

## 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 protects from corrosion and galling
- Stem threads are rolled for strength and ease of operation

### Material

- All stems are 316 stainless steel

### Specifications

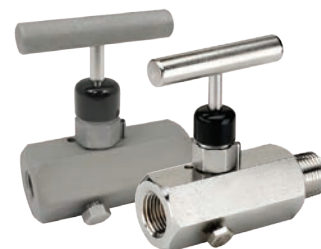
- Metal-to-metal hard seat design is 100% helium leak tested to  $1 \times 10^{-4}$  ml/s at **200 PSI**
- Orifice size is 0.187", flow coefficient: 0.44
- 0.090" bleed hole located on bottom is controlled by a 1/4"-20 UNF-2A bleed screw

### 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	<b>10000</b>	MFC602	MFS602
1/2" - 14	T design	<b>10000</b>	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	<b>6000</b>	MFC702	MFS702
1/2" - 14	T design	<b>6000</b>	MFC704	MFS704



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## 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

- All stems are 316 stainless steel

### Specifications

- Metal-to-metal hard seat design is 100% helium leak tested to  $1 \times 10^{-4}$  ml/s at **200 PSI**
- Non-rotating soft tip stem and a backup metal-to-metal seal
- 0.159" bleed port

### 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	<b>10000</b>	MC802	MS802
1/2" - 14	T design	<b>10000</b>	MC804	MS804

### 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	<b>6000</b>	MC852	MS852
1/2" - 14	T design	<b>6000</b>	MC854	MS854



316 stainless



316 stainless