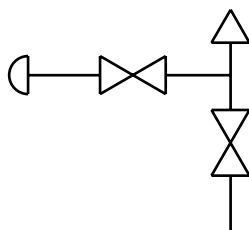


Block & Bleed, Soft Seat

2170 SERIES



Flow Schematic



- 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
- 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 1×10^{-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)

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	6,000 psi @ 200 °F
Orifice size	0.187"
Flow coefficient	C _v 0.76
Stem seal & type	All 316 Stainless Steel stems with FKM o-ring and PTFE back-up ring below the threads, PTFE 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
Weight	Approximately 2.0 lb., extended model 2.7 lb.

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

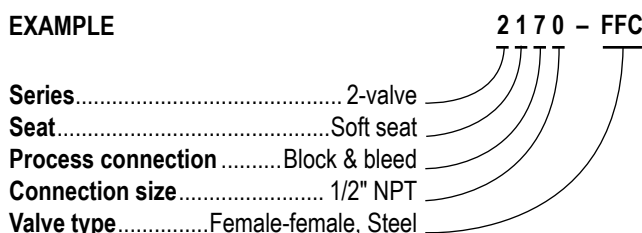
WARNING: This product can expose you to chemicals including Lead and Nickel, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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.

ORDERING INFORMATION				
SERIES	2	2-valve		
SEAT	1	Soft seat		
PROCESS TYPE	7	Block & bleed		
CONNECTION SIZES	0	1/2" NPT	2	1/4" NPT
VALVE TYPES	MFC	Male-Female, Steel	EMFS	Extended Male-Female, Stainless Steel
	MFCR	Male-Female, Steel, Right Vent	FMC	Female-Male, Steel
	EMFC	Extended Male-Female, Steel	EFMC	Extended Female-Male, Steel
	MFS	Male-Female, Stainless Steel	FMS	Female-Male, Stainless Steel
	MMS	Male-Male, Stainless Steel	EFMS	Extended Female-Male, Stainless Steel
	MFSR	Male-Female, Stainless Steel, Right Vent	FFC	Female-Female, Steel
			FFCR	Female-Female, Steel, Right Vent
			EFFC	Extended Female-Female, Steel
			FFS	Female-Female, Stainless Steel
			FFSR	Female-Female, Stainless Steel, Right Vent
			EFFS	Extended Female-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: 2170-FFC-PK1)

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

ORDERING INFORMATION - ADDITIONAL OPTIONS				
SOFT SEATS	PK1	PEEK	KF1	PCTFE
PACKING	P1	PTFE		
STEM TIP	T1	Non-rotating (316 Stainless, Isolation Valve Only)		
O-RINGS*	EM1	EPDM	KZ1	FFKM (Perfluoroelastomer)
			NB1	NBR
HANDLES	HL1	1-13/16" Mini "T"	HL3	1" Round knurled
	HL2	2-1/2" "T"	HL4	1-3/8" Phenolic
			HL5	1-3/4" Phenolic

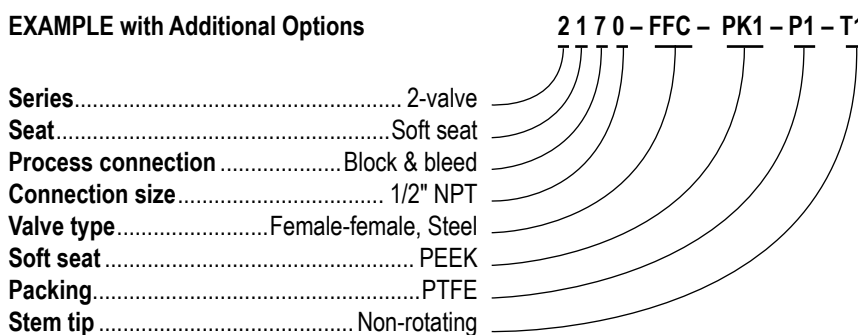
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

* Other o-ring materials available on request.

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).

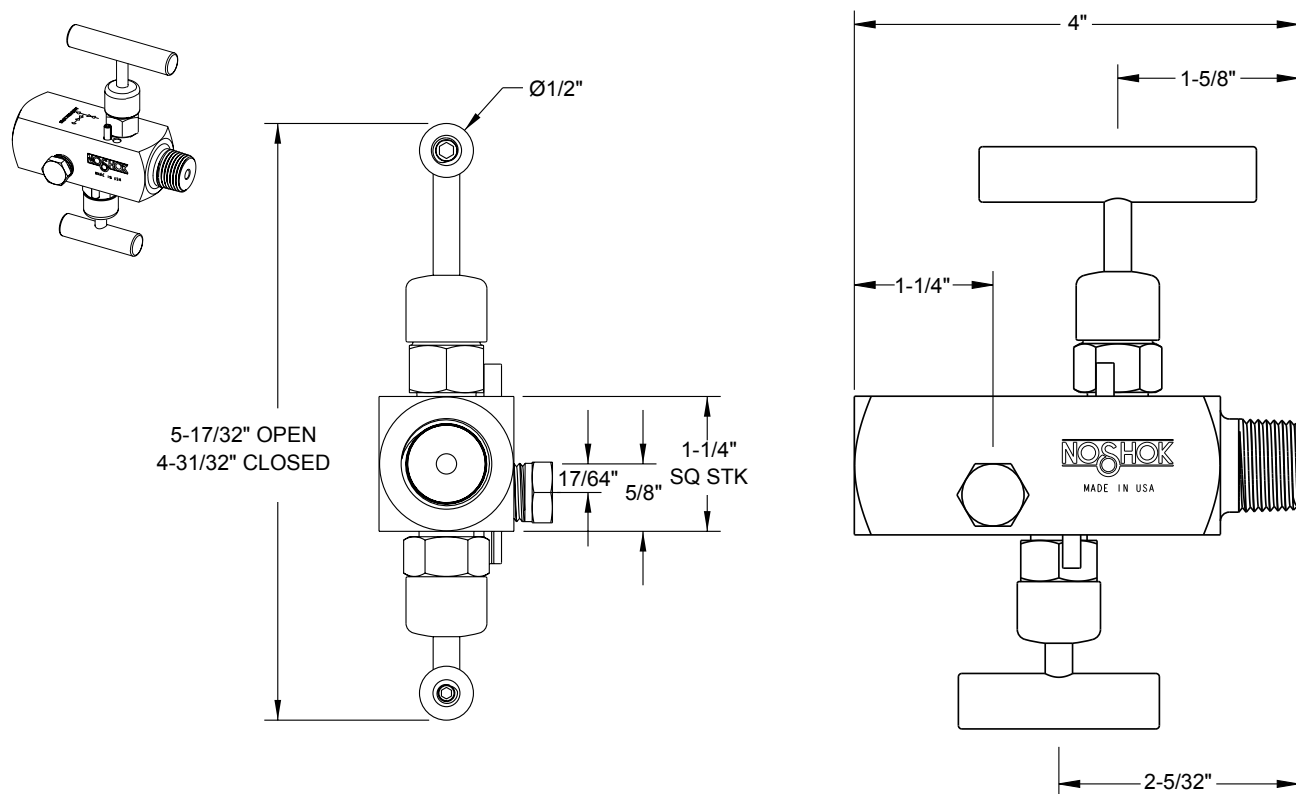
The handle material will always match the material of the valve, unless otherwise specified. For example, the "T" handle (HL2) on the 2170-FFC will be Steel. When only the standard configuration is needed, no additional designations are necessary. Please consult the factory for special application requests.

EXAMPLE with Additional Options

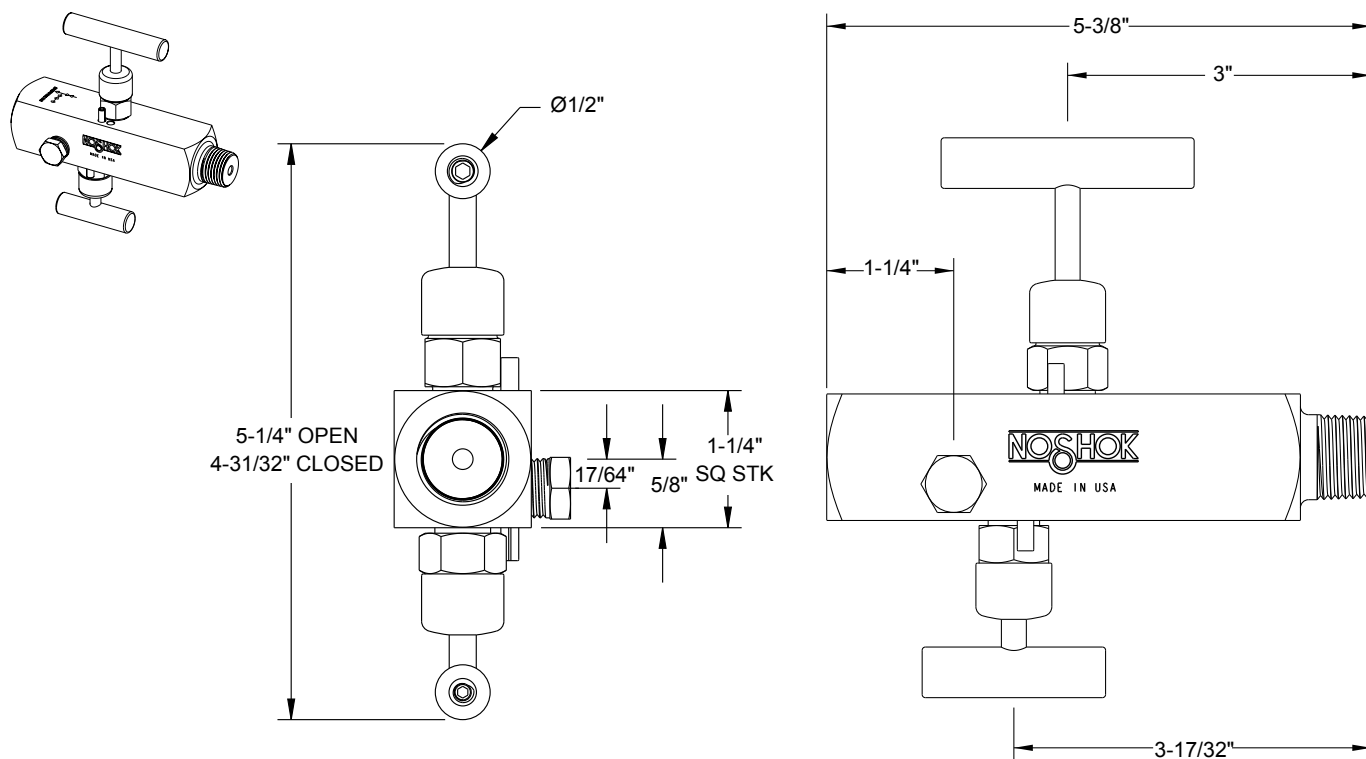


Dimensions

Male-Female



Extended Male-Female



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

Block & Bleed, Soft Seat

Option With Packing

