

Mini Needle Valves

Features

- Available in a variety of materials and handle options
- 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 1×10^{-4} ml/s at **200 PSI**
- 1/8" and 1/4" are orifice size: 0.172", flow coefficient: 0.42
- 1/2": orifice size are 0.187", flow coefficient: 0.44, hex body

Male to Female

| NPT Size | Handle Style | PSI @ 200°F | Brass Part # | Handle Style | PSI @ 200°F | Zinc Nickel Plated Steel Part # | 316 Stainless Steel Part # |
|-----------|--------------|-------------|--------------|--------------|-------------|---------------------------------|----------------------------|
| 1/8" - 27 | knurled knob | 6000 | MFB101 | T design | 10000 | MFC101 | MFS101 |
| 1/4" - 18 | knurled knob | 6000 | MFB102 | T design | 10000 | MFC102 | MFS102 |
| 1/2" - 14 | --- | --- | --- | T design | 10000 | MFC404 | MFS404 |

Female to Female

| NPT Size | Handle Style | PSI @ 200°F | Brass Part # | Handle Style | PSI @ 200°F | Zinc Nickel Plated Steel Part # | 316 Stainless Steel Part # |
|-----------|--------------|-------------|--------------|--------------|-------------|---------------------------------|----------------------------|
| 1/8" - 27 | knurled knob | 6000 | FFB101 | T design | 10000 | FFC101 | FFS101 |
| 1/4" - 18 | knurled knob | 6000 | FFB102 | T design | 10000 | FFC102 | FFS102 |
| 1/2" - 14 | --- | --- | --- | T design | 10000 | FFC404 | FFS404 |

Multiport Needle Valves

Features

- Reduces the number of gauge and other instrument connections to permanent piping installations, decreasing possible leak paths
- 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 1×10^{-4} ml/s at **200 PSI**
- 1/2" female NPT port
- Orifice size is 0.187", flow coefficient: 0.44

Hard Seat Male to Female

| NPT Size | Handle Style | PSI @ 200°F | Zinc Nickel Plated Steel Part # | 316 Stainless Steel Part # |
|-----------|--------------|-------------|---------------------------------|----------------------------|
| 1/2" - 14 | T design | 10000 | MFC204 | MFS204 |
| 3/4" - 14 | T design | 10000 | MFC20604 | MFS20604 |

Soft Seat Male to Female

| NPT Size | Handle Style | PSI @ 200°F | Zinc Nickel Plated Steel Part # | 316 Stainless Steel Part # |
|-----------|--------------|-------------|---------------------------------|----------------------------|
| 1/2" - 14 | T design | 6000 | MFC304 | MFS304 |
| 3/4" - 14 | T design | 6000 | MFC30604 | MFS30604 |

