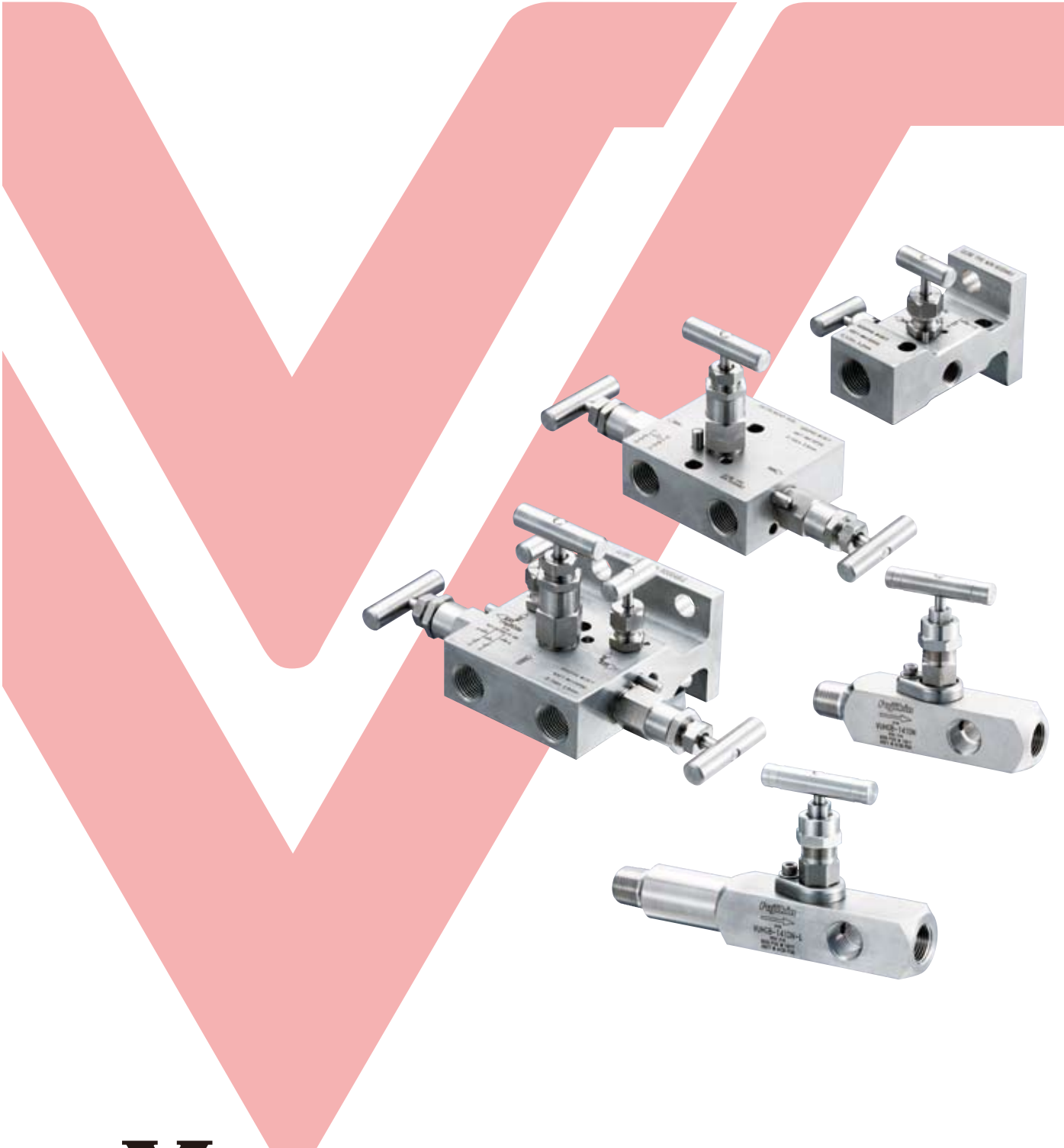




INSTRUMENT MANIFOLDS /GAUGE VALVES

6000 psig (413bar) VUTW, VUT, VUHGB Series



Fujikin Carp Group

Administrative Offices

Corporate Headquarter

Kita Hankyu Bldg., 1-4-8 Shibata, Kita-ku, Osaka 530-0012, Japan
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Corporate Headquarter

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New Headquarter

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Fujikin Deutschland GmbH

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Fujikin Vietnam Co.,Ltd.

H-2B Plot, Thang Long Industrial Park Dong Anh Dist., Hanoi, Vietnam
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New Headquarter

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20 Jalan Affi #06-01 Certis Cisco Center II Singapore 409179
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IMPORTANT NOTICE:

The product data in this catalogue was obtained under specific test conditions that may vary substantially from actual site conditions and / or customer needs.

Purchasers or other end users of Fujikin® products should rely solely on their system design engineer(s) when selecting Fujikin® products for a particular system, and when determining the suitability of any system in which a Fujikin® product is to be installed.

Fujikin® shall bear no liability regarding product selection criteria or decisions, nor shall Fujikin® be liable (including direct, special or consequential damages including, but not limited to, lost profits or income) in regard to any product which has been damaged by misuse, improper handling or accident, or as a result of service or modification by anyone other than an authorized employee or agent of Fujikin®, or being subjected to use under conditions, or combinations of conditions, that are not compatible with that particular Fujikin® product.

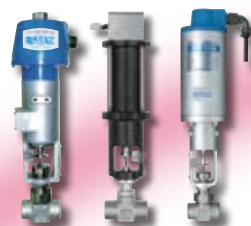
Beyond the Flow of Things



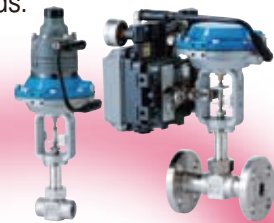
Fujikin provides you with a total solution for your flow control needs.



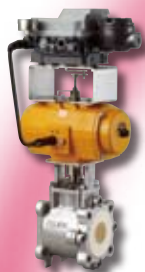
Weirless Diaphragm Valves
Weir Diaphragm Valves



Electronic Control Valves



MINUCON®



Fine Ceramic Ball Valves
COSMIX™



Integrated Gas System (IGS®)



Flow Control System
FCS® Thermal Series



Static Mixer



PROVIDER® POWER UNIT

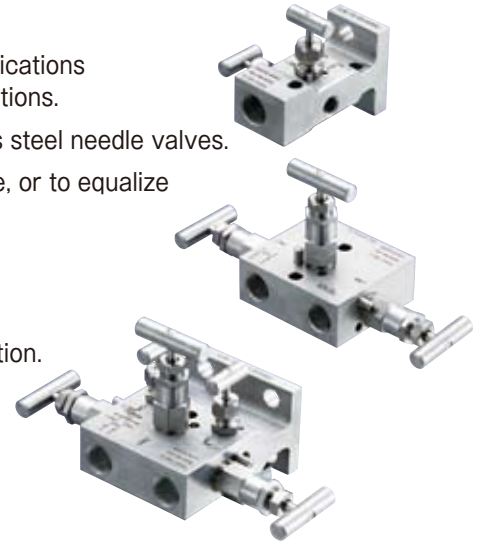


Welding,
processing Machine

INSTRUMENT MANIFOLD

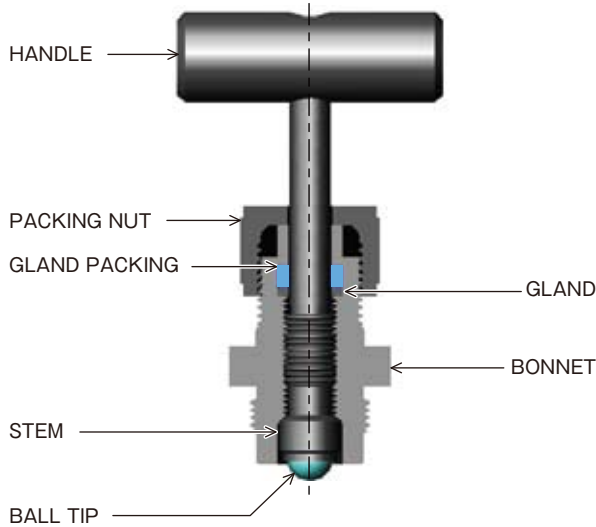
Features

1. **Fujikin** offers a variety of 2-, 3-, and 5-valve instrument manifolds.
2. The 2-valve manifolds are designed for static pressure and liquid level applications ; the 3- and 5-valve manifolds are designed for differential pressure applications.
3. The flow through a **Fujikin** manifold is controlled by a series of stainless steel needle valves.
4. Each valve has a specific function—to block pressure, to bleed off pressure, or to equalize pressure—depending on its location on the manifold.
The control of all these functions is shared by two needle valve designs
a large-bonnet needle valve for manifold orifices of 0.156 in. (4 mm)
a small-bonnet needle valve for manifold orifices of 0.125 in. (3.2 mm).
5. On both designs, the stem packing is externally adjustable in the open position. PTFE is the standard packing material.

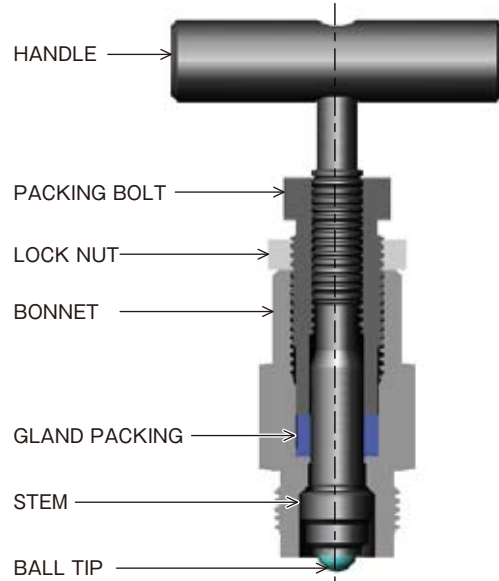


Construction around Bonnet

Small Bonnet Needle Valves



Large Bonnet Needle Valves

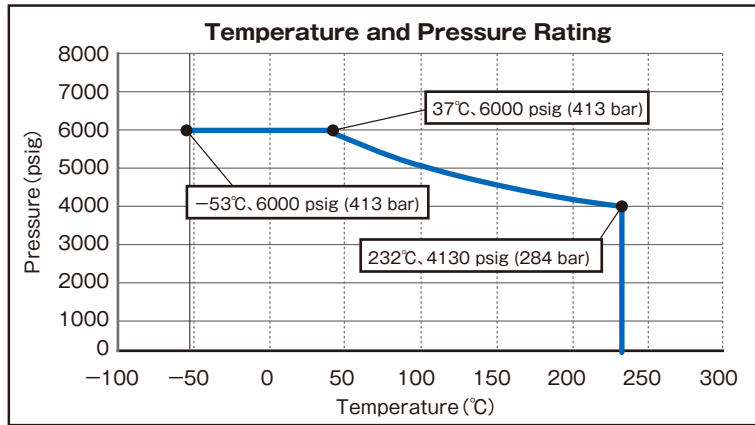


Description	Materials
HANDLE	SUS 316
PACKING NUT	ASTM A276 316
GLAND PACKING	PTFE
GLAND	ASTM A276 316
BONNET	ASTM A479 316
STEM	ASTM A276 316
BALL TIP	ASTM A276 316

Description	Materials
HANDLE	SUS 316
PACKING BOLT	ASTM A276 316
LOCK NUT	ASTM A276 316
BONNET	ASTM A479 316
GLAND PACKING	PTFE
STEM	ASTM A276 316
BALL TIP	ASTM A276 316

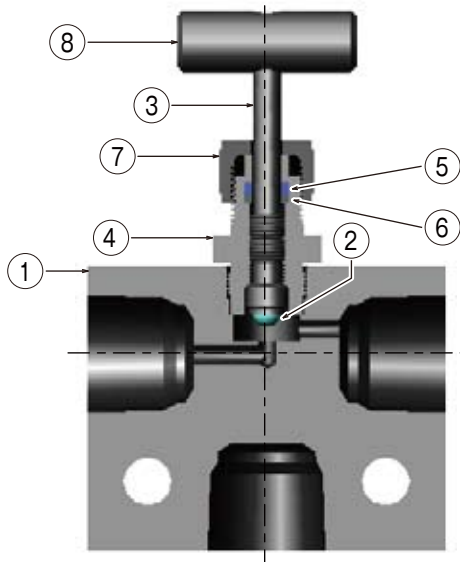
Technical Data

Temperature and Pressure Rating



Material of Construction

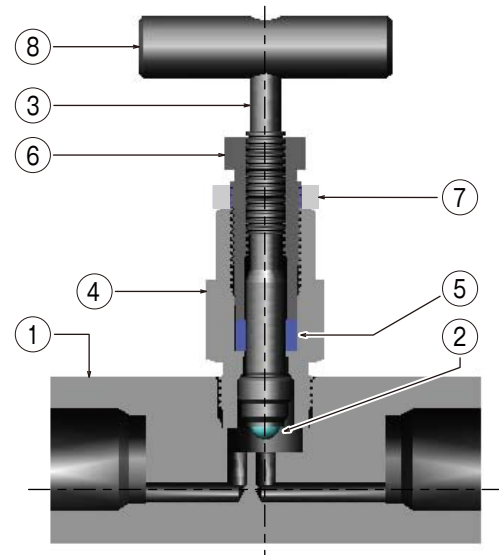
Small Manifolds



No.	Description	Materials
1	BODY ※	ASTM A479 316
2	BALL TIP ※	ASTM A276 316
3	STEM ※	ASTM A276 316
4	BONNET ※	ASTM A479 316
5	GLAND PACKING ※	PTFE
6	GLAND ※	ASTM A276 316
7	PACKING NUT	ASTM A276 316
8	HANDLE	SUS 316

※ : Wetted Parts

Large Manifolds



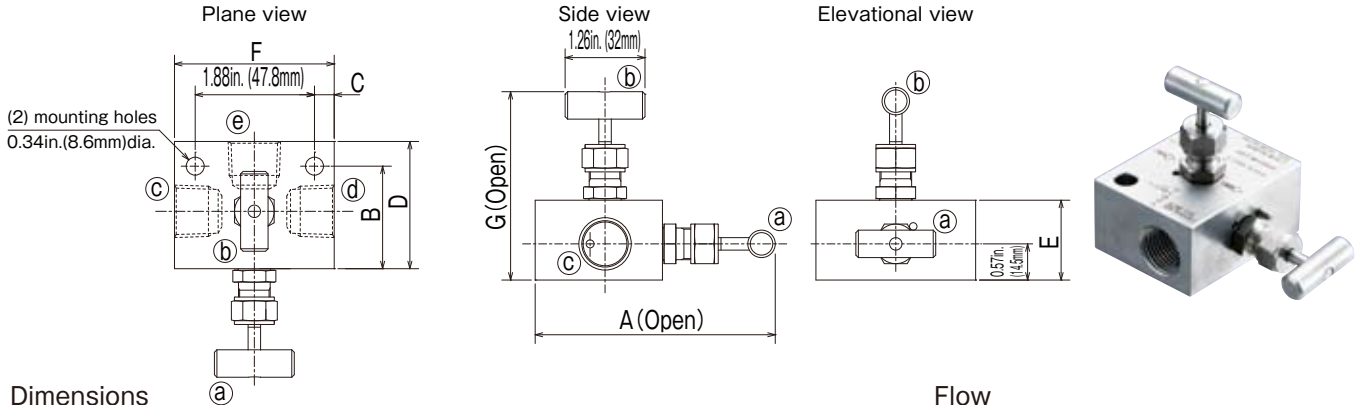
No.	Description	Materials
1	BODY ※	ASTM A479 316
2	BALL TIP ※	ASTM A276 316
3	STEM ※	ASTM A276 316
4	BONNET ※	ASTM A479 316
5	GLAND PACKING ※	PTFE
6	PACKING BOLT	ASTM A276 316
7	LOCK NUT	ASTM A276 316
8	HANDLE	SUS 316

※ : Wetted Parts

Dimensions and Ordering Numbers

2-Valve Manifolds (Consists of one block valve and one bleed valve)

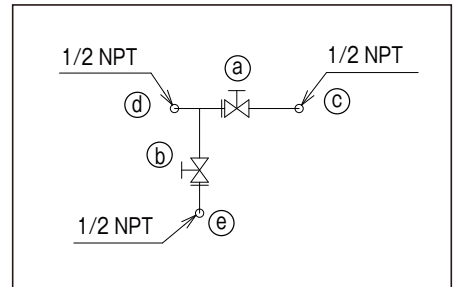
End connection of process side, instrument side : 1/2 NPT(Female)



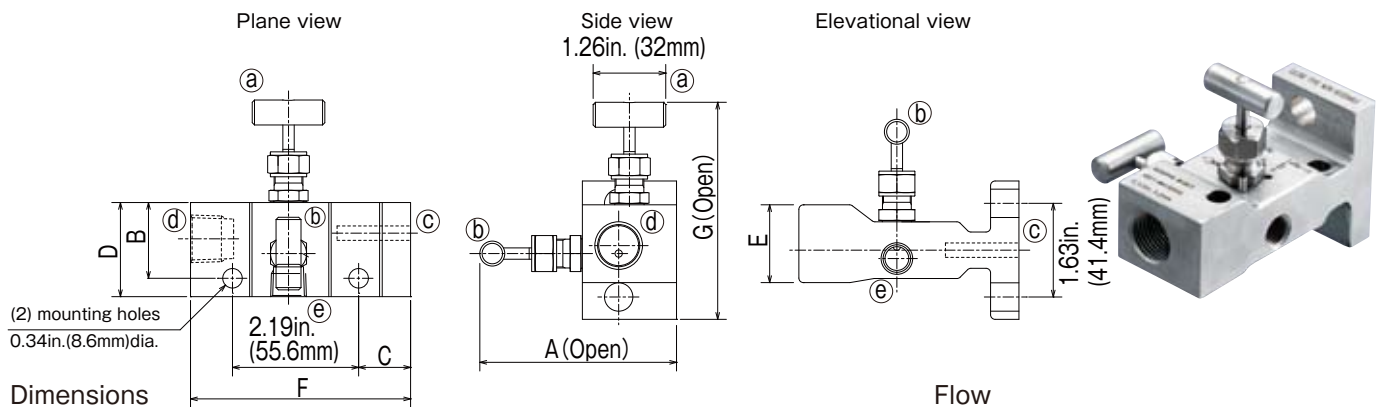
Dimensions

End Connections			Ordering Number			
c	d	e				
1/2 NPT	1/2 NPT	1/2 NPT	VUTW - 141DN			
Dimensions in. (mm)						
A	B	C	D	E	F	G
3.79 (96.2)	1.62 (41.1)	0.31 (7.9)	2.01 (51)	1.26 (32)	2.52 (64)	3.04 (77.2)

Flow



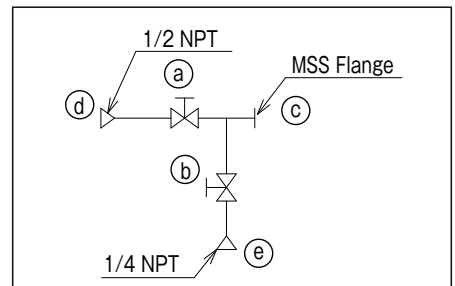
End connection of process side : 1/2 NPT(Female), instrument side : Flauge(MSS)



Dimensions

End Connections			Ordering Number			
c	d	e				
Flange(MSS)	1/2 NPT	1/4 NPT	VUTW - 141DN - FL			
Dimensions in. (mm)						
A	B	C	D	E	F	G
3.47 (88.2)	1.31 (33.4)	0.9 (22.9)	1.63 (41.5)	1.35 (34.3)	3.82 (97)	3.41 (86.7)

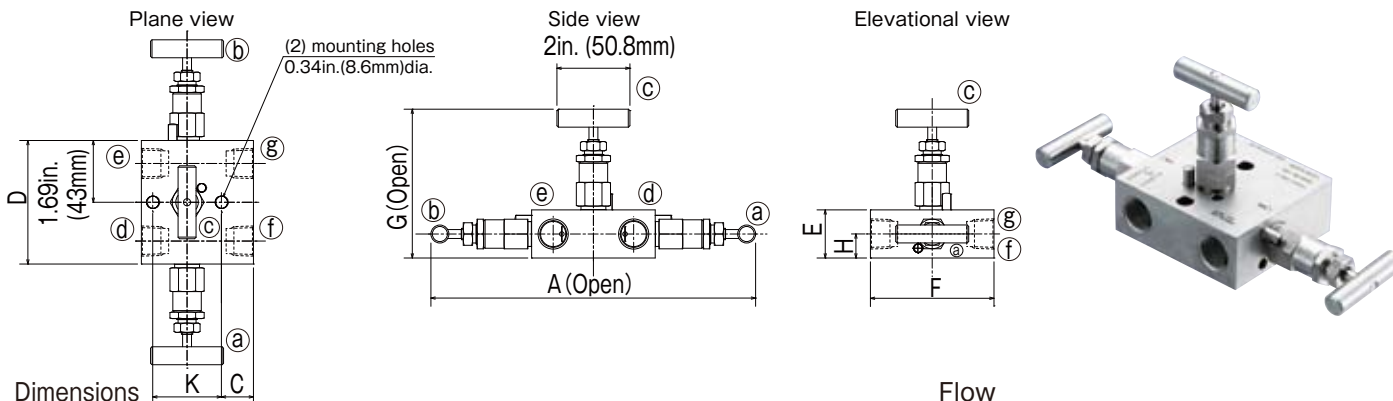
Flow



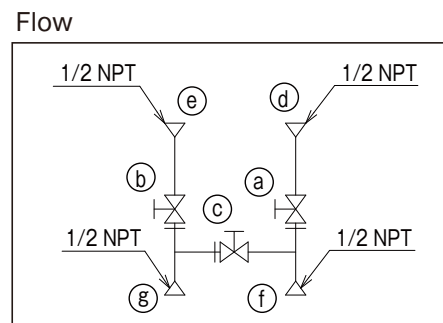
Dimensions and Ordering Numbers

3-Valve Manifolds (Consist of two block valves and one equalizer valve)

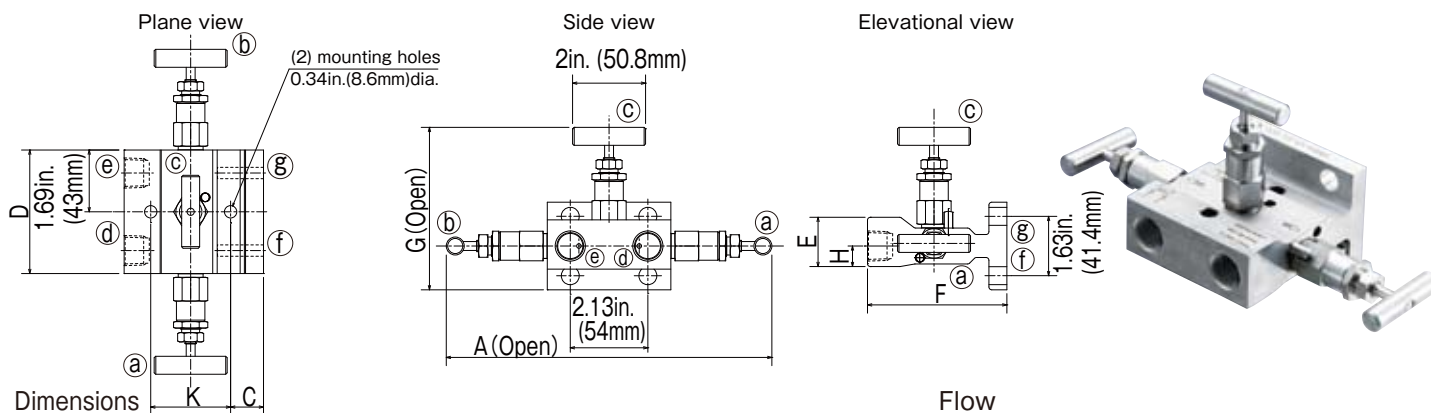
End connection of process side, instrument side : 1/2 NPT



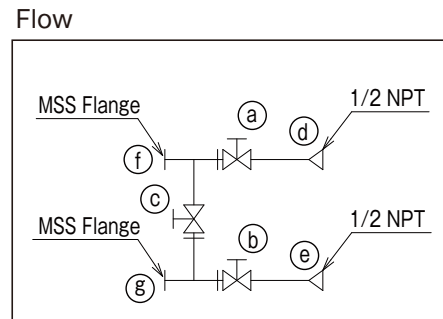
End Connections				Ordering Number			
d	e	f	g				
1/2 NPT	1/2 NPT	1/2 NPT	1/2 NPT	VUT - 141DN			
Dimensions in. (mm)							
A	C	D	E	F	G	H	K
8.91 (226.2)	0.88 (22.3)	3.39 (86)	1.32 (33.5)	3.07 (78)	4.08 (103.6)	0.56 (14.3)	1.88 (47.8)



End connection of process side : 1/2 NPT(Female), instrument side : Flange(MSS)



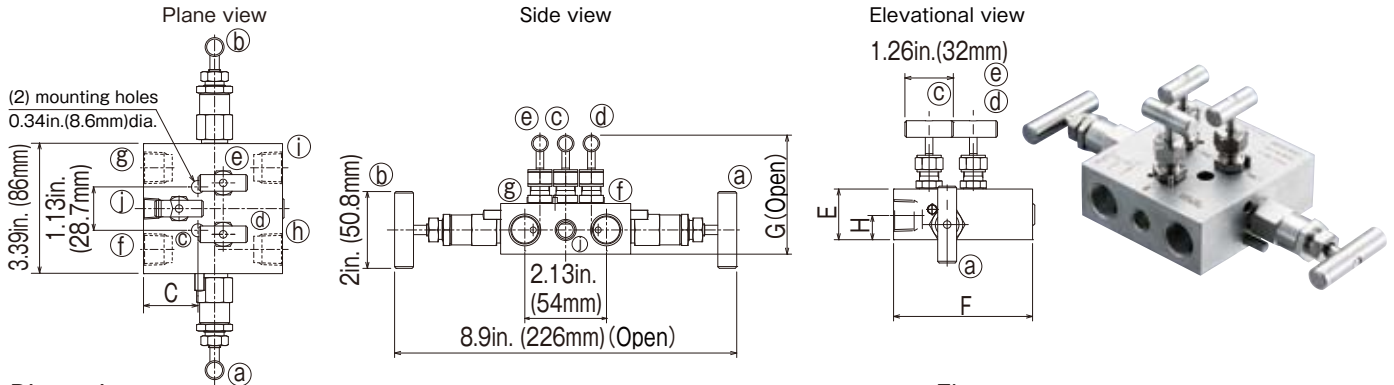
End Connections				Ordering Number			
d	e	f	g				
1/2 NPT	1/2 NPT	Flange(MSS)	Flange(MSS)	VUT - 141DN - FL			
Dimensions in. (mm)							
A	C	D	E	F	G	H	K
8.91 (226.2)	0.9 (22.9)	3.39 (86)	1.35 (34.3)	3.82 (97)	4.45 (113.1)	0.56 (14.3)	2.19 (55.6)



Dimensions and Ordering Numbers

5-Valve Manifolds (Consist of two block valves, two equalizer valves and one bleed valve)

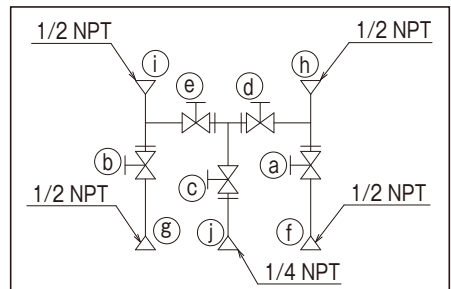
End connection of process side, instrument side : 1/2 NPT(Female)



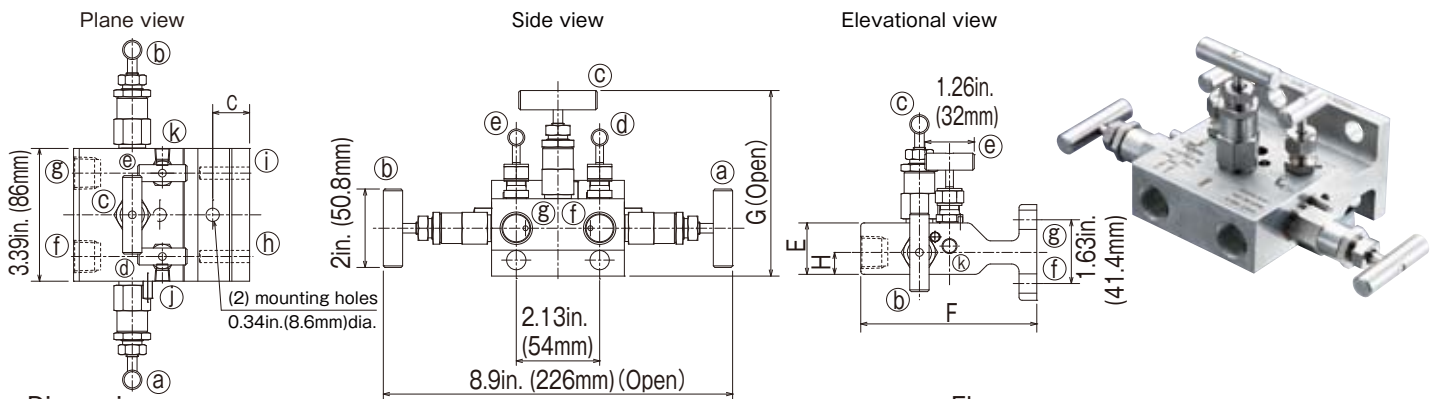
Dimensions

End Connections					Ordering Number
f	g	h	i	j	
1/2 NPT	1/2 NPT	1/2 NPT	1/2 NPT	1/4 NPT	VUT - 141DN - BN
Dimensions in. (mm)					
C	E	F	G	H	
1.42 (36)	1.32 (33.5)	3.62 (91.9)	3.1 (78.7)	0.63 (16)	

Flow



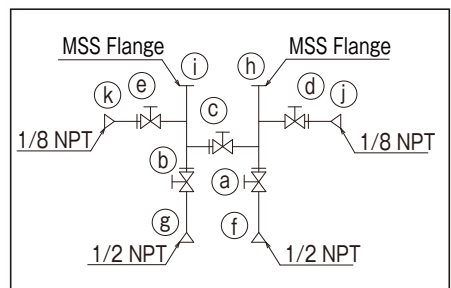
End connection of process side : 1/2 NPT(Female), instrument side : Flange(MSS)



Dimensions

End Connections						Ordering Number
f	g	h	i	j	k	
1/2 NPT	1/2 NPT	MSS Flange	MSS Flange	1/8 NPT	1/8 NPT	VUT - 241VDN - FL - AN
Dimensions in. (mm)						
C	E	F	G	H		
0.94 (23.9)	1.31 (33.3)	4.45 (113)	4.73 (120.2)	0.56 (14.2)		

Flow



Gauge Valves

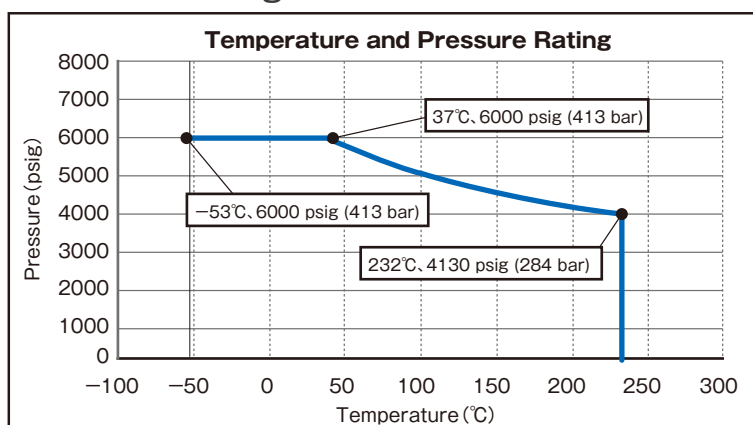
Features

1. Stainless steel construction.
2. Nonrotating ball-tip stem design.
3. Lagging extension body available for insulation clearance.
4. 1/2 and 3/4 in. male to 1/2 in. NPT female end connections.
5. 1/2 in. female gauge ports standard.
6. Schedule 160 pipe wall or heavier on valve inlet fitting for strength.
7. Bonnet lock plate standard.

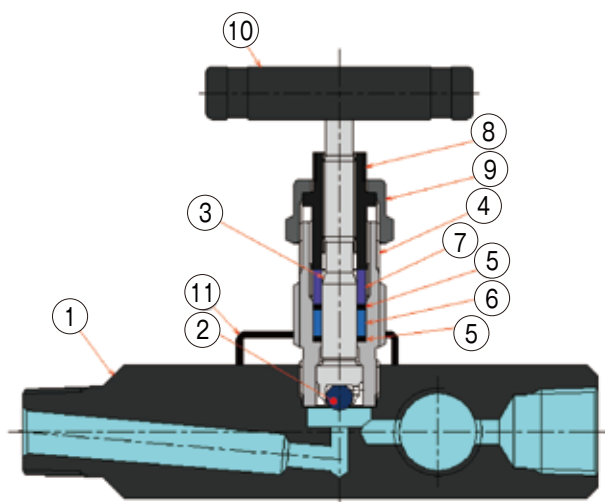


Technical Date

Temperature and Pressure Rating



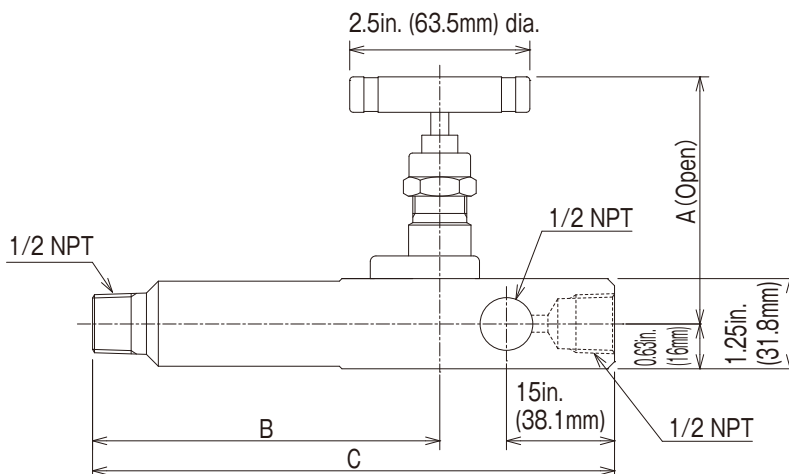
Material of Construction



No.	Description	Materials
1	BODY ※	ASTM A479 316
2	BALL TIP ※	ASTM A276 316
3	STEM ※	ASTM A276 316
4	BONNET ※	ASTM A479 316
5	SUPPORT PACKING ※	C-PTFE
6	GLAND PACKING ※	PTFE
7	GLAND	ASTM A276 316
8	PACKING BOLT	ASTM A276 316
9	LOCK NUT	ASTM A276 316
10	HANDLE	ASTM A276 316
11	LOCK PLATE	SUS304

※ : Wetted Parts

Dimensions and Ordering Numbers



End Connections	Ordering Number	Dimensions in. (mm)			Remarks
		A	B	C	
1/2 NPT	VUHGB – 141DN	3.88 (98.6)	2.97 (75.4)	5.39 (137)	Std. body type
1/2 NPT	VUHGB – 141DN – L	3.88 (98.6)	4.82 (122.4)	7.24 (184)	extension body type for insulation clearance

