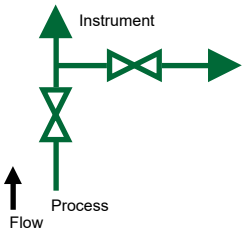
GAUGE VALVE



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 C276, Duplex 2205, Super Duplex 2507
Max Pressure Pressure Rating Available	10,000 psi
Min/Max Temperature 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

GAUGE VALVE

HOW TO ORDER: Choose options to build a part number. For example: G12HTX22S-HT

G12	H	T	X	22	S	-HT
MODEL	SEAT	STEM SEAL	SEAT/TIP	CONNECTIONS	BODY MATERIAL	OPTIONS
G12 = Single Block & Bleed Process Valve	**H** = Hard Seat (Integral) **S** = Soft Seat	**T** = PTFE Packing **V** = High Pressure FKM O'Ring[1] **G** = Graphite Packing[1] **H** = High Pressure PTFE Packing[2] **J** = High Pressure Graphite Packing[2] **F** = FKM O-Ring	**X** = Hard Seat (Integral) - Standard **S** = Hard Seat with Stellite Valve Tip **P** = POM - Standard Soft Seat[3] **K** = PEEK Soft Seat **F** = ETFE Soft Seat **C** = PCTFE Soft Seat[4] **R** = Hard Seat with POM Tip **L** = Hard Seat with PCTFE Tip	**22** = 1/2" MNPT Inlet x 1/2" FNPT Outlet **2F** = 1/2" FNPT Inlet x 1/2" FNPT Outlet **2M** = 1/2" MNPT Inlet x 1/2" MNPT Outlet **24** = 1/2" MNPT Inlet x 1/4" FNPT Outlet **2R** = 1/2" FNPT Inlet x 1/2" MNPT Outlet **44** = 1/4" MNPT Inlet x 1/4" FNPT Outlet **4F** = 1/4" FNPT Inlet x 1/4" FNPT Outlet **32** = 3/4" MNPT Inlet x 1/2" FNPT Outlet	**S** = 316SS **M** = Monel 400 **H** = Hastelloy C-276 **C** = Carbon Steel **2** = Duplex **7** = Super Duplex	**OX** = Cleaned for Oxygen Service[5] **M3** = 2" SS Pipe Mounting Kit **HT** = Internal Hydrostatic Test **PM** = Positive Material Test **MR** = MTR for Body **4P** = 1/4" NPT Bleed Port **PP** = Power Piping According to ASME B31.1[6] **LT** = Very Low Process Temperature (-67°F)[7] **MT** = Medium Low Process Temperature (-40°F)[7] **T1** = Non-Rotating Stem Tip **TS** = Stainless Steel Tag

[1]Available in hard seat only.

[2]Increases max pressure to 10,000 psi for PTFE and to 7,200 psi for Graphite. Available in hard seat only.

[3]POM is comparable to Delrin.

[4]PCTFE is equivalent to Kel-F.

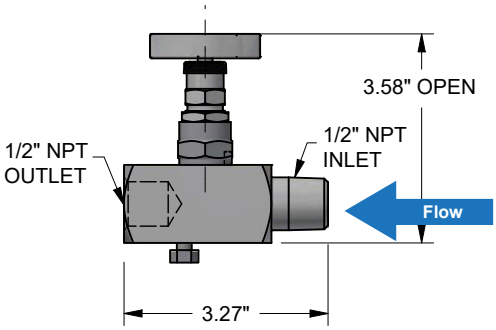
[5]Max Temperature is 392°F at 1,305 psi. Max Pressure is 6,000 psi at 140°F

[6]Graphite packing with S body only.

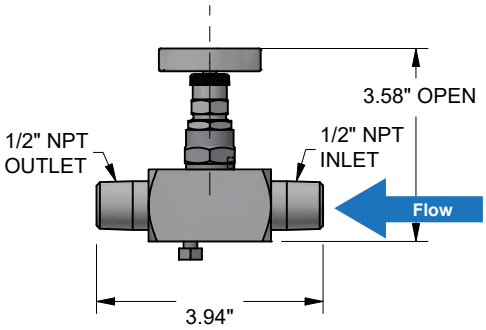
[7]-MT is not available with carbon steel, FKM, or PEEK. LT requires a hard seat or PCTFE soft seat, PTFE stem seal, and S body.

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.

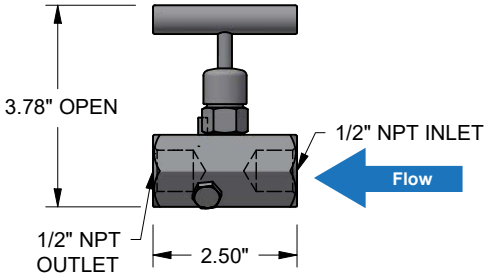
GAUGE VALVE



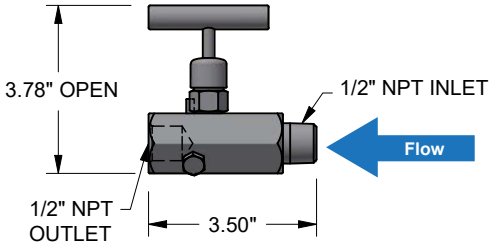
G12HTX22S



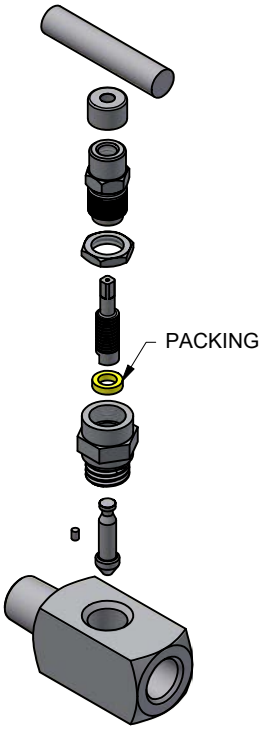
G12HTX2MS



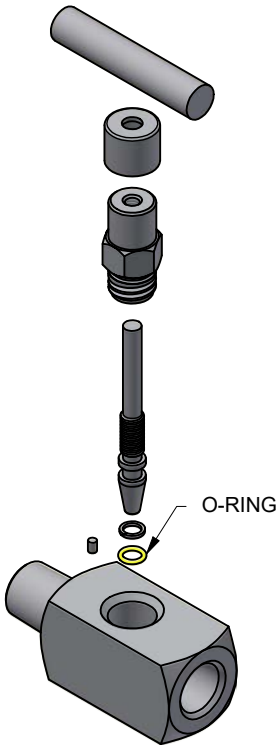
G12HVX2FS



G12HVX22S



Packed Bonnet Seal Example

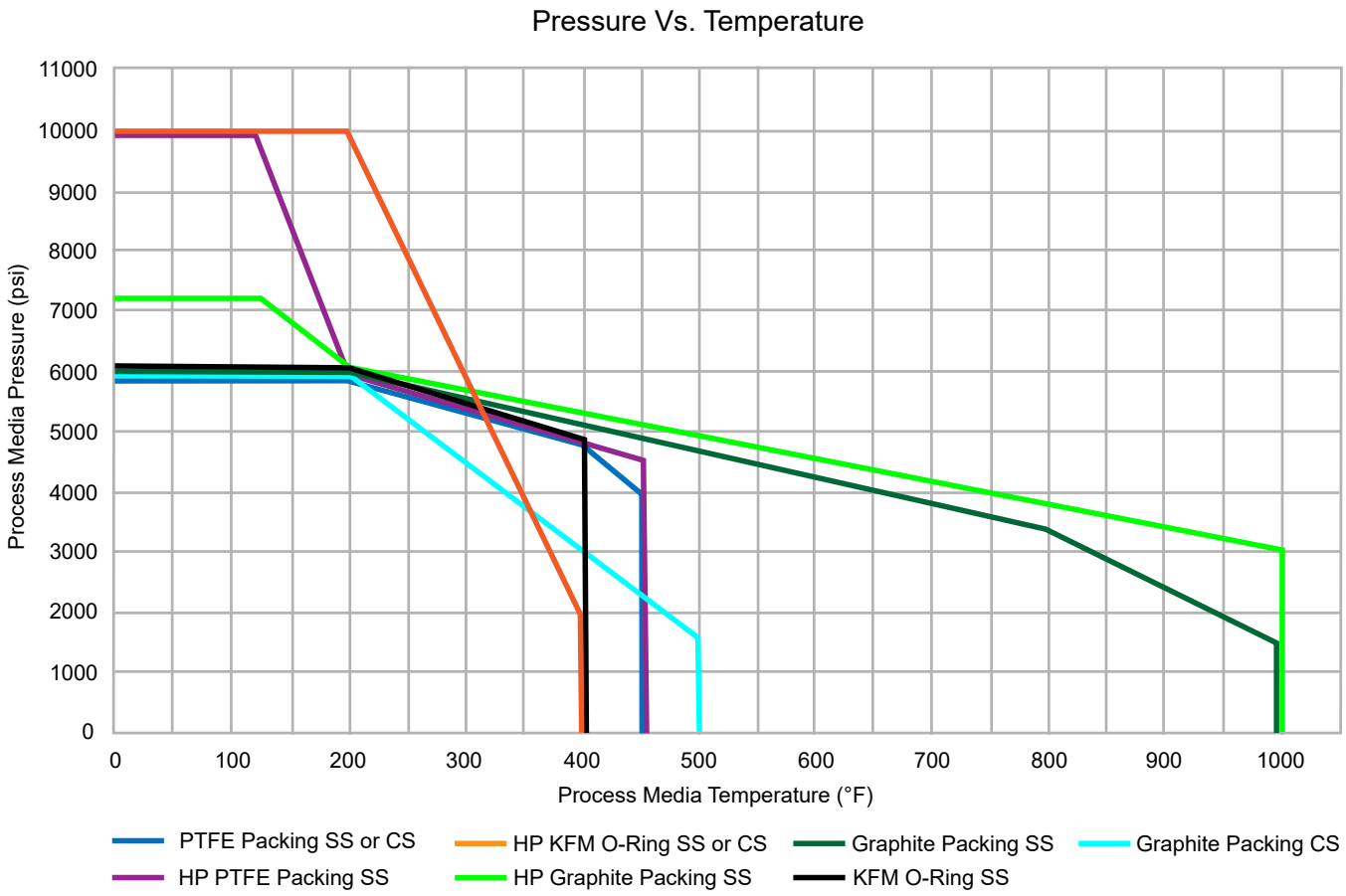


O-Ring Example

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

GAUGE VALVE

Hard Seat



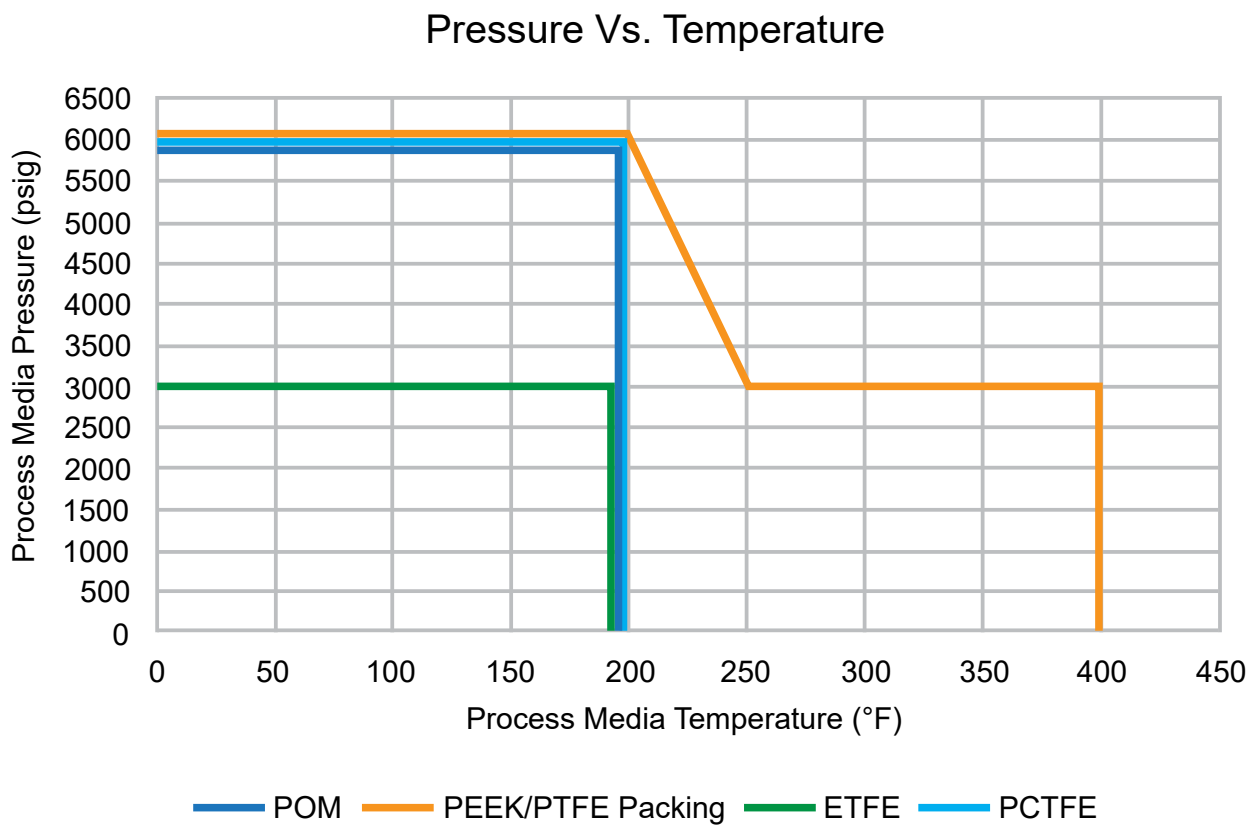
Hard Seat Ratings	
PTFE Packing SS or CS Body	6,000psi at 200°F 4,000psi at 450°F
High Pressure FKM O-Ring SS or CS Body	10,000psi at 200°F 2,000psi at 392°F
Graphite Packing and SS Body	6,000psi at 200°F 1,500psi at 1,000°F
Graphite Packing SS and CS Body	6,000psi at 200°F 1,500psi at 500°F
High Pressure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

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

Soft Tip Max Temperature	
POM	212°F
PCTFE	302°F

GAUGE VALVE

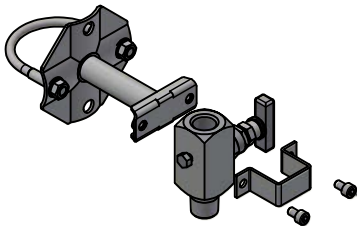
Soft Seat



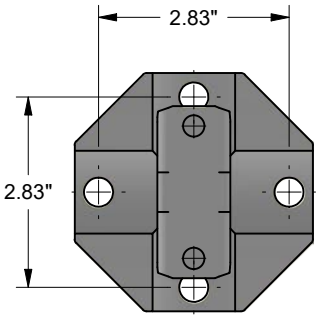
Soft Seat Ratings	
POM	6,000psi at 200°F
PEEK w/ PTFE Packing	6,000psi at 200°F 3,000psi at 400°F
ETFE	3,000psi at 200°F
PCTFE	6,000psi at 200°F

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

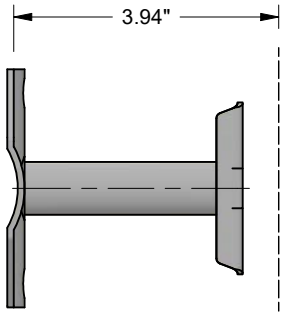
GAUGE VALVE



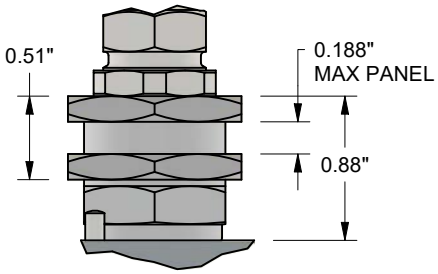
-M3 (2" SS Pipe Mounting Bracket Option)



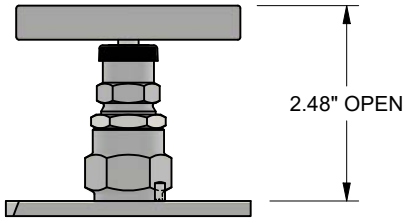
Mounting Bracket Hole Pattern



Mounting Bracket Side View



-M4 (Panel Mounting Option)



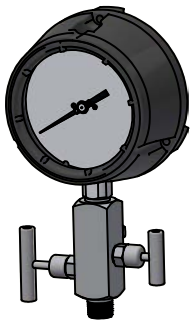
H and J (High Pressure Packing)

GAUGE VALVE

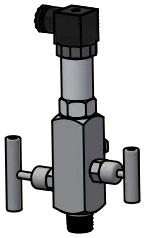
Instrument and Valve Assemblies

Why order a Reotemp Instrument and Valve Assembly?

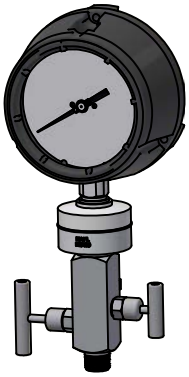
- Easy out-of-the-box installation
- All potential leak paths are factory tested (1,000 psi max)
- High quality sealant for each threaded connection
- Saves time in the field
- Fully customizable to include diaphragm seals, monoflanges, swivel adapters, etc.



Valve Mounted to Pressure Gauge



Valve Mounted to Transmitter



Valve Mounted to Diaphragm Seal

Why does every pressure and temperature instrument need the right valve?

- For easier maintenance and repair
- For quicker calibration checks
- For more control when putting an instrument into service
- For capturing process media before it vents to the atmosphere