

- Recommended for use where clamped joints are not acceptable
- Assists in controlling plant emissions by helping prevent potential leakage of hazardous chemicals
- Prevents inadvertent disassembly
- All-stainless steel construction is standard. Other materials available



Type 400



Type 500

SELECTION TABLES
Table A – Process Connection/Type Number

| Type No. | Process Connection | Process Connection Size/Code—Inches | | | | | | | | | | | Pressure Rating | |
|----------|--|-------------------------------------|-----|-----|-----|---|-------|---|---|---|---|---|-----------------|-------------------------------|
| | | Size Code | 1/4 | 1/2 | 3/4 | 1 | 1 1/2 | 2 | 3 | 4 | 6 | 8 | | |
| 400 | Threaded—female NPT | | • | • | • | • | | | | | | | | 7500 psi ⁽¹⁾⁽⁵⁾ |
| 401 | Threaded—female NPT (with flushing connection) | | • | • | • | • | | | | | | | | 7500 psi ⁽¹⁾⁽⁵⁾ |
| 402 | Raised face flange | | • | • | • | • | • | • | • | | | | | Per ASME B16.5 ⁽²⁾ |
| 403 | Raised face flange (with flushing connection) | | • | • | • | • | • | • | • | | | | | |
| 500 | Threaded—female NPT | | • | • | • | • | | | | | | | | 500 psi |
| 501 | Threaded—female NPT (with flushing connection) | | • | • | • | • | | | | | | | | 500 psi |

Table B
Diaphragm Material

| Material | Code |
|-----------------|------|
| 316L SS | S |
| Hastelloy B | G |
| Hastelloy C 22 | J |
| Hastelloy C 276 | H |
| Tantalum | U |
| Monel | P |
| Titanium | TI |

Table C
Housing Materials⁽³⁾

| Bottom Material | Code | Top Material ⁽⁴⁾ |
|-----------------|------|-----------------------------|
| 316L SS | SL | 316L SS |
| Hastelloy B | G | 316L SS |
| Hastelloy C 22 | J | 316L SS |
| Hastelloy C 276 | H | 316L SS |
| Monel | M | Monel |
| Titanium | TI | Titanium |

Table D
Instrument Connection

| Size – NPT | Code |
|------------|------|
| 1/4 | 02T |
| 1/2 | 04T |

Table E – Filling Fluid

| Filling | Service | Connection to Instrument | Temperature Range °F | Code |
|------------|---|--------------------------|----------------------|------|
| Glycerin | Pressure | Direct Only | 0/400 | CG |
| Silicone | Pressure/Vacuum | Direct or Flexible Line | -40/600 | CK |
| Halocarbon | Pressure/Vacuum in presence of strong oxidizing agent | Direct or Flexible Line | -70/300 | CF |
| Syltherm | Pressure/Vacuum | Direct or Flexible Line | -40/750 | HA |

NOTES:

- (1) XHP (High Pressure Rings) with 15,000 psi rating available on Type 400 only.
- (2) Flange ratings 150 class through 1500 class.
- (3) Other bottom housing materials on application.
- (4) Top housing material is 316L SS (standard) except for monel which has a monel top housing and titanium which has a titanium top housing.
- (5) Continuous duty. For static pressures only between 2500 and 7500 psi.

TO ORDER THIS TYPE 400 & 500 DIAPHRAGM SEAL:

1. From **Table A**...select TYPE NUMBER & process connection size (e.g., 1" process—code 10-400)
2. From **Table B**...select DIAPHRAGM MATERIAL. (e.g., AISI 316L stainless steel—code S)
3. From **Table C**...select BOTTOM HOUSING MATERIAL. (e.g., AISI 316 stainless steel—code S)
4. From **Table D**...select INSTRUMENT CONNECTION size. (e.g., 1/4 NPT—code 02T)
5. From **Table E**...select FILLING FLUID, if diaphragm seal will be attached to instrument. (e.g., Glycerin—code CG)

Coded order: 10-400SS-02T-CG

Consult factory for guidance in product selection
 Phone (203) 385-0217, Fax (203) 385-0602 or
 visit our web site at www.ashcroft.com