Fluidol® Model 42E Engineered Cartridge Lip Seal

An Engineered to Order Cartridge Pump Seal that will Survive Where Others Cannot

Versatility and Reliability with Fluidol Model 42E Engineered Cartridge Lip Seals

Consider that only 10% of pump seals fail because they wear out. The Model 42E addresses many, if not most of the problems that cause seal failures that fall within the other 90%. Fluidol has the expertise to customize our proprietary cartridge lip seal technology to address your specific application requirements.

Engineered Applications:

- Flush, Quench, and Drain Glands for use with API Plans 11, 13, 32 or similar
- Jacketed Glands for use with Steam or Hot Oil
- NoFrett™ Hard Coated Metal Sleeves for High Mechanical Shock applications
- Alloy C Wetted Metal Parts for use with Highly Corrosive Fluids
- Alloy C Drive Collar and Set Screws for Highly Corrosive Atmosphere
- Designs for use with Nonmetallic Pumps
- Lip Material and Design for Very Heat Sensitive Fluids
- Designs for use with Large Shaft Diameters up to 6"/150mm
- Special Construction and/or Features to Address Specific Application Challenges

FIVE SOLID REASONS to choose Fluidol Model 42E Engineered Cartridge Lip Seal:

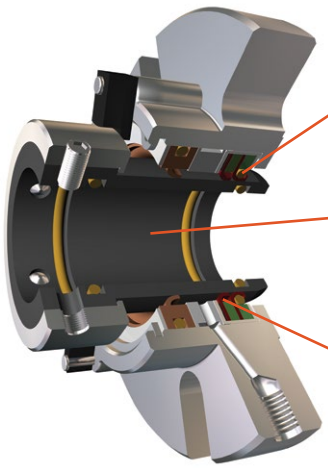
1. Will tolerate extended run dry
2. Will resist hydraulic shock
3. Versatility for thin to very thick liquids including non-lubricating or gas laden liquids
4. No springs to clog and no dynamic O-rings to hang up
5. Will tolerate a high degree of pump run-out due to pump wear and/or misalignment

User Benefits:

- Leak-Free performance
- Reduced maintenance costs and downtime – especially unplanned
- Long lasting – typically 3 years and more between repairs for most services
- Easy to install, operate and maintain
- Model 42E often replaces costly dual seals and eliminates the need for external seal support systems

The Inside Story of the Technology Behind the Fluidol "Model 42 E Engineered Cartridge Lip Seal"

High Tech Materials and Design



1. Secure-It O-Ring™ Technology may be used to resist hydraulic shock
2. Sleeve Material and Design Selected to Meet Specific Applications Challenges
3. Process Lip Material and Design Selected for Compatibility and Durability

Features:

- Easy to install cartridge design
- Full face gland with ports for use with barrier fluids, if desired
- Field repairable with repair kit
- Special vacuum and dual seal configurations available
- Engineered to address specific application challenges
- Optional flush ports available

Performance Data:

Sizes Available:	1.125 to 6.0 inches (28 to 150 mm)
Pressure:	300 psig (20 bar)
Vacuum:	26" Hg (88 kpa) with vacuum lip arrangement
Viscosity Range:	.5 to 500,000 cps
Temperature:	400° F (205° C)/500°F (260°C) with pressure derating and Chemraz® 605 o-rings
Maximum Surface Speed:	4000 FPM (25 m/s) wet; 2400 FPM (15 m/s) dry
Maximum Run-out:	.031" (.775 mm) TIR
Axial Motion:	+/– .125" (3.12 mm)

*Materials of Construction**

Sleeve:	Silicon Carbide or NoFrett™ Hard Coated Metal Sleeve per order
Wetted Metal Parts:	304 SS, Alloy C, or special per order
Set Screws:	Hardened 400 SS with knurled edge or Alloy C per order
Lantern Ring:	Teflon®
Sleeve ID O-rings:	Viton®, Chemraz®, Aflas®, or EPDM (Other materials by request)
Secur-it™ O-ring:	Teflon® encapsulated Viton® or special
Inboard Lip Elements:	Carbon Fiber Reinforced Teflon® TFM or special per order

**Refer to Model 42E drawing for application specific materials of construction*

Call or Email Fluidol/Fluidol Distributor to Start Making Progress in Reducing Your 90%!

Choose Fluidol Model 42E Engineered Cartridge Lip Seals!

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