

FEATURES

- A thin PTFE gasket between the diaphragm and bottom housing ensures a leak-tight, corrosion resistant seal
- Nickel-plated carbon steel flanges provided standard with option for 316L SS flanges
- Modular design allows for a suitable combination of wetted and non-wetted materials for every application



SPECIFICATIONS

Connection Style:	102, 202, 302: flanged 103, 203, 303: flanged with flushing port
Process Connection Size:	½, ¾, 1, 1½, 2 or 3 NPS
Instrument Connection Size:	¼ or ½ NPT
Pressure Rating (MAWP):	Dictated by ASME flange ratings (Table 5 on page 175)
Added Tolerance:	±0.5% typical
Wetted Components:	Diaphragm & bottom housing
Non-Wetted Components:	Top housing: Carbon steel Flange ring: Carbon steel

TABLE 1 - DIAPHRAGM MATERIALS

Material	Letter Code	100 Series	200 Series	300 Series	Notes
304L SS	C	•	•		
Carpenter 20®	D	•	•		
904L SS	F		•		
Hastelloy® B	G	•	•		
Hastelloy® C-276	H	•	•		
Hastelloy® C-22	J	•	•		
Kalrez®	K		•	•	Temp limits: 30°F to 212°F Max. pressure: 500 psi
Nickel	N	•	•		
Monel® 400	P	•	•		200-series must be ordered with XYM Monel® top housing option
316L SS	S	•	•		
PTFE	T		•	•	Temp limits: -40°F to 400°F
Titanium	Ti		•		Includes titanium top housing
Gold Plated 316L SS	W	•			
Viton®	Y		•	•	Temp limits: -40°F to 350°F Max. pressure: 500 psi



102-103
Flanged Seal



TABLE 2 - BOTTOM HOUSING MATERIALS

Material	Letter Code	Notes
Super Duplex 2507	A	
Steel	B	
Halar-coated Monel®	BH	Not available with flushing connections
304L SS	C	
Carpenter 20®	D	
347 SS	E	
904L SS	F	
Hastelloy® B	G	
Hastelloy® C-276	H	
Hastelloy® C-22	J	
PVDF	KY	Not available with flushing connection Available only with 150-class flange Maximum pressure: 200 psi Maximum temperature: 180°F
Incoloy® 825	L	
Monel® 400	M	
Nickel	N	
321 SS	Q	
316L SS	S	
Tantalum-clad 316L SS	SU	Not available with flushing connection
PTFE	T	Not available with flushing connection Available only with 150-class flange Maximum pressure: 270 psi Maximum temperature: 150°F
Titanium	Ti	
PVC	V	Not available with flushing connection Available only with 150-class flange Maximum pressure: 75 psi Maximum temperature: 100°F
Inconel® 625	W	
Duplex 2205	Z	

ORDERING CODE	Example:	50	1	02	C	C	02T	XCK	SE	300	RF
Process Connection Size											
50 - ½ NPS		50									
75 - ¾ NPS											
10 - 1 NPS											
15 - 1½ NPS											
20 - 2 NPS											
30 - 3 NPS											
Diaphragm Type											
1 - 100-series Metallic capsule diaphragm threaded into top housing			1								
2 - 200-series Diaphragm welded (metallic) or bonded (elastomeric) to top housing											
3 - 300-series Elastomeric diaphragm clamped between upper & lower housing											
Bottom Housing Options											
02 - Flanged process connection, without flushing port				02							
03 - Flanged process connection, with flushing port											
Diaphragm Materials											
C - 304L SS					C						
See Table 1 on page 164											
Bottom Housing Materials											
C - 304L SS						C					
See Table 2 on page 164											
Instrument Connection Size											
02T - ¼ NPT							02T				
04T - ½ NPT											
Options (if choosing option(s) must include an "X")								X__			
Fill Fluids											
CG - Glycerin											
CK - Silicone SF-96								CK			
CF - Halocarbon®											
See Table 3 on page 175 for more available fill fluids											
Optional Features											
AW - Single ½" flushing connections (03 bottom housing only)											
DB - Dual ½" flushing connections (03 bottom housing only)											
DK - Dual ¼" flushing connections (03 bottom housing only)											
PU - Pipe plug for flushing connection											
YM - Monel® 400 top housing											
YT - 316L SS top housing											
SB - SS clamping bolts											
SE - SS flange rings and bolts									SE		
LD - SS locking device											
NH - SS instrument tag											
DU - Instrument welded to top housing											
MQ - Positive material identification											
6B - Cleaned for oxygen service											
CD-5 - NACE compliance certificate											
Flange Rating (refer to table 5 on page 175 for applicable pressure rating)											
150 - 150 Class ASME											
300 - 300 Class ASME										300	
600 - 600 Class ASME											
900 - 900 Class ASME											
1500 - 1500 Class ASME											
2500 - 2500 (Available on request)											
Flange Types (contact Ashcroft for alternate flange types)											
RF - Raised Face											RF
RJ - Ring Joint											
FF - Flat Face											