

## 300 SERIES



**Note:** Shown with optional bleed plug.

- Multiport design reduces the number of gauge and other instrument connections to permanent piping installations, decreasing possible leak paths
- Optional bleed plugs further allow pressure to be bled off without disturbing the permanent piping installation
- 100% helium leak tested to  $1 \times 10^{-4}$  ml/s for performance and reliability
- Replaceable Acetal seat and straight through porting for bidirectional, high capacity flow and easy roddable cleaning
- PCTFE or PEEK soft seat optional
- Blow-out proof stem provides a secondary stem seal in the full open position
- FKM o-ring seal and PTFE back-up ring below the stem threads to protect from corrosion and galling; PTFE packing optional
- All stem threads are rolled for strength and ease of operation
- One-piece bonnet with a metal-to-metal seal to the valve body below the bonnet threads
- Slotted spring pin to prevent accidental loosening
- Vinyl dust cap for bonnet and stem (non-packing)

### Multiport Valve Accessories



**Bleed Plug,**  
see pg. 65 for details.



**Plug,**  
see pg. 65 for details.



**Bleed Valve**  
See pg. 48 for details.

### SPECIFICATIONS

<b>Materials</b>	Zinc-Nickel plated Steel, electropolished 316 Stainless Steel*
<b>Connections</b>	1/2" NPT to 3/4" NPT Male-female Straight through porting for bidirectional, high capacity flow
<b>Pressure rating</b>	6,000 psi @ 200 °F
<b>Orifice size</b>	0.187"
<b>Flow coefficient</b>	$C_v$ 0.64
<b>Stem seal &amp; type</b>	All 316 Stainless Steel stems with FKM o-ring and PTFE back-up ring below the threads, PTFE packing optional
<b>Options</b>	Panel mountings, o-ring materials, handles, packings, regulating stem and stem tips
<b>Weight</b>	Approximately 2.2 lb.

\* All 316SS products meet the requirements of NACE MR0175/ISO 15156-3.

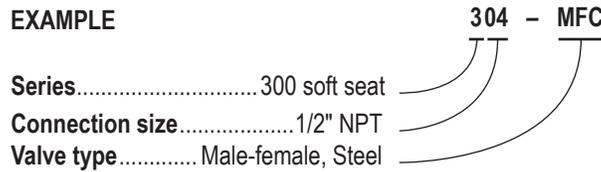
**WARNING:** This product can expose you to chemicals including Lead and Nickel, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**NOTE:** All NOSHOK valve products conform to the MSS SP-99 instrument valves standards, and valves supplied with packing also conform to MSS SP-132 compression packing systems for instrument valves standard.

<b>SERIES</b>	3 300 Series, soft seat	
<b>CONNECTION SIZES</b>	04 1/2" NPT	0604 3/4" NPT male - 1/2" NPT female
<b>VALVE TYPES</b>	MFC Male-Female, Steel	MFS Male-Female, Stainless Steel

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

**EXAMPLE**



To meet all of your specific application requirements, the following **additional options** are available for these needle valves. To order all or any of these options, simply add them to the part number as shown in the diagram below.

**NOTE 1:** The example shown includes **ALL possible additional options**. Please include **ONLY** the options required for your application when building your part number. (EXAMPLE: 304-MFC-HL5)

**NOTE 2:** When a packing option is selected, an o-ring option is **NOT** available.

ORDERING INFORMATION - ADDITIONAL OPTIONS			
<b>SOFT SEATS</b>	PK1 PEEK	KF1 PCTFE	
<b>PACKING</b>	P1 PTFE		
<b>STEM TIP</b>	T1 Non-rotating (316 Stainless)		
<b>O-RINGS*</b>	EM1 EPDM	KZ1 FFKM (Perfluoroelastomer)	NB1 NBR
<b>PANEL MOUNTINGS</b>	PM1 Panel mount (1 nut)	PM2 Panel mount (2 nuts)	
<b>HANDLES</b>	HL4 1-3/8" Phenolic	HL5 1-3/4" Phenolic	

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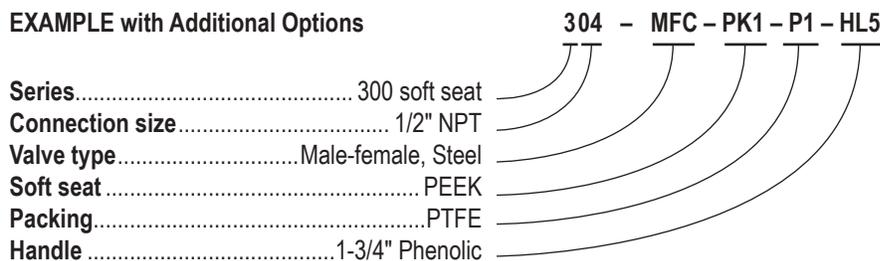
\* Other o-ring materials available on request.

**NOTE:** Plugs and bleed plugs are available and can be ordered separately, see page 65.

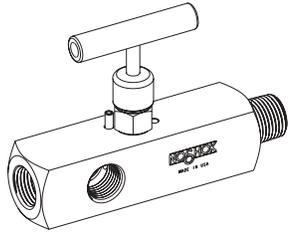
Please note that the standard o-ring in all the NOSHOK valves is FKM and the standard handles are "T" handles (HL2).

The handle material will always match the material of the valve, unless otherwise specified. For example, the "T" handle (HL2) on the 304-MFC will be Steel. When only the standard configuration is needed, no additional designations are necessary. Please consult the factory for special application requests.

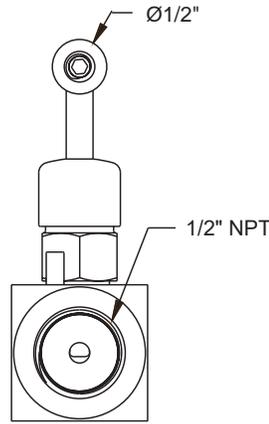
**EXAMPLE with Additional Options**



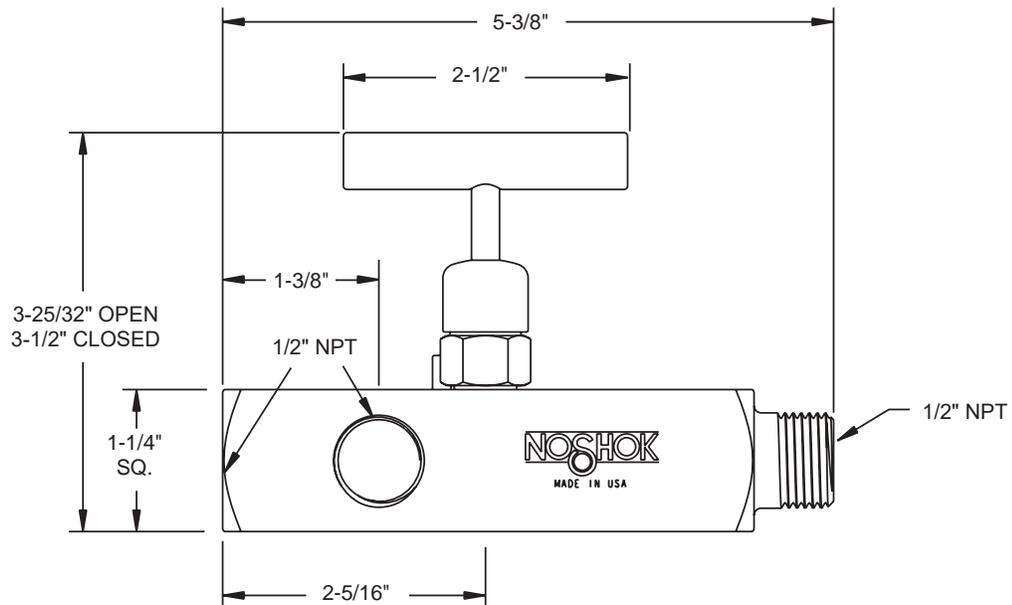
**Male-Female**



**Front View**

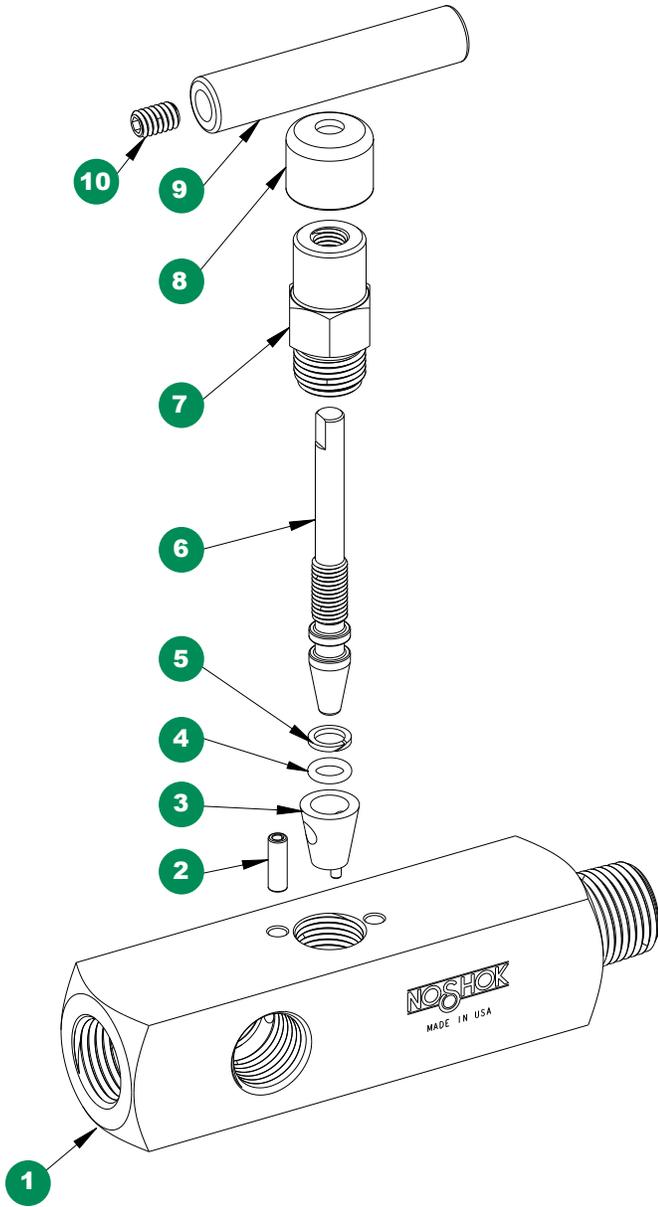


**Side View**

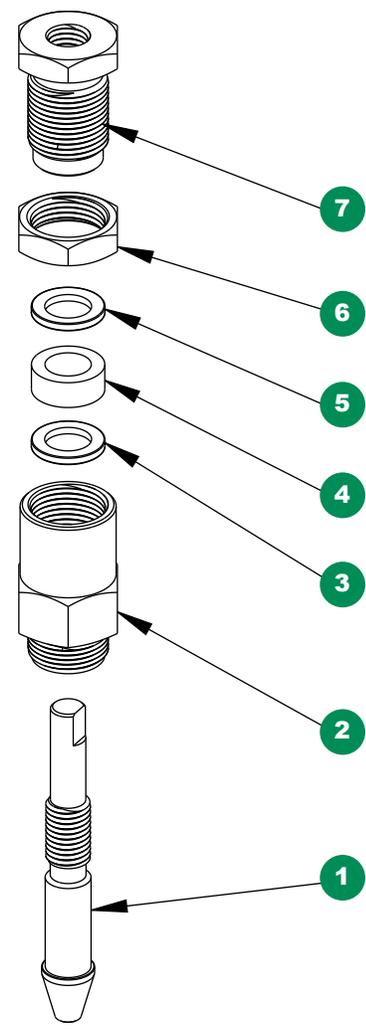


For panel mount, packing, & stem tip dimensions, see pgs. 64-67.

**Multiport, Soft Seat      Option With Packing**



- 1 Valve body
- 2 Slotted spring pin
- 3 Acetal seat
- 4 FKM oring
- 5 PTFE back-up ring
- 6 Valve stem
- 7 Valve bonnet
- 8 Dust cap
- 9 Valve "T" handle
- 10 Set screw



- 1 Valve packing stem
- 2 Valve packing bonnet
- 3 Packing washer
- 4 Packing
- 5 Packing washer
- 6 Jam nut
- 7 Packing adjustment screw