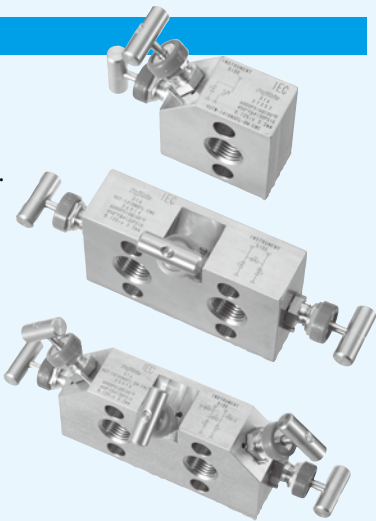


Instrument Manifolds

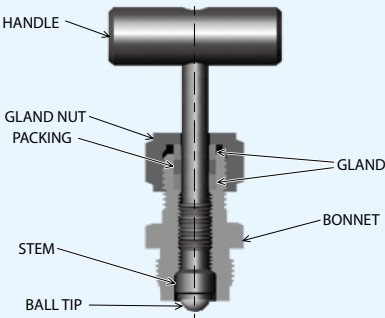
Features

- 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. End connections - 1/2 in. female pipe (NPT) ; flange (MSS) (Please refer to P177)
- 6. The bonnet is prevented from loosening from a body with a lock plate. (standard)
(There is also pin lock type. Please refer to P177)
- 7. On both designs, the stem packing is externally adjustable in the open position.
PTFE is the standard packing material.
- 8. Distinguished by different colors according to use. with color caps
BLOCK: Blue, BLEED: Red, EQUALIZE: Green



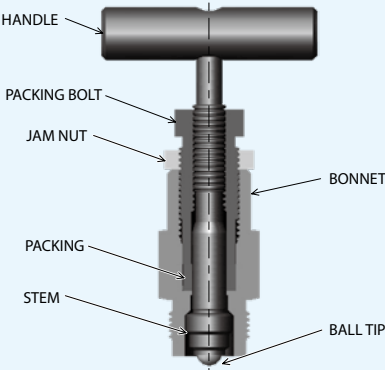
Bonnet Design

Small Bonnet Needle Valves



Description	Materials
HANDLE	ASTM A276 304
GLAND NUT	ASTM A276 316
PACKING	PTFE
GLAND	ASTM A276 316
BONNET	ASTM A479 316
STEM	ASTM A276 316
BALL TIP	ASTM A276 316

Large Bonnet Needle Valves

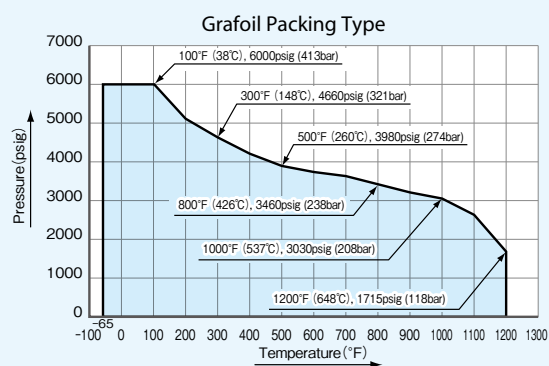
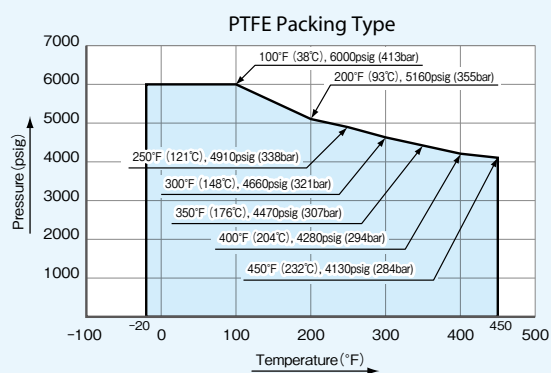


Description	Materials
HANDLE	ASTM A276 304
JAM NUT	ASTM A276 304
PACKING BOLT	ASTM A276 316
BONNET	ASTM A479 316
PACKING	PTFE
STEM	ASTM A276 316
BALL TIP	ASTM A276 316

Cautions: ASTM A276 material may use SUS (ASTM A276 equivalent material).

Technical Data

Temperature and Pressure Rating

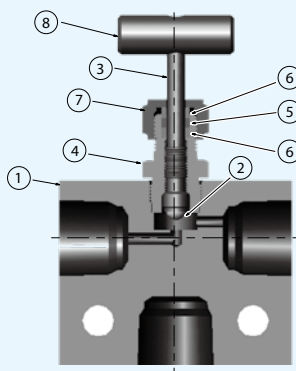


Applicable Fluid

Air, Nitrogen gas, Inert gas like Helium, and non - corrosive gas and liquid.

Material of Construction

Small Bonnet Manifolds

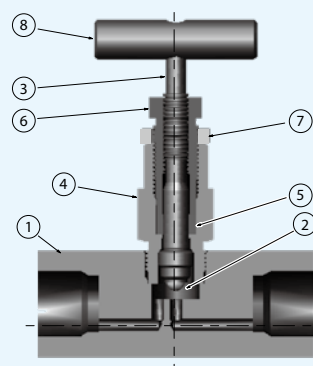


No.	Description	Materials
1	BODY	※ ASTM A479 316
2	BALLTIP	※ ASTM A276 316
3	STEM	※ ASTM A276 316
4	BONNET	※ ASTM A479 316
5	PACKING	※ PTFE
6	GLAND	※ ASTM A276 316
7	GLAND NUT	ASTM A276 304
8	HANDLE	ASTM A276 304

※ : Wetted Parts

Cautions: ASTM A276 material may use SUS (ASTM A276 equivalent material).

Large Bonnet 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	PACKING	※ PTFE
6	PACKING BOLT	ASTM A276 316
7	JAM NUT	ASTM A276 304
8	HANDLE	ASTM A276 304

※ : Wetted Parts

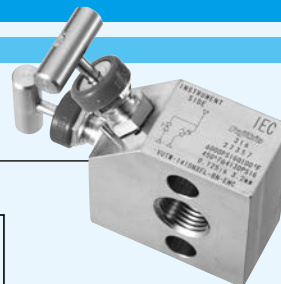
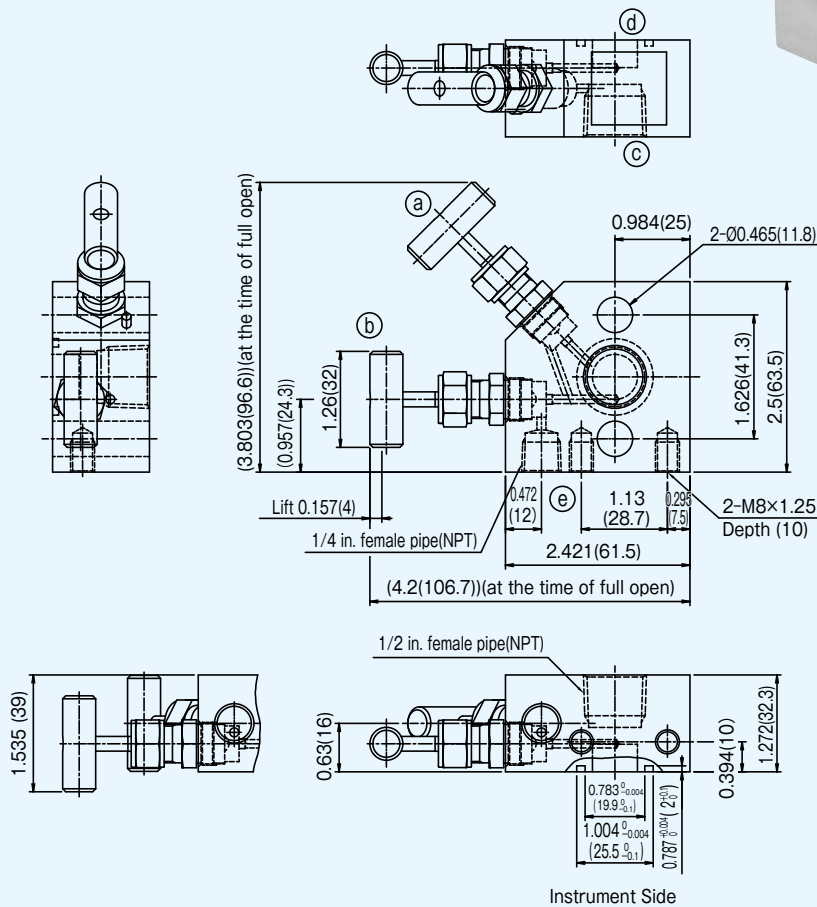
Cautions: ASTM A276 material may use SUS (ASTM A276 equivalent material).

Dimensions, Flow and Ordering Numbers

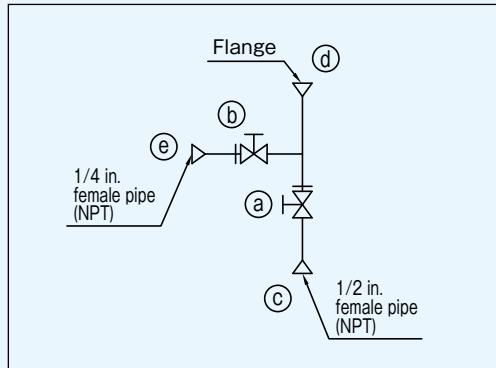
2-Valve Manifolds (Consist of one block valve and one vent valve)

Direct Mounting Type

Dimensions



Flow



Ordering Number:

- VUTW-141DN×FL-BN-EMC:
Standard (PTFE Packing & no Blind Type)
- VUTW-141DN×FL-BN-EMC-GR:
Graphite Packing Type
- VUTW-141DN×FL-BN-EMC-BL:
with Vent Port Blind Type

Remarks

A gasket and two bolts are attached with this product.

Dimensions, Flow and Ordering Numbers

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

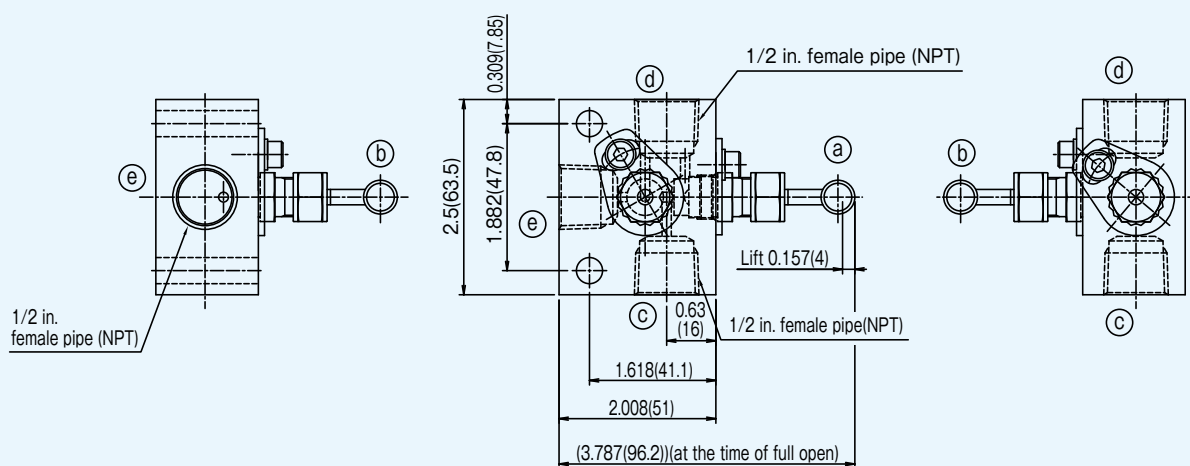
Remote Mounting Type

End Connections of Process side, Instrument side:
1/2 in. Female Pipe (NPT)

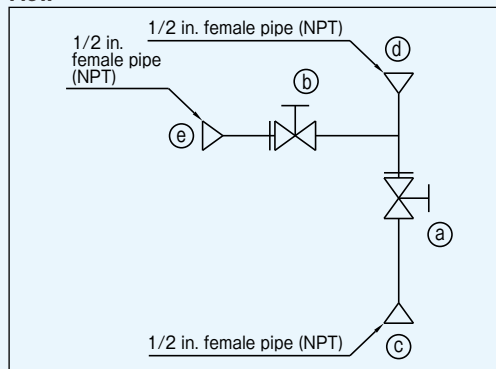


Dimensions

UNIT: in. (mm)



Flow



Ordering Number:

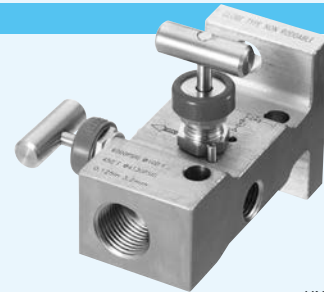
- **VUTW-141LDN:**
Standard (PTFE Packing & no Blind Type)
- **VUTW-141LDN-GR:**
Graphite Packing Type
- **VUTW-141LDN-BL:**
with Vent Port Blind Type

Dimensions, Flow and Ordering Numbers

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

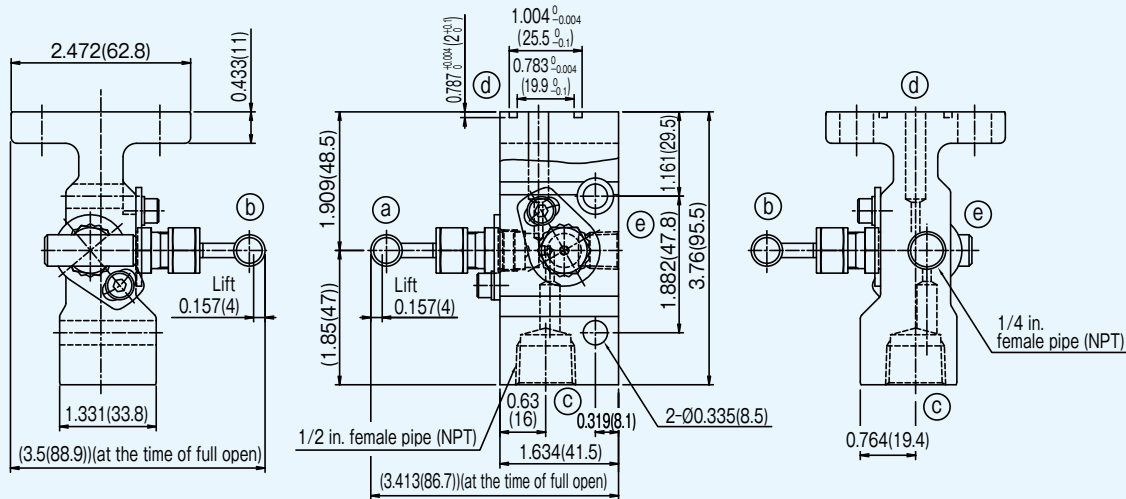
Direct Mounting Type

End Connections of Process Side: 1/2 in. Female Pipe (NPT),
Instrument side: Flange (MSS)

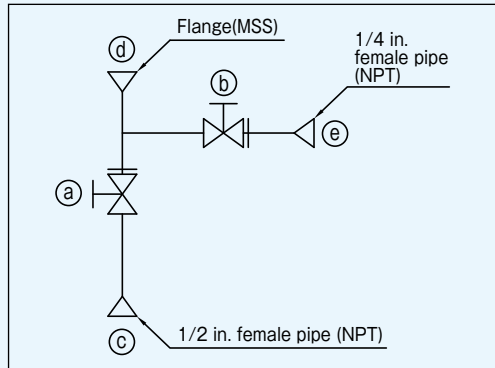


Dimensions

UNIT: in. (mm)



Flow



Ordering Number:

- **VUTW-141LDN×FL-BN:**
Standard (PTFE Packing & no Blind Type)
- **VUTW-141LDN×FL-BN-GR:**
Graphite Packing Type

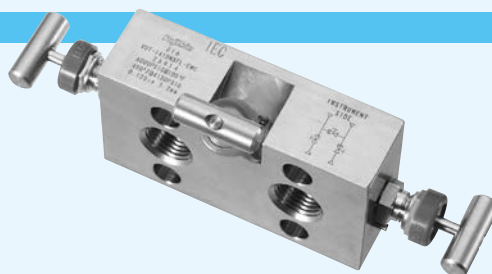
Remarks

A gasket and two bolts are attached with this product.

Dimensions, Flow and Ordering Numbers

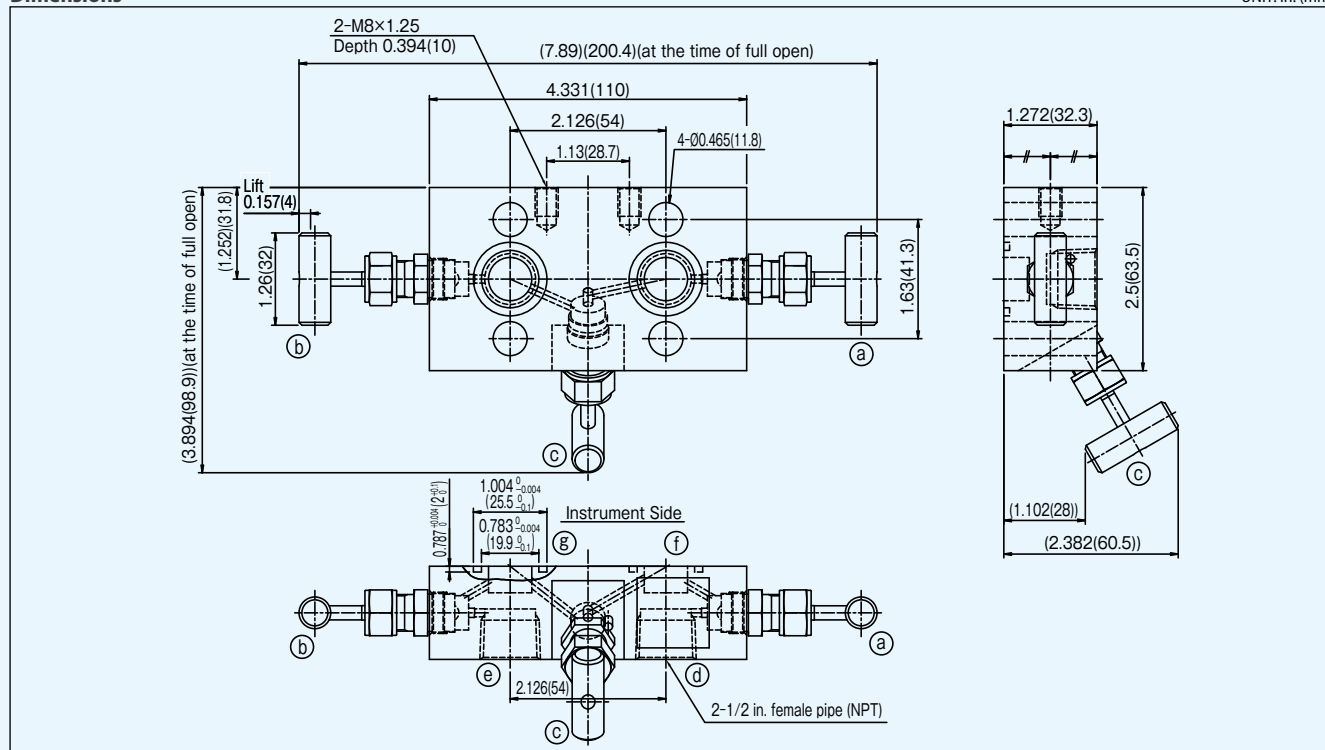
3-Valve Manifolds (Consist of two block valves and one equalizer valve)

Direct Mounting Type

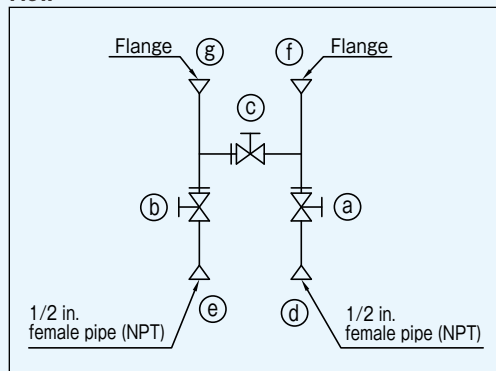


Dimensions

UNIT: in. (mm)



Flow



Ordering Number:

- **VUT-141DNxFL-EMC:**
Standard (PTFE Packing & no Blind Type)
- **VUT-141DNxFL-EMC-GR:**
Graphite Packing Type

Remarks

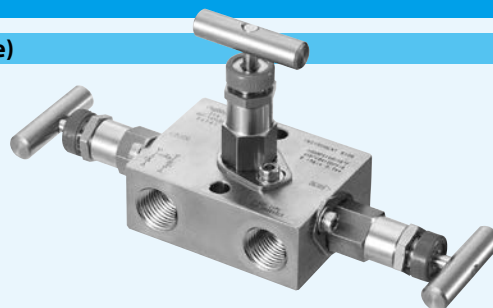
A gasket and two bolts are attached with this product.

Dimensions, Flow and Ordering Numbers

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

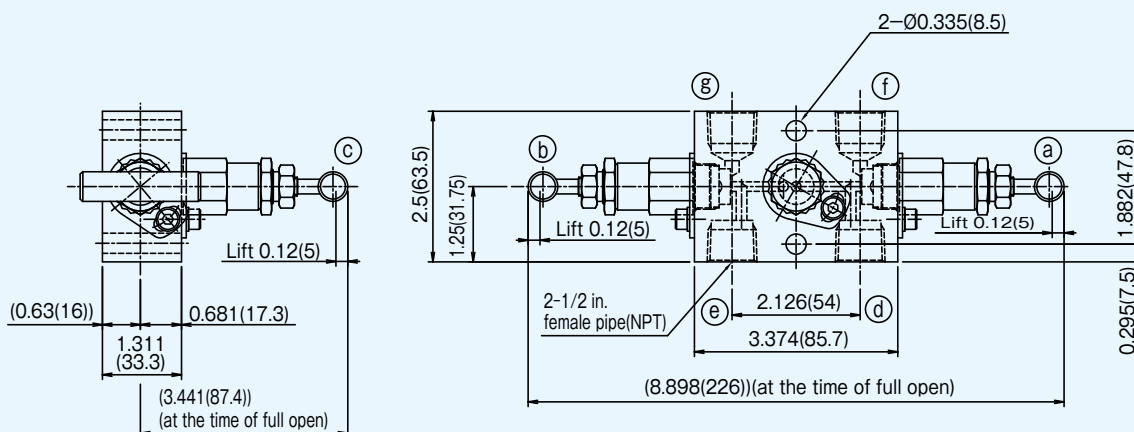
Remote Mounting Type

End connections of Process side, Instrument side:
1/2 in. Female Pipe (NPT)

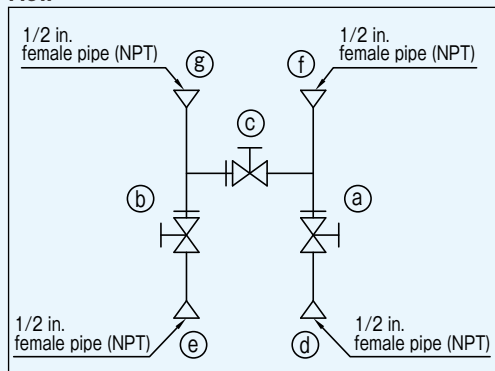


Dimensions

UNIT: in. (mm)



Flow



Ordering Number:

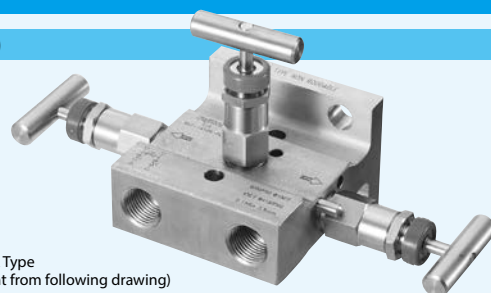
- **VUT-141LDN:**
Standard (PTFE Packing & no Blind Type)
- **VUT-141LDN-GR:**
Graphite Packing Type

Dimensions, Flow and Ordering Numbers

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

Direct Mounting Type

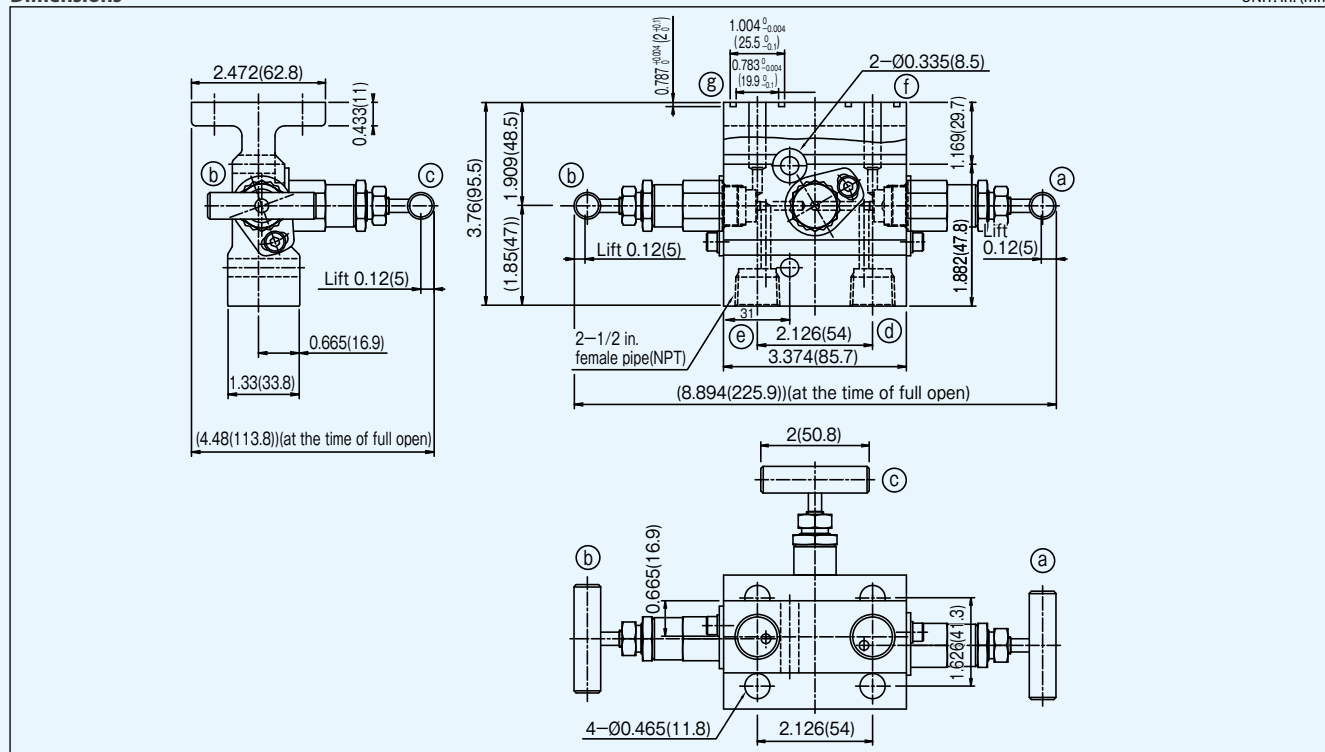
End Connections of Process Side: 1/2 in. Female Pipe (NPT),
Instrument side: Flange (MSS)



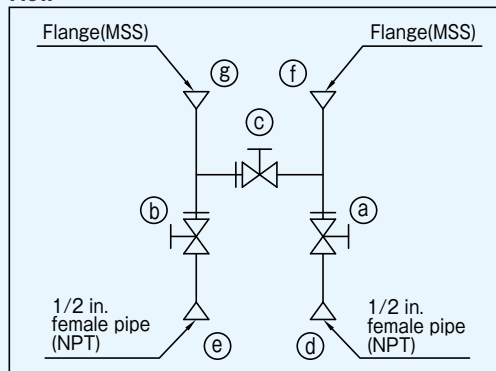
Pin Lock Type
(different from following drawing)

Dimensions

UNIT: in. (mm)



Flow

**Ordering Number:**

- **VUT-141LDN×FL:**
Standard (PTFE Packing & no Blind Type)

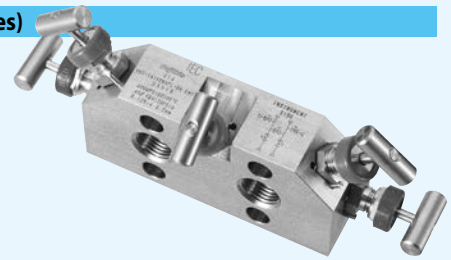
Remarks

A gasket and two bolts are attached with this product.

Dimensions, Flow and Ordering Numbers

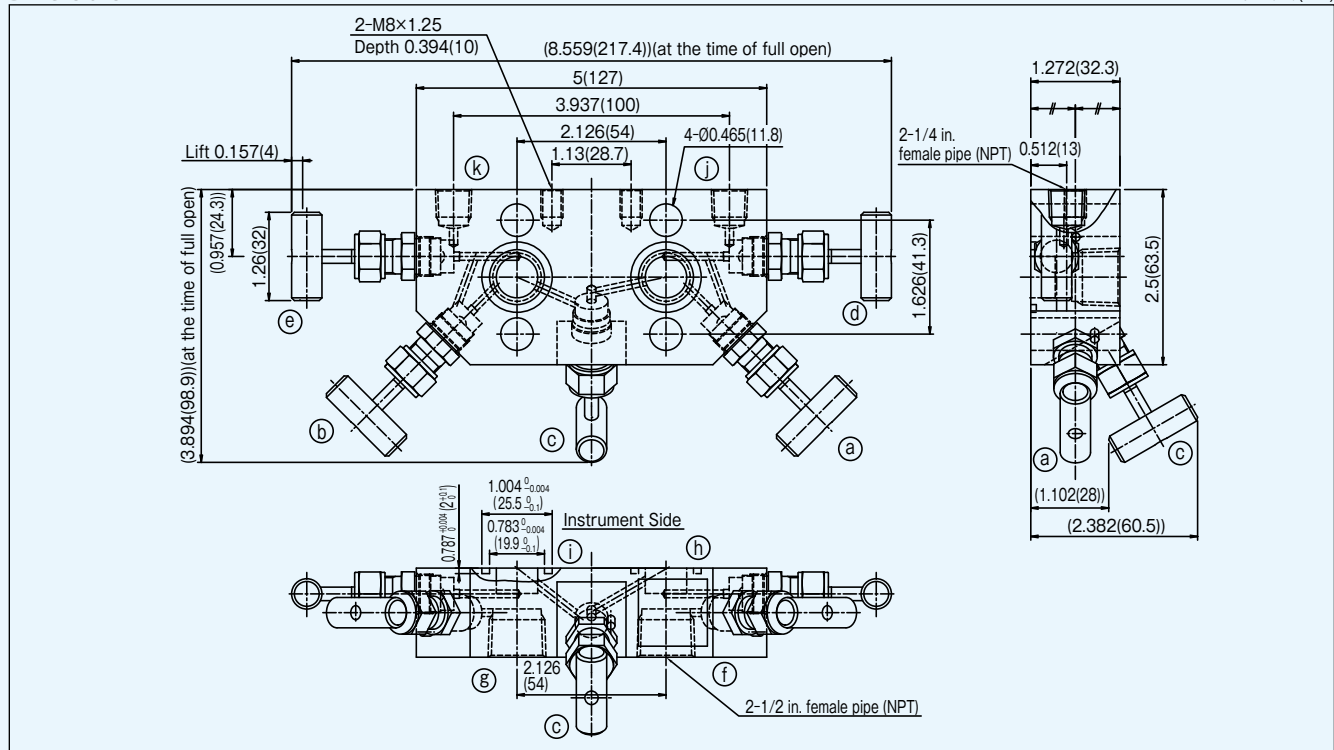
5-Valve Manifolds (Consist of two block valves, one equalizer valve and two bleed valves)

Direct Mounting Type

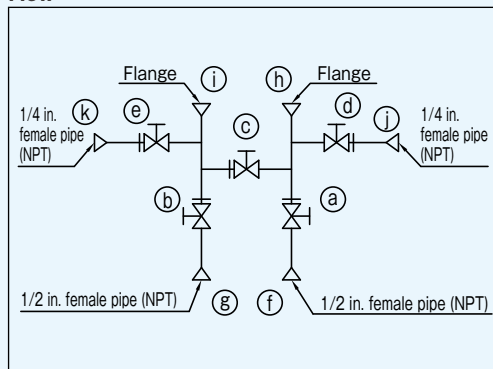


Dimensions

UNIT: in. (mm)



Flow



Ordering Number:

- **VUT-141VDN×FL-BN-EMC:**
Standard (PTFE Packing & no Blind Type)
- **VUT-141VDN×FL-BN-EMC-GR:**
Graphite Packing Type
- **VUT-141VDN×FL-BN-EMC-BL:**
with Vent Port Blind Type

Remarks

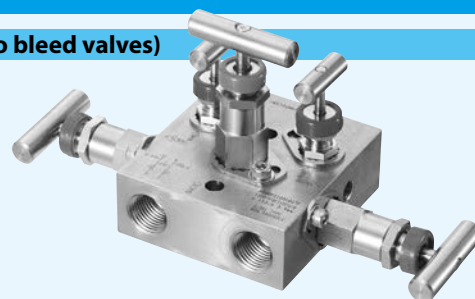
A gasket and two bolts are attached with this product.

Dimensions, Flow and Ordering Numbers

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

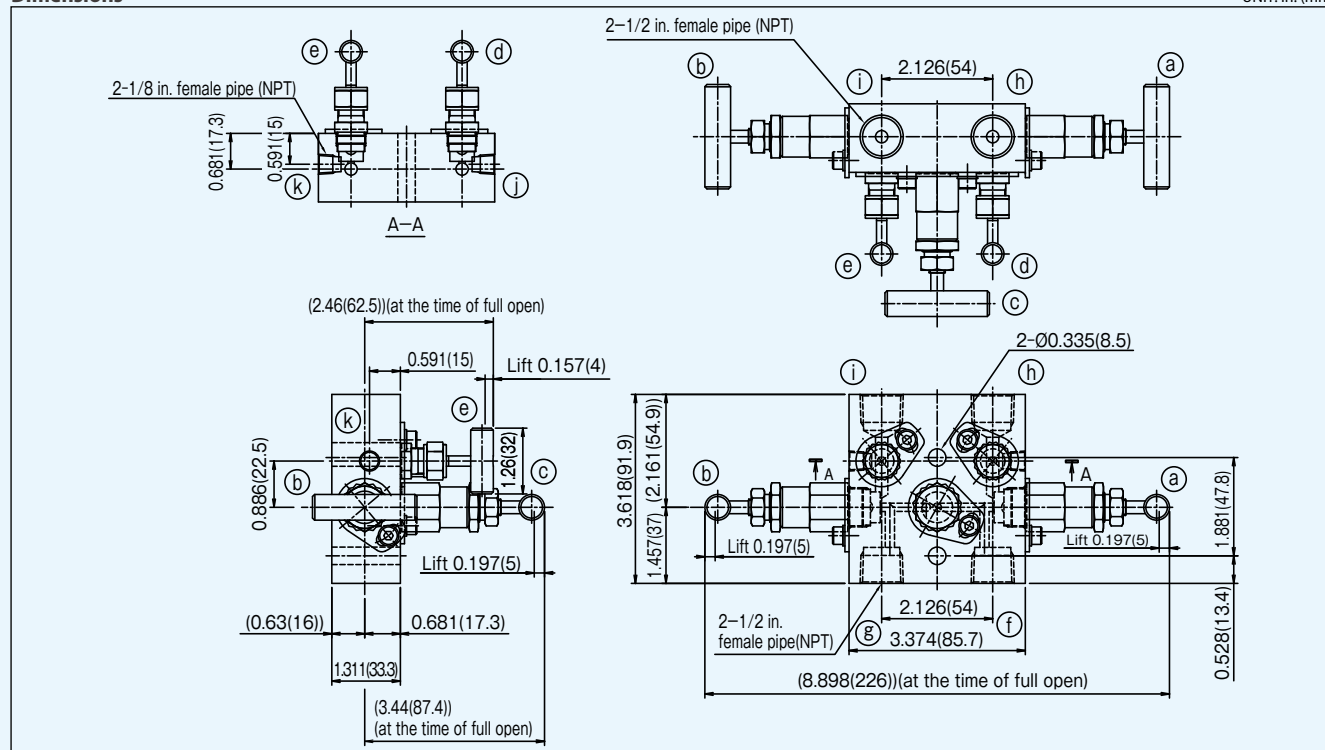
Remote Mounting Type

End Connections of Process Side, Instrument Side: 1/2 in. Female Pipe (NPT)

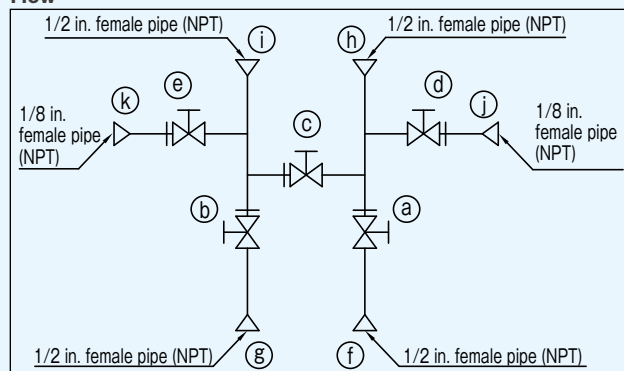


Dimensions

UNIT: in. (mm)



Flow



Ordering Number:

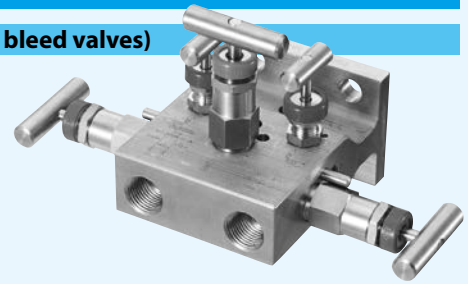
- **VUT-141LVDN-AN:**
Standard (PTFE Packing & no Blind Type)
- **VUT-141LVDN-AN-GR:**
Graphite Packing Type
- **VUT-141LVDN-AN-BL:**
with Vent Port Blind Type

Dimensions, Flow and Ordering Numbers

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

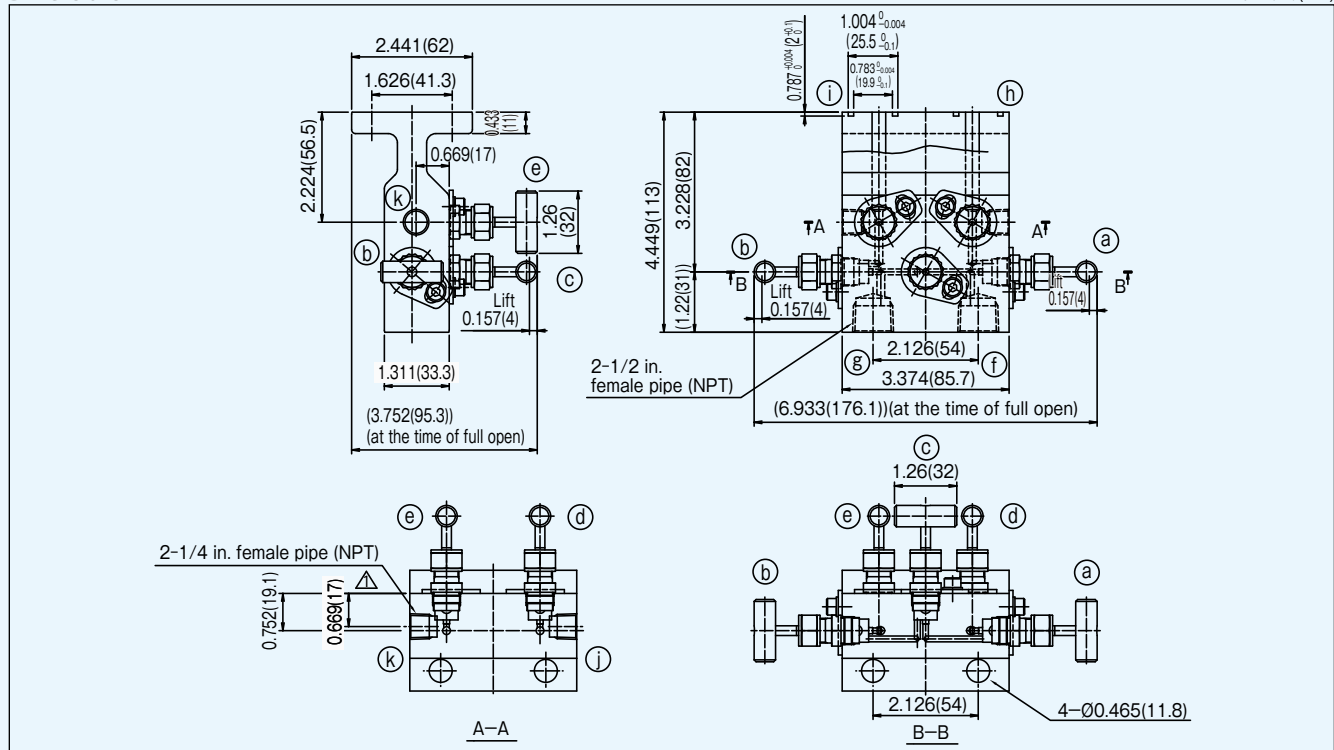
Direct Mounting Type

End Connections of Process Side: 1/2 in. Female Pipe (NPT),
Instrument side: Flange (MSS)

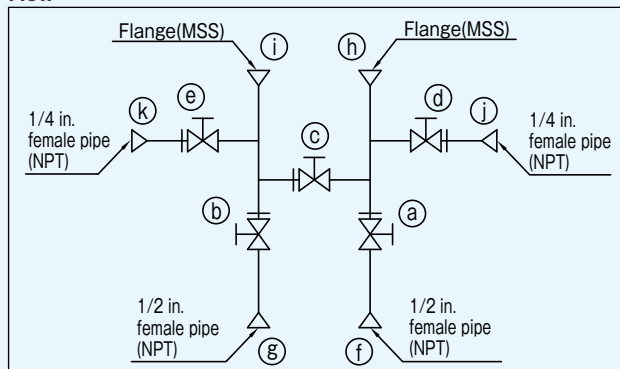


Dimensions

UNIT: in. (mm)



Flow



Ordering Number:

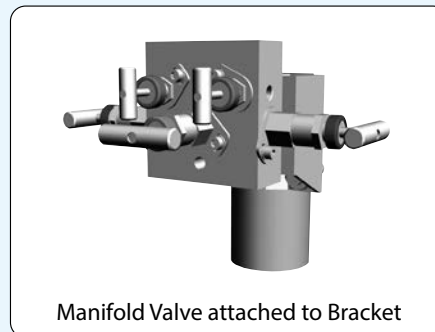
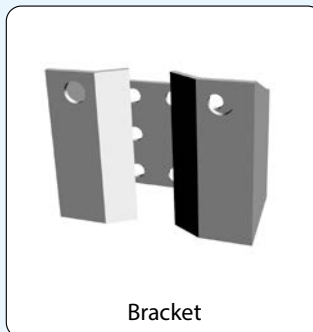
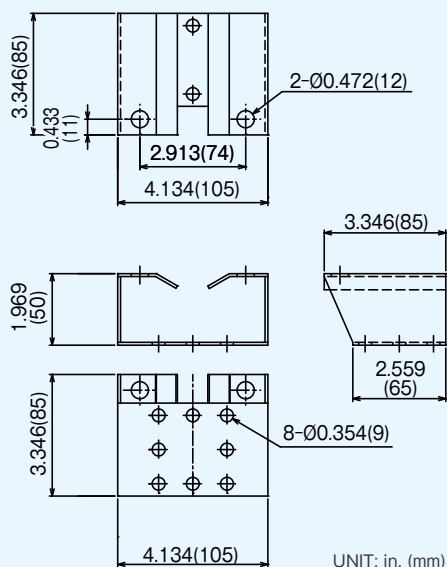
- **VUT-141LVDN × FL-BN-GUU**
Standard (PTFE Packing & no Blind Type)
- **VUT-141LVDN × FL-BN-GUU-BL:**
with Vent Port Blind Type

Remarks

Two gaskets and four bolts are attached with this product.

Option Parts

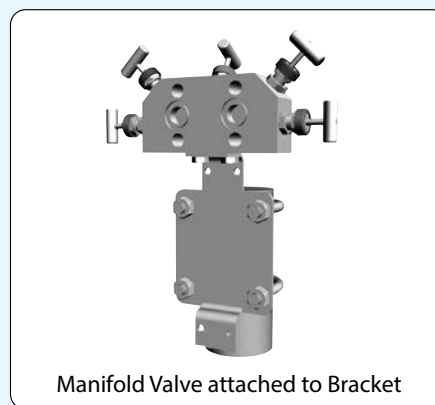
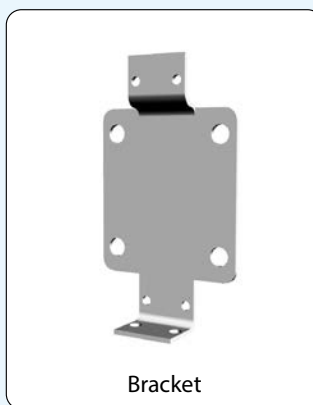
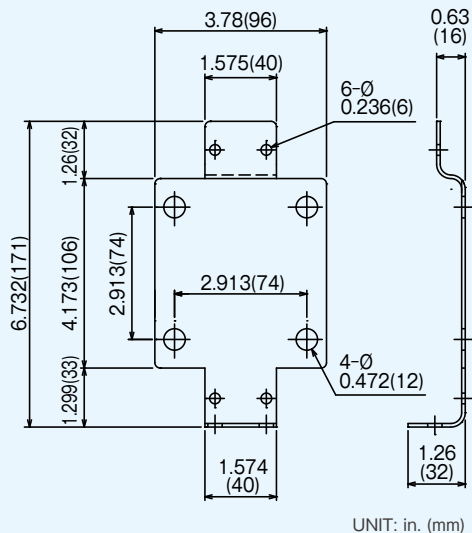
MANIFOLD BRACKET KIT for Remote Type Manifold Valves (apply to 2 inch pipe)



Parts Name	Materials	Q'ty	Remarks
Bracket	SUS304	1	
U-Bolt	SS400	1	MFZn, for 2 In. (M10)
Spring Washer	SS400	2	MFZn, Nominal 10
Hex Nut	SS400	2	MFZn, M10
Hex Bolt	SS400	2	MFZn, M8 x 45
Spring Washer	SS400	2	MFZn, Nominal 8
Hex Nut	SS400	2	MFZn, M8 x 45

The set of a Bracket includes U-Bolt•Spring Washers•Hex Nuts (for Bracket), Hex Bolts•Spring Washers•Hex Nuts (for Valve)

MANIFOLD BRACKET KIT for Direct Mount Type Manifold Valves (-EMC Type) (apply to 2 inch pipe)

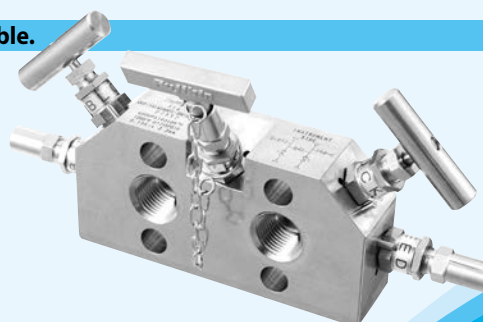


Parts Name	Materials	Q'ty	Remarks
Bracket	SUS304	1	
U-Bolt	SS400	2	MFZn, for 2 In. (M10)
Spring Washer	SS400	4	MFZn, Nominal 10
Hex Nut	SS400	4	MFZn, M10
Hex Bolt	SS400	2	MFZn, M5 x 8
Spring Washer	SS400	2	MFZn, Nominal 8

The set of a Bracket includes U-Bolts•Spring Washers•Hex Nuts (for Bracket), Hex Bolts•Spring Washers

Anti Tamper Handle Type (Small Bonnet Mount Type) is available.

Please remove the special handle from valve at the time of installation.
Please manage to use it only during open/close of valve.



Other Types

Pin Lock Types

Types	End Connections		Flow	Appearance
	Process	Instrument		
2-Valve Manifolds (Consists of one block valve and one bleed valve)	1/2 in. female pipe (NPT)	flange (MSS)		
3-Valve Manifolds (Consists of two block valves and one equalizer valve)	1/2 in. female pipe (NPT)	flange (MSS)		
5-Valve Manifolds (Consists of two block valves, one equalizer valve and two bleed valves)	1/2 in. female pipe (NPT)	flange (MSS)		

Ordering Numbers

V U TW - 1 41 L V DN × FL - BN - EMC - GR - BL
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

① Series

V: New V-Series

② Wetted Part (Body) Material

U: Stainless steel
M: Monel

③ Valve Basic Structure

TW: 2-Valve Manifolds
T : 3-Valve Manifolds
(However, in the item of ⑦, when you choose "V", two Vent Valves are added and it is set to 5-Valve Manifolds.)

④ Inlet Connections

1: Thread Type
2: Flange Type

⑤ Design Pressure

41: Design Pressure
6000psig (413bar)

⑥ Bonnet Lock Structure

L: Bonnet; Lock Plate Type (not apply to EMC type)
(Blank): Bonnet; Pin Lock Type

⑦ with Vent Valve

V: 5-Valve Manifolds
(add two vent valves to 3-Valve Manifolds)
(Blank): 3-Valve Manifolds

⑧ Inlet Connections

DN: Nominal Diameter 1/2 in. female pipe (NPT)
EN: 3/4 in. female pipe (NPT)

⑨ Outlet connections (Since various connections are available, please consult us.)

(Blank): Same as Inlet Connections
XFL: Flange
XBN: Thread Size (refer to ⑦)

⑩ Vent Port Connections (Since various connections are available, please consult us.)

(Blank): Same as Inlet Connections
AN: Bleed connection; 1/8 in. female pipe (NPT)
BN: Bleed connection for bleed valve; 1/4 in. female pipe (NPT)
DN: 1/2 in. female pipe (NPT)
B : Rc1/4

⑪ Body Form Supplement

(Blank): Standard Product
EMC: Direct Mount Compact Type
EME: Anti Tamper Handle Type (Small Bonnet Mount Type)
In the case that outlet connection is flange (⑨: XFL) and EME, EMC Type, Body should be Direct Mount Type.

⑫ Packing Material

(Blank): PTFE Packing (Standard)
GR: Graphite Packing (In the case that outlet connecting is Flange, accessory gasket also should be graphite.)

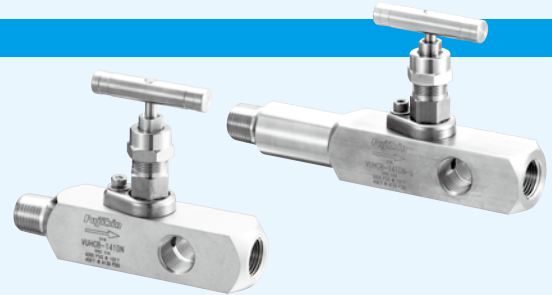
⑬ Blind

(Blank): Standard (no Blind)
BL: with Vent Port Blind

Gauge Valves

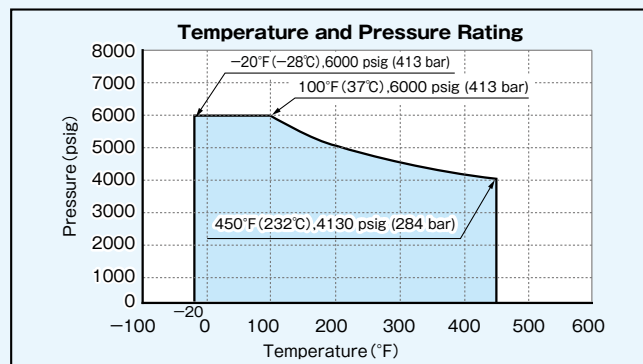
Features

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. female pipe (NPT) 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 Data

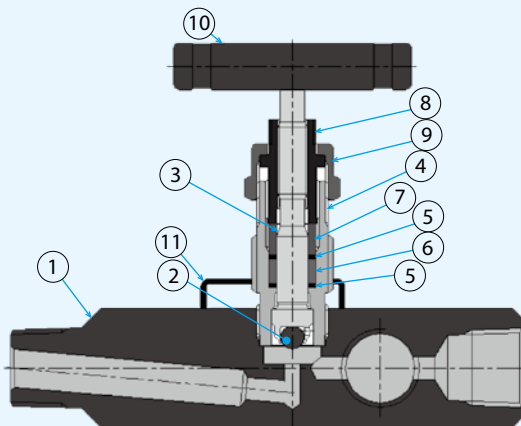
Temperature and Pressure Rating



Applicable Fluid

Air, Nitrogen gas, Inert gas like Helium, and non - corrosive gas and liquid.

Material of Construction

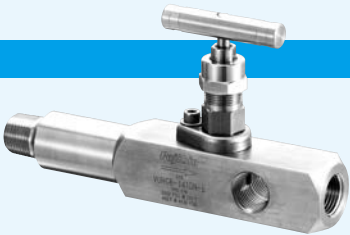
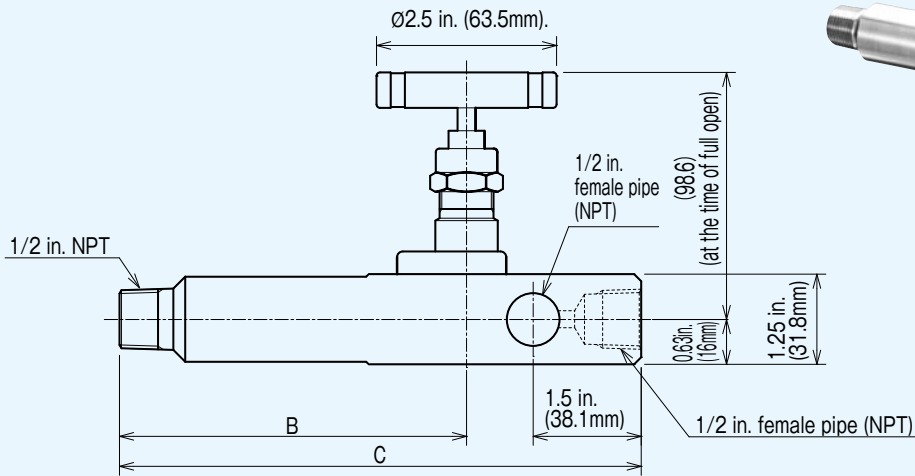


No.	Description	Materials
1	BODY	※ ASTM A479 316
2	BALL	※ ASTM A276 316
3	STEM	※ ASTM A276 316
4	BONNET	※ ASTM A479 316
5	SUPPORT PACKING	※ C-PTFE
6	GLAND PACKING	※ PTFE
7	GLAND	ASTM A276 316
8	PACKING BOLT	ASTM A276 316
9	LOCK NUT	ASTM A276 316
10	HANDLE	ASTM A276 316
11	LOCK PLATE	SUS304

※ : Wetted Parts

Cautions: ASTM A276 material may use SUS (ASTM A276 equivalent material).

Dimensions and Ordering Numbers



End Connections	Ordering Numbers	Dimensions in. (mm)		Remarks
		B	C	
1/2 in. female pipe (NPT)	VUHGB-141DN	2.97(75.4)	5.39(137)	std. body type
1/2 in. female pipe (NPT)	VUHGB-141DN-L	4.82(122.4)	7.24(184)	extension body type for insulation clearance

※ : Getting ready. Begin to sell it soon.

Manifold Valves Ordering Number Selection

Request for Quotation & Purchase Order (For attachment)

of the under within the limit indicates, and as attachment data at the time of a request for proposal or order, etc., please utilize after copying this page.

V U TW - 1 41 L V DN × FL - BN - EMC - GR - BL
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

- | | |
|--|---|
| ① Series | V: New V-Series |
| ② Wetted Part (Body) Material | U: Stainless steel
M: Monel |
| ③ Valve Basic Structure | TW: 2-Valve Manifolds
T : 3-Valve Manifolds
(However, in the item of ⑦, when you choose "V", two Vent Valves are added and it is set to 5-Valve Manifolds.) |
| ④ Inlet Connections | 1: Thread Type
2: Flange Type |
| ⑤ Design Pressure | 41: Design Pressure 6000psig (413bar) |
| ⑥ Bonnet Lock Structure | L: Bonnet; Lock Plate Type (not apply to EMC type)
(Blank): Bonnet; Pin Lock Type |
| ⑦ with Vent Valve | V: 5-Valve Manifolds (add two vent valves to 3-Valve Manifolds)
(Blank): 3-Valve Manifolds |
| ⑧ Inlet Connections | DN: Nominal Diameter 1/2 in. female pipe (NPT)
EN: 3/4 in. female pipe (NPT) |
| ⑨ Outlet connections
(Since various connections are available, please consult us.) | (Blank): Same as Inlet Connections
XFL: Flange
XBN: Thread Size (refer to ⑦) |
| ⑩ Vent Port Connections
(Since various connections are available, please consult us.) | (Blank): Same as Inlet Connections
AN: Bleed connection; 1/8 in. female pipe (NPT)
BN: Bleed connection for bleed valve; 1/4 in. female pipe (NPT)
DN: 1/2 in. female pipe (NPT)
B : Rc1/4 |
| ⑪ Body Form Supplement | (Blank): Standard Product
EMC: Direct Mount Compact Type
EME: Anti Tamper Handle Type (Small Bonnet Mount Type)
In the case that outlet connection is flange (⑨: XFL) and EME, EMC Type, Body should be Direct Mount Type. |
| ⑫ Packing Material | (Blank): PTFE Packing (Standard)
GR: Graphite Packing (In the case that outlet connecting is Flange, accessory gasket also should be graphite.) |
| ⑬ Blind | (Blank): Standard (no Blind)
BL: with Vent Port Blind |

Manifold Valves Ordering Number Selection

V - **41** × - - - -
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

Please put a check mark "✓" into either following check box ☐.

☐ Estimate Request for Quotation

☐ Order

Please indicate quantity either following check box ☐.

Q'ty pcs.

Q'ty pcs.