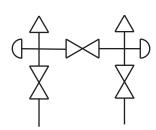
3010/3110 SERIES



- · Available in block, single flange, or double flange connection for remote or direct installation
- Designed for use with differential pressure transmitters incorporating two isolation valves and an equalizing valve in differential pressure
- 3110 Series soft seat valves also feature a replaceable Acetal seat, and straight through porting for bidirectional, high capacity flow and easy
- 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
- · 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
- Color coded vinyl dust caps for bonnets and stems (non-packing)

Flow Schematic



	SPECIFICATIONS
Materials	Zinc-Nickel plated Steel, electropolished 316 Stainless Steel*
Connection	Flange-flange, 1/2" NPT-flange, 1/2" NPT-1/2" NPT
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 4.0 lb. without flange, Approximately 5.0 lb. with flange

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

For NOSHOK Valves with Steel valve types:



WARNING: This product can expose you to chemicals including Lead, which is 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

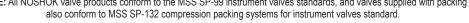
For NOSHOK Valves with Stainless Steel valve types:



WARNING: This product can expose you to chemicals including Chromium (VI) 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





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.

3010/3110 SERIES ORDERING INFORMATION

SERIES	3 3	3-valve				
SEATS	0 H	Hard seat	1	Soft seat		
PROCESS TYPE	1 [Differential pressure				
CONNECTION	0 1	1/2" NPT standard or flange				
VALVE TYPES	MFC F	Flange-Female, Steel	MFS	Flange-Female, Stainless Steel	MMC	Flange-Flange, Steel
	FFC F	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.

EXAMPLE		3110 - MFC
		JIII T
Series	3-valve	-/ ///
Seat	Soft seat	/////
Process type	Differential pressure	////
Connection	1/2" NPT standard or flange	///
Valve type	Flange-female, Steel	

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: 3110-MFC-P1)
- NOTE 2: When a packing option is selected, an o-ring option is NOT available.
- NOTE 3: The standard o-ring in all the NOSHOK manifold valves is FKM and T1 hard non-rotating (316SS standard) stem tip is the only option available on the 3110 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)**	Т9	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 3010 only.

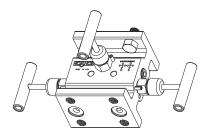
Please note that the standard o-ring in all the NOSHOK valves is FKM and the standard handles are "T" handles (HL2).

The handle material will always match the material of the valve, unless otherwise specified. For example, the "T" handle (HL2) on the 3110-MFC will be Steel. When only the standard configuration is needed, no additional designations are necessary. Please consult the factory for special application requests.

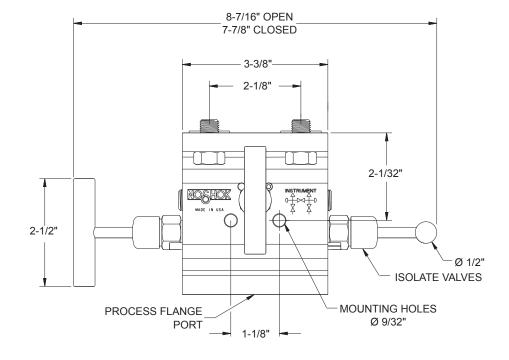
EXAMPLE with Additional Options	3 1 1 0 - MEC - PK1 - P1 -	Τ1
Series	3-valve	
Seat	Soft seat	/
Process type	Differential pressure	
Connection 1/2"	NPT standard or flange	
Valve type	Flange-female, Steel	
Soft seat	PEEK	
Packing	PTFE	
Stem tip	Non-rotating	

Dimensions

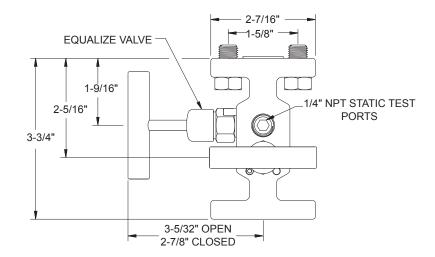
Flange-Flange



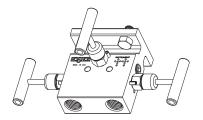
Top View



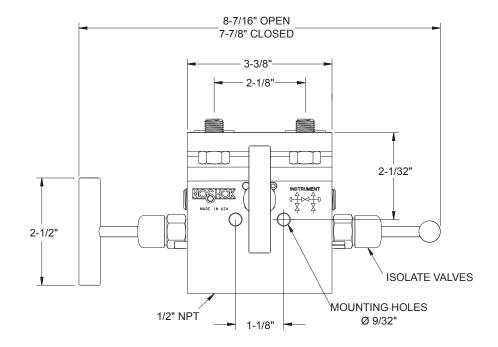
Side View



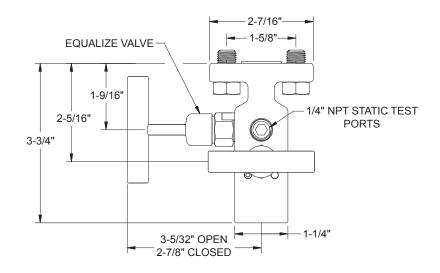
Flange-Female



Top View

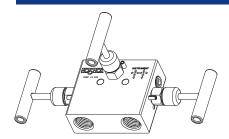


Side View

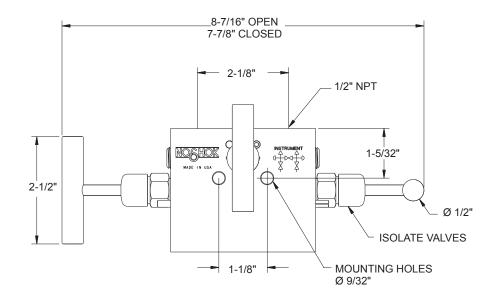


Dimensions

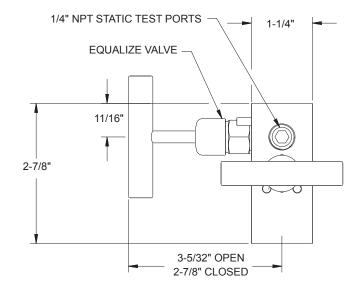
Female-Female



Top View

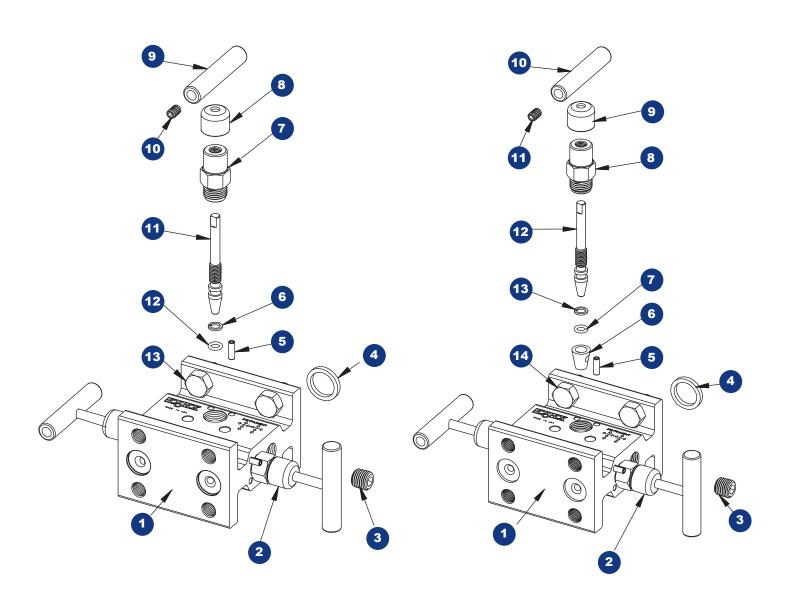


Side View



12 1 561 8187 For panel mount or packing dimensions,

Hard Seat Soft Seat



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

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