

# 100 SERIES **mini** VALVES



The **New NOSHOK 100 Series Mini Valve** is a big valve in a little package. Available in electroless nickel plated steel, electropolished stainless steel and brass, the **Mini Valve** was designed with your toughest applications in mind. All are equipped with both a Viton® O-Ring seal and a Teflon® back-up ring below the stem threads to protect the **Mini Valve** from corrosion and galling. The stem threads are rolled for strength and ease of operation, and the metal-to-metal hard seat design is *100% Helium leak tested* to  $1 \times 10^{-4}$  ml/s at 200 psi on each **Mini Valve**.

At a maximum pressure rating of 6000 psi for the Stainless Steel and Steel models and a 3000 psi rating for the Brass models, the **NOSHOK Mini Valve** has much to offer for such a little valve. With a variety of optional handles to choose from and the panel mount option, the **Mini Valve** will fit perfectly into any application.

## Ordering Information

| PART NUMBER | CONNECTION            | MATERIAL        |
|-------------|-----------------------|-----------------|
| 101 MMB     | 1/8 NPT Male-Male     | Brass           |
| 102 MMB     | 1/4 NPT Male-Male     | Brass           |
| 101 MMC     | 1/8 NPT Male-Male     | Steel           |
| 102 MMC     | 1/4 NPT Male-Male     | Steel           |
| 101 MMS     | 1/8 NPT Male-Male     | Stainless Steel |
| 102 MMS     | 1/4 NPT Male-Male     | Stainless Steel |
| 101 MFB     | 1/8 NPT Male-Female   | Brass           |
| 102 MFB     | 1/4 NPT Male-Female   | Brass           |
| 101 MFC     | 1/8 NPT Male-Female   | Steel           |
| 102 MFC     | 1/4 NPT Male-Female   | Steel           |
| 101 MFS     | 1/8 NPT Male-Female   | Stainless Steel |
| 102 MFS     | 1/4 NPT Male-Female   | Stainless Steel |
| 101 FFB     | 1/8 NPT Female-Female | Brass           |
| 102 FFB     | 1/4 NPT Female-Female | Brass           |
| 101 FFC     | 1/8 NPT Female-Female | Steel           |

| PART NUMBER | CONNECTION                  | MATERIAL        |
|-------------|-----------------------------|-----------------|
| 102 FFC     | 1/4 NPT Female-Female       | Steel           |
| 101 FFS     | 1/8 NPT Female-Female       | Stainless Steel |
| 102 FFS     | 1/4 NPT Female-Female       | Stainless Steel |
| 101 MFAB    | 1/8 NPT Male-Female Angle   | Brass           |
| 102 MFAB    | 1/4 NPT Male-Female Angle   | Brass           |
| 101 MFAC    | 1/8 NPT Male-Female Angle   | Steel           |
| 102 MFAC    | 1/4 NPT Male-Female Angle   | Steel           |
| 101 MFAS    | 1/8 NPT Male-Female Angle   | Stainless Steel |
| 102 MFAS    | 1/4 NPT Male-Female Angle   | Stainless Steel |
| 101 FFAB    | 1/8 NPT Female-Female Angle | Brass           |
| 102 FFAB    | 1/4 NPT Female-Female Angle | Brass           |
| 101 FFAC    | 1/8 NPT Female-Female Angle | Steel           |
| 102 FFAC    | 1/4 NPT Female-Female Angle | Steel           |
| 101 FFAS    | 1/8 NPT Female-Female Angle | Stainless Steel |
| 102 FFAS    | 1/4 NPT Female-Female Angle | Stainless Steel |

When ordering options please refer to the Part Number Construction guide below for the appropriate suffix. Please note that the standard O-Ring in all the **NOSHOK Mini Valves** are Viton® and the standard handles are:

**Brass:** Round Knurled (HL3) • **Steel:** Mini “T” (HL1) • **316SS:** Mini “T” (HL1)

The handle material will always match the material of the valve, unless otherwise specified. For example, the round knurled (HL3) on a 102 FFB will be brass. When only the standard configuration is needed, no additional designations are necessary. Please consult the factory for special application requests.

Part Number Construction: **102 FFC - PM2 - EM1 - HL4**

### Panel Mount Options

PM1 - Panel Mount (1 nut)  
PM2 - Panel Mount (2 nuts)

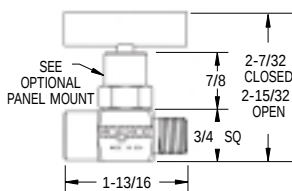
### O-Ring Options

EM1 - EPDM 80  
KZ1 - Kalrez® 3018

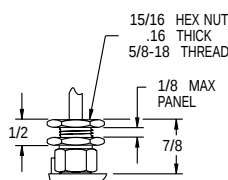
### Handle Options

HL1 - Mini “T”  
HL2 - “T”  
HL3 - Round Knurled  
HL4 - 1-3/8 Phenolic  
HL5 - 1-3/4 Phenolic

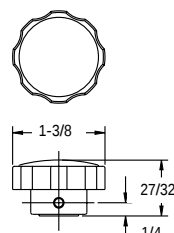
## General Dimensions



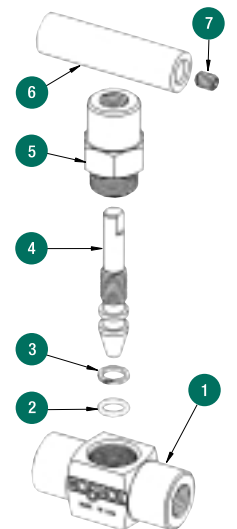
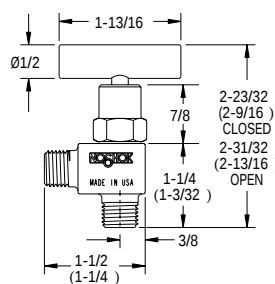
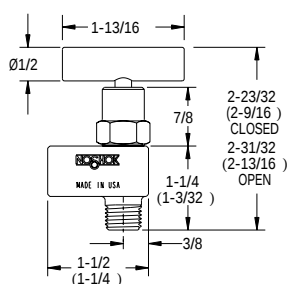
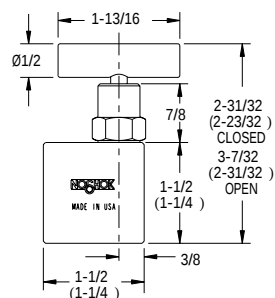
Male-Female w/“T”  
handle option



PANEL MOUNT DETAIL



PHENOLIC HANDLE HL4



- 1 Mini Valve Body
- 2 Viton® O-Ring
- 3 Teflon® Back-up Ring
- 4 Mini Valve Stem
- 5 Mini Valve Bonnet
- 6 Mini Valve “T” Handle
- 7 Set Screw

For flow characteristics refer to page 14

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Teflon® is a registered trademark of the DuPont Company

## Technical Data:

|                                 |                               |         |
|---------------------------------|-------------------------------|---------|
| <b>Maximum Pressure Rating:</b> | <b>Orifice size:</b>          | 0.172"  |
| Steel: 6000 psi                 | <b>Flow Coefficient:</b>      | 0.42    |
| Stainless Steel: 6000 psi       | <b>Standard O-Ring:</b>       | Viton®  |
| Brass: 3000 psi                 | <b>Standard Back-up Ring:</b> | Teflon® |