

Features

- 316L Stainless steel top housing (standard)
- Available with diaphragm welded or bonded to top housing or removable threaded capsule diaphragms
- Flow through design reduces the possibility of clogging
- Large 2½ diaphragm compatible with most Ashcroft instrumentation

Typical Uses

- Oil and gas
- Refineries
- Water and wastewater
- NACE-compliant processes (sour gas separation)
- Biogas and biodiesel

Specifications				
Connection style:		In-line flanged		
Process Connection:		1/2, 3/4, 1, 11/2, 2, 3, 4, 6 or 8 NPS		
Instrument Connection:		1/4 or 1/2 NPT		
Fill Fluid:		See table 3 on page 2		
Wetted Components				
Diaphragm	Bottom Housing		Gasket	
See table 1 on page 2	See table 2 on page 2		PTFE (rated for -150 °F to 500 °F)	
Non-Wetted Components				
Top Housing	Bolt/Clamp Rings		Clamp Rings	
316L Stainless steel	Carbon steel		Carbon steel	





100 Series





Diaphragm Threaded to Top Housing flexible design

200 Series





Diaphragm Welded or Bonded To Top Housing - eliminates leak path



Key Benefits

- Ideal for viscous media, slurries and emulsions
- Protects instrumentation from process media

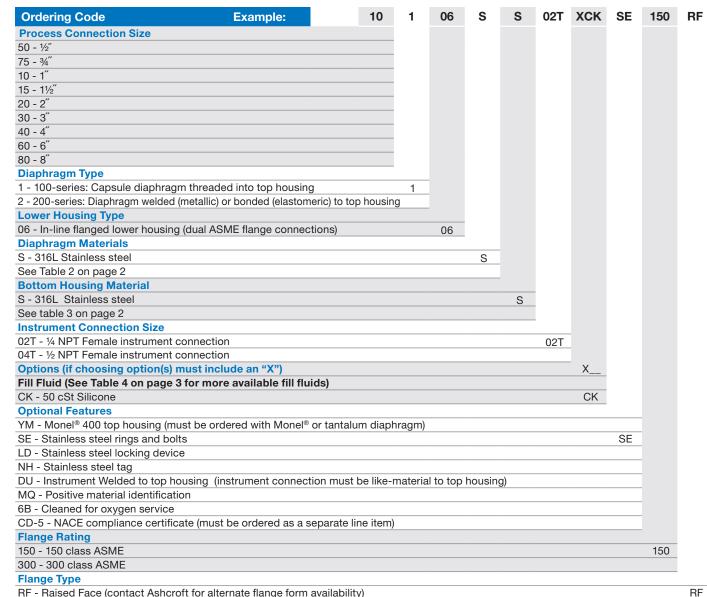


Table 1 - Diaphragm Materials				
Material	Letter Code	100 Series	200 Series	Notes
316L Stainless steel	S	•	•	
304L Stainless steel	С	•	•	
904L Stainless steel	F		•	
Monel® 400	Р	•	•	200 Series must be ordered with XYM Monel® top housing option
Tantalum	U	•	•	
Hastelloy® C-276	Н	•	•	
Hastelloy® B	G	•	•	
Hastelloy® C-22	J	•	•	
Carpenter 20	D	•	•	
PTFE	Т		•	Temp. limits: -40 °F to 400 °F
Viton™	Υ		•	Temp. limits: -40 °F to 350 °F Max. pressure: 500 psi
Kalrez [®]	K		•	Temp. limits: 30 °F to 212 °F Max. pressure: 500 psi
Nickel	N	•	•	
Titanium	Ti		•	Includes titanium top housing
Gold Plated 316L Stainless steel	W	•		

Table 2 - Bottom Housing Materials				
Material	Letter Code			
304L Stainless steel	С			
316L Stainless steel	S			
Hastelloy® C-276	Н			
Top housing and mounting hardware only	Х			

Table 3 - Fill Fluids					
Fill Fluid	Temperature	Viscosity (cSt at RT)	Variation Code	Notes	
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	CK		
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	HA	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		
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		
80/20 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 8 °C)	1.0	PY		





RF - Raised Face (contact Ashcroft for alternate flange form availability)

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

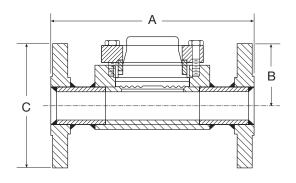




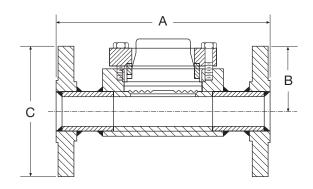
Dimensions in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

106/206 - In-Line Flanged Diaphragm Seal ½", 1", 1½", 2", 3"



106/206 - In-Line Flanged Diaphragm Seal 4", 6", 8"



Size	Flange Rating	Α	В	С
1/2"	150#	7 [178]	2.44 [62]	3.50 [89]
72	300#	7 [178]	2.44 [62]	3.88 [98]
1″	150#	7 [178]	2.44 [62]	4.25 [108]
ı	300#	8 [203]	2.44 [62]	4.88 [124]
1½″	150#	8 [203]	2.69 [68]	5.00 [127]
1 72	300#	9 [229]	2.69 [68]	6.13 [156]
2"	150#	9 [229]	2.94 [75]	6.00 [152]
۷	300#	10 [254]	2.94 [75]	6.50 [165]
3″	150#	11 [279]	3.63 [92]	7.50 [191]
3	300#	12 [305]	3.63 [92]	8.25 [210]

Flange Rating	Α	В	С
150#	13 [330]	3.38 [86]	9.00 [229]
300#	14 [356]	3.38 [86]	10.00 [254]
150#	16 [406]	4.44 [113]	11.00 [279]
300#	17 [432]	4.44 [113]	12.50 [318]
150#	16 [406]	5.44 [138]	13.50 [343]
	Rating 150# 300# 150# 300#	Rating 150# 13 [330] 300# 14 [356] 150# 16 [406] 300# 17 [432]	Rating A B 150# 13 [330] 3.38 [86] 300# 14 [356] 3.38 [86] 150# 16 [406] 4.44 [113] 300# 17 [432] 4.44 [113]

Blind Top Housing For Hydrostatic Testing

Blind top housings can be used to plug the installed lower housing when top housing / instrument ssembly is removed. Recommended during hydrotesting procedures on piping system.

Description	Includes	Part Number
Blind top housing kit 3-inch pipe sizes and smaller	316 stainless steel plug, PTFE gasket (single use) and 8 cap screws	101A234-01
Blind top housing kit 4-inch pipe sizes and larger	316 stainless steel plug, PTFE gasket (single use) and 8 cap screws	101A234-02
Extra single use PTFE gasket	1 PTFE single use gasket	ARR121D
Extra cap screw	1 cap screw	ALU83A