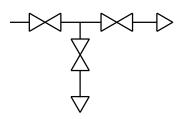
### Double Block & Bleed, Hard Seat



# **3070** SERIES

- Combines isolating and venting in a single valve, eliminating the need for tubing and fittings
- Block valve isolates the downstream process fluids, and the bleed valve exhausts upstream fluids enabling instruments to be removed without disturbing the permanent piping installation on the bottom
- The 1/4" NPT vent plug is located 90° to the left and may be removed and replaced with exhaust piping to direct the fluids to a safe location
- 100% helium leak tested to 1 x 10<sup>-4</sup> ml/s for guaranteed performance and reliability
- 10,000 psi hard seat pressure rating @ 200 °F
- 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 or Grafoil® packing optional
- · All stems are 316 stainless steel
- 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)

Flow	Scham	atic

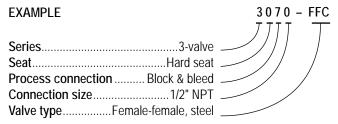


	SPECIFICATIONS
Materials	Zinc-nickel plated steel, electropolished 316 stainless steel
Connection	1/2" & 1/4" NPT Male-female & Female-female configurations available, right venting optional
Pressure rating*	10,000 psi @ 200 °F
Orifice size	0.187"
Flow coefficient	C <sub>V</sub> 0.44
Stem seal & type	All 316 stainless steel stems with FKM o-ring and PTFE back-up ring below the threads, PTFE or Grafoil® packing optional
Length	4" standard and 5-3/8" extended length available
Options	Panel mountings, o-ring materials, handles, packings, regulating stem and stem tips

<sup>\*</sup> If a packing option is chosen, maximum pressure rating is 6,000 psi. Refer to the "Pressure vs. Temperature: Packing Style with Compatible Fluid" chart at the back of this catalog.

			ORDE	ERING INFORMATION		
SERIES	3	3-valve				
SEAT	0	Hard seat				
PROCESS CONNECTION	7	Block & bleed				
CONNECTION SIZES	0	1/2" NPT	2	1/4" NPT		
VALVE TYPES	MFCR EMFC MFS MFSR	Male-Female, Steel Male-Female, Steel, Right Vent Extended Male-Female, Steel Male-Female, Stainless Steel Male-Female, Stainless Steel, Right Vent Extended Male-Female, Stainless Steel	EFMC FMS EFMS	Female-Male, Steel Extended Female-Male, Steel Female-Male, Stainless Steel Extended Female-Male, Stainless Steel Female-Female, Steel	EFFC FFS FFSR	Female-Female, Steel, Right Vent Extended Female-Female, Steel Female-Female, Stainless Steel Female-Female, Stainless Steel, Right Vent Extended Female-Female, Stainless Steel

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



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: 3070-FFC-HL5)

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

ORDERING INFORMATION - Additional Options						
PACKINGS <sup>†</sup>	P1	PTFE	P2	Grafoil®		
STEM TIPS	T1 T5	Non-rotating (316 stainless) Ball (440C stainless)		Ball (carbide) Ball (ceramic)	T8 T9	Ball (Monel) Regulating hard
O-RINGS*	EM1	EPDM	KZ1	FFKM (Kalrez® 3018 or equivalent)	NB1	NBR
HANDLES		1-13/16" Mini "T" 2-1/2" "T"		1" Round knurled 1-3/8" Phenolic	HL5	1-3/4" Phenolic

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

† If a packing option is chosen, maximum pressure rating is 6,000 psi. Refer to the "Pressure vs. Temperature: Packing Style with Compatible Fluid" chart at the back of this catalog.

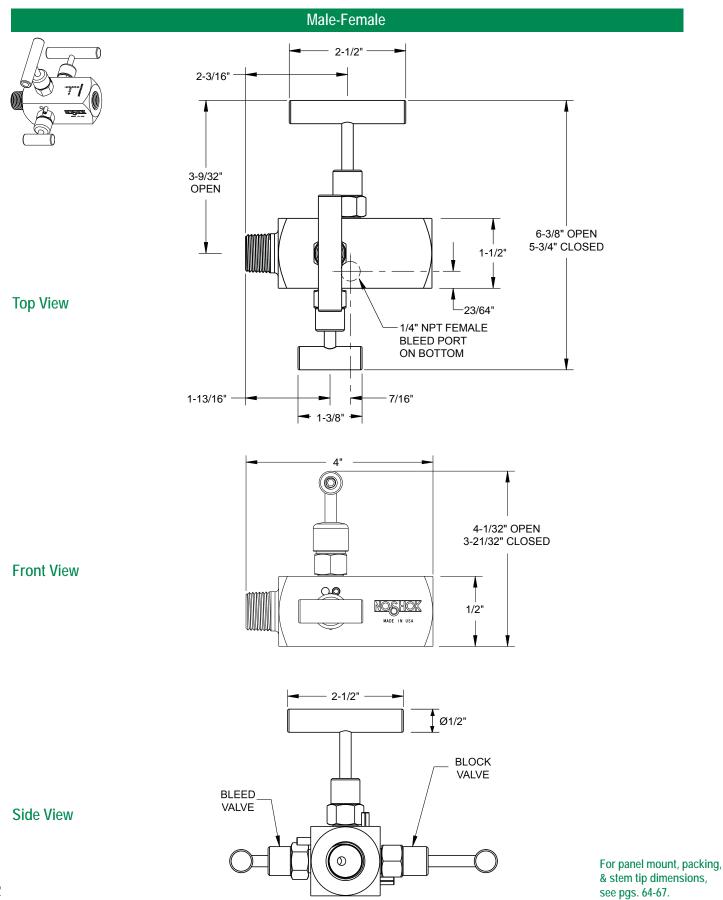
Please note that the standard o-ring in all the NOSHOK valves is FKM and the standard handles are block "T" handles (HL2) and bleed 1-3/8" mini "T" handle (HL7).

The handle material will always match the material of the valve, unless otherwise specified. For example, the "T" handle (HL2) on the 3070-FFC 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	3 0 7 0 - FFC - P1 - T1 - HL3		
Series3-valve			
SeatHard seat			
Process connection Block & bleed			
Connection size1/2" NPT			
Valve typeFemale-female, steel			
PackingPTFE			
Stem tip Non-rotating			
Handle 1" Round knurled			

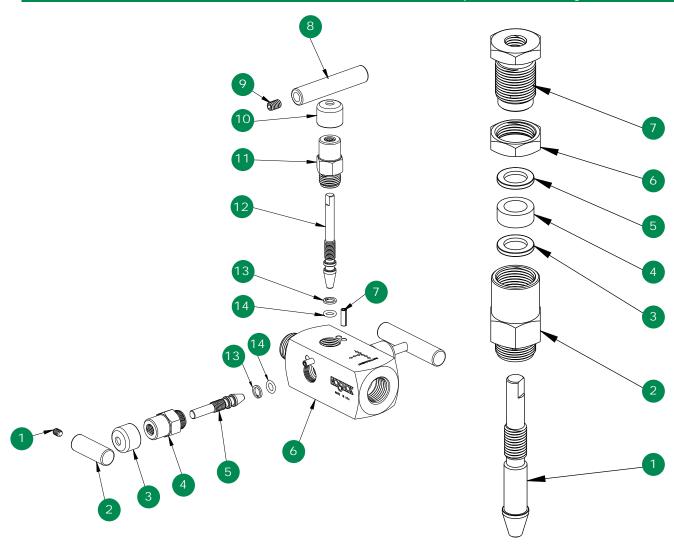
<sup>\*</sup> Other o-ring materials available on request.

## **Dimensions**



### Double Block & Bleed, Hard Seat

#### **Option With Packing**



- 1 Set screw
- 2 Mini valve "T" handle
- 3 Red dust cap
- 4 Mini valve bonnet
- 5 Mini valve stem
- 6 Valve body
- 7 Slotted spring pin8 Valve "T" handle
- 9 Set screw
- 10 Blue dust cap
- 11 Valve bonnet
- 12 Valve stem
- 13 PTFE back-up ring
- 14 FKM o-ring

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