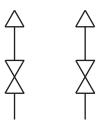
Manifold Valves, 2-Valve Liquid Level Hard & Soft Seat



2020/2120 SERIES

- Designed for use with differential pressure transmitters in liquid level applications
- Available in either single flange or double flange connection for direct installation
- 100% helium leak tested to 1 x 10⁻⁴ ml/s for performance and reliability
- 2120 Series valves also feature 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
- 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*			
Connections	Flange-flange, 1/2" NPT-flange			
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 5.5 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.

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

2020/2120 SERIES ORDERING INFORMATION ORDERING

SERIES	2	2-valve		
SEATS	0	Hard seat	1	Soft seat
PROCESS TYPE	2	Liquid level		
CONNECTIONS	0	1/2" NPT standard or flange		
VALVE TYPES	MFC	Flange-Female, Steel	MFS	Flange-Female, Stainless Steel
	MMC	Flange-Flange, Steel	MMS	Flange-Flange, Stainless Steel

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

EXAMPLE

EXAMPLE	2 0 2 0 – MFC
Series	2-valve/ / / /
Seat	Hard seat
	Liquid level
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: 2020-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) stem tip is the only option available on the 2120 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)**	Т8	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 2020 Series only.

*** For 2120 Series 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 2020-MFC will be Steel. When only the standard configuration is needed, no additional designations are necessary. Please consult the factory for special application requests.

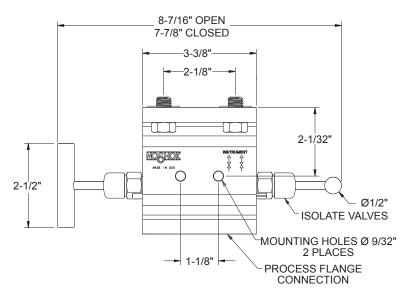
EXAMPLE with Additional Options

Series	
Seat	Hard seat
Process type	Liquid level
Connection	
Valve type	Flange-female, Steel
Packing	PTFE
Stem tip	Non-rotating

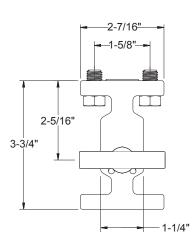
2020-MFC-P1-T1

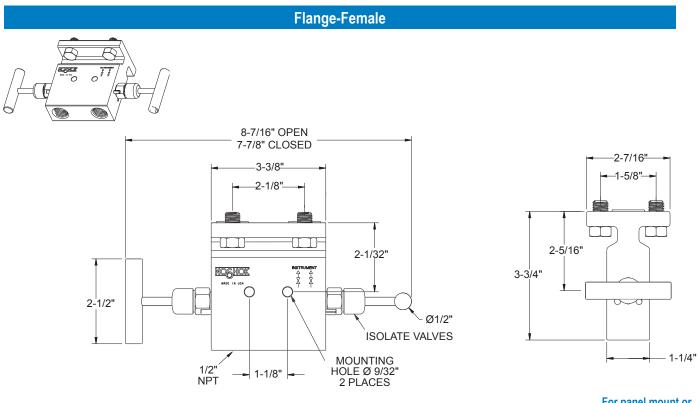
Manifold Valves, 2-Valve Liquid Level Dimensions





Flange-Flange



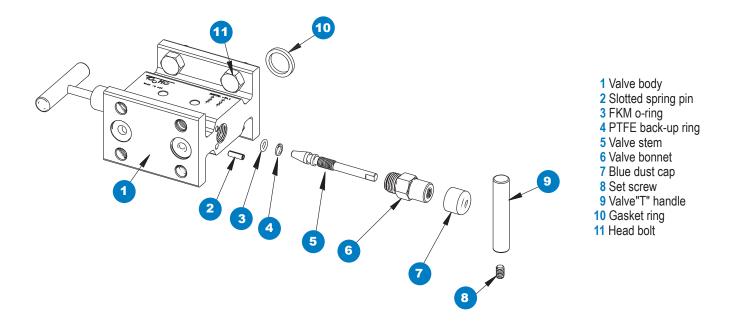


For panel mount or packing dimensions, see pg. 66.



DIMENSIONS

Hard Seat



Soft Seat

