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D – Series Diaphragm valves

C-SEAL Mounting Diaphragm Shut-Off Valve

Features

Design

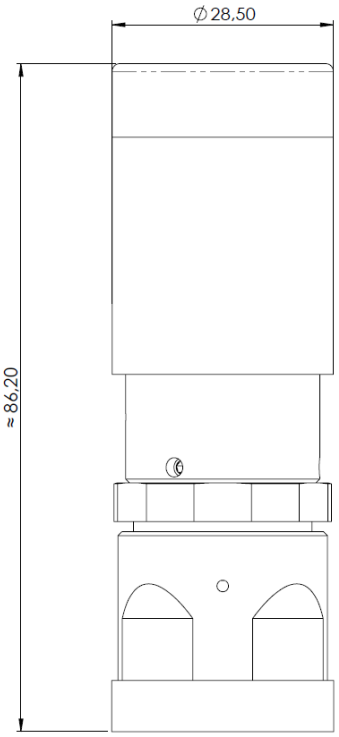
Metal / metal sealing between diaphragm and valve's body.
Extremely low internal volume and wetted area.

Materials

Wetted area ..... 316L Stainless Steel
Surface finish ..... Ra ≤ 0.4µm ; Ra ≤ 0.2µm on request
Body and bellows ..... 316L Stainless Steel
Hastelloy for corrosive gases (option)
Diaphram ..... Elgyloy
Seat ..... Kel-F, Vespel (option)
O-ring (body / actuator) ..... Silvered 316L Stainless Steel

Actuator Design

Pneumatic NC or manual actuators.
Permanent color identification for NC.
Blue anodized actuator in aluminum.
Actuator O-ring in Viton.



Ratings

Specifications

Flow coefficient (for two way valve). ..... Cv=0.2

Temperature

Operating ..... 0 °C to 70 °C

Pressure Ratings

Valve ..... Vacuum to 10 bar (145 psi)
Pneumatic operator ..... 5 - 6 bar (72 - 87 psi)

Valve Life Expectancy

Over 1,000,000 cycles with non-corrosive gases.

Helium Leak Rate

External sealing ..... <2.10-10 atm cm3/s
Internal sealing ..... <2.10-9 atm cm3/s

SAS ECM COMPONENTS
165 avenue des cocardières – ZAC VIA DOMITIA – 34 160 Castries – France
contact@ecmcomponents.com – Phone: +33 (0) 4 67 61 12 02

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