Block and Bleed Gauge Valve – M9

Product Overview

The M9 (block and bleed) gauge valve is specifically designed to facilitate safe, compact, and economical gauge installation.

Block valve seating is interchangeable between 'hard' or 'soft' without changing the bonnet assembly. This feature enhances the value of the M9 by extending the useful life of the valve.

The M9's Bleed Plug is integral and employs metal-to-metal seating. It enables pressure to be safely vented without breaking threaded connections.



Applications

Static pressure gauge and instrument installation for isolation and venting.

Features and Benefits

- Packing below threads (O-ring bonnet) prevents lubricant washout, thread corrosion, and keeps solids from entering thread area, which can cause galling. It also prevents process contamination.
- Adjustable packing Teflon[®] and GRAFOIL[®] packed bonnets adjust easily, decreasing packing replacement downtime and increasing valve life.
- Safety back seating prevents stem blowout or accidental removal while in operation and provides a metal-tometal secondary stem seal while in the full open position.
- Chrome plating of 316 SS stem prevents galling or freezing of stem threads when similar metals mate. CS valves use a 303 SS stem.
- Rolled threads provide additional thread strength. The stem, bonnet, and male NPT threads are rolled, not cut.

- Mirror stem finish burnished to a 16 RMS finish in the packing area enabling smooth stem operation and extending packing life.
- **One-piece handle design** prevents loss of the valve handle due to vibration or during maintenance.
- Soft or metal seat for bubble-tight shutoff is field replaceable for easy maintenance. The V-tipped stem provides accurate flow control.
- Extended valve life, if soft seat becomes damaged it can be removed, leaving a metal seated valve.

Note

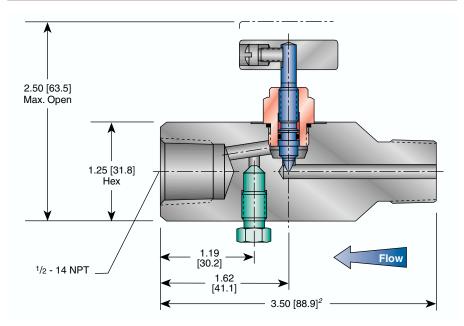
1. Teflon[®] is a registered trademark of the E.I. duPont de Nemours Company.

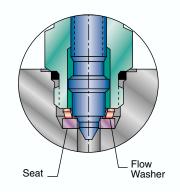


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Block and Bleed Gauge Valve – M9 Specifications

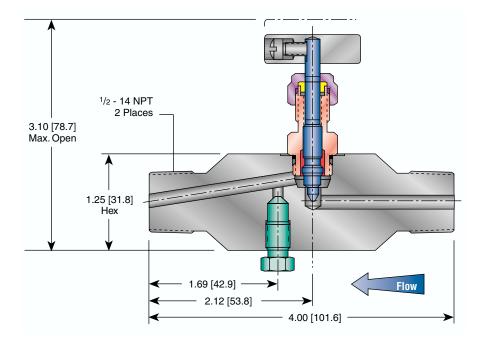






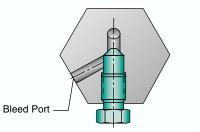
Optional Soft Seat

M9VIS – 4M Dimensions with Teflon® Bonnet¹, inches [mm]



Notes

- 1. Bonnets interchangeable between all body configurations.
- 2. 4.00-inch [101.6 mm] for -44C, -46C.



Section Through Bleed Plug

Block and Bleed Gauge Valve – M9 Specifications

Standard Materials											
Metal Seat											
Valve ¹	Body	Bonnet	S	Stem	Packing		Bleed Plug	Seat			
CS2	A108 CS	A108 CS	ŀ	\581-303 SS	Teflon® or B	UNA-N O-ring	A108 CS	Integral			
SS	A479-316 SS	A479-316	SS A	276-316 SS	Teflon [®] or B	UNA-N O-ring	A276-316 SS	Integral			
SG ³	A479-316 SS	A479-316	SS M	/lonel® 400	Teflon®		A279-316 SS	Integral			
Monel®	Monel [®] R405	Monel [®] R	405 N	/lonel® R405	Teflon®		Monel [®] R405	Integral			
Soft Seat											
Valve ¹	Body	Bonnet	Stem	Packing		Flow Washer	Bleed Plug	Seat ⁴			
CS2	A108 CS	A108 CS	A581-303 S	S Teflon® or	BUNA-N O-ring	316 SS	A108 CS	Delrin®			
SS	A479-316 SS	A479-316 SS	A276-316 S	S Teflon® or	Viton [®] O-ring	316 SS	A276-316 SS	PCTFE ⁵			
SG ³	A479-316 SS	A479-316 SS	Monel [®] 400	Teflon®		316 SS	A276-316 SS	PCTFE ⁵			

Notes

- Approximate valve weight 1.2 lb [.54 kg]. Orifice size .136-inch [3.5 mm] diameter. Valve C_v Hard Seat .25 maximum. Valve C_v Soft Seat .24 maximum.
- CS is zinc-cobalt plated to prevent corrosion (except male plain end is black oxide coated).

Pressure and Temperature Ratings

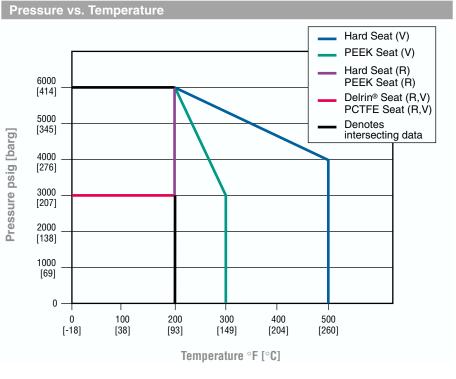
Ratings with Teflon® Bonnet

Hard Seat	6000 psig @ 200°F [414 barg @ 93°C] 4000 psig @ 500°F [276 barg @ 260°C]
Delrin [®] and PCTFE ⁵	3000 psig @ 200°F [207 barg @ 93°C]
PEEK Seat	6000 psig @ 200°F [414 barg @ 93°C] 3000 psig @ 300°F [207 barg @ 149°C]

Ratings with O-ring Bonnet

Hard Seat	6000 psig @ 200°F [414 barg @ 93°C]
Delrin [®] and PCTFE ⁵	3000 psig @ 200°F [207 barg @ 93°C]
PEEK Seat	6000 psig @ 200°F [414 barg @ 93°C]

- SG (Sour Gas) meets the requirements of NACE MR0175-latest revision.
- 4. PEEK available.
- PCTFE (Polychlorotrifluoroethylene) is the exact equivalent of Kel-F[®].
- Viton[®] and Delrin[®] are registered trademarks of the E.I. duPont de Nemours Company.
- 7. Monel[®] is a registered trademark of the International Nickel Company.



(V) = with Teflon[®] Bonnet Assembly
(R) = with O-ring Bonnet Assembly

Block and Bleed Gauge Valve – M9 Specifications

Ordering Information					
M9	V	I	S	– 44C	– SG
Packing					
V – Teflon [®] Bonnet (standard for R – O-ring Bonnet	316 SS)				
Seat					
I – Integral D – Delrin® (standard) E – PEEK K – PCTFE ¹					
Body Materials					
C – CS S – SS M – Monel®					
Connections (Inlet/Outlet)					
44 – 1/2-inch MNPT x 1/2-inch FN 46 – 3/4-inch MNPT x 1/2-inch FN 4M – 1/2-inch MNPT x 1/2-inch M	NPT				
C – Male plain end (CS is black	oxide coate	d)			
Options					

- AL Arctic Lubricant (Low Temperature Service) Not available for CS valves.
- CLC Chlorine Cleaning
- HD Hydrostatic Testing (100%) (MSS-SP-61)
- MS Monel® Stem
- OC Oxygen Cleaning
- PHB Phenolic Black Handle
- PHG Phenolic Green Handle
- PHR Phenolic Red Handle
- PM Panel Mount (Teflon® packed only)
- SG Sour Gas meets the requirements of NACE MR0175-latest revision (SS only)
- SP Special Requirements please specify

Note

1. PCTFE (Polychlorotrifluoroethylene) is the exact equivalent of Kel-F[®].