

UDGS™ Universal Dry Gas Seal



Non Contacting Gas Lubricated Mechanical Seal

Effective containment of VOC emissions and contamination prevention of high value products



ENVIRONMENTAL TECHNOLOGY

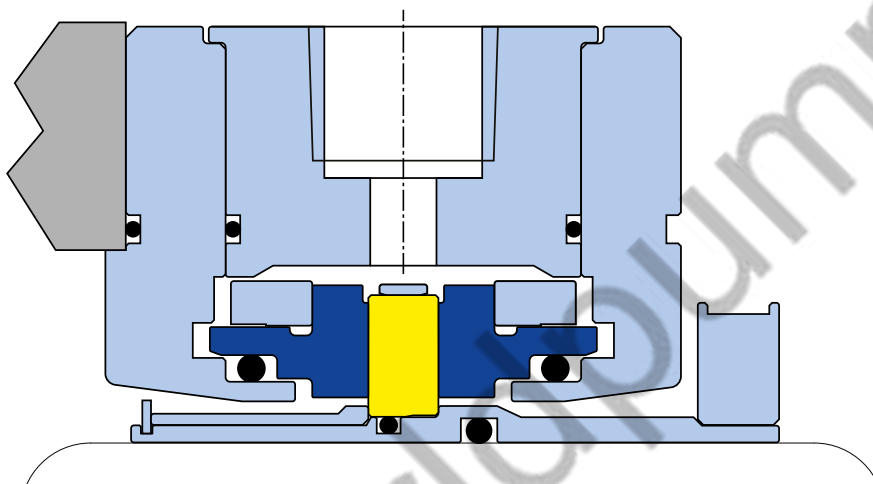


UDGS™

Universal Dry Gas Seal for pumps

Non-contacting, gas lift dual cartridge seal primarily designed for pumps (ANSI/DIN) providing practically **zero process emissions** in service.

The non-contacting nature of the design ensures long life, low power consumption and reduced capital cost for support systems. The buffer/barrier gas should be readily available and inert e.g. dry Nitrogen. One other major benefit is the ability to prevent contamination of high value products.



TYPICAL DUTIES

- Light Hydrocarbon applications
- Noxious chemicals
- Applications are typically <100 cSt Viscosity and contain no solids
- Pressures up to 21 barg (305 psig)
- Temperatures -40°C to +260°C (-40°F to +500°F) – elastomer dependent
- Peripheral speeds up to 25 m/s (5000 ft/min)

General Specification

Size range

20mm - 110mm (0.750" – 4.375")

Face options

(Soft / Hard / Soft) Antimony Carbon / Reaction Bonded Silicon Carbide / Antimony Carbon & (Hard / Hard / Hard) Graphite Sintered Silicon Carbide / Reaction Bonded Silicon Carbide / Graphite Sintered Silicon Carbide.

Elastomer options

FKM (Standard), EPR, Nitrile, TFE/P, FFKM

Gasket options

'O' ring (Standard), Graphite (Spiral Wound), AF1, GFT

Metallurgy options

Exotic product wetted metallurgy
DIN1.4462 (Duplex), Alloy 255 (Super Duplex), Alloy 276 etc.

KEY FEATURES / BENEFITS

- Gas lift hydrodynamic faces - low power requirement
- High efficiency gas lift seal face design.
- Minimum axial length due to face to face configuration.
- Can be fitted totally external to pump cavity.
- Designed for effective containment of VOC emissions.
- Face loading optimized, factory set and dynamically tested prior to despatch.
- Face design optimized using FEA.
- Allows simple cost effective support systems to be utilized.
- Barrier gas supply panels available, to ensure maximum seal reliability.



Use double mechanical seals with hazardous products. Always take safety precautions:

- Guard your equipment
- Wear protective clothing

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