Mini, Soft Tip



150 SERIES

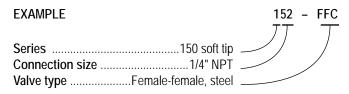
- Compact size valve built for maximum durability and robust performance in the toughest applications
- 100% helium leak tested to 1 x 10⁻⁴ ml/s for guaranteed performance and reliability
- Soft tip valves feature a patented Delrin® non-rotating soft tip stem, and a back-up metal-to-metal seal (U.S. Patent 6,820,857)
- Maximum pressure of 6,000 psi
- Available in zinc-nickel plated steel, electropolished stainless steel, and brass
- FKM o-ring seal and PTFE back-up ring below the stem threads to protect from corrosion and galling; PTFE packing optional
- All stems are 316 stainless steel
- · All stem threads are rolled for strength and ease of operation
- Patented body-to-bonnet, metal-to-metal seal is designed to significantly increase the pressure range of the valve (U.S. Patent 7,758,014)

SPECIFICATIONS								
Materials	Zinc-nickel plated steel, electropolished 316 stainless steel, 360 brass							
Connections	1/8" NPT, 1/4" NPT, 7/16"-20 UNF-2B, 9/16"-18 UNF-2B Male-male, Male-female, Female-female, in-line and angled configurations							
Pressure ratings	6,000 psi @ 200 °F							
Orifice size	0.172"							
Flow coefficient	C _V 0.42							
Stem seal & type	All 316 stainless steel stems with FKM o-ring and PTFE back-up ring below the threads, PTFE packing optional							
Options	Panel mountings, o-ring materials, handles, packings, regulating stem and stem tips							

ORDERING INFORMATION									
SERIES	1	150 Series, soft tip							
CONNECTION SIZES	51 52	1/8" NPT 1/4" NPT	92 93	7/16"- 20 UNF-2B* 9/16"- 18 UNF-2B*					
VALVE TYPES	EFFB MMAB MFAB FFAB	Male-Male, Brass Male-Female, Brass Female-Female, Brass Extended Female-Female, Brass Male-Male Angle, Brass Male-Female Angle, Brass Female-Female Angle, Brass Male-Male, Steel		Male-Female, Steel Extended Male-Female, Steel Female-Female, Steel Extended Female-Female, Steel Male-Male Angle, Steel Male-Female Angle, Steel Female-Female Angle, Steel Male-Male, Stainless Steel	MFS EMFS FFS EFFS MMAS MFAS FFAS	Male-Female, Stainless Steel Extended Male-Female, Stainless Steel Female-Female, Stainless Steel Extended Female-Female, Stainless Steel Male-Male Angle, Stainless Steel Male-Female Angle, Stainless Steel Female-Female Angle, Stainless Steel			

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

^{*} Available only on EFFB, EFFC and EFFS valve types.



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: 152-MFC-HL3)

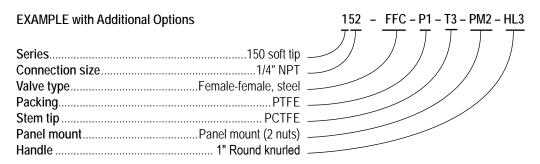
NOTE 2: When a packing option is selected, an o-ring option is NOT available.

ORDERING INFORMATION - Additional Options									
PACKINGS	P1	PTFE							
STEM TIPS	T3 T4	PCTFE PEEK	T10 T11	Regulating Delrin® Regulating PCTFE	T12	Regulating PEEK			
O-RINGS*	EM1	EPDM	KZ1	FFKM (Kalrez® 3018 or equivalent)	NB1	NBR			
PANEL MOUNTINGS	PM1	Panel mount (1 nut)	PM2	Panel mount (2 nuts)					
HANDLES	HL3	1" Round knurled							

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

Please note that the standard o-ring in all the NOSHOK mini valves is FKM and the standard handles are brass round knurled handles (HL3), steel 1-3/8" mini "T" handles (HL7), and 316SS 1-3/8" mini "T" handles (HL7).

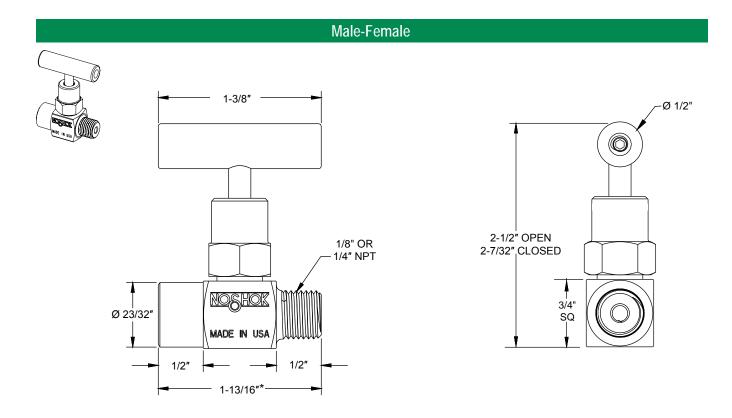
The handle material will always match the material of the valve, unless otherwise specified. For example, the round knurled (HL3) on a 152-FFB will be brass. When only the standard configuration is needed, no additional designations are necessary. Please consult the factory for special application requests.



^{*} Other o-ring materials available on request.

Dimensions

1/8" OR 1/2" OPEN 2-7/32" CLOSED 3/4" SQ 1/2"



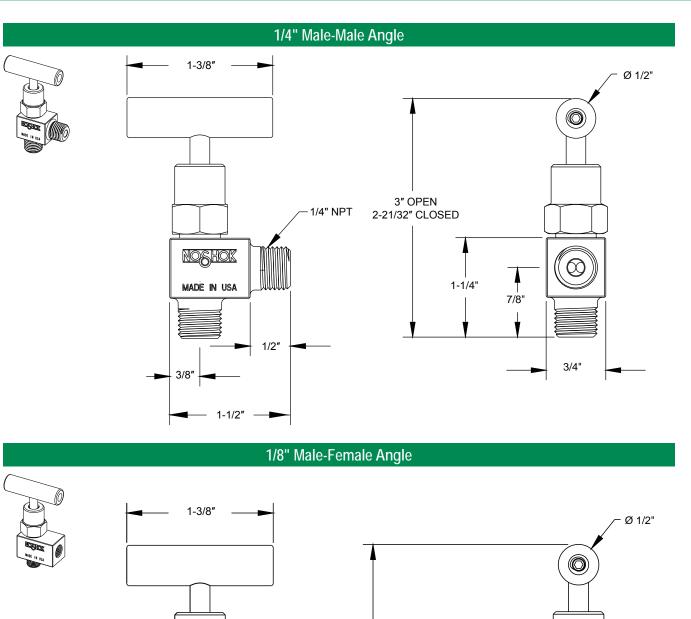
^{*}Dimension on extended version is 2-1/4"

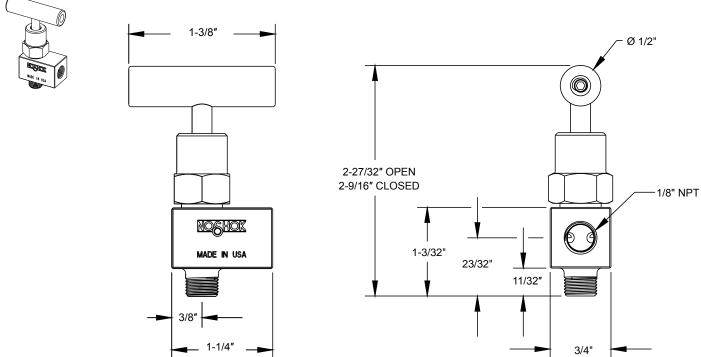
1-3/8" 1-3/8" 2-1/2" OPEN 2-7/32" CLOSED MADE N USA 1-13/16"*

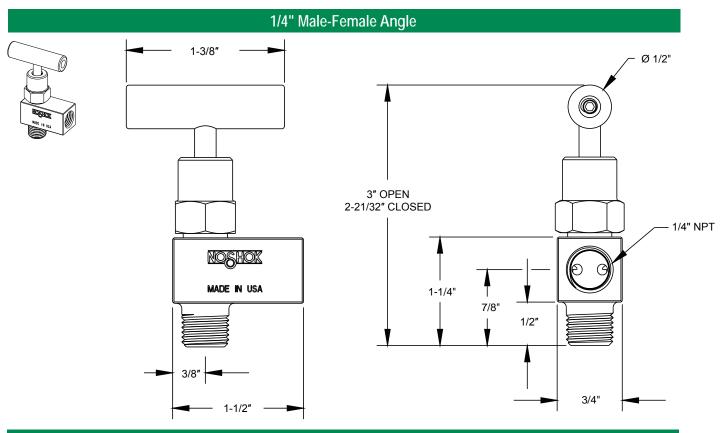
*Dimension on extended version is 2-1/4"

1/8" Male-Male Angle 1-3/8" 1/8" NPT 2-27/32" OPEN 2-9/16" CLOSED 1-3/32" 3/8" 1-1/4"

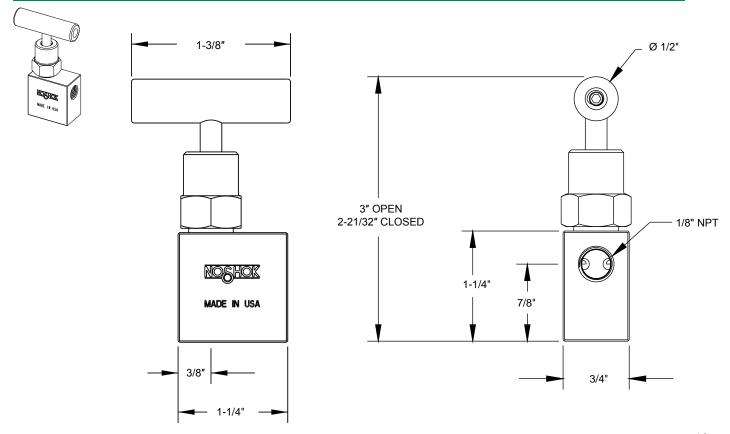
Dimensions







1/8" Female-Female Angle

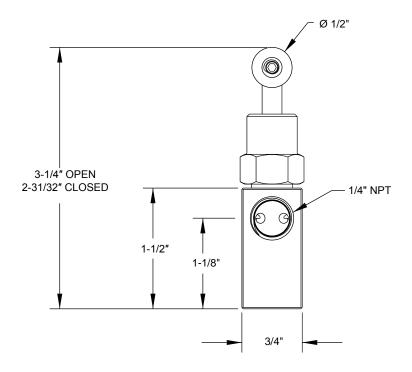


Dimensions

1/4" Female-Female Angle



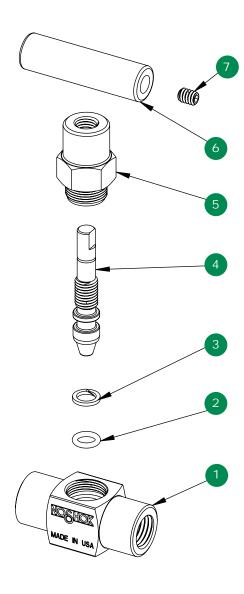


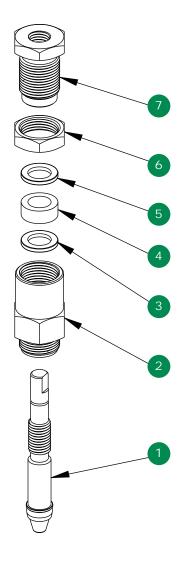


150 SERIES

Mini, Soft Tip

Option With Packing





- 1 Mini valve body
- 2 FKM o-ring 3 PTFE back-up ring 4 Soft tip stem 5 Mini valve bonnet

- 6 Mini valve "T" handle
- 7 Set screw

- 1 Soft tip packing stem
 2 Mini valve packing bonnet
 3 Packing washer
 4 Packing
 5 Packing washer

- 6 Jam nut
- 7 Packing adjustment screw