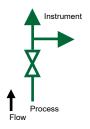
# **VALVES**

#### **GAUGE VALVE**





Block and Bleed Valves are designed for users to isolate pressure to their instrument, bleed off excess process, and remove an instrument without disturbing or shutting down their system. Single block and bleed valves are a compact and economical solution for safe operation of pressure equipment.

#### **FEATURES / BENEFITS**

- Complies with MSS SP-99 and MSS SP-132 Standards Where Applicable
- Rolled Stem Threads for Strength, Durability and Ease of Use
- · Bleed Plug Standard
- 316SS Body Option Complies with NACE MR0175
- Leak Tested Before Shipping
- · Available Factory-Installed on Reotemp Instruments

| SPECIFICATIONS                            |  |  |
|---|--|--|
| Body Material                             | 316SS, Carbon Steel, Monel, Hastelloy<br>C276, Duplex 2205, Super Duplex<br>2507 |  |
| Max Pressure Pressure<br>Rating Available | 10,000 psi   |  |
| Min/Max Temperature<br>Ratings Available  | -67°F to 1,000°F   |  |
| Seats Available                           | Hard, POM, PEEK, PCTFE, ETFE   |  |
| Connections Available                     | 1/4"NPT, 1/2"NPT, 3/4"MNPT   |  |

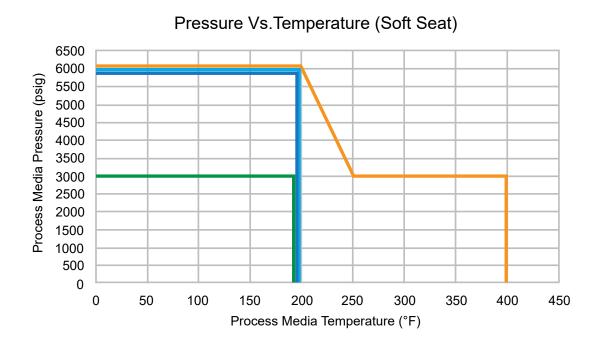
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#### **GAUGE VALVE**

HOW TO ORDER: Choose options to build a part number. For example: G12HTX22S-HT S **G12** X 22 -HT MODEL **SEAT** STEM SEAL SEAT/TIP CONNECTIONS **BODY MATERIAL OPTIONS X** = Hard Seat (Integral) **22** = 1/2" MNPT Inlet x 1/2" **S** = 316SS G12 = Single Block H = Hard Seat T = PTFE Packing OX = Cleaned for Oxygen Service<sup>5</sup> (Integral) V = High Pressure & Bleed - Standard **FNPT Outlet** M = Monel 400 M3 = 2" SS Pipe Mounting Kit **2F** = 1/2" FNPT Inlet x 1/2" **H** = Hastelloy C-276 Process FKM O'Ring<sup>1</sup> S = Hard Seat with HT = Internal Hydrostatic Test S = Soft Seat Valve G = Graphite Packing<sup>1</sup> Stellite Valve Tip FNPT Outlet C = Carbon Steel PM = Positive Material Test H = High Pressure P = POM - Standard Soft 2M = 1/2" MNPT Inlet x 1/2" 2 = Duplex MR = MTR for Body PTFE Packing<sup>2</sup> Seat3 MNPT Outlet 7 = Super Duplex 4P = 1/4" NPT Bleed Port K = PEEK Soft Seat 24 = 1/2" MNPT Inlet x 1/4" PP = Power Piping According to J = High Pressure Graphite Packing<sup>2</sup> **F** = ETFE Soft Seat **FNPT Outlet** ASME B31.16 F = FKM O-Ring C = PCTFE Soft Seat4 2R = 1/2" FNPT Inlet x 1/2" LT = Very Low Process R = Hard Seat with POM MNPT Outlet Temperature (-67°F)<sup>7</sup> MT = Medium Low Process 44 = 1/4" MNPT Inlet x 1/4" Tip = Hard Seat with **FNPT Outlet** <sup>1</sup>Available in hard seat **M** Temperature (-40°F)7 only. **PCTFE Tip 4F** = 1/4" FNPT Inlet x 1/4" T1 = Non-Rotating Stem Tip **FNPT Outlet** TS = Stainless Steel Tag <sup>3</sup>POM is comparable to 32 = 3/4" MNPT Inlet x 1/2" <sup>2</sup>Increases max pressure to 10,000 Delrin. **FNPT Outlet** psi for PTFE and to 5Max Temperature is 392°F at 7,200 psi for Graphite. 4PCTFE is equivalent to 1,305 psi. Max Pressure is 6,000 Available in hard seat Kel-F. psi at 140°F only. <sup>6</sup>Graphite packing with S body only. <sup>7</sup>-MT is not available with carbon steel, FKM, or PEEK. LT requires a hard seat or PCTFE soft seat, PTFE stem seal, and S body.

Note: Not all combinations in the above table are possible. Conversely, if a combination is desired but not seen, ask your Reotemp Sales Representative. Additional configurations and options are available upon request.

#### **VALVE SOFT SEAT CHART**



| _        | POM PEEK/PTF      | E Pac | king —— ETFE •            |
|----------|-------------------|-------|---------------------------|
| Soft Sea | t Ratings         |       | Minimum Tem               |
| РОМ      | 6,000psi at 200°F |       | Soft Seat Value with No C |

| РОМ                  | 6,000psi at 200°F                      |
|----------------------|--|
| PEEK w/ PTFE Packing | 6,000psi at 200°F<br>3,000psi at 400°F |
| ETFE                 | 3,000psi at 200°F                      |
| PCTFE                | 6,000psi at 200°F                      |

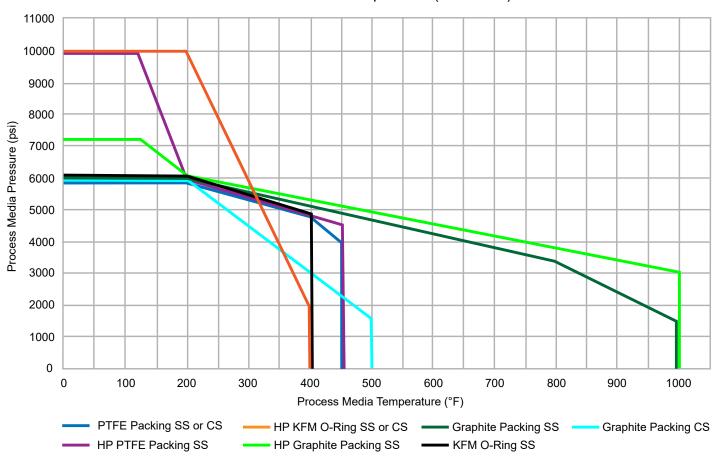
| Minimum Temperature Soft Seat Ratings |       |
|---------------------------------------|-------|
| Soft Seat Value with No Options       | 0°F   |
| -MT Option Code                       | -40°F |
| -LT Option Code                       | -67°F |
|                                       |       |

PCTFE

**Note:** EN 61518 guidelines for direct mount manifolds state that the max temperature on a flange mounted to a transmitter should not exceed 248°F to protect the transmitter from excess heat.

## **VALVE HARD SEAT CHART**





| Hard Seat Ratings                          |  |  |
|--|--|--|
| PTFE Packing SS or CS Body                 | 6,000psi at 200°F<br>4,000psi at 450°F   |  |
| High Pressure FKM O-Ring SS or CS Body     | 10,000psi at 200°F<br>2,000psi at 392°F  |  |
| Graphite Packing and SS Body               | 6,000psi at 200°F<br>1,500psi at 1,000°F |  |
| Graphite Packing and CS Body               | 6,000psi at 200°F<br>1,500psi at 500°F   |  |
| High Pressure PTFE Packing and SS Body     | 10,000psi at 120°F<br>4,500psi at 450°F  |  |
| High Pressure Graphite Packing and SS Body | 7,200psi at 120°F<br>3,000psi at 1,000°F |  |
| FKM O-Ring and SS Body                     | 6,000psi at 200°F<br>4,500psi at 392°F   |  |

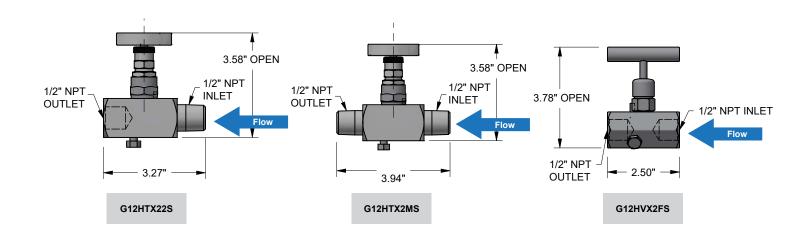
| Minimum Temperature Ratings |       |  |
|-----------------------------|-------|--|
| No Additional Options       | 0°F   |  |
| -MT Option Code             | -40°F |  |
| -LT Option Code             | -67°F |  |

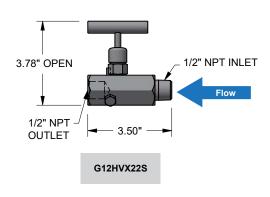
| Soft Tip Max Temperature |       |  |
|--------------------------|-------|--|
| РОМ                      | 212°F |  |
| PCTFE                    | 302°F |  |

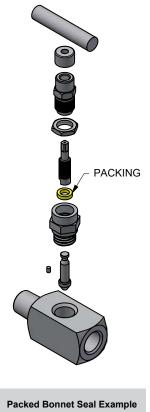
**Note:** EN 61518 guidelines for direct mount manifolds state that the max temperature on a flange mounted to a transmitter should not exceed 248°F to protect the transmitter from excess heat.

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#### **GAUGE VALVE**











Note: Dimensions are given as examples for reference. Contact your Reotemp sales representative for more exact and detailed drawings.

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