

### Block and Bleed Needle Valves

**Features**

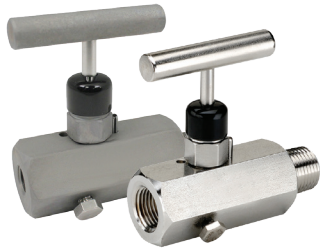
- Allows pressure to be bled off without disturbing the permanent piping installation, allowing quick and easy removal or replacement of instruments
- FKM O-ring seal and PTFE back-up ring below the threads protect from corrosion and galling
- Stem threads are rolled for strength and ease of operation

**Material**

- Stems: 316 stainless steel

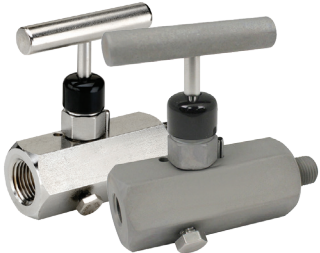
**Specifications**

- Metal-to-metal hard seat design is 100% helium leak tested to 1 x 10<sup>-4</sup> ml/s at **200 PSI**
- Orifice size is 0.187", flow coefficient: 0.44
- 0.090" bleed hole located on bottom is controlled by a 1/4"-20 UNF-2A bleed screw



**Hard Seat Male to Female**

NPT Size	Handle Style	PSI at 200°F	Zinc Nickel Plated Steel Part #	316 Stainless Steel Part #
1/4" - 18	T design	10,000	MFC602	MFS602
1/2" - 14			MFC604	MFS604



**Soft Seat Male to Female**

NPT Size	Handle Style	PSI at 200°F	Zinc Nickel Plated Steel Part #	316 Stainless Steel Part #
1/4" - 18	T design	6,000	MFC702	MFS702
1/2" - 14			MFC704	MFS704

### Bleed Needle Valves

**Features**

- Convenient way to relieve process pressures trapped between a shut-off valve and the instrument
- FKM O-ring seal and PTFE back-up ring below the threads protects from corrosion and galling
- Stem threads are rolled for strength and ease of operation

**Material**

- Stems: 316 stainless steel

**Specifications**

- Metal-to-metal hard seat design is 100% helium leak tested to 1 x 10<sup>-4</sup> ml/s at **200 PSI**
- Non-rotating soft tip stem and a backup metal-to-metal seal
- 0.159" bleed port



316 stainless

**Hard Seat Male**

NPT Size	Handle Style	PSI at 200°F	Zinc Nickel Plated Steel Part #	316 Stainless Steel Part #
1/4" - 18	T design	10,000	MC802	MS802
1/2" - 14			MC804	MS804



316 stainless

**Soft Tip Male**

NPT Size	Handle Style	PSI at 200°F	Zinc Nickel Plated Steel Part #	316 Stainless Steel Part #
1/4" - 18	T design	6,000	MC852	MS852
1/2" - 14			MC854	MS854