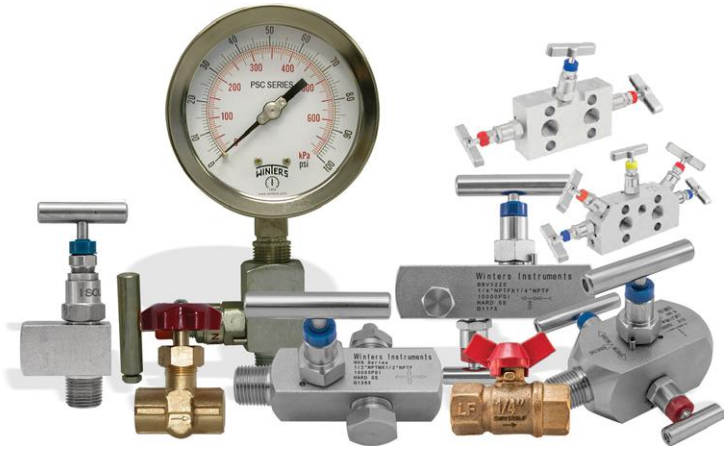
WINTERS Instruments

Excellence Since 1953



Instrument Valves & Manifolds

WINTERS INSTRUMENTS
MANUFACTURER OF INDUSTRIAL INSTRUMENTATION

www.winters.com

More Than Just Pressure Gauges and Thermometers

Winters valves allow for the isolation of process instrumentation facilitating quick replacement without shutting down the process. These valves are available in carbon steel or stainless steel (NACE or non-NACE) for high pressure applications (up to 10,000 psi), brass or lead free brass for low pressure (up to 400 psi) applications.



NVA Needle Valve (Straight Body, Hard Seat)

The one-piece body construction provides strength and safety while the slow opening handle prevents sudden pressure surge. The hard seat provides durability against high flow/velocity and corrosive media.

Body	Carbon steel, carbon steel NACE tip, stainless steel or stainless steel NACE
Connections	1/4", 3/8", 1/2", 3/4" or 1" NPTM x NPTF or NPTF x NPTF
Pressure	6,000 psi (41,368 kPa) or 10,000 psi (68,947 kPa)
Needle/Needle Tip	Stainless steel or stainless steel NACE
Gland Packing	PTFE/Graphite (Graphite used for high temperature applications)
Approvals	CRN registered, burst pressure safety tested at 4 times valve rating



NVA Needle Valve (Angle Body, Hard Seat)

The one-piece body construction provides strength and safety while the slow opening handle prevents sudden pressure surge. The hard seat provides durability against high flow/velocity and corrosive media.

Body	Stainless steel or stainless steel NACE
Connections	1/4", 3/8", 1/2", 3/4" or 1" NPTM x NPTF or NPTF x NPTF
Pressure	6,000 psi (41,368 kPa) or 10,000 psi (68,947 kPa)
Needle/Needle Tip	Stainless steel or stainless steel NACE
Gland Packing	PTFE/Graphite (Graphite used for high temperature applications)
Approvals	CRN registered, burst pressure safety tested at 4 times valve rating



NVA Needle Valve (Straight Body, Soft Seat)

The one-piece body construction provides strength and safety while the slow opening handle prevents sudden pressure surge. The soft seat provides a tight seal against non-corrosive media.

Body	Carbon steel or stainless steel
Connections	1/4", 3/8", 1/2", 3/4" or 1" NPTM x NPTF or NPTF x NPTF
Pressure	6,000 psi (41,368 kPa)
Needle/Needle Tip	Stainless steel
Stem O-ring	FKM
Approvals	CRN registered, burst pressure safety tested at 4 times valve rating



NVA Needle Valve (Multiport)

The multiport design allows for up to 3 instrument connections, reducing the number of connections to permanent piping installations, decreasing possible leak paths. ***Bleed screw and plugs not included.***

Body	Carbon steel, stainless steel or stainless steel NACE
Connections	1/2" or 3/4" NPTM x NPTF
Pressure	6,000 psi (41,368 kPa) (soft seat) or 10,000 psi (68,947 kPa) (hard seat)
Needle/Needle Tip	Stainless steel or stainless steel NACE
Stem O-ring	FKM
Approvals	CRN registered, burst pressure safety tested at 4 times valve rating



BBV Block & Bleed Valve Single Handle

The block & bleed design allows media to be bled off without disturbing the permanent piping installation, allowing safe and easy removal or replacement of instruments.

Body	Carbon steel or stainless steel
Connections	1/4” or 1/2” NPTM x NPTF or NPTF x NPTF
Pressure	6,000 psi (41,368 kPa) (soft seat) or 10,000 psi (68,947 kPa) (hard seat)
Needle/Needle Tip	Stainless steel
Stem O-ring	FKM
Approvals	CRN registered, burst pressure safety tested at 4 times valve rating



BBV Block & Bleed Valve Two Handles

The two handle block & bleed valve allows controlled media bleed off without disturbing the permanent piping installation, allowing safe and easy removal or replacement of instruments.

Body	Carbon steel, stainless steel or stainless steel NACE
Connections	1/4”, 1/2” or 3/4” NPTM x NPTF or NPTF x NPTF
Pressure	6,000 psi (41,368 kPa) (soft seat) or 10,000 psi (68,947 kPa) (hard seat)
Needle/Needle Tip	Stainless steel or stainless steel NACE
Stem O-rings	FKM
Approvals	CRN registered, burst pressure safety tested at 4 times valve rating

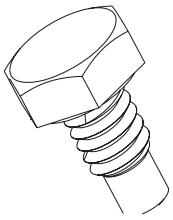


BBV Double Block & Bleed Valve

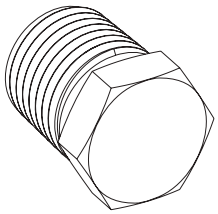
The Double Block & Bleed Valve offers redundant closure for critical applications and controlled media bleed off, enabling instruments to be removed without disturbing the permanent piping installation.

Body	Stainless steel or stainless steel NACE
Connections	1/4”, 1/2” or 3/4” NPTM x NPTF or NPTF x NPTF
Pressure	10,000 psi (68,947 kPa)
Needle/Needle Tip	Stainless steel or stainless steel NACE
Stem O-rings	FKM
Approvals	CRN registered, burst pressure safety tested at 4 times valve rating

Instrument Valve Options



M10 bleed screw



¼” NPT bleed screw

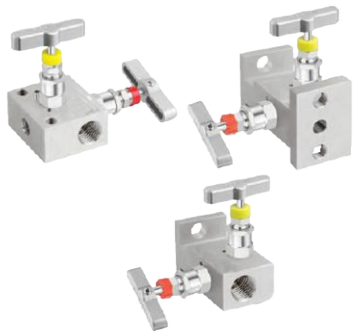


½” NPT plug with bleed screw



½” NPT plug

Instrument Manifolds



MVA 2 - Handle Manifolds

Ideally used with all pressure instruments for safe isolation and removal of instruments. 2-handle control for isolation and venting.

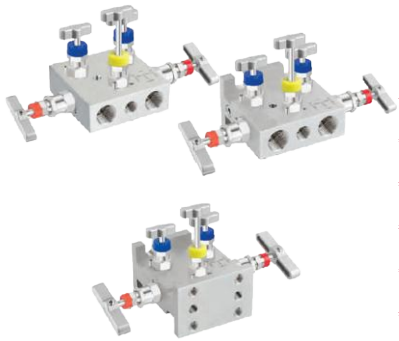
NPT Connection	1/2” NPT F x 1/2” NPT F; 1/2” NPT F x Flange & Flange x Flange
Handles	2 - Handle, Straight
Material	316 SS (standard), 316 SS NACE & Monel (optional)
Seat	Hard Seat or Soft Seat
Packing Material	PTFE (standard) or Graphoil (optional)
Max Pressure	6,000 psi or 10,000 psi



MVA 3 - Handle Manifolds

Designed for use with differential pressure transmitters and impulse lines. Available in flange and pipe connections. With isolation, venting and equalizing.

NPT Connection	1/2” NPT F x 1/2” NPT F; 1/2” NPT F x Flange & Flange x Flange
Handles	3 - Handle, Straight
Material	316 SS (standard), 316 SS NACE & Monel (optional)
Seat	Hard Seat or Soft Seat
Packing Material	PTFE (standard) or Graphoil (optional)
Max Pressure	6,000 psi or 10,000 psi



MVA 5 - Handle Manifolds

To be used with differential pressure transmitters and impulse lines. Available in flange and pipe connections. With 2 x isolation, 2 x venting and equalizing.

NPT Connection	1/2” NPT F x 1/2” NPT F; 1/2” NPT F x Flange & Flange x Flange
Handles	5 - Handle, Straight
Material	316 SS (standard), 316 SS NACE & Monel (optional)
Seat	Hard Seat or Soft Seat
Packing Material	PTFE (standard) or Graphoil (optional)
Max Pressure	6,000 psi or 10,000 psi

MVA 3 - Handle Straight Direct Mount Manifolds

Designed for use with differential pressure transmitters and impulse lines. For direct mounting with instrument. With isolation, venting and equalizing.



NPT Connection	1/2” Female x 1/2” Female NPT
Handles	Straight
Material	316 SS (standard), 316 SS NACE & Monel (optional)
Seat	Hard Seat or Soft Seat
Packing Material	PTFE (standard) or Graphoil (optional)
Max Pressure	6,000 psi or 10,000 psi

MVA 3 - Handle Angled Direct Mount Manifolds

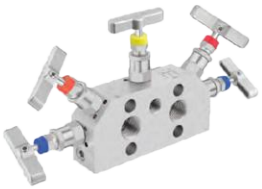
Ideally designed for use with WinSMART™ LY36 Series differential pressure transmitters. For direct mounting with instrument, with angle design to avoid obstruction. With isolation, venting and equalizing.



NPT Connection	1/2” Female x 1/2” Female NPT
Handles	Angled
Material	316 SS (standard), 316 SS NACE & Monel (optional)
Seat	Hard Seat or Soft Seat
Packing Material	PTFE (standard) or Graphoil (optional)
Max Pressure	6,000 psi or 10,000 psi

MVA 5 - Handle Straight Direct Mount Manifolds

Designed for use with differential pressure transmitters and impulse lines. For direct mounting with instrument. With 2 x isolation, 2 x venting and equalizing.



NPT Connection	1/2” Female x 1/2” Female NPT
Handles	Straight
Material	316 SS (standard), 316 SS NACE & Monel (optional)
Seat	Hard Seat or Soft Seat
Packing Material	PTFE (standard) or Graphoil (optional)
Max Pressure	6,000 psi or 10,000 psi

MVA 5 - Handle Angled Direct Mount Manifolds

Ideally designed for use with WinSMART™ LY36 Series differential pressure transmitters. For direct mounting with instrument, with angle design to avoid obstruction. With 2 x isolation, 2x venting and equalizing.



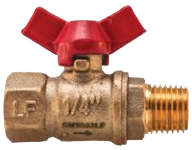
NPT Connection	1/2” Female x 1/2” Female NPT
Handles	Angled
Material	316 SS (standard), 316 SS NACE & Monel (optional)
Seat	Hard Seat or Soft Seat
Packing Material	PTFE (standard) or Graphoil (optional)
Max Pressure	6,000 psi or 10,000 psi

WINTERS Instruments
Excellence Since 1953

Instrument Valves + Other Accessories

SMV/SMV-LF Mini Ball Valve*/Lead Free Mini Ball Valve*

An economical isolation ball valve for pressure gauges and transmitters. The ball valves provide flow control for any non-corrosive applications. A lead free version is available for use on potable water.



Body	#59-1 forged brass or lead free forged brass
Connections	1/4” NPTM x NPTF or NPTF x NPTF
Pressure	400 psi (2,758 kPa)
Gaskets	PTFE
Ball	Stainless steel
Approvals	CRN registered, burst pressure safety tested at 4 times valve rating

SNV/SNV-LF Needle Valve*/Lead Free Needle Valve*

An economical isolation needle valve for pressure gauges and transmitters. Provides precision flow control for any non-corrosive applications. A lead free version is available for use on potable water.



Body	#59-1 forged brass or lead free forged brass
Connections	1/4” NPTF x NPTF
Pressure	400 psi (2,758 kPa)
O-ring	Rubber
Shaft	#59-1 brass or lead free brass
Approvals	CRN registered, burst pressure safety tested at 4 times valve rating

SSN & SSN-LF Snubber*

Snubbers lessen the damaging effects of pulsation.



Body	Brass or stainless steel
Connections	1/4” or 1/2” NPTM x NPTF
Operating Pressure	SS: 20,000 psi (137,900 kPa) Brass: 10,000 psi (68,950 kPa)
Operating Temperature	Brass: -65^0/650^{0}F (-53^0/343^{0}C) SS: -320^0/1500^{0}F (-195^0/815^{0}C)
Snubbing Element	Sintered, porous type 316SS
Approvals	CRN registered, burst pressure safety tested at 4 times rating

SSP Syphon

Syphons are installed to protect pressure instruments from steam and high temperature.



Material	Schedule 40 seamless: Carbon Steel Coil, Brass, 304 SS, 316 SS Schedule 80: Carbon Steel Coil, 304 SS, 316 SS
Style	180° coil
Connection	1/4” NPT male x 1/4” NPT male 1/2” NPT male x 1/2” NPT male
Max. Operating Pressure	Schedule 40 seamless: Brass, carbon steel, 304 SS, 316 SS suitable up to 500 psi at 680°F (360°C) Schedule 80 seamless: Carbon steel, 304 SS, 316 SS suitable up to 1,650 psi at 630°F (332°C)

STP & STP-LF Test Plug*

Test Plugs provide quick and easy pressure and temperature readings.



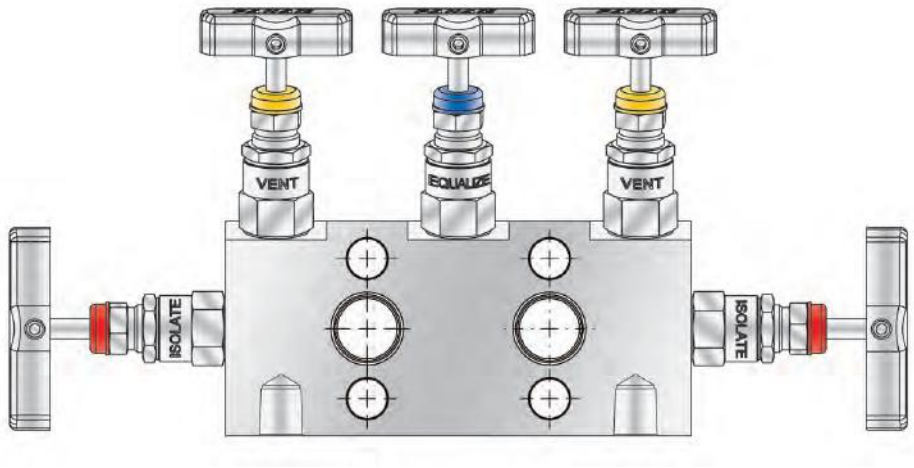
Material/Body	STP: Brass STP-LF: Lead free brass
Diaphragm/Core	NBR (Buna N)
Temperature Rating	-40°F to 302°F (-40°C to 150°C)
Max. Pressure Rating	1,000 psi (6,895 kPa)
Connection	1/4” NPT or 1/2” NPT

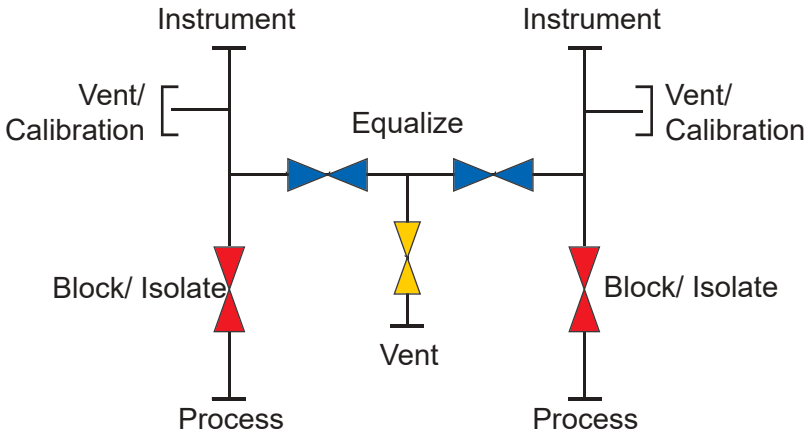
* **WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

MVA Series

Winters offers a large variety of MVA manifolds from different materials like Stainless Steel, Stainless Steel NACE, Monel and many others, let us know your requirements.

As well, we offer a variety of instrument and process connections including NPT, ISO Tapered (BSPT), ISO Parallel (BSPP), Metric Threads, Tube Fittings and Flanged Connections (MSS-SP-99).
Each MVA is 100% factory tested, complies with NACE MR0175 / ISO 15156 with Heat Code Traceability. MVA's are rated for a maximum working pressure up to 10,000 psi (689 bar). These products meet and exceed the requirements of ASME. All materials are supplied in compliance with ASTM specifications and verified by approved third party laboratories.





Standard Body Direct Mounting (Pipe to Flange) 5-Handle Angled manifolds consists of two block valves, one equalizer valve and two vent valves. It can have pipe connections or compression fittings for process connection and flanged instrument connections. The distance between hole centers is 54mm (2 1/8").

WINTERS INSTRUMENTS

MANUFACTURER OF INDUSTRIAL INSTRUMENTATION



Winters Instruments is a global manufacturer of premium quality pressure and temperature instrumentation, with distribution partners in over 90 countries. Please contact us for your nearest Regional Manager.

Corporate - Canada
Winters Instruments
121 Railside Road
Toronto, Ontario
M3A 1B2
Tel: 416-444-2345
1-800-WINTERS
sales@winters.com

Canada - Edmonton
Winters Instruments
7503 Girard Road, #100
Edmonton, Alberta
T6B 2H2
Tel: 403-723-6645
1-800-WINTERS
sales@winters.com

USA - Houston
Winters Instruments
5400 W. Sam Houston Pkwy N.
Houston, Texas
77041
Tel: 281-880-8607
1-800-WINTERS
usasales@winters.com

Europe - Middle East - Africa
Winters Instruments
Dubai Airport Free Zone
6WB G50
Dubai, United Arab Emirates
Tel: 971-4295-9177
emeasales@winters.com

Asia - Shanghai
Winters Instruments
Room 203, Building 8,
No. 471, Guiping Road
Shanghai
200233
China
Tel: 86-21-6104-2610
asiasales@winters.com
www.wintersasia.com

Latin America
Winters Instruments
Lamadrid 121
Los Troncos del Talar,
B1608CEC
Buenos Aires, Argentina
Tel: 54-11-4715-3036
latinsales@winters.com
www.winters.com.ar

Distributed by:

Download Winters' literature at www.winters.com
Winters Instruments is ISO 9001:2015 Registered

02/25
MKT5239