

# MODEL FT TUBE-N-TUBE ARMORED FLOW INDICATORS (PATENTED)

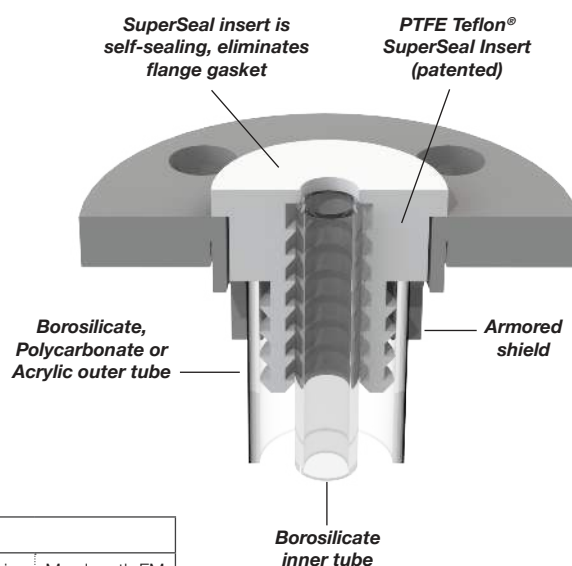


- Approved by the Factory Mutual System (150°F max)  
(Max length for FM approved models per specifications below)
- Unobstructed visibility
- Patented one-piece SuperSeal inserts are self-sealing
- Wetted parts are PTFE Teflon® and borosilicate glass
- Available with sanitary fittings
- Reducing flanges and threaded end connections available
- Designed for cryogenic and hot process applications
- Design is double sealed and insulated
- Rated for full vacuum service
- Custom designs available; consult factory
- Optional 316 SS construction
- ANSI Class 300 lb flanges available



## Standard Construction

- Borosilicate inner tube
- Polycarbonate, acrylic, or borosilicate outer tube
- PTFE Teflon® SuperSeal inserts
- Carbon steel shield and flanges, epoxy coated
- ANSI Class 150 lb flanges

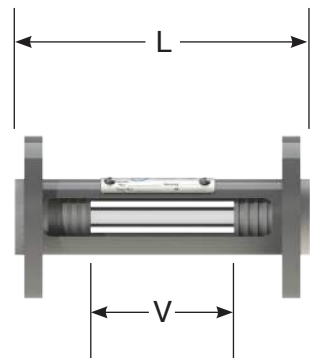


Model FT Specifications Gauge

| Inner tube material | Inner tube size, in. | Outer tube material | Outer tube size, in. | Gauge rating, psig | Flange size, in. ANSI150 | Max length FM approved, in. |
|---------------------|----------------------|---------------------|----------------------|--------------------|--------------------------|-----------------------------|
| HP                  | 1.00                 | OG                  | 2.00                 | 150                | 1.50                     | 48"                         |
| PI                  | 1.00                 | LX                  | 2.25                 | 150                | 1.50                     | 48"                         |
| PI                  | 1.50                 | LX                  | 2.75                 | 135                | 2.00                     | 48"                         |
| PI                  | 1.50                 | OG                  | 2.75                 | 135                | 2.00                     | 48"                         |
| HW                  | 1.50                 | LX                  | 2.75                 | 285 <sup>1</sup>   | 2.00                     | 48"                         |
| HW                  | 1.50                 | OG                  | 2.75                 | 285 <sup>1</sup>   | 2.00                     | 48"                         |
| PI                  | 2.00                 | LX                  | 4.00                 | 115                | 3.00                     | 48"                         |
| PI                  | 2.00                 | OG                  | 4.00                 | 115                | 3.00                     | 48"                         |
| HW                  | 2.00                 | LX                  | 4.00                 | 285 <sup>1</sup>   | 3.00                     | 48"                         |
| HW                  | 2.00                 | OG                  | 4.00                 | 285 <sup>1</sup>   | 3.00                     | 48"                         |
| PI                  | 3.00                 | OG                  | 5.00                 | 95                 | 4.00                     | 48"                         |
| HW                  | 3.00                 | AC                  | 5.00                 | 200                | 4.00                     | 48"                         |
| HW                  | 3.00                 | OG                  | 5.00                 | 200                | 4.00                     | 48"                         |
| HW                  | 4.00                 | AC                  | 7.00                 | 100                | 6.00                     | 12"                         |
| PI                  | 6.00                 | AC                  | 9.00                 | 60                 | 8.00                     | 48"                         |

PI = Standard Borosilicate    HW = Heavywall Borosilicate    LX = Outer Polycarbonate  
OG = Outer Borosilicate    AC = Outer Acrylic  
Note: (1) Actual flange pressure rating may be less based on material selected.

MODEL FT TUBE-N-TUBE ARMORED FLOW INDICATORS  
SPECIFICATIONS FOR ORDERING



Note: Visual length (V) is 4 inches less than overall length (L).

GAUGE PART NUMBERS

Use the spaces below to generate the model number for your indicators. Codes for materials and diameters are from the chart below right.

Overall length  
(L) inches

Indicator  
model

Inner tube  
material

Inner tube  
size

Flange/shield  
material

Flange size

Outer tube  
material

Outer tube  
size

FT

☐ PTFE Teflon® lined reducing flanges: size \_\_\_\_\_ x \_\_\_\_\_

☐ Illuminator

Example Part Number: 18-FT-HW20-S630-OG30

|    |                                    |
|----|------------------------------------|
| 18 | 18 inches overall length           |
| FT | Tube-N-Tube Armored Flow Indicator |
| HW | Heavywall borosilicate inner tube  |
| 20 | 2.0-inch inner tube size           |
| S6 | 316 SS shield and flanges          |
| 30 | 3.0-inch, 150 lb flanges           |
| OG | Outer borosilicate tube            |
| 30 | 3.0-inch outer tube size           |

Teflon is a registered trademark of E.I. Dupont

Codes for Part Numbers

| Inner Tube Material    |  | Code | Size | Code |
|------------------------|--|------|------|------|
| Borosilicate pipe      |  | PI   | 1.00 | 10   |
| Heavywall Borosilicate |  | HW   | 1.50 | 15   |
| High Pressure          |  | HP   | 2.00 | 20   |
|                        |  |      | 2.25 | 22   |
|                        |  |      | 2.75 | 27   |
| Outer Tube Material    |  | Code |      |      |
| Acrylic                |  | AC   | 3.00 | 30   |
| Borosilicate           |  | OG   | 4.00 | 40   |
| Polycarbonate          |  | LX   | 6.00 | 60   |
|                        |  |      | 7.00 | 70   |
|                        |  |      | 9.00 | 90   |
| Flange/Shield Material |  | Code |      |      |
| Carbon Steel           |  | CS   |      |      |
| 316 SS                 |  | S6   |      |      |