Data Sheet



400-401/500-501 Threaded All-Welded Diaphragm Seals

FEATURES

- All welded construction ensures a leak-tight, tamper-proof seal
- All 316L SS construction resists corrosive attack from a wide variety of process media
- Flushing connection optional

TYPICAL USES

- Oil and Gas
- Refineries
- Chemical and Petrochemical
- Water and Wastewater
- NACE Compliant Processes
- Biogas and Biodiesel

SPECIFICATIONS

Fill Fluid:	Glycerin, Silicone, Halocarbon [®] , Syltherm [®] (see Table 2 on page 2 for more fill fluid options)
Pressure Rating (MAWP):	400/401: 4,400 psi 400 (XHP OPT.): 9,000 psi 401 (XHP OPT.): 5,000 psi 500/501: 500 psi
Connection Style:	400, 500: Threaded 401, 501: Threaded with flushing port
Process Connection Size:	1⁄4 to 11⁄2 NPT Female 1⁄4 to 1 NPT Male
Instrument Connection Size:	$^{1}\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$
Added Tolerance:	±0.5% typical
Approvals:	CRN, NACE

WETTED COMPONENTS

Diaphragm	Bottom Housing			
316L SS Hastelloy® C-276 Monel® 400 Titanium Tantalum	316L SS Hastelloy® C-276 Hastelloy® C-22 Monel® Titanium			
NON-WETTED CO	MPONENTS			
NON-WETTED COMPONENTS				

Top Housing	Bolts/Clamp Rings	Nuts
316L SS Hastelloy [®] C-276 Monel [®] Titanium	Carbon steel	SS



500 Threaded All-Welded Diaphragm Seal

CRN PERISTERS

400

Threaded All-Welded Diaphragm Seal

KEY BENEFITS

- Continuous duty design
- Minimized fill volume
- Suitable for pressures up to 9,000 psi

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400-401/500-501 Threaded All-Welded Diaphragm Seals

TABLE	1 - OPTIONS					
Code	Option	400	401	500	501	Notes
LD	SS locking device	•	•			
PU	Pipe plug for flushing connection		•		•	Plug will match bottom housing material
HB	Hastelloy [®] C-276 upper housing	•	•	•	•	
SE	SS rings and bolts	•	•			1,500 psi Max., 5,000 psi Max. with XHP
HP	High-pressure clamp rings	•	•			9,000 psi Max., 5,000 psi Max. with SE
6B	Cleaned for oxygen service	•	•	•	•	
AW	Single 1/2 NPT flushing connection		•		•	34 NPT Female or smaller process connection
DB	Dual 1/2 NPT flushing connections		•		•	34 NPT Female or smaller process connection
DK	Dual 1/4 NPT flushing connections		•		•	
DU	Instrument welded to seal	•	•	•	•	
MQ	Positive material identification	•	•	•	•	
W1	Dye penetrant testing	•	•	•	•	
CD-5	NACE compliance certificate	•	•	•	•	Stainless, Hastelloy®, or Monel® wetted materials
CD-6	Typical material certification	•	•	•	•	

Process Connection Size 02 - % NPT Male (400, 500 only) 04 - % NPT Male (400, 500 only) 06 - % NPT Male (400, 500 only) 06 - % NPT Male (400, 500 only) 06 - % NPT female 50 - % NPT Female 50 - % NPT Female 10 - 1 NPT Meenale (400, 500 only) 25 - % NPT Female 10 - 1 NPT Female 10 - 1 NPT Female 10 - 1 NPT Female 00 - % Neining port Diaphragm Material 5 - 300 Series All-welded seal without clamps, threaded process connection 4 - 400 Series All-welded seal without clamps, threaded process connection 6 - % Naterial 5 - 300 Series All-welded seal without clamps, threaded process connection 6 - % Naterial 5 - 316L SS S 1 - Hastelloy [®] C-226 2 - Hastelloy [®] C-226	ORDERING CODE	Example:	02	4	00	s	S	02T	ХСК	HP
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Optional Features (see Table 1 above for option list)									СК	
	Optional Features (see Table 1 above for o	option list)								
	HP - High-pressure clamp rings									HP

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Data Sheet



400-401/500-501 Threaded All-Welded Diaphragm Seals

TABLE 2 - FILL FLUIDS				
Fill Fluid	Temperature	Viscosity (cSt)	Code	Notes
Syltherm [®] XLT	-150°F to 500°F (-100°C to 260°C)	1.4	CC	Low temperature applications
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
50cSt Silicone	-40°F to 500°F (-40°C to 260°C)	50	СК	
Halocarbon® 4.2	-70°F to 300°F (-57°C to 199°C)	4.2	CF	For use with oxygen/oxidizing process media
50/50 Ethylene Glycol/Water	-25°F to 190°F (-32°C to 88°C)	2.9	СТ	
Polypropylene Glycol	-50°F to 325°F (-46°C to 163°C)	54	CV	
Food-grade Silicone	-40°F to 500°F (-40°C to 260°C)	350	CZ	
10cSt Silicone	-40°F to 500°F (-40°C to 260°C)	10	DJ	
Distilled Water	40°F to 185°F (4°C to 85°C)	0.9	FJ	
Ethylene Glycol	20°F to 325°F (-7°C to 163°C)	14	FK	
50/50 Glycerin/Water	15°F to 200°F (-9°C to 93°C)	30	GH	
80/20 Glycerin/Water	15°F to 225°F (-9°C to 107°C)	270	GR	
Slytherm [®] 800	-40°F to 750°F (-40°C to 400°C)	10	HA	High 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	5°F to 400°F (-15°C to 204°C)	9.5	NM	Food grade
95/5 Water/Propylene Glycol	40°F to 185°F (4°C to 85°C)	1.0	PY	

Data Sheet



400-401/500-501 Threaded All-Welded Diaphragm Seals

DIMENSIONS in [] are millimeters





500 THREADED SEAL					
А	В	C			
2.50	2.88	1.81			
[63]	[73]	[46]			



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