





Unidirectional Flow (Hard Seat)

Bidirectional Flow (Soft Seat or Soft Tip)

Miniature valves isolate instruments from system pressure in order that instruments can be removed without shutting down or disrupting the system. They are a compact, economical solution while still being rugged enough for demanding process conditions, and they can be added to other valve assemblies to provide convenient bleed-off capability.

FEATURES / BENEFITS

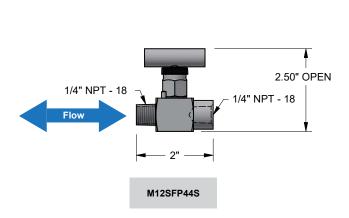
- Complies with MSS SP-99 and MSS SP-132 Standards Where Applicable
- Rolled Threads for Strength, Durability, and Ease of Use
- · 316SS Body Option Complies with NACE MR0175
- Leak Tested Before Shipping
- Available Factory-Installed on Reotemp Instruments

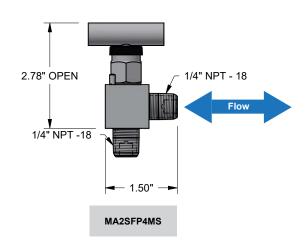
SPECIFICATIONS		
Body Materials Available	316 Stainless Steel, Carbon Steel, Monel, Hastelloy C276, Brass	
Max Pressure Rating Available	Hard Seat - 10,000 psi at 200°F, Soft Seat - 6,000 psi at 200°F.	
Min/Max Temperature Ratings Available	-67°F to 1000°F	
Seats Available	Hard, POM, PCTFE	
Connections Available	1/4" NPT, 1/8" NPT	
Bore	Soft Seat - 0.138" Bore Hard Seat - 0.172" Bore	

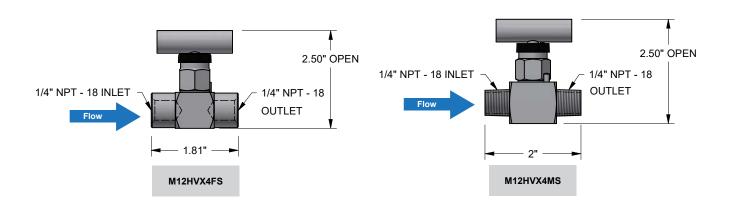
HOW TO ORDER: Choose options to build a part number. For example: M12SFP44S-HT S P **M12** 44 S -HT MODEL **SEAT SEAT SEAL SEAT/TIP** CONNECTIONS BODY MATERIAL **OPTIONS** X = Hard Seat 44 = 1/4" MxF NPT M12 = Process Mini **S** = 316SS **OX** = Cleaned for Oxygen H = Hard Seat (Integral) T = PTFE Packing **4F** = 1/4" FxF NPT Needle Valve S = Soft Seat V = HP FKM O-Ring (Integral) M = Monel 400 Service³ MA2 = Angled Seal - Standard for P = POM - Standard 4M = 1/4" MxM NPT H = Hastelloy C-276 M4 = Panel Mounting Process Mini Soft Seat4 88 = 1/8" MxF NPT C = Carbon Steel HT = Internal Hydrostatic Hard Seat Needle Valve C = PCTFE Soft Seat5 **8F** = 1/8" FxF NPT B = Brass¹ Test F = FKM O-Ring Seal - Standard for Soft R = Hard Seat with 8M = 1/8" MxM NPT PM = Positive Material POM Tip ¹Brass comes with Test Seat G = Graphite Packing² L = Hard Seat with a round handle as MR = MTR for Body F = FEPM O-Ring Seal PCTFE Tip standard. HS = SS Round Handle E = Hard Seat with **HA** = Aluminum Round PEEK Tip Handle ²Only available in hard T1 = Non-rotating Stem seat with no soft tips. ⁴POM comparable to Tip Delrin. TS = Stainless Steel Tag ⁵PCTFE is equivalent ³Max pressure is 6,000 to Kel-F. psi at 140°F.

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.

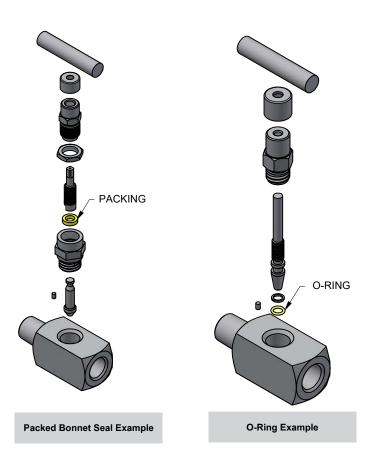
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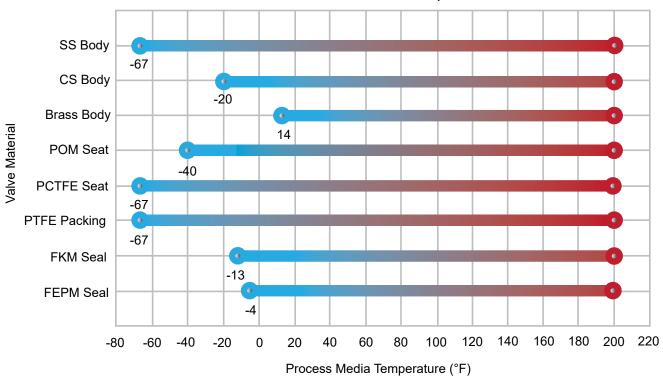
Note: Dimensions are given as examples for reference. Contact your Reotemp sales representative for more exact and detailed drawings.



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Soft Seat

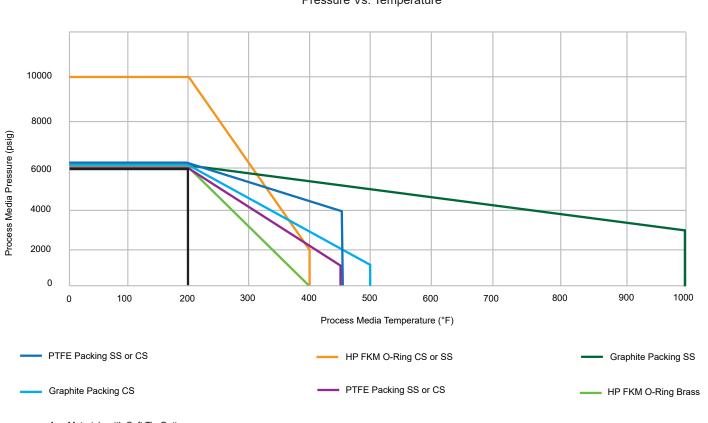
Soft Seated Mini-Valve Material Temperature Limitations



Soft Seat Ratings Mini Valve		
Brass Body	3,000psi at 200°F	
All Other Standard Materials	6,000psi at 200°F	

Hard Seat

Pressure Vs. Temperature



Any Materials with Soft Tip Option

Hard Seat Ratings Mini Valve		
PTFE Packing SS or CS Body	6,000psi at 200°F 4,000psi at 450°F	
HP FKM O-Ring Bonnet and SS or CS Body	10,000psi at 200°F 2,000psi at 392°F	
HP FKM O-Ring Bonnet and Brass Body	6,000psi at 200°F	
PTFE or Graphite Packing and Brass Body	6,000psi at 200°F 1,000psi at 450°F	
Graphite Packing and SS Body	6,000psi at 200°F 1,500psi at 1,000°F	
Graphite Packing and CS Body	6,000psi at 200°F 1,500psi at 500°F	
Soft Tip (POM, PCTFE, or PEEK)	6,000psi at 200°F	

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