

SMART TRACK[®]

Designed to track and maintain a constant differential with fluctuations in process pressure



Features

- Self regulating
- Quick response
- Simplicity
- Factory set
- Ergonomic

Benefits

- Tracks pressure to maintain an optimum double seal environment
- Transient and upset conditions handled with ease
- A compact alternative to complex seals & systems
- No operator intervention required. Unit is supplied pre-set
- Simple in line connections and mounting

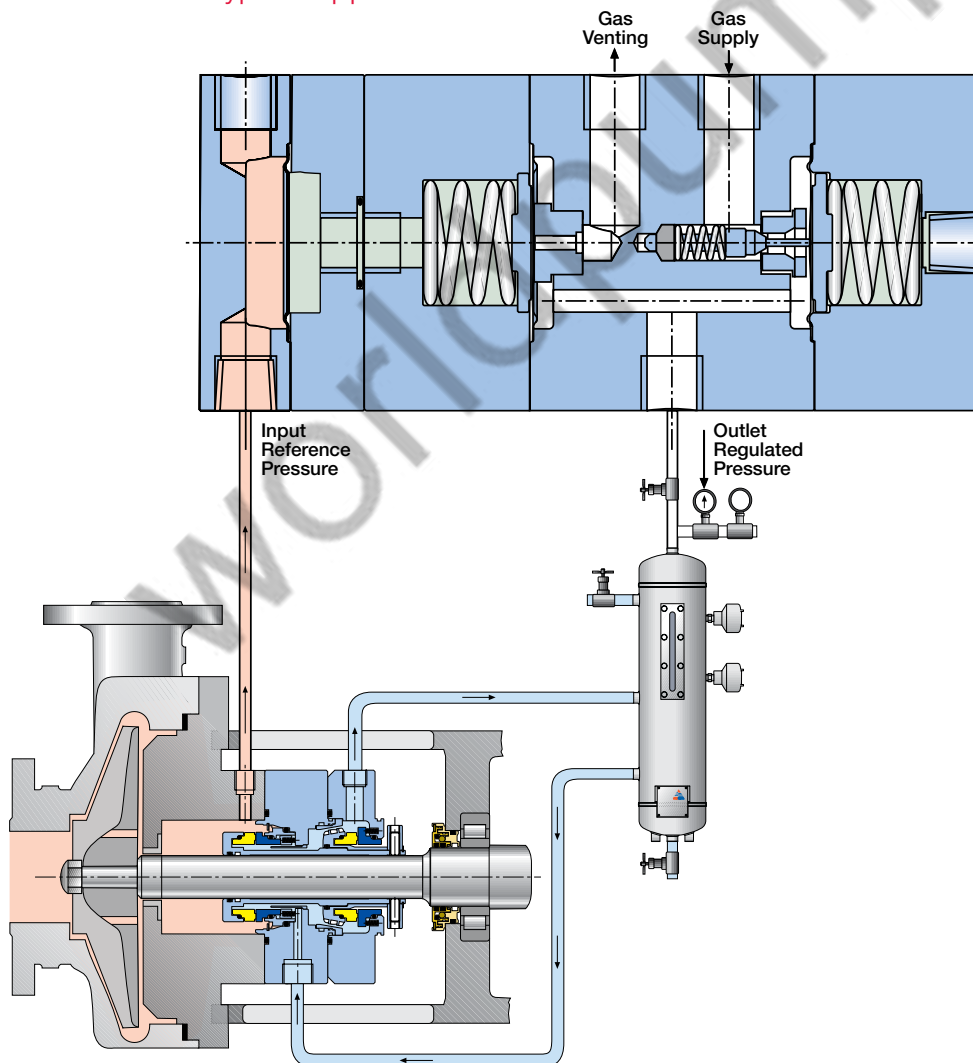


SMART TRACK®

Designed to track and maintain a constant differential with fluctuations in process pressure.

Patent pending isolating pressure tracking valve that will maintain a positive differential pressure between a reference input pressure (seal chamber / vessel pressure) and an output pressure (typically API Plan 53A) with the connection of a suitable supply (Typically nitrogen at a pressure greater than maximum operating barrier pressure). The device has an integrated isolation unit that will provide a physical barrier between product (seal chamber / vessel fluid) and the device.

Smart Track® Typical Application

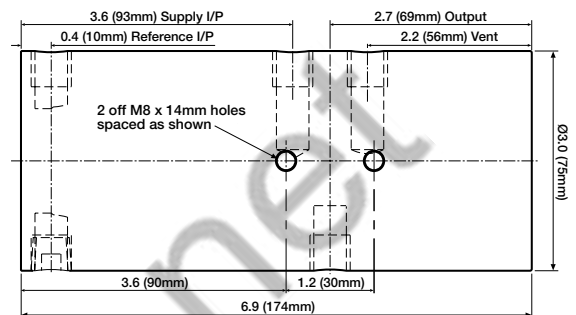


A unique & simple solution designed to maximize mechanical seal reliability through optimized barrier fluid pressure control.

Specifications

Typical Duties:

- Double Seal Barrier fluid support systems
- Seal Chamber pressures from -1 barg to 42 barg (-14.5 to 415 psig)
- Valve temperatures 4° to 80°C (39° to 176°F)
- Operating pressure differential circa 2 bar (30 psi) or circa 4 bar (60 psi)
- Size: L 6.9" (175mm) x Ø3.0" (75mm)
- Connections: Supply, Output, Vent, Reference I/P = ¼ NPT
- Weight: 5.5Kg (12.2lb)
- Mounting: 2 x M8 (Orientated 90° to Ports)



Wetted Materials:

- Diaphragm: Alloy X750
- Bias Spring: 316 Stainless Steel
- Body, End Caps etc: 316L Stainless Steel
- Isolator: 316 Stainless Steel
- Isolator transfer fluid: Ethylene Glycol other fluids are available

Key Features:

- Rapid response to changes in input reference (seal chamber) pressure
- Dynamic Pressure differential maintained during rapid pressure transients
- Integrated isolation unit
- Minimal external connections
- Capable of operating in vacuum conditions

Technical Data:

Supply Inlet Pressure Max: 46 barg (675 psig)

Reference (Seal Chamber / Vessel) Max: 42 barg (615 psig)

Pressure differential transients (Reference to Output): 1– 8 bar (14.5 – 120 psi)

Maximum rate of input pressure change: 13 bar/s (190 psi/s)*

Supply consumption: Application dependent consult AESSEAL® technical department



* Pressurised system volume of 10 Litre (2.64 Gallon US) @ 20°C (68°F), nominal 2 bar (30 psi) differential.





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AESSEAL plc is certified to ISO 9001, ISO 14001, ISO/IEC 20000, ISO/IEC 27001, ISO/TS 29001, ISO 37001, ISO 45001 & ISO 50001

Use double mechanical seals with hazardous products.

Always take safety precautions:

- Guard your equipment
- Wear protective clothing

WARNING

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