▶ Premier Foods
- ▶ Rolls Royce
- ▶ Sappi
- ▶ Shell
- ▶ Tate & Lyle
- ▶ Unilever Uniqema
- ▶ Whyte & McKay
- ▶ Weetabix
- ▶ Wrigley

The energy efficient GEM® Traps have no moving parts and are backed by a 10 year performance guarantee. The GEM® Condensate Return System is the permanent solution to steam trap failure.

#### Benefits of GEM® Traps

- ▶ Reduced maintenance
- ▶ No requirement for stocking spares
- ▶ Permanent energy savings (11 - 30%)
- ▶ Short payback (typically 12 - 18 months)
- ▶ Full sizing and commissioning support
- ▶ Complete turn-key solution available

#### Typical applications include:

- ▶ Waste energy recovery (FLU-ACE® and other);
- ▶ Biomass and waste steam drying solutions (DRY-REX® and other);
- ▶ Steam and condensate system solutions (GEM® and other); and
- ▶ Burner/Boiler system improvements.