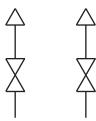
Manifold Valves, 2-Valve Liquid Level Hard & Soft Seat



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 guaranteed performance and reliability
- 2020 Series hard seat valves have 10,000 psi pressure rating @ 200 °F
- 2120 Series soft seat valves have 6,000 psi pressure rating @ 200 °F
- 2120 Series valves also feature a replaceable Delrin[®] 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 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 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 Grafoil® packing optional			
Options	Panel mountings, o-ring materials, handles, packings, regulating stem and stem tips			
Weight	Approximately 5.5 lb.			

* 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.

2020/2120 SERIES ORDERING INFORMATION

ORDERING INFORMATION					
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.

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EXAMPLE	2 0 2 0 – MFC
Series2-valve	
Seat Hard seat	
Process typeLiquid 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	Grafoil®**			
STEM TIPS	T1	Non-rotating (316 stainless)	T6	Ball (carbide)**	T8	Ball (Monel)**	
	T5	Ball (440C stainless)**	T7	Ball (ceramic)**	Т9	Regulating hard**	
O-RINGS*	EM1	EPDM	KZ1	FFKM (Kalrez® 3018 or equivalent)	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.

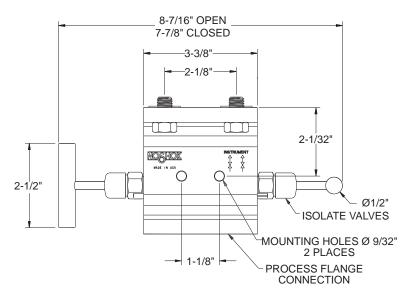
EXAMPLE with Additional Options

Hard seat _
Liquid level _
1/2" NPT standard or flange _
Flange-female, steel
PTFE _
Non-rotating _

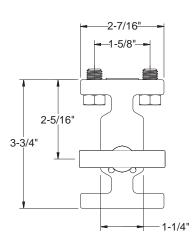
2020 - MFC - P1 - T1

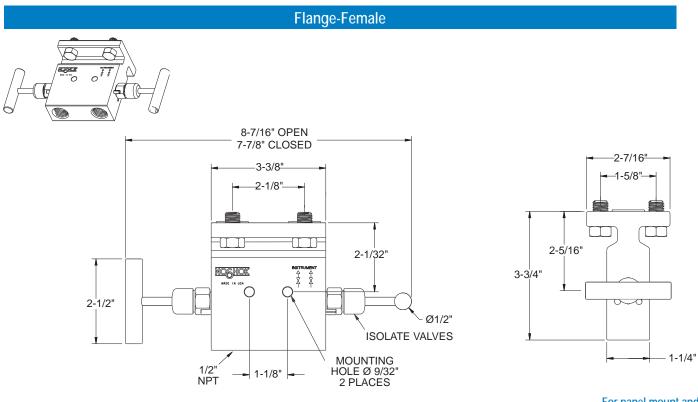
Manifold Valves, 2-Valve Liquid Level Dimensions





Flange-Flange



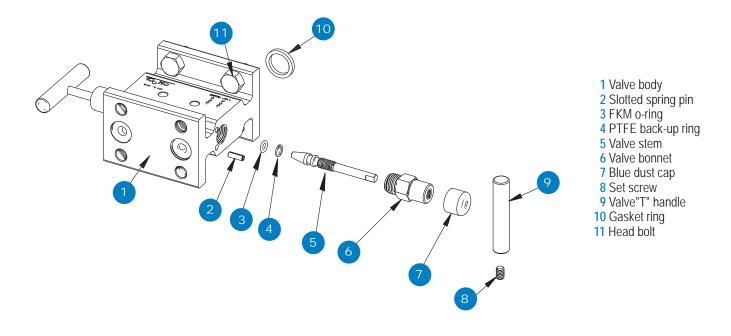


For panel mount and packing dimensions, see pgs. 64-65.

2020/2120 SERIES

DIMENSIONS

Hard Seat



Soft Seat

