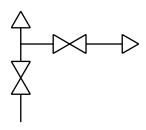
Block & Bleed, Hard Seat & Soft Seat



Note: Packing option shown.

Flow Schematic



2000/2100 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 static pressure transmitters, switches or gauges to be removed without disturbing the permanent piping installation
- Block valve is located on the left side and the bleed valve is located on top in a 90° orientation, venting is to the right
- 100% helium leak tested to 1 x 10⁻⁴ ml/s for performance and reliability
- · 2100 Series valve also features a replaceable Acetal seat, and straight through porting for bidirectional, high capacity flow and easy roddable cleaning
- 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 Graphite packing optional
- Stem and bonnet 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
- Color coded vinyl dust caps for bonnets and stems (non-packing)
- Zinc-Nickel plated high tensile strength 4140 Steel mounting bolts included for flanged connections

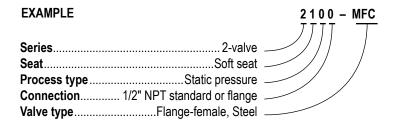
	SPECIFICATIONS		
Materials	Zinc-Nickel plated Steel, electropolished 316 Stainless Steel*		
Connection Flange-flange, NPT-N	1/2" NPT, 1/4" NPT, NPT-flange, IPT configurations available		
Pressure ratings**	Hard seat: 10,000 psi @ 200 °F Soft seat: 6,000 psi @ 200 °F		
Orifice size	0.187"		
Flow coefficient	Hard seat: C _V 0.44 Soft seat: 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 or Graphite packing optional		
Options	Panel mountings, o-ring materials, handles, packings, regulating stem and stem tips		
Weight	Approximately 2.2 lb.		

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

^{**} 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.

SERIES	2 2-valve		
SEATS	0 Hard seat	1 Soft seat	
PROCESS TYPE	Static pressure		
CONNECTIONS	0 1/2" NPT standard or flange	2 1/4" NPT	
VALVE TYPES	MFC Flange-Female, Steel	MFS Flange-Female, Stainless Steel	MMC Flange-Flange, Steel
	FFC Female-Female, Steel	FFS Female-Female, Stainless Steel	MMS Flange-Flange, 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 manifold 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: 2100-MFC-P1)

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

NOTE 3: T1 Hard non-rotating (316 SS standard) stem tip is the only option available on the 2100 Series soft seat version.

ORDERING INFORMATION - ADDITIONAL OPTIONS						
SOFT SEATS	PK1	PEEK	KF1	PCTFE		
PACKINGS [†]	P1	PTFE	P2	Graphite**		
STEM TIPS	T1	Non-rotating (316 Stainless)	T6	Ball (carbide)**	T8	Ball (Monel)**
	T5	Ball (440C Stainless)**	T7	Ball (ceramic)**	T9	Non-rotating regulating (316 Stainless)**
O-RINGS*	EM1	EPDM	KZ1	FFKM (Perfluoroelastomer)	NB1	NBR
HANDLES	HL1	1-13/16" Mini "T"	HL4	1-3/8" Phenolic		
	HL3	1" Round knurled	HL5	1-3/4" Phenolic		

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

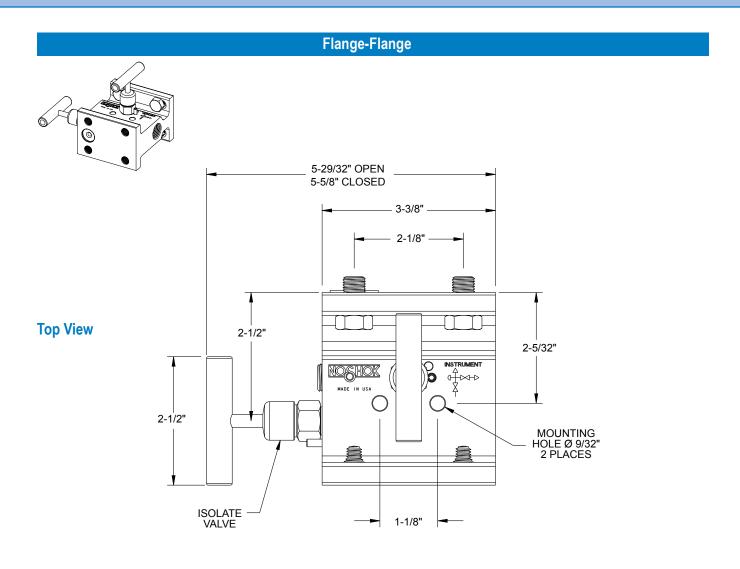
- † If a packing option is chosen, maximum pressure rating is 6,000 psi. Refer to the "Pressure vs. Temperature: Packing Style with Compatible Fluid" chart at the back of this catalog.
- * Other o-ring materials available on request.
- ** For 2000 Series only.

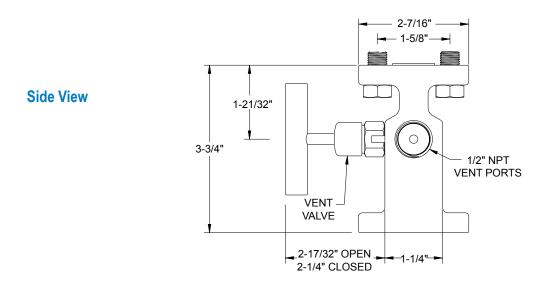
Please note that the standard o-ring in all the NOSHOK valves is FKM and the standard handles are block "T" handles (HL2) and bleed 1-3/8" mini "T" handle (HL7).

The handle material will always match the material of the valve, unless otherwise specified. For example, the "T" handle (HL2) on the 2100-MFC will be Steel. When only the standard configuration is needed, no additional designations are necessary. Please consult the factory for special application requests.

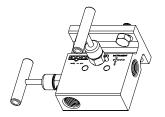
EXAMPLE with Ac	ditional Options	2 1 0 0 - MFC - PK1 - P1		
		JIII T T T		
Series	2-valve	─ //// / / /		
Seat	Soft seat			
Process type	Static pressure			
Connection	1/2" NPT standard or flange	_////		
Valve type	Flange-female, Steel	_///		
Soft seat	PEEK			
Packing	PTFE			

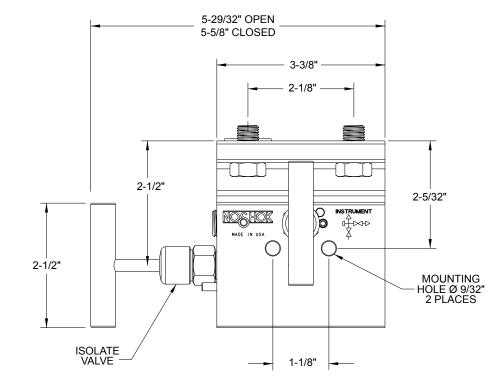
Dimensions





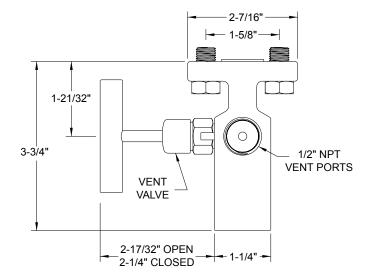
Flange-Female





Side View

Top View



Dimensions

Female-Female QQ Ø 9/32" INSTRUMENT NOSHOK MADE IN USA 3/4" **Top View --** 1-3/8"*-*-2-3/4" 2-1/2" 3-25/32" OPEN 3-1/2" CLOSED 1/2" NPT PROCESS **Front View** 5/8" 2-1/8" -5-9/32" OPEN 5" CLOSED Ø 1/2" 5/8" **Side View** 1-1/4" 1/2" NPT VENT For panel mount or

1-7/8"

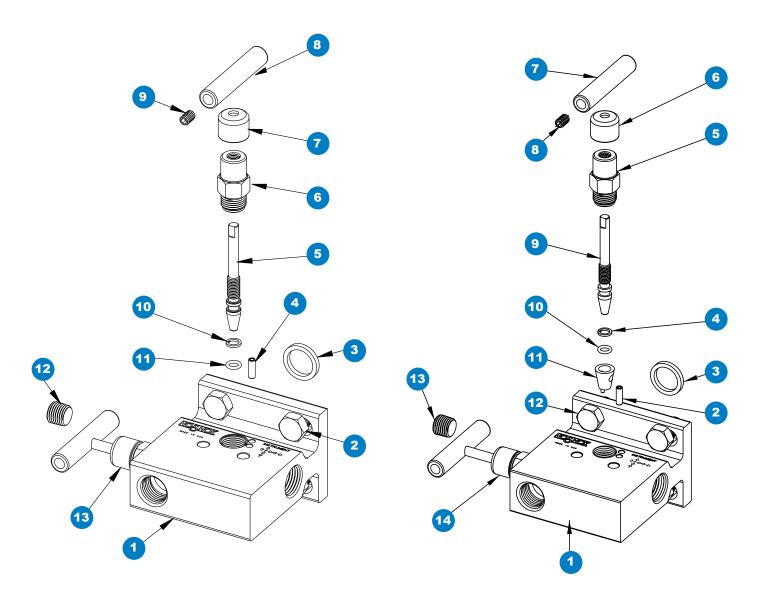
– 2-1/2" —

packing dimensions,

see pg. 66.

2000/2100 SERIES

Hard Seat Soft Seat



- 1 Valve body
- 2 Head bolt
- 3 Gasket ring
- 4 Slotted spring pin
- 5 Valve stem
- 6 Valve bonnet
- 7 Red dust cap
- 8 Valve "T" handle
- 9 Set screw
- 10 PTFE back-up ring
- 11 FKM o-ring
- 12 Plug
- 13 Blue dust cap

- 1 Valve body
- 2 Slotted spring pin
- 3 Gasket ring
- 4 PTFE back-up ring
- 5 Valve bonnet
- 6 Red dust cap
- 7 Valve"T" handle
- 8 Set screw
- 9 Valve stem
- 10 FKM o-ring11 Acetal seat
- 12 Head bolt
- 13 Plug
- 14 Blue dust cap