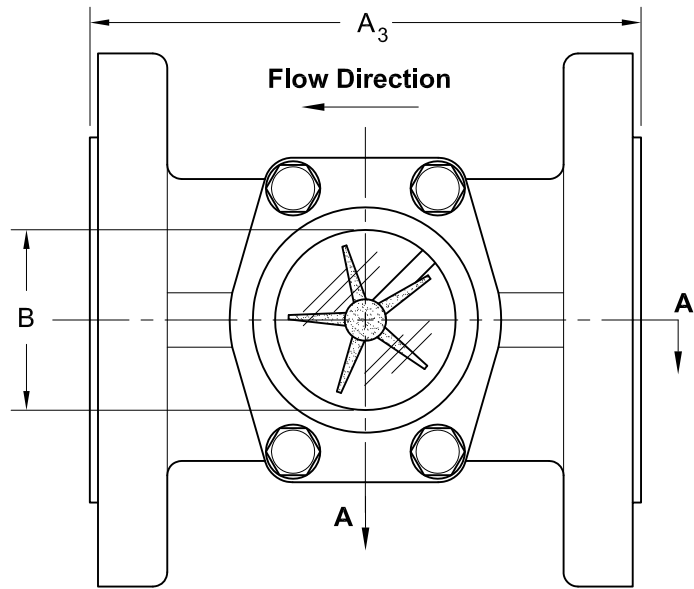
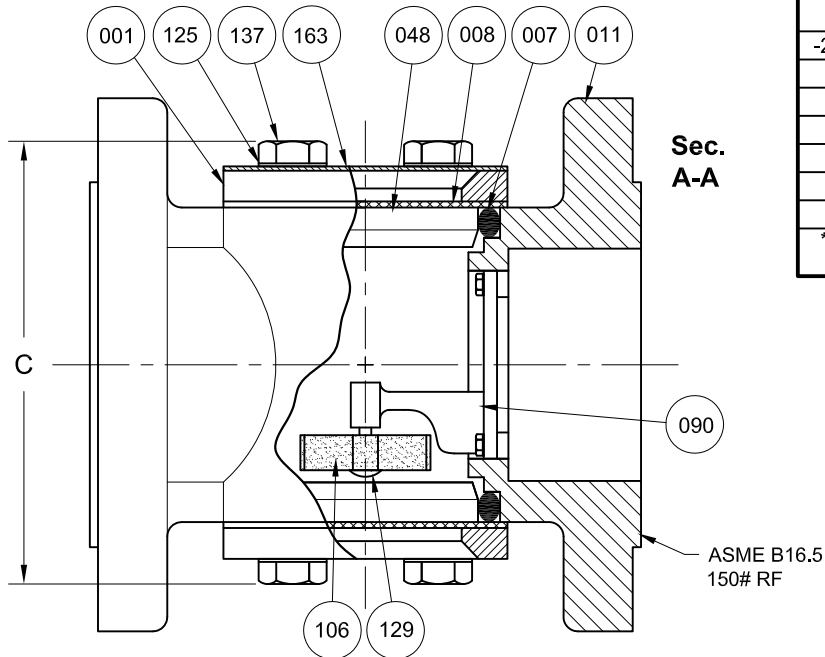


| REVISIONS | | | |
|-----------|--------------|------|---------|
| Rev. | Modification | Date | Done By |
| | | | |
| | | | |



| RATINGS ₂ | |
|----------------------|-----------------|
| Temp. (°F) | Pressure (PSIG) |
| -20 to 150 | 200 |
| 200 | 165 |
| 225 | 150 |
| 250 | 135 |
| 300 | 100 |
| 350 | 70 |
| 400 | 35 |

*Consult Sales for Alt. Ratings



S13F Series Configuration Choices:

Reference the Series S13F Model Number Matrix on our Website or Inquire with our Sales Team

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Viton® is a Registered Trademark of the Chemours Company

| BILL OF MATERIALS | | | | | | |
|--|-----------------|---------------------|----------------------|--------------------|----------------------|----------------|
| * - Denotes an Optional, Non-Standard Material | | | | | | |
| No. | Name of Part | Qty. | Material | Max. Temp. (°F) | Material Grade/Notes | |
| 011 | Body | 1 | Carbon Steel | | ASTM A216-WCB | |
| | | | 316LSS | | ASTM A351-CF8M | |
| 007 | Gasket | 2 | Neoprene | 250 | | |
| | | | Viton® | 400 | | |
| | | | *EPDM | 250 | | |
| | | | *PTFE | 400 | | |
| | | | *Kalrez® | 400 | | |
| | | | *Buna-N | 212 | | |
| 048 | Lens | 2 | Annealed Borosiccate | | | |
| 090 | Cap | 1 | PTFE | 400 | | |
| 106 | Rotor | 1 | Delrin® | 250 | White | |
| 129 | Rotor Arm/Studs | 1 | 316SS | | | |
| Non-Wetted | 001 | Retainer | 2 | Plated Steel | | |
| | 008 | Cushion | 2 | Non-Asbestos Fiber | | |
| | 009 | Outer Shield (Opt.) | 1 | *Polycarbonate | 200 | (Not Pictured) |
| | 125 | Washers | 4 | Plated Steel | | |
| | 137 | Studs | 8 | Plated Steel | | |
| 163 | Nameplate | 1 | Aluminum | | | |

| PRODUCT SPECIFICATIONS | | | | | | | | | |
|------------------------|-------|-------|-----|------|-------|-------|--------|-------|---------------------|
| Flange Size | A | | B | | C | | Weight | | Vacuum ₁ |
| | In. | mm. | In. | mm. | In. | mm. | lbs. | kg. | PSIG |
| 3 | 8 | 203.2 | 3 | 76.2 | 7-5/8 | 193.7 | 32.1 | 14.56 | -12.6 |
| 3 ₃ | 9-3/8 | 238.1 | 3 | 76.2 | 7-5/8 | 193.7 | 31.8 | 14.42 | -12.6 |
| 4 | 9 | 228.6 | 3 | 76.2 | 7-5/8 | 193.7 | 43.9 | 19.91 | -12.6 |
| 4 ₃ | 11 | 279.4 | 3 | 76.2 | 7-5/8 | 193.7 | 44.2 | 20.05 | -12.6 |

Notes:

- Vacuum Service Rating: 85.5% of Full Vacuum / 25.6" of Hg. / 2.1 PSIA
- Limited to Glass, Gasket, & Indicator Ratings
- Request Extended OAL Unit for 9-3/8" or 11" Length

| | | | |
|--|------------------|--|------------|
| JOHN C ERNST LLC. | | www.johnernst.com 21 Gall Ct. Sparta, N.J. USA | |
| Series S13F Rotor SFIs 3" - 4" Flanges | | | |
| Sheet: 1 of 1 | Drawn By: WAS | Tolerances, unless otherwise noted Dec.: ± Frac.: ± Ang.: ± | Size: A |
| Scale: NTS | Approved By: JCW | | Rev.: -- |
| Dim.: Var. | Date: 13-JAN-17 | Dwg. No.: SC2.0S13F.01.2.0 | |