

740/741 High Displacement Threaded Diaphragm Seal

FEATURES

- Large diaphragm provides ample displacement for inches of water ranges
- Ideal for high static, low differential pressure applications

TYPICAL USES

- Oil and Gas
- Refineries
- Chemical and Petrochemical
- Water and Wastewater
- NACE compliant Processes (Sour Gas Separation)
- Biogas and Biodiesel





740-41High Displacement
Threaded Seal



SPECIFICATIONS

Connection Style: 740: threaded

741: threaded with flushing port

Process Connection

 $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ or 1 NPT Female

Size:

Instrument Connection 1/4 or 1/2 NPT

Size:

Pressure Rating up to 750 psi

(MAWP):

Added Tolerance: ±0.5% typical

Added Tolerance.	±0.07
WETTED COMPON	ENTS

WEITED COMITOR		
Diaphragm	Bottom Housing	Gasket
316 SS, Tantalum, Titanium, Hastelloy® B, Hastelloy® C 276, K-Monel®	316SS, Tantalum, Titanium, Hastelloy® B, Hastelloy® C 276, Monel®, Carpenter® 20	PTFE (rated for -150°F to 500°F)

NON-WETTED CO	MPONENTS	
Top Housing	Bolts	Nuts
316L SS, Monel®, titanium	Carbon Steel, 316SS (optional)	Stainless steel

KEY BENEFITS

- Diaphragm welded to top housing eliminates the risk of fill fluid loss
- Large displacement drives low pressure instrumentation
- Optimal for high-pressure, low-differential pressure applications



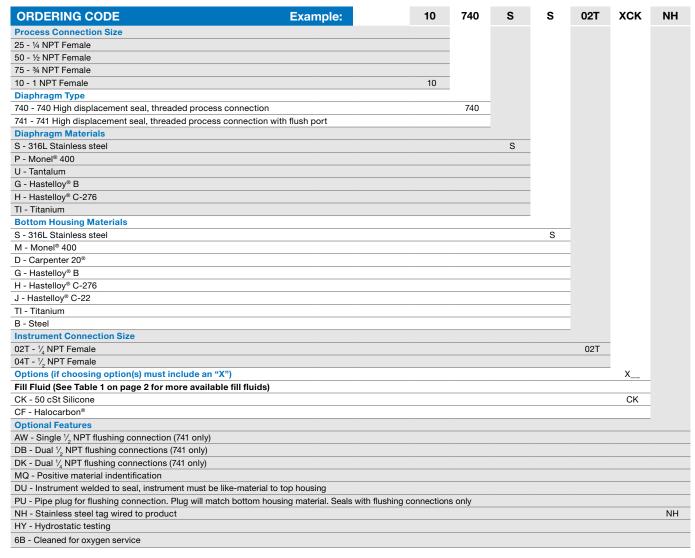
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Fill Fluid	Temperature	Viscosity Variation		Notes	
		(cSt at 70°F (21°C))	Code		
Glycerin (food grade)	0°F to 400°F (-18°C to 204°C)	1,300	CG	Direct-mounting only. Not for use with vacuum service	
50 cSt Silicone	-40°F to 500°F (-40°C to 260°C)	50	СК		
10 cSt Silicone	-40°F to 500°F (-40°C to 260°C)	10	DJ		
Halocarbon® 4.2	-70°F to 300°F (-57°C to 199°C)	4.2	CF	For use with oxygen/ oxidizing process media	
Slytherm® 800	-40°F to 750°F (-40°C to 400°C)	10	НА	High temperature applications	
Syltherm® XLT	-150°F to 500°F (-100°C to 260°C)	1.4	CC	Low temperature applications	
Calflo® AF	-20°F to 600°F (-29°C to 316°C)	60	KF	High temperature, silicone-free	
Mineral Oil	10°F to 400°F (-12°C to 204°C)	75	MY		
Neobee® M-20 (food grade)	5°F to 400°F (-15°C to 204°C)	9.5	NM		
Silicone (food grade)	-40°F to 500°F (-40°C to 260°C)	350	CZ		
Distilled Water	40°F to 185°F (4°C to 85°C)	0.9	FJ		
50/50 Glycerin/Water	15°F to 200°F (-9°C to 93°C)	30	GH		
Propylene Glycol	-50°F to 325°F (-46°C to 163°C)	54	CV		
Ethylene Glycol	20°F to 325°F (-7°C to 163°C)	14	FK		
50/50 Ethylene Glycol/Water	-25°F to 190°F (-32°C to 88°C)	2.9	CT		
30/20 Glycerin/Water	15°F to 225°F (-9°C to 107°C)	270	GR		
95/5 Water/Propylene Glycol	40°F to 185°F (4°C to 85°C)	1.0	PY		

Data Sheet



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When selecting an instrument, refer to the Min/Max Guide for compatibility with this diaphragm seal or scan the QR code to the right.



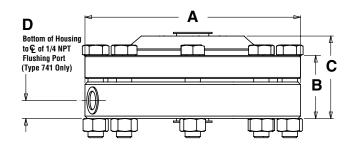
Data Sheet



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DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings



Model	A	В	C	D
740-741	5.25 [133]	1.5 [38]	2.0 [51]	0.437 [11]