

Specifications

Model M2 - V

Type: Two Valve Manifold, Remote Mount - Vertical port

inlet, outlet and bottom vent / test connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

PTFE:

Pressure vs Temperature Rating

6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil: 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections: Process x Instrument x Vent

1/2" FNPT x 1/2"FNPT x 1/4" FNPT

Features: Two valve manifolds combines an isolation, calibration, test and venting

of instruments in a single block. By incorporating all these functions, considerable material and installation cost saving will be made. The manifold is designed for use with pressure transmitters, pressure gauges,

pressure switches and similar pressure measurement equipment. Mounting holes are provided for two 5/16" bolt (not supplied).

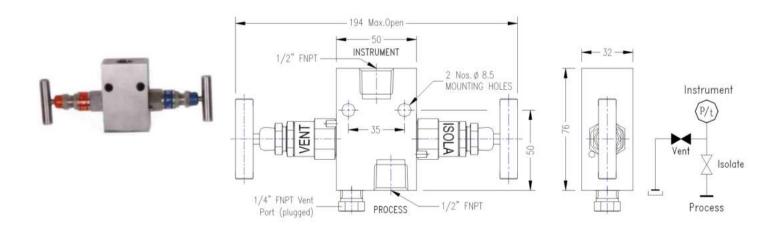
Notes: All valves are 100% pressure tested.

Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated.

Stainless Steel valves have natural finish. Approximate. valve weight - 1.0 kg



Specifications

Model M2 - VF

Type: Two Valve Manifold, Remote Mount - Vertical port

inlet, outlet and front vent / test connections.

Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel. Material

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil: 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections: Process x Instrument x Vent

1/2" FNPT x 1/2"FNPT x 1/4" FNPT

Features: Two valve manifolds combines an isolation, calibration, test and venting

> of instruments in a single block. By incorporating all these functions, considerable material and installation cost saving will be made. The manifold is designed for use with pressure transmitters, pressure gauges,

pressure switches and similar pressure measurement equipment. Mounting holes are provided for two 1/4" bolts (not supplied).

Notes: All valves are 100% pressure tested.

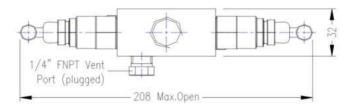
> Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

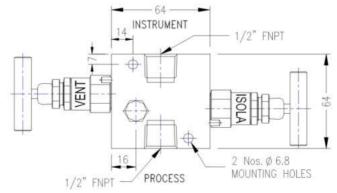
Carbon Steel valves are zinc plated and dichromated..

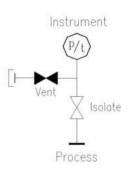
Stainless Steel valves have natural finish. Approximate valve weight - 1.0 kg.

For Ordering please refer our Ordering Information.









مت لوک (کیش) HYDRO PNEUMATICS PVT. LTD.

Specifications

Model M2 - AZ

Type: Two Valve Manifold, Angle Remote Mount - Horizontal

port inlet, outlet and bottom vent / test connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temp erature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil: 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel

Connections: Process x Instrument x Vent

1/2" FNPT x 1/2"FNPT x 1/4" FNPT

Features: Two valve manifolds combines an isolation, calibration, test and venting

of instruments in a single block. By incorporating all these functions, considerable material and installation cost saving will be made. The manifold is designed for use with pressure transmitters, pressure gauges,

pressure switches and similar pressure measurement equipment.

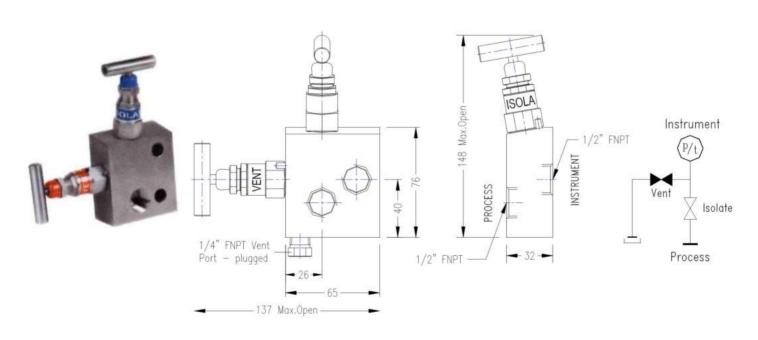
Notes: All valves are 100% pressure tested.

Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated.

Approximate. valve weight - 1.3 kg



Specifications

Model M2 - L

Type: Two Valve Manifold, Remote Mount - Horizontal or

Vertical port inlet, outlet and vent / test connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil: 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections: Process x Instrument x Vent

1/2" FNPT x 1/2"FNPT x 1/4" FNPT

Features: Two valve manifolds combines an isolation, calibration, test and venting

of instruments in a single block. By incorporating all these functions, considerable material and installation cost saving will be made. The manifold is designed for use with pressure transmitters, pressure gauges,

pressure switches and similar pressure measurement equipment. Mounting holes are provided for two 5/16" bolts (not supplied).

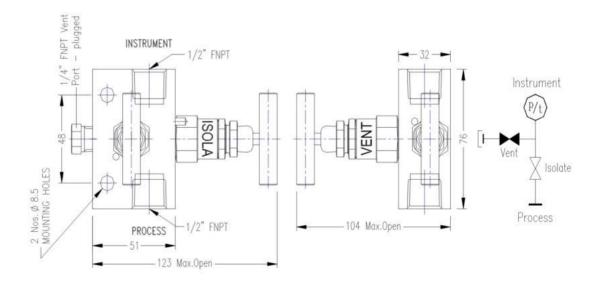
Notes: All valves are 100% pressure tested.

Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated..

Stainless Steel valves have natural finish. Approximate. valve weight - 1.0 kg



Specifications

Model M2 - AL

Type: Two Valve Manifold, Angle Remote Mount - Horizontal or

Vertical port inlet, outlet and vent / test connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil: 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections: Process x Instrument x Vent

1/2" FNPT x 1/2"FNPT x 1/4" FNPT

Features: Two valve manifolds combines an isolation, calibration, test and venting

of instruments in a single block. By incorporating all these functions, considerable material and installation cost saving will be made. The manifold is designed for use with pressure transmitters, pressure gauges,

pressure switches and similar pressure measurement equipment. Mounting holes are provided for two 1/4" bolts (not supplied).

Notes: All valves are 100% pressure tested.

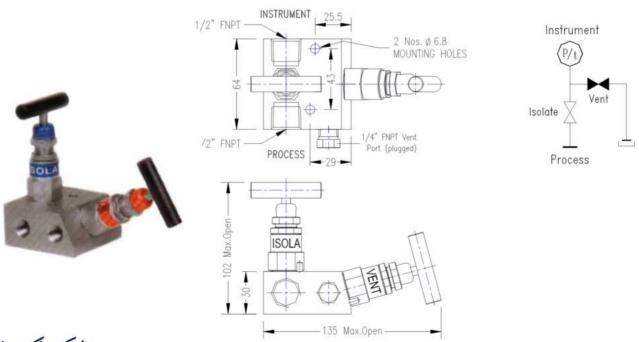
Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated.

Approximate, valve weight - 1.0 kg

For Ordering please refer our Ordering Information.



Specifications

Model M2 - LI

Type: Two Valve Manifold, Remote Mount - Valves on top,

Horizontal or Vertical port inlet, outlet and vent /

test connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

4000 PSI @ 500 ° F - 276 bar @ 260 ° C

Graphoil: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

1500 PSI @ 1000 ° F - 103 bar @ 537 ° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections: Process x Instrument x Vent

1/2" FNPT x 1/2"FNPT x 1/4" FNPT

Features: Two valve manifolds combines an isolation, calibration, test and venting

of instruments in a single block. By incorporating all these functions, considerable material and installation cost saving will be made. The manifold is designed for use with pressure transmitters, pressure gauges,

pressure switches and similar pressure measurement equipment. Mounting holes are provided for two 1/4" bolts (not supplied).

Notes: All valves are 100% pressure tested.

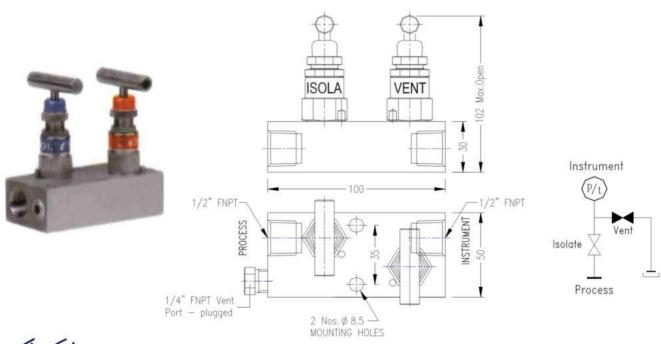
Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated.

Approximate. valve weight - 1.2 kg

For Ordering please refer our Ordering Information.



Specifications

Connections:

Model M2 - L - PTM

Type: Two Valve Manifold, Remote Mount - Horizontal or Vertical

port inlet, outlet and vent / test connections - PT Manifold.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

4000 PSI @ 500 ° F - 276 bar @ 260 ° C

Graphoil : 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

1500 PSI @ 1000 ° F - 103 bar @ 537 ° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Process x Instrument x Vent
1/2" FNPT x 1/2"FNPT x 1/2" FNPT

1/2" FNPT x 1/2"FNPT x 1/4" FNPT

Features: Two valve manifolds combines an isolation, calibration, test and venting

of instruments in a single block. By incorporating all these functions, considerable material and installation cost saving will be made. The manifold is designed for use with pressure transmitters, pressure gauges,

pressure switches and similar pressure measurement equipment. Mounting holes are provided for two 1/4" bolts.(not supplied)

Notes: All valves are 100% pressure tested.

0.187-inch (4.8 mm) diameter orifice.

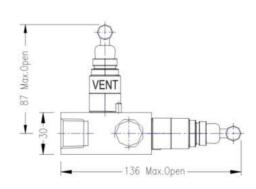
Valve Cv - 0.52 maximum.

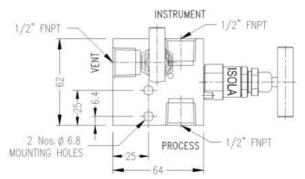
Carbon Steel valves are zinc plated and dichromated..

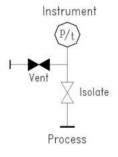
Stainless Steel valves have natural finish. Approximate. valve weight - 0.9 kg.

For Ordering please refer our Ordering Information.









Specifications

Model M2 - 3L

Type: Two Valve (3 Way) Manifold, Remote Mount - Horizontal

or Vertical port inlet, outlet and vent / test connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball : SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

4000 PSI @ 500 ° F - 276 bar @ 260 ° C

Graphoil: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

1500 PSI @ 1000 ° F - 103 bar @ 537 ° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections: Process x Instrument x Vent

1/2" FNPT x 1/2"FNPT x 1/2" FNPT 1/2" FNPT x 1/2"FNPT x 1/4" FNPT 1/2" NB SW x 1/2"NB SW x 1/2" FNPT 1/2" NB SW x 1/2"NB SW x 1/4" FNPT

Type: I (Straight) - Process inline with gauge and drain/vent at right angle.

II (Angle) - Gauge inline with drain/vent and process at right angle.

Features: Two valve manifolds combines an isolation, calibration, test and venting

of instruments in a single block. By incorporating all these functions, considerable material and installation cost saving will be made. The manifold is designed for use with pressure transmitters, pressure gauges,

pressure switches and similar pressure measurement equipment.

Optional: Three piece gauge union for direct mounting and positioning of gauge

can be supplied to order seperately.

Notes: All valves are 100% pressure tested.

0.187-inch (4.8 mm) diameter orifice.

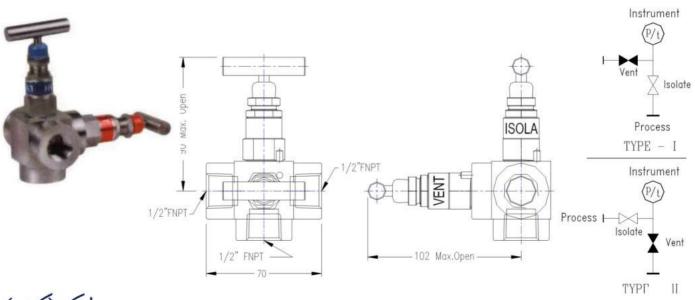
Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated..

Stainless Steel valves have natural finish.

Approximate. valve weight - 1.2 kg

For Ordering please refer our Ordering Information.



Specifications

Model M2 - XW

Type: Two Valve Manifold, Direct Mount - Flange inlet,

threaded port outlet and bottom vent / test connections.

Material -Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastellov, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE:

6000 PSI @ 200 ° F - 413 bar @ 93 ° C 4000 PSI @ 500 ° F - 276 bar @ 260 ° C

Graphoil: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

1500 PSI @ 1000 ° F - 103 bar @ 537 ° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections: Process x Instrument x Vent

Flange x 1/2"FNPT x 1/4" FNPT

Features: Two valve manifolds combines an isolation, calibration, test and venting

> of instruments in a single block. By incorporating all these functions, considerable material and installation cost saving will be made. The manifold is designed for use with pressure transmitters, pressure gauges,

pressure switches and similar pressure measurement equipment. Mounting holes are provided for two 1/4" bolts (not supplied).

Notes: All valves are 100% pressure tested.

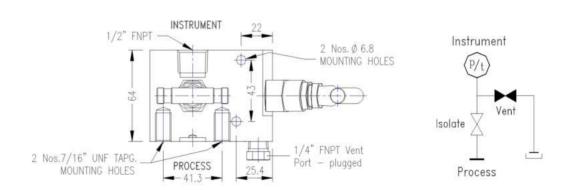
> Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

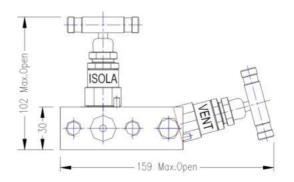
Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated..

Stainless Steel valves have natural finish. Approximate. valve weight - 1.5 kg

For Ordering please refer our Ordering Information.





Specifications

Model M2 - XT

Type: Two Valve Manifold, Direct Mount - Horizontal port inlet,

Instrument flange outlet and bottom vent / test connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil: 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections: Process x Instrument x Vent

1/2" FNPT x Flange x 1/4" FNPT

Acessories: One PTFE seal rings & Two 7/16" UNF HT. Steel mounting bolts.

Features: Two valve manifolds combines an isolation, calibration, test and venting

of instruments in a single block. By incorporating all these functions, considerable material and installation cost saving will be made. The manifold is designed for use with pressure transmitters, pressure gauges,

pressure switches and similar pressure measurement equipment.

Notes: All valves are 100% pressure tested.

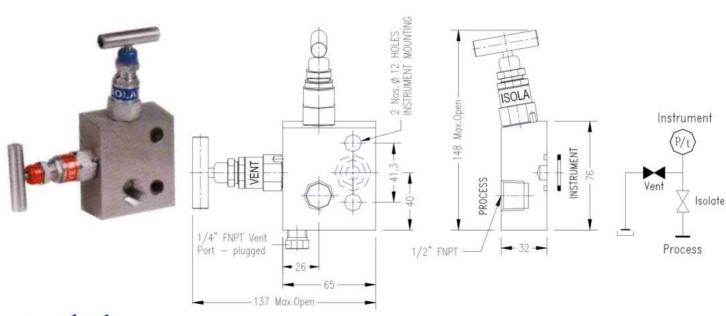
Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated..

Stainless Steel valves have natural finish.

Approximate. valve weight - 1.3 kg



Specifications

Model M2 - T

Type: Two Valve Manifold, Direct Mount - T block,

threaded inlet, instrument flange outlet and

side vent / test connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball : SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

4000 PSI @ 500 ° F - 276 bar @ 260 ° C

Graphoil: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

1500 PSI @ 1000 ° F - 103 bar @ 537 ° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections: Process x Instrument x Vent

1/2" FNPT x Flanged x 1/4" FNPT

Acessories: One PTFE seal rings & Two 7/16" UNF HT. Steel mounting bolts.

Features: Two valve manifolds combines an isolation, calibration, test and venting

of instruments in a single block. By incorporating all these functions, considerable material and installation cost saving will be made. The manifold is designed for use with pressure transmitters, pressure gauges,

pressure switches and similar pressure measurement equipment.

Notes: All valves are 100% pressure tested.

Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

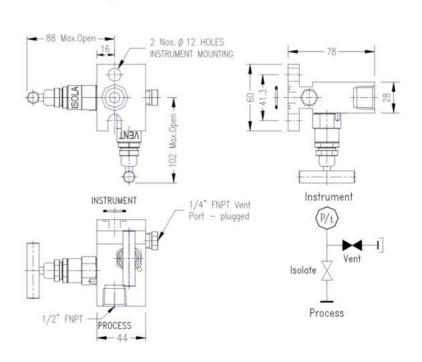
Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated..

Stainless Steel valves have natural finish. Approximate. valve weight - 1.5 kg

For Ordering please refer our Ordering Information.





ORDERING INFORMATION - 2 Valve Manifolds

ORDERING CODES	M2 - L - PTM _	Р_	٧ _	ss _
MODEL		\top	\top	\top
M2 - V, M2 - VF, M2 - AZ, M2 - L, M2 - AL, M2 - LI,				
M2 - L - PTM, M2 - L - PTM 4, M2 - 3L - I, M2 - 3L - II,				
M2 - 3L - 4 - I, M2 - 3L - 4 - II, M2 - 3L - SW - I,				
M2 - 3L - SW - II, M2 - 3L - SW - 4 - I, M2 - 3L - SW - 4 - II,				
M2 - XW, M2 - XT, M2 - T				
VALVE SEAT				
STEM PACKING				
MATERIAL				」
OPTIONS				

ORDERING EXAMPLE - M2 - L - PTM - P - V - SS

Model	Туре	Connection s - Process x Instrument x Vent
M2 - V	Two Valve Manifold, Remote Mount - Vertical port inlet, outlet and bottom vent / test connections	1/2"FNPT x 1/2"FNPT x 1/4"FNPT
M2 - VF	Two Valve Manifold, Remote Mount - Vertical port inlet, outlet and front vent / test connections.	1/2"FNPT x 1/2"FNPT x 1/4"FNPT
M2 - AZ	Two Valve Manifold, Angle - Remote Mount - Horizontal port inlet, outlet and bottom vent / test connections.	1/2"FNPT x 1/2"FNPT x 1/4"FNPT
M2 - L	Two Valve Manifold, Remote Mount - Horizontal or Vertical port inlet, outlet and vent / test connections.	1/2"FNPT x 1/2"FNPT x 1/4"FNPT
M2 - AL	Two Valve Manifold, Angle - Remote Mount - Horizontal or Vertical port inlet, outlet and vent / test connections.	1/2"FNPT x 1/2"FNPT x 1/4"FNPT
M2 - LI	Two Valve Manifold, Remote Mount - Valves on top, Horizontal or Vertical port inlet, outlet and vent / test connections.	1/2"FNPT x 1/2"FNPT x 1/4"FNPT
M2 - L - PTM M2 - L - PTM - 4	Two Valve Manifold, Remote Mount - Horizontal or Vertical port inlet, outlet and vent / test connections - PT Manifold	1/2"FNPT x 1/2"FNPT x 1/2"FNPT 1/2"FNPT x 1/2"FNPT x 1/4"FNPT
M2 - 3 L - I * / II * M2 - 3 L - 4 - I * / II *	Two Valve (3 Way) Manifold, Remote Mount - Horizontal or Vertical port inlet,	1/2"FNPT x 1/2"FNPT x 1/2"FNPT 1/2"FNPT x 1/2"FNPT x 1/4"FNPT
M2 - 3 L - SW - I * / II * M2 - 3 L - SW - 4 - I * / II *	outlet and vent / test connections - Type - I & Type - II	1/2"NB SW x 1/2"NB SW x 1/2"FNPT 1/2"NB SW x 1/2"NB SW x 1/4"FNPT
M2 - XW	Two Valve Manifold, Direct Mount - Flange inlet, threaded port outlet and bottom vent / test connections.	FL x 1/2"FNPT x 1/4"FNPT
M2 - XT	Two Valve Manifold, Direct Mount - Horizontal port inlet, instrument flange outlet and bottom vent / test connections.	1/2"FNPT x FL x 1/4"FNPT
M2 - T	Two Valve Manifold, Direct Mount - T block, threaded inlet, instrument flange outlet and side vent / test connections.	1/2"FNPT x FL x 1/4"FNPT

I * : Type I (Straight) - Process inline with gauge and drain / vent at rig ht angle II ** : Type II (Angle) - Gauge inline with drain / vent and process at right angle.



ORDERING INFORMATION - 2 Valve Manifolds

Valve Type

M2 - Two Valve Manifolds

Body Style

V - Vertical

Z - Horizontal

L - Vertical / Horizontal

A - Valve Angle

F - Front Vent / Drain

I - Valve on top

X - Flat Body

W - Flange x Threaded

T - Threaded x Flange

Code	Valve Hard Seat	
Р	Plug Seat - Standard	
В	Ball Seat - Optional	

Code	Stem Packing
V	Teflon (PTFE) - Standard
G	Graphoil

Code	Material	
CS	A 105 CS	
S	SS 304	
SS	SS 316	
Н	Hastelloy	
ML	Monel	

Code	Options
SG	Sour Gas meets the requirement of NACE MR-01-75
36	lastest revisions. (SS valves only)
ОС	Clean for Oxygen Service
SP	Special requirements - please specify.

Note: Standard Connections

Threaded - NPT to ANSI/ASME B1-20 .1

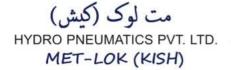
Other Connections

Threaded - BSP Taper to BSP Taper to BS 21

- BSP Parallel to BS 2779

Socket Weld - (SW) - To ASME B16.11

Please consult the sales office for availability.



Specifications

Model M3 - S

Type: Three Valve Manifold, Remote Mount - Threaded

port inlet, outlet and vent / test connections

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil: 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C Thread Size Range : 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections : Process x Instrument x Vent

1/2" FNPT x 1/2"FNPT x 1/4" FNPT

1/2" FNPT x 1/2"FNPT

Process and Instrument ports are both on 54 mm (2.125") centres.

Features: Three valve manifolds are used in conjunction with differential pressure

transmitters. They combine instrument isolation and equalizing in one block resulting in lower installation costs. The manifold designs have facilities for remote mounting to instrument in any selected position to

process line and transmitters. Mounting holes are provided.

Notes: All valves are 100% pressure tested.

Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

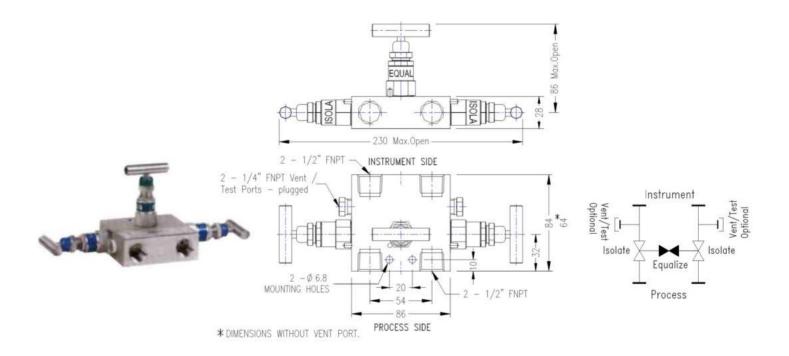
Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated.

Stainless Steel valves have natural finish.

Approximate. valve weight - 1.9 kg with vent

- 1.6 kg without vent



Specifications

Model M3 - IXT

Type: Three Valve Manifold, Direct Mount - Valves In-Line on

the top is angled, threaded port inlet, instrument flange

outlet and vent / test connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil : 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections: Process x Instrument x Vent (Optional)

1/2" FNPT x Flange x 1/4" FNPT

Flanged to transmitter for direct mounting to instrument

on 54 mm (2.125") on centres.

Acessories: Two PTFE seal rings & Four 7/16" UNF HT. Steel mounting bolts.

Features: Three valve manifolds are used in conjunction with differential pressure

transmitters. They combine instrument isolation and equalizing in one

transmitters. They combine instrument isolation and equalizing in one block resulting in lower installation costs. The manifold designs have facilities for direct mounting to differential pressure transmitters.

Base mounting holes are provided for M10 x 1.5 bolts.

Notes: All valves are 100% pressure tested.

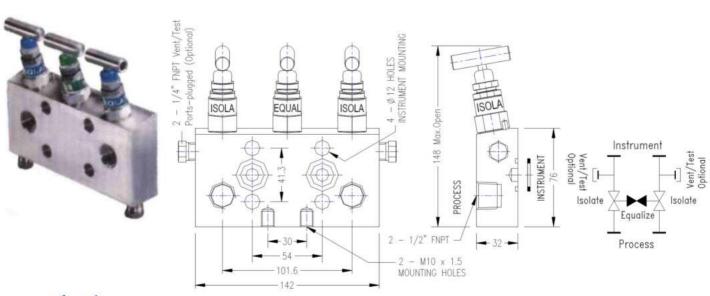
Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated.

Stainless Steel valves have natural finish.

Approximate. valve weight - 2.8 kg



Specifications

Model M3 - XT

Type : Three Valve Manifold, Direct Mount - Equalize valve

on the top is angled, threaded port inlet and instrument

flange outlet connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil: 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections : Process x Instrument

1/2" FNPT x Flange

Flanged to transmitter for direct mounting to instrument

on 54 mm (2.125") on centres.

Acessories: Two PTFE seal rings & Four 7/16" UNF HT. Steel mounting bolts.

Features: Three valve manifolds are used in conjunction with differential pressure

transmitters. They combine instrument isolation and equalizing in one block resulting in lower installation costs. The manifold designs have facilities for direct mounting to differential pressure transmitters.

Base mounting holes are provided for M8 x 1.25 bolts.

Notes: All valves are 100% pressure tested.

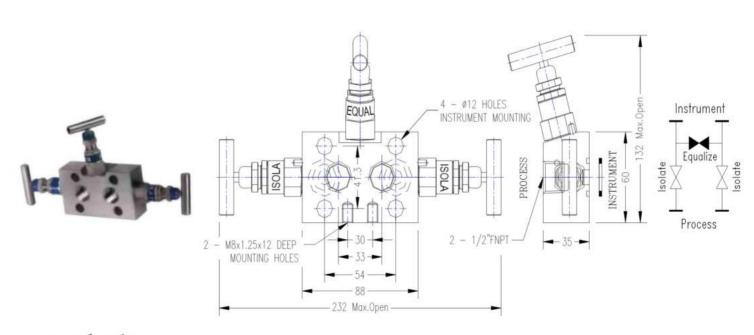
0.187-inch (4.8 mm) diameter orifice.

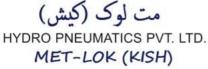
Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated.

Stainless Steel valves have natural finish.

Approximate. valve weight - 1.7 kg





Specifications

Model M3 - T

Type : Three Valve Manifold, Direct Mount - T block,

threaded port inlet, instrument flange outlet

and vent / test connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil : 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections : Process x Instrument x Vent

1/2" FNPT x Flange x 1/4" FNPT

Flanged to transmitter for direct mounting to instrument

on 54 mm (2.125") on centres.

Acessories: Two PTFE seal rings & Four 7/16" UNF HT. Steel mounting bolts.

Features: Three valve manifolds are used in conjunction with differential pressure

transmitters. They combine instrument isolation and equalizing in one block resulting in lower installation costs. The manifold designs have facilities for direct mounting to differential pressure transmitters.

Mounting holes are provided.

Notes: All valves are 100% pressure tested.

Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

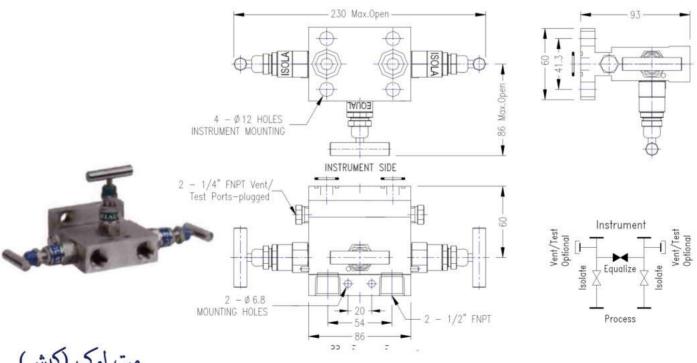
Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated.

Stainless Steel valves have natural finish.

Approximate. valve weight - 2.0 kg

For Ordering please refer our Ordering Information.



Specifications

Model M3 - XH

Type: Three Valve Manifold, Direct Mount - Equalize

valve on the top is angled, process flange inlet and instrument flange oulet connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastellov, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil: 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Size Range: Standard Transmitter Flange

Connections: Process x Instrument

Flange x Flange

Flanged to transmitter for direct mounting to instrument

on 54 mm (2.125") on centres. Flanged to process to connections.

Acessories: Two PTFE seal rings & Four 7/16" UNF HT. Steel mounting bolts.

Features : Three valve manifolds are used in conjunction with differential pressure

transmitters. They combine instrument isolation and equalizing in one block resulting in lower installation costs. The manifold designs have facilities for direct mounting to differential pressure transmitters.

Base mounting holes are provided for M10 x 1.5 bolts.

Notes: All valves are 100% pressure tested.

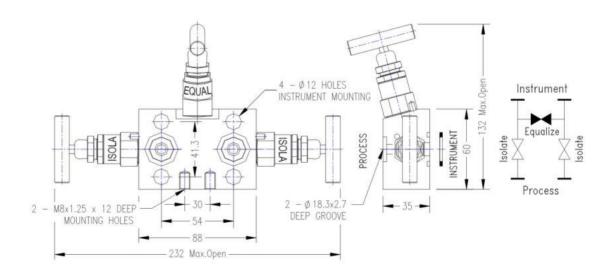
0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated.

Stainless Steel valves have natural finish.

Approximate. valve weight - 1.7 kg



Specifications

Model M3 - H

Type: Three Valve Manifold, Direct Mount - H block,

process flange inlet, instrument flange oulet

and vent / test connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil : 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Size Range: Standard Transmitter Flange
Connections: Process x Instrument x Vent

Flange x Flange x 1/4" FNPT

Flanged to transmitter for direct mounting to instrument

on 54 mm (2.125") on centres. Flanged to process to connections

Acessories: Two PTFE seal rings & Four 7/16" UNF HT. Steel mounting bolts.

Features: Three valve manifolds are used in conjunction with differential pressure

transmitters. They combine instrument isolation and equalizing in one block resulting in lower installation costs. The manifold designs have

facilities for direct mounting to differential pressure transmitters.

Mounting holes are provided.

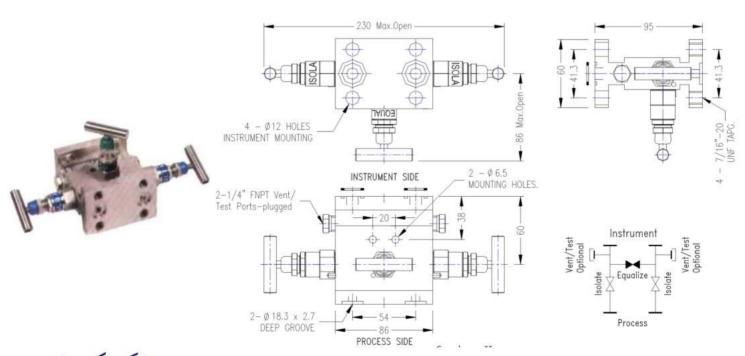
Notes: All valves are 100% pressure tested.

Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated.

Stainless Steel valves have natural finish. Approximate. valve weight - 2.1 kg



ORDERING INFORMATION -3 Valve Manifolds

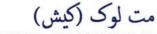
ORDERING CODES	M3 - IXT	P	 ss
MODEL			
M3 - S, M3 - S4, M3 - IS, M3 - IXT,			
M3 - XT, M3 -T, M3 - XH, M3 - H	<u> </u>		
VALVE SEAT			
STEM PACKING			
MATERIAL			_
OPTIONS			

ORDERING EXAMPLE - M3-IXT-P-V-SS

Model	Туре	Connections - Process x I nstrument x Vent
M3 - S	Three Valve Manifold, Remote Mount - Threaded port inlet, outlet and vent / test connections.	1/2"FNPT x 1/2"FNPT x 1/4"FNPT
M2 - S4	Three Valve Manifold, Remote Mount - Threaded 1/4" FNPT port inlet, outlet and vent / test connections.	1/4"FNPT x 1/4"FNPT x 1/4"FNPT
M3 - IS	Three Valve Manifold, Remote Mount - Valve In - Line on the top, threaded port inlet, outlet and vent / test connections.	1/2"FNPT x 1/2"FNPT x 1/4"FNPT
M3 - IXT	Three Valve Manifold, Direct Mount - Valve In - Line on the top is angled, threaded port inlet, instrument flange outlet and vent / test connections.	1/2"FNPT x Flange x 1/4"FNPT
M3 - XT	Three Valve Manifold, Direct Mount - Equalize valve on the top is angled, threaded port inlet and instrument flange oulet connections.	1/2"FNPT x Flange
M3 - T	Three Valve Manifold, Direct Mount - T block, threaded port inlet, instrument flange outlet and vent / test connections.	1/2"FNPT x Flange x 1/4"FNPT
M3 - XH	Three Valve Manifold, Direct Mount - Equalize valve on the top is angled, process flange inlet and instrument flange outlet connections.	Flange x Flange
M3 - H	Three Valve Manifold, Direct Mount - H bock, process flange inlet, instrument flange outlet and vent / test connections.	Flange x Flange x 1/4"FNPT

Valve Type

M3 - Three Valve Manifolds



--- 21

ORDERING INFORMATION -3 Valve Manifolds

Body Style

S - Screwed - Process, Instrument and Vent / Drain Connections

4 - Screwed - 1/4"FNPT Process, Instrument and Vent / Drain Connections

I - Valve In - Line on the Top

X - Flat Body

T - Threaded x Flange

H - Flange x Flange

Code	Valve Hard Seat	
Р	Plug Seat - Standard	
В	Ball Seat - Optional	

Code	Stem Packing
V	Teflon (PTFE) - Standard
G	Graphoil

Code	Material	
CS	A 105 CS	
S	SS 304	
SS	SS 316	
Н	Hastelloy	
ML	Monel	

Code	Options
PX	Blind Plug
SG	Sour Gas meets the requirement of NACE MR-01-75
36	lastest revisions. (SS valves only)
ОС	Clean for Oxygen Service
SP	Special requirements - please specify.

Note: Standard Connections

Threaded - NPT to ANSI/ASME B1-20 .1

Other Connections

Threaded - BSP Taper to BSP Taper to BS 21

- BSP Parallel to BS 2779

Socket Weld - (SW) - To ASME B16.11

Please consult the sales office for availability.

Specifications

Model M5 - S1

Type: Five Valve Manifold, Remote Mount - Threaded

port inlet, outlet and vent / test connections

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil: 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000 ° F - 103 bar @ 537 ° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections: Process x Instrument x Vent

1/2" FNPT x 1/2"FNPT x 1/4" FNPT

Process and Instrument ports are both on 54 mm (2.125") centres.

Features: Five valve manifolds are used in combination with differential pressure

transmitters provided isolation, equalizing and drain / test functions. The manifold allows operators to isolate, zero adjust the instrument and safely drain any trapped medium. The drain ports can also be used as test or calibration connections after draining operation has be completed.

Base mounting holes are provided for 2 nos. M8 x 1.25 bolts

Notes: All valves are 100% pressure tested.

Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

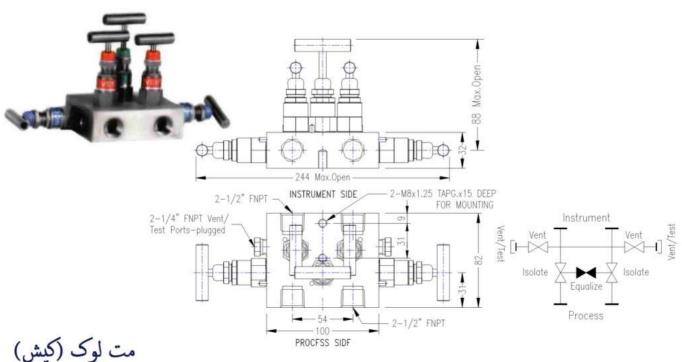
Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated.

Stainless Steel valves have natural finish.

Approximate. valve weight - 2.5 kg

For Ordering please refer our Ordering Information.



Specifications

Model M5 - S2

Type : Five Valve Manifold, Remote Mount - Threaded

port inlet, outlet and vent / test connections

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C Graphoil : 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections: Process x Instrument x Vent

1/2" FNPT x 1/2"FNPT x 1/4" FNPT

Process and Instrument ports are both on 54 mm (2.125") centres.

Features: Five valve manifolds are used in combination with differential pressure

transmitters provided isolation, equalizing and drain / test functions. The manifold allows operators to isolate, zero adjust the instrument and safely drain any trapped medium. The drain ports can also be used as test or calibration connections after draining operation has be completed.

Mounting holes are provided.

Notes: All valves are 100% pressure tested.

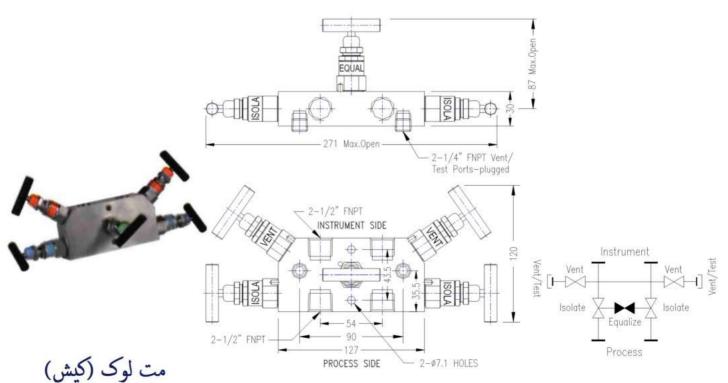
Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated.

Stainless Steel valves have natural finish. Approximate. valve weight - 2.3 kg

For Ordering please refer our Ordering Information.



Specifications

Model M5 - IXT

Type : Five Valve Manifold, Direct Mount - Isolation, equalize

valves In - Line on the top is angled and vent valves are on the sides, threaded port inlet, instrument flange outlet

and vent / test connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C Graphoil : 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections : Process x Instrument x Vent 1/2" FNPT x Flange x 1/4" FNPT

Flanged to transmitter for direct mounting to instrument

on 54 mm (2.125") on centres.

Acessories: Two PTFE seal rings & Four 7/16" UNF HT. Steel mounting bolts.

Features: Five valve manifolds are used in combination with differential pressure

transmitters provided isolation, equalizing and drain / test functions. The manifold allows operators to isolate, zero adjust the instrument and safely drain any trapped medium. The drain ports can also be used as test or calibration connections after draining operation has be completed. The manifold designs have facilities for direct mounting to differential

pressure transmitters. Base mounting holes are provided for M10 x 1.5 bolts.

Notes: All valves are 100% pressure tested.

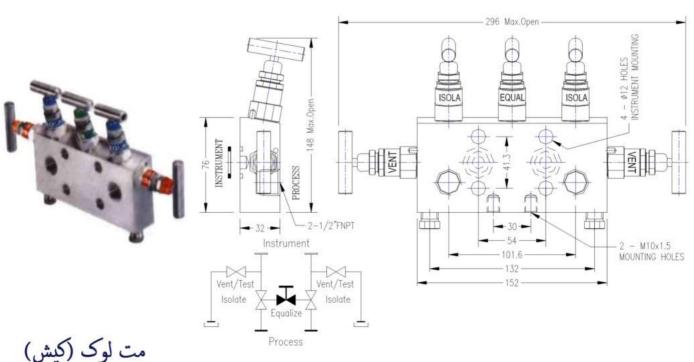
Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated.

Approximate. valve weight - 3.0 kg

For Ordering please refer our Order ing Information.



Specifications

Model M5 - T

Type: Five Valve Manifold, Direct Mount - T block,

threaded port inlet, instrument flange outlet and

vent / test connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C 4000 PSI @ 500° F - 276 bar @ 260° C Graphoil: 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Thread Size Range: 1/4" - 1/2" NPT (Standard), BSP-Taper / Parallel.

Connections: Process x Instrument x Vent

1/2" FNPT x Flange x 1/4" FNPT

Flanged to transmitter for direct mounting to instrument

on 54 mm (2.125") on centres.

Acessories: Two PTFE seal rings & Four 7/16" UNF HT. Steel mounting bolts.

Features: Five valve manifolds are used in combination with differential pressure

transmitters provided isolation, equalizing and drain / test functions. The manifold allows operators to isolate, zero adjust the instrument and safely drain any trapped medium. The drain ports can also be used as test or calibration connections after draining operation has be completed. The manifold designs have facilities for direct mounting to differential

pressure transmitters. Mounting holes are provided.

Notes: All valves are 100% pressure tested.

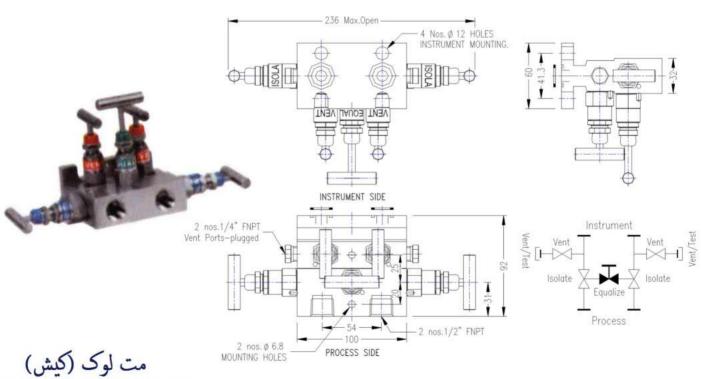
Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated.

Approximate. valve weight - 2.8 kg

For Ordering please refer our Ordering Information.



Specifications

Model M5 - H

Type: Five Valve Manifold, Direct Mount - H block, process flange inlet, instrument flange outlet

and vent / test connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil.

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C 4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil : 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Size Range : Standard Transmitter Flange Connections : Process x Instrument x Vent

Flange x Flange x 1/4" FNPT

Flanged to transmitter for direct mounting to instrument

on 54 mm (2.125") on centres.

Acessories: Two PTFE seal rings & Four 7/16" UNF HT. Steel mounting bolts. Features: Five valve manifolds are used in combination with differential pressure

transmitters provided isolation, equalizing and drain / test functions. The manifold allows operators to isolate, zero adjust the instrument and safely drain any trapped medium. The drain ports can also be used as test or calibration connections after draining operation has be completed. The manifold designs have facilities for direct mounting to differential

pressure transmitters. Mounting holes are provided.

Notes: All valves are 100% pressure tested.

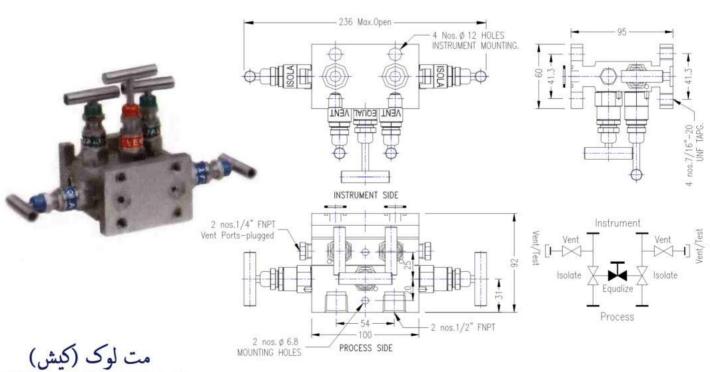
Vent port fitted with a plug as standard. 0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated.

Approximate. valve weight - 3.2 kg

For Ordering please refer our Ordering Information.



ORDERING INFORMATION -5 Valve Manifolds

ORDERING CODES	M5 - IXT _ P _ V _ SS _
MODEL	
M5 - S1, M5 - S2, M5 - IS, M5 - MM,	
M5 - IXT, M5 -T, M5 - H	
VALVE SEAT	
STEM PACKING	
MATERIAL	
OPTIONS	

ORDERING EXAMPLE - M5 - IXT - P - V - SS

Model	Туре	Connections - Process x I nstrument x Vent
M5 - S1	Five Valve Manifold, Remote Mount - Threaded port inlet, outlet and vent / test connections	1/2"FNPT x 1/2"FNPT x 1/4"FNPT
M5 - S2	Five Valve Manifold, Remote Mount - Threaded port inlet, outlet and vent / test connections	1/2"FNPT x 1/2"FNPT x 1/4"FNPT
M5 - IS	Five Valve Manifold, Remote Mount - Isolation, equalize valves In - Line on the top and vent valves are on the sides, threaded port inlet, outlet and vent / test connections.	1/2"FNPT x 1/2"FNPT x 1/4"FNPT
M5 - MM	Five Valve Miniature Manifold, Remote Mount - Threaded 1/4" FNPT port inlet, outlet and vent / test connections	1/4"FNPT x 1/4"FNPT x 1/4"FNPT
M5 - IXT	Five Valve Manifold, Direct Mount - Isolation, equalize valves In - Line on the top is angled and vent valves are on the sides, threaded port inlet instrument flange outlet and vent / test connections.	1/2"FNPT x 1/2"FNPT x1/4"FNPT
M5 - T	Five Valve Manifold, Direct Mount - T block, threaded port inlet, instrument flange outlet and vent / test connections.	1/2"FNPT x Flange x 1/4"FNPT
M5 - H	Five Valve Manifold, Direct Mount - H block, process flange inlet, instrument flange outlet and vent / test connections.	Flange x Flange x 1/4"FNPT

Valve Type

M5 - Five Valve Manifolds

Body Style

S - Screwed - Process, Instrument and Vent / Drain Connections

1 - Type - 1

2 - Type - 2

I - Valve In - Line on the Top

MM - Miniature Manifold

X - Flat Body

T - Threaded x Flange

H - Flange x Flange



NEEDLE VALVES - Female End Connections ~ Hard Seat

Specifications

Model NV

Type: Hand Valve (Screwed Bonnet Needle Valve)

Female End Connections~ Hard Seat

Material - Body. A105 CS, A 479 SS 304, A 479 SS 316, Hastealloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200 F - 413 bar @ 93 C

4000 PSI @ 500 F - 276 bar @ 260 C

Graphoil: 6000 PSI @ 200 F - 413 bar @ 93 C

1500 PSI @ 1000 F - 103 bar @ 537 C

Thread Size Range: 1/8" - 1" NPT or BSP-Taper / Parallel.

Features & Benefits: The Hand Valve Series haspacking below threads, are designed

for safe, repetitive bubble - tight closure, simple maintenance, and a long, trouble - free life. A free - swiveling plug / ball end stem is

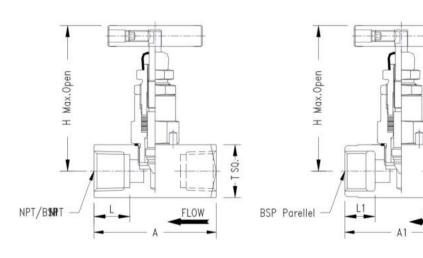
incorporated for bubble-tight closure.

Notes: All valves are 100% pressure tested.

Carbon Steel valves are zinc plated and dichromated.

Stainless Steel valves have natural finish.





INLET x OUTLET Female x Female	ORIFICE mm - inch	Cv	E	Α	L1	Α1	T SQ.	Н	WEIGHT Kg. (Approx.)
1/8" x 1/8"	3.5 - 0.138	0.25	10.4	50	10.0	48	25	85	0.300
1/4" x 1/4"	4.8 - 0.187	0.52	15.0	60	12.0	52	25	85	0.320
3/8" x 3/8"	4.8 - 0.187	0.52	15.0	60	14.0	56	25	85	0.310
1/2" x 1/2"	6.4 - 0.250	0.86	19.8	70	16.0	60	28	87	0.380
3/4" x 3/4"	8.0 - 0.312	1.2	20.6	74	18.0	70	35	118	0.600
1" × 1"	8.0 - 0.312	1.2	25.4	84	20.0	76	41	121	0.950

NEEDLE VALVES - Male x Female/Male x Male End Connections ~ Hard Seat

Specifications

Model NV

Type: Hand Valve (Screwed Bonnet Needle Valve) -

Male x Female / Male x Male End Connections ~ Hard Seat

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil: 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Thread Size Range: 1/8" - 1" NPT or BSP-Taper / Parallel.

Features & Benefits: The Hand Valve Series has packing below threads, are designed

for safe, repetitive bubble - tight closure, simple maintenance, and a long, trouble - free life. A free - swiveling plug / ball end stem is

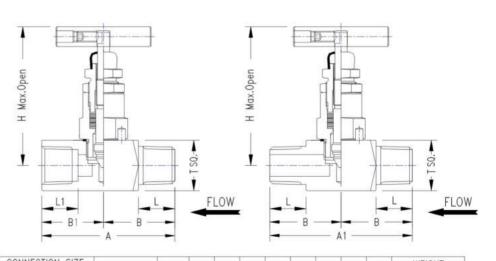
incorporated for bubble-tight closure.

Notes: All valves are 100% pressure tested.

Carbon Steel valves are zinc plated and dichromated.

Stainless Steel valves have natural finish.





INLET x C	UTLET emale	ORIFICE mm – inch	Cv	L	L1	А	A1	В	B1	T SQ.	Н	WEIGHT Kg. (Approx.) M x F/M x M
1/8" x 1	/8"	3.5 - 0.138	0.25	9.7	10.4	55	60	30	25	25	85	0.330 / 0.360
1/4" x 1	/4"	4.8 - 0.187	0.52	14.3	15.0	65	70	35	30	25	85	0.350 / 0.380
3/8" x 3	/8"	4.8 - 0.187	0.52	14.3	15.0	65	70	35	30	25	85	0.340 / 0.370
1/2" x 1	/2"	6.4 - 0.250	0.86	19.1	19.8	75	80	40	35	28	87	0.430 / 0.500
3/4" x 3	/4"	8.0 - 0.312	1.2	19.1	20.6	80	86	43	37	35	118	0.660 / 0.760
1" x	1"	8.0 - 0.312	1.2	23.9	25.4	90	96	48	42	41	121	1.110 / 1.250

NEEDLE VALVES - Tube End Connections

Specifications

Model NV

Type: Hand Valve (Screwed Bonnet Needle Valve)-

Tube End Connections ~ Hard Seat

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil: 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Size Range: 1/8" - 1/2" Tube OD / 3mm - 12mm Tube OD

Features & Benefits: The Hand Valve Series haspacking below threads , are designed

for safe, repetitive bubble - tight closure, simple maintenance, and a long, trouble - free life. A free - swiveling plug / ball end stem is

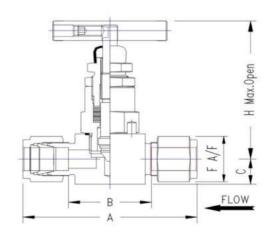
incorporated for bubble-tight closure.

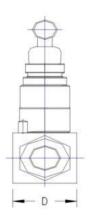
Notes: All valves are 100% pressure tested.

Carbon Steel valves are zinc plated and dichromated...

Stainless Steel valves have natural finish.







CONNECTION SIZE INLET × OUTLET TUBE OD × TUBE OD	ORIFICE mm — inch	Cv	A	В	С	D	F A/F	Н	WEIGHT Kg. (Approx.)
1/8" x 1/8" 3mm x 3mm	2.0 - 0.080	0.09	55	29	12,5	25	11	85	0.280
1/4" x 1/4" 6mm x 6mm	3.2 - 0.125	0.21	60	29	12.5	25	14	85	0.300
8mm x 8mm	4.8 - 0.187	0.52	65	31	12.5	25	16	85	0.320
3/8" x 3/8" 10mm x 10mm	4.8 - 0.187	0.52	70	36	12.5	25	17 19	85	0.340
1/2" x 1/2" 12mm x 12mm	6.4 - 0.250	0.73	80	34	14	28	22	87	0.450

ORDERING INFORMATION - Needle Valves ~ Hard Seat

ORDERING CODES	NV	_ 8	F _	_ N _	Ρ.	_ V _	ss _	
HAND VALVE - NV Female Ends, Male Ends, Male x Female Ends, Female x Male Ends & Tube Ends. SIZE			T	T	T	T		
CONNECTIONS -Inlet x Oulet								
THREAD								
VALVE SEAT								
STEM PACKING								
MATERIAL								
OPTIONS								

ORDERING EXAMPLE - NV-8 F-N-P-V-SS - NV-8 T-P-V-SS

Code	Size (INCH)			
2	1/8 "	8	1/2 "	
4	1/4 "	12	3/4 "	
6	3/8 "	16	1"	

Code	Connection - Outlet	x Inlet	
F	Female x Female	F/M	Female x Male
М	Male x Male	T	Tube
ME	Male y Female	For Motrio	Tube Size denote m

For Metric Tube Size denote m with Tube Size - eg.12m for 12 mm Tube OD

Code	Thread Type
N	NPT - Standard
Rx	BSP Taper
Rp	BSP Parrallel

Note	:	Standard	Connections
		Threaded	- NPT to ANS

Threaded - NPT to ANSI/ASME B1-20 .1 Other Connections

Threaded - BSP Taper to BS 21 - BSP Parallel to BS 2779

Code	Valve Hard Seat
Р	Plug Seat - Standard
В	Ball Seat - Optional

Please	consult	the	sales	office	for	availability.
--------	---------	-----	-------	--------	-----	---------------

Code	Stem Packing
V	Teflon (PTFE) - Standard
G	Graphoil

Code	Material	
CS	A 105 CS	
S	SS 304	
SS	SS 316	
Н	Hastelloy	
ML	Monel	

Code	Options
SG	Sour Gas meets the requirement of NACE MR-01-75 lastest revisions. (SS valves only)
OC	Clean for Oxygen Service
SP	Special requirements - please specify.

ANGLE NEEDLE VALVES - Screwed End Connections ~ Hard Seat

Specifications

Model ANV

Type: Angle Hand Valve (Screwed Bonnet Angle Needle

Valve) - Screwed End Connections ~ Hard Seat

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastealloy, Monel.

Plug / Ball : SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing : PTFE (standard), Graphoil

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

4000 PSI @ 500 ° F - 276 bar @ 260 ° C

Graphoil : 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

1500 PSI @ 1000 ° F - 103 bar @ 537 ° C

Thread Size Range :

1/4" - 1" NPT or BSP-Taper / Parallel.

Connections :

Inlet x Outlet

Female x Female, Male x Female threaded Ends.

Features & Benefits : The Hand Valve Series has packing below threads

for safe, repetitive bubble - tight closure, simple maintenance, and a long, trouble - free life. A free - swiveling plug / ball end stem is

incorporated for bubble-tight closure.

The 90 deg. Angle needle valve offer high pressure bubble-tight sealing in a compact body allowing pipe work origination to change

by 90 degree at the valve.

Notes:

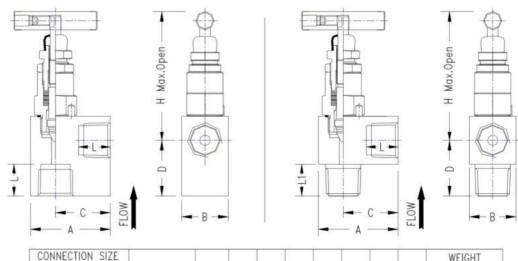
All valves are 100% pressure tested.

Carbon Steel valves are zinc plated and dichromated..

Stainless Steel valves have natural finish.

For Ordering please refer our Ordering Information.





CONNECTION SIZE INLET x OUTLET Female x Female Male x Female	ORIFICE mm – inch	Cv	L	L1	Α	В	С	D	Н	WEIGHT Kg. (Approx.) F x F/M x F
1/4" x 1/4"	4.8 - 0.187	0.52	15.0	14.3	42	25	29	27	85	0.370 / 0.270
3/8" x 3/8"	4.8 - 0.187	0.52	15.0	14.3	42	25	29	27	85	0.400 / 0.310
1/2" x 1/2"	6.4 - 0.250	0.86	19.8	19.1	48	28	34	34	87	0.520 / 0.370
3/4" x 3/4"	8.0 - 0.312	1.2	20.6	19.1	55	35	37	37	118	0.740 / 0.530
1" x 1"	8.0 - 0.312	1.2	25.4	23.9	63	41	42	44	121	1.120 / 0.780

مت لوک (کیش)

ANGLE NEEDLE VALVES - Tube End Connections ~ Hard Seat

Specifications

Model ANV

Type: Angle Hand Valve (Screwed Bonnet Angle Needle

Valve) - Tube End Connections ~ Hard Seat

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200 F - 413 bar @ 93 C

4000 PSI @ 500 F - 276 bar @ 260 C

Graphoil: 6000 PSI @ 200 F - 413 bar @ 93 C

1500 PSI @ 1000 F - 103 bar @ 537 C

Size Range: 1/8 " - 1/2 " Tube OD / 3 mm - 12 mm Tube OD

Features & Benefits: The Hand Valve Series haspacking below threads, are designed

for safe, repetitive bubble - tight closure, simple maintenance, and a long, trouble - free life. A free - swiveling plug / ball end stem is

incorporated for bubble-tight closure.

The 90 deg. Angle needle valve offer high pressure bubble-tight sealing in a compact body allowing pipe work origination to change

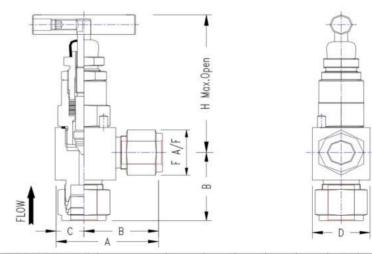
by 90 degree at the valve.

Notes: All valves are 100% pressure tested.

Carbon Steel valves are zinc plated and dichromated..

Stainless Steel valves have natural finish.

For Ordering please refer our Ordering Information.



CONNECTION SIZE INLET x OUTLET TUBE OD x TUBE OD	ORIFICE mm - inch	Cv	A	В	С	D	F A/F	Н	WEIGHT Kg. (Approx.)
1/8" x 1/8" 3mm x 3mm	2.0 - 0.080	0.09	36	23	13	25	11	85	0.250
1/4" x 1/4" 6mm x 6mm	3.2 - 0.125	0.21	43	30	13	25	14	85	0.300
8mm x 8mm	4.8 - 0.187	0.52	46	33	13	25	16	85	0.330
3/8" x 3/8" 10mm x 10mm	4.8 - 0.187	0.52	48	35	13	25	17 19	85	0.350
1/2" x 1/2" 12mm x 12mm	6.4 - 0.250	0.73	54	40	14	28	22	87	0.450



MET-LOK (KISH)

ORDERING INFORMATION

ORDERING CODES	ANV _ 8	F _ N	_ P _	V _ C	s _
Angle Needle Valve - ANV Female Ends, Male Ends, Male x Female Ends, Female x Male Ends & Tube Ends. SIZE		TT			
CONNECTIONS - Inlet x Oulet					
THREAD					
VALVE SEAT					
STEM PACKING				_	
MATERIAL					
OPTIONS					

ORDERING EXAMPLE - ANV-8F-N-P-V-CS - ANV-12mT-P-V-CS

Code	Size (INCH)			
2	1/8 "	8	1/2 "	
4	1/4 "	12	3/4 "	
6	3/8 "	16	1"	

Code	Connection - Outle	t x Inlet	
F	Female x Female	F/M	Female x Male
М	Male x Male	T	Tube
M/F	Male x Female	For Metric	Tube Size denotem

For Metric Tube Size denotem with Tube Size - eg.12m for 12 mm Tube OD

Code	Thread Type	5
N	NPT - Standard	
Rx	BSP Taper	
Rp	BSP Parrallel	7

Note:	Standard Connections
	Threaded - NPT to ANSI/ASME B1-20 .1
	Other Connections
	Threaded - BSP Taper to BS 21

- BSP Parallel to BS 277

Code	Valve Hard Seat	
Р	Plug Seat - Standard	
В	Ball Seat - Optional	

Code	Stem Packing	
V	Teflon (PTFE) - Standard	
G	Graphoil	

Code	Material	
CS	A 105 CS	
S	SS 304	
SS	SS 316	
Н	Hastelloy	î
ML	Monel	

			- BSP	Paral	lei	to BS 2779	
Please	consult	the	sales	office	for	availability.	

Code	Options
SG	Sour Gas meets the requirement of NACE MR-01-75 lastest revisions. (SS valves only)
OC	Clean for Oxygen Service
SP	Special requirements - please specify.

NEEDLE VALVES - Screwed End Connections ~ Soft Seat

Specifications

Model SNV

Type: Hand Valve ~ Soft Seat - Female End Connections

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Stem: SS 316 cold rolled surface, one-piece

rotating stem and plug.

Stem Packing: PTFE

Seat: Delrin (Standard) / PTFE

Pressure vs Temperature Rating

Delrin : 6000 PSI @ 200 ° F - 413 bar @ 93 ° C PTFE : 1000 PSI @ 150 ° F - 69 bar @ 78 ° C

Thread Size Range : 1/4" - 1/2" NPT or BSP-Taper / Parallel.

Orifice Size / Cv : 0.187-inch (4.8 mm) diameter / Cv - 0.83

0.250-inch (6.4 mm) diameter / Cv - 1.40

Features & Benefits : The Soft Seated Hand valve Series are designed for maximum system

reliability. The design criteria includes repetitive bubble - tight closure,

safety, and a long, trouble - free life with easy maintenance.

Gene-tech utilizes a replaceable soft seat that gives premium tightness at closure, even in dirty service. The valve's straight throught rising plug design provides good regulation and high capacity bi-directional flow,

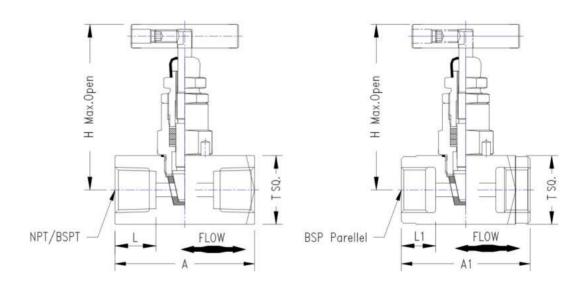
and is also roddable for easy cleaning.

Notes: All valves are 100% pressure tested.

Carbon Steel valves are zinc plated and dichromated.

Stainless Steel valves have natural finish.

For Ordering please refer our Ordering Information.



CONNECTION SIZE INLET x OUTLET Female x Female	L	А	L1	A1	TSQ.	Н	WEIGHT Kg. (Approx.)
1/4" x 1/4"	15.0	60	12.0	54	32	86	0.500
3/8" x 3/8"	15.0	60	14.0	58	32	86	0.500
1/2" x 1/2"	19.8	70	16.0	62	32	86	0.600

ORDERING INFORMATION - Needle Valves - Screwed End Connections ~ Soft Seat

ORDERING CODES	SNV	. 8	F_	N _	2 _	_ D _	ss _	
Soft Seated Hand Valve - SNV	\top	\top	\top	T	T	\top	T	\top
그렇게 되는 아이들 아이들이 가지면 하지 않는 아이들이 아니는 그렇게 하는 것이 없었다면 하지 않는 것이 없다면 하지 않는 것이 없다면 하지 않는 것이 없다면 하지 않는 것이다면 하지 않다면								
Female Ends & Tube Ends.								
SIZE								
CONNECTIONS - Inlet x Oulet								
THREAD								
ORIFICE SIZE								
VALVE SOFT SEAT - Material								
MATERIAL								
OPTIONS								

ORDERING EXAMPLE - SNV - 8 F - N - 2 - D - SS - SNV - 12 T - 2 - D - SS

Code	Size (INCH)
4	1/4 "
6	3/8 "
8	1/2 "

Code	Connection - Outlet x Inlet
F	Female x Female
М	Male x Male
M/F	Male x Female
T	Tube

Code	Thread Type
N	NPT - Standard
Rx	BSP Taper
Rp	BSP Parrallel

Code	Orifice Size
1	4.8 diameter
2	6.4 diameter

Code	Valve Soft Seat - Material
D	Delrin - Standard
Р	PTFE - Optional

Code	Stem Packing
	Teflon (PTFE) - Standard

Code	Material
CS	A 105 CS
S	SS 304
SS	SS 316
Н	Hastelloy
ML	Monel

For Metric Tube Size denote m with Tube Size - eg. 12m for 12 mm Tube OD

Note: Standard Connections

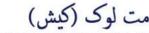
Threaded - NPT to ANSI/ASME B1-20 .1

Other Connections

Threaded - BSP Taper to BS 21

- BSP Parallel to BS 2779

Code	Options
SG	Sour Gas meets the requirement of NACE MR-01-75 lastest revisions. (SS valves only)
ОС	Clean for Oxygen Service
SP	Special requirements - please specify.



MINI VALVES - Screwed End Connections

Specifications

Model MV

Type: Mini - Valve (Screwed Bonnet)

Female End Connections

Material - Body : A105 CS, A 479 SS 304, A 479 SS 316, Brass,

Hastelloy, Monel.

Stem: SS 316 cold rolled surface, one-piece rotating,

with 'V' tipped plug for accurated flow control.

Stem Packing : PTFE (standard), Graphoil

Pressure vs Temperature Rating

CS and SS Valves

PTFE: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

4000 PSI @ 500 ° F - 276 bar @ 260 ° C

Graphoil : 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

1500 PSI @ 1000 ° F - 103 bar @ 537 ° C

Brass Valves

PTFE: 3000 PSI @ 200 ° F - 207 bar @ 93 ° C Graphoil: 3000 PSI @ 200 ° F - 207 bar @ 93 ° C

Thread Size Range : 1/8" - 1/2" NPT or BSP-Taper / Parallel.

Features & Benefits : The Mini valves has packing above threads , facilitate

safe, compact, and economical installations. They are excellent for both throttling and straight isolation.

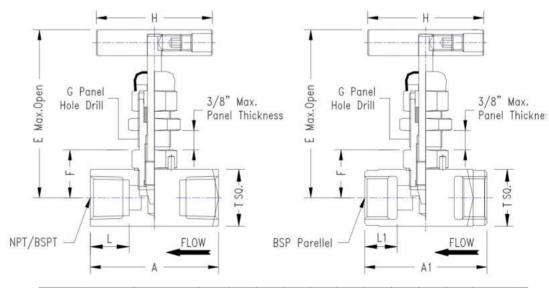
Optional: Panel mounting available.

Notes: All valves are 100% pressure tested.

Carbon Steel valves are zinc plated and dichromated..

Stainless Steel valves have natural finish.

Brass valves have natural finish or are nickel plated.



CONNECTION SIZE INLET x OUTLET Female x Female	ORIFICE mm - inch	Cv	L	Α	L1	Α1	TSQ.	Ε	F	G	Н	WEIGHT Kg. (Approx.)
1/8" x 1/8"	3.2 - 0.125	0.21	10.4	46	10.0	44	22	88	21	16.5	46	0.270
1/4" x 1/4"	4.8 - 0.187	0.42	15.0	56	12.0	50	25	90	22.5	16.5	57	0.350
3/8" x 3/8"	4.8 - 0.187	0.42	15.0	56	14.0	54	25	90	22.5	16.5	57	0.320
1/2" x 1/2"	6.4 - 0.250	0.73	19.8	66	16.0	60	28	92	24	16.5	57	0.410

ORDERING INFORMATION

ORDERING CODES	MV _	8	F	_ N _	٧ _	ss _	
Straight Mini - Valve - MV		T	T	T	T		T
Female Ends, Male Ends, Male x Female End,							
Female x Male End & Tube Ends.							
SIZE		_					
CONNECTIONS - Inlet x Oulet							
THREAD							
STEM PACKING					_		
MATERIAL							
OPTIONS							

ORDERING EXAMPLE - MV - 8 MF - N - V - SS - MV - 12 T - V - SS

Code	Size (INCH)			
2	1/8 "	6	3/8 "	
4	1/4 "	8	1/2 "	

Code	Connection - Outle	t x Inlet	
F	Female x Female	F/M	Female x Male
М	Male x Male	T	Tube
NA/E	Male y Female	For Matric Tube Size denotes	

M/F | Male x Female | For Metric Tube Size denote with Tube Size - eg.12m for 12 mm Tube OD

Code	Code Thread Type	
N	NPT - Standard	
Rx	BSP Taper	
Rp	BSP Parrallel	

Note: Standard Connections
Threaded - NPT to ANSI/ASME B1-20.1
Other Connections

Threaded - BSP Taper to BS 21 - BSP Parallel to BS 2779

Code	Stem Packing
٧	Teflon (PTFE) -Standard
G	Graphoil

Code	Material	
CS	A 105 CS	
S	SS 304	
SS	SS 316	
В	Brass	
Н	Hastelloy	
ML	Monel	

Code	Options
SG	Sour Gas meets the requirement of NACE MR-01-75 lastest revisions. (SS valves only)
PM	Panel Mounting
ОС	Clean for Oxygen Service
SP	Special requirements - please specify.

INTEGRAL BONNET VALVES - Screwed End Connections

Specifications

Model IBV

Type: Integral Bonnet Valves - Screwed End Connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Brass.

Hastelloy, Monel.

Stem : SS 316 cold rolled surface, one-piece rotating,

which is 'V' tipped for accurate flow control.

Stem Packing : PTFE (standard), Graphoil

Pressure vs Temperature Rating

CS and SS Valves

PTFE: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

4000 PSI @ 500 ° F - 276 bar @ 260 ° C

Graphoil: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C 1500 PSI @ 1000 ° F - 103 bar @ 537 ° C

Brass Valves

PTFE: 3000 PSI @ 200 ° F - 207 bar @ 93 ° C

Graphoil: 3000 PSI @ 200 ° F - 207 bar @ 93 ° C

Thread Size Range : 1/8" - 1/2" NPT or BSP-Taper / Parallel.

Features & Benefits : The Integral Bonnet valves facilitate safe, compact,

and economical installations. They are excellent for

both throttling and straight isolation.

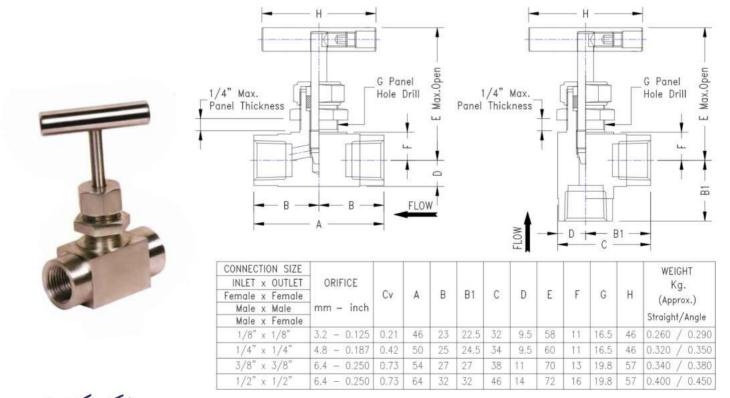
Optional : Panel mounting available.

Notes: All valves are 100% pressure tested.

Carbon Steel valves are zinc plated and dichromated..

Stainless Steel valves have natural finish.

Brass valves have natural finish or are nickel plated.



INTEGRAL BONNET VALVES - Tube End Connections

Specifications

Model IBV

Type: Integral Bonnet Valves - Tube End Connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Brass

Hastelloy, Monel.

Stem: SS 316 cold rolled surface, one-piece rotating,

which is 'V' tipped for accurate flow control.

Stem Packing : PTFE (standard), Graphoil

Pressure vs Temperature Rating

CS and SS Valves

PTFE: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

4000 PSI @ 500 ° F - 276 bar @ 260 ° C

Graphoil : 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

1500 PSI @ 1000 °F - 103 bar @ 537 °C

Brass Valves

PTFE: 3000 PSI @ 200 ° F - 207 bar @ 93 ° C Graphoil: 3000 PSI @ 200 ° F - 207 bar @ 93 ° C

Size Range: 1/8" - 1/2" Tube OD / 3mm - 12mm Tube OD.

Features & Benefits: The Integral Bonnet valves facilitate safe, compact,

and economical installations. They are excellent for

both throttling and straight isolation.

Optional: Panel mounting available.

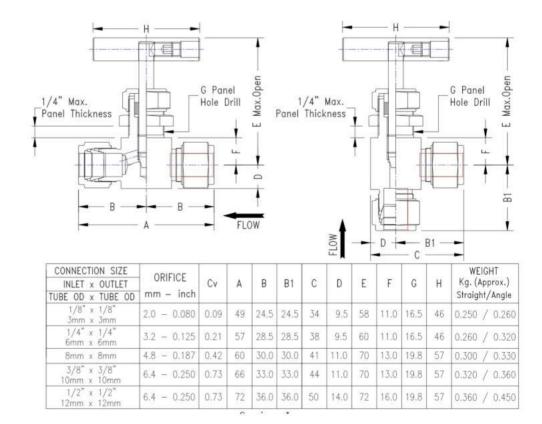
Notes: All valves are 100% pressure tested.

Carbon Steel valves are zinc plated and dichromated...

Stainless Steel valves have natural finish.

Brass valves have natural finish or are nickel plated.





ORDERING INFORMATION

ORDERING CODES Straight Integral Bonnet Valve - IBV Angle Integral Bonnet Valve - AIBV Female Ends, Male Ends, Male x Female End, Female x Male End & Tube Ends. SIZE	IBV	8	F	<u>-</u> -	<u>v</u> - <u>-</u>	ss
CONNECTIONS - Inlet x Oulet						
THREAD						
STEM PACKING]	
MATERIAL]
OPTIONS						

ORDERING EXAMPLE - IBV - 8 MF - N - V - SS - IBV - 12T - V - SS

Code	Size (INCH)			
2	1/8 "	6	3/8 "	
4	1/4 "	8	1/2 "	

Code	Connection - Outle	et x Inlet	
F	Female x Female	F/M	Female x Male
М	Male x Male	Т	Tube OD
M/F	Male y Female	For Metric Tube Size denotes	

For Metric Tube Size denotes with Tube Size - eg.12m for 12 mm Tube OD

Code	Thread Type	
N	NPT - Standard	
Rx	BSP Taper	
Rp	BSP Parrallel	

Note: Standard Connections

Threaded - NPT to ANSI/ASME B1-20 .1

Other Connections

Threaded - BSP Taper to BS 21

- BSP Parallel to BS 2779

Code	Stem Packing	
V	Teflon (PTFE) -Standard	
G	Graphoil	

Code	Material	
CS	A 105 CS	
S	SS 304	
SS	SS 316	
В	Brasss	
Н	Hastelloy	
ML	Monel	

Code	Options
SG	Sour Gas meets the requirement of NACE MR-01-75 lastest revisions. (SS valves only)
PM	Panel Mounting
ОС	Clean for Oxygen Service
SP	Special requirements - please specify.

UNION BONNET VALVES - Screwed End Connections

Specifications

Model UBV

Type: Union Bonnet Valve - Screwed End Connections.

Material - Body A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Stem: SS 316 cold rolled surface, regulating vee

tipped plug for better flow control.

Stem Packing: PTFE (standard), Graphoil

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 208 F - 413 bar @ 93 C

4000 PSI @ 508 F - 276 bar @ 268 C

Graphoil: 6000 PSI @ 200 F - 413 bar @ 93 C

1500 PSI @ 1008 F - 103 bar @ 537 C

Thread Size Range 1/8" - 1" NPT or BSP-Taper / Parallel.

Features & Benefits The Union Bonnet Valves are designed for safe, repetitive

bubble-tight closure and simple maintenance. This valve provides long life and bubble - tight shutoff in severe

operating conditions.

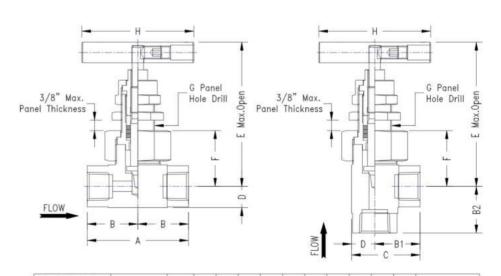
Optional: Panel mounting available.

Notes: All valves are 100% pressure tested.

Carbon Steel valves are zinc plated and dichromated...

Stainless Steel valves have natural finish.





INLET x OUTLET Female x Female Male x Male Male x Female	ORIFICE mm – inch	Cv	A	В	B1	B2	С	D	Ε	F	G	Н	WEIGHT Kg. (Approx.) Straight/Angle
1/8" x 1/8"	4.0 - 0.156	0.35	50	25	23	25	32.5	9.5	78	28	15.1	46	0.300 / 0.280
1/4" x 1/4"	6.4 - 0.250	0.86	57	28.5	25	28.5	38	13	98	34	19.8	64	0.450 / 0.350
3/8" x 3/8"	6.4 - 0.250	0.86	57	28.5	25	28.5	38	13	98	34	19.8	64	0.430 / 0.320
1/2" x 1/2"	9.5 - 0.375	1.8	76	38	34	38	50	16	124	46	26.2	90	0.800 / 0.650
3/4" x 3/4"	9.5 - 0.375	1.8	82	41	-	-	-	19	124	50	26.2	90	1.000 / -
1" x 1"	9.5 - 0.375	1.8	90	45	8-0	-	-	25	130	54	26.2	90	1.600 / -

UNION BONNET VALVES - Socket Weld Connections

Specifications

Model UBV

Type: Union Bonnet Valve - Socket Weld End Connections.

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Stem: SS 316 cold rolled surface, regulating vee

tipped plug for better flow control.

Stem Packing: PTFE (standard), Graphoil

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil: 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000° F - 103 bar @ 537° C

Size Range: 1/4" OD - 1/2" OD Tube Socket Weld

1/4" NB - 1" NB Pipe Socket Weld

Features & Benefits: The Union Bonnet Valves are designed for safe, repetitive

bubble-tight closure and simple maintenance. This valve provides long life and bubble - tight shutoff in severe

operating conditions.

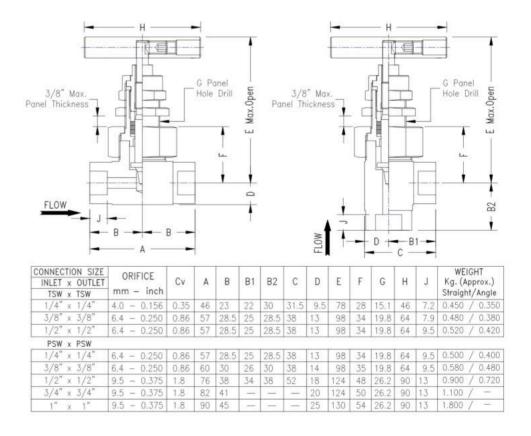
Optional: Panel mounting available.

Notes: All valves are 100% pressure tested.

Carbon Steel valves are zinc plated and dichromated..

Stainless Steel valves have natural finish.





ORDERING INFORMATION

ORDERING CODES Straight Union Bonnet Valve - UBV Angle Union Bonnet Valve - AUBV Female Ends, Male Ends, Male x Female End, Female x Male End, Tube Ends, Tube Socket Weld Ends & Pipe Socket Weld Ends. SIZE	<u></u>	8 PSW	 T
CONNECTIONS - Inlet x Oulet			
THREAD			
STEM PACKING			
MATERIAL			
OPTIONS			

ORDERING EXAMPLE - UBV - 8 F - N - V - CS - UBV - 6mmT - V - CS

- UBV - 8 PSW - V - CS

Code	Size (INCH)			
2	1/8 "	8	1/2 "	
4	1/4 "	12	3/4 "	
6	3/8 "	16	1"	

Code	Connection - Outlet	x Inlet	
F	Female x Female	Т	Tube OD
М	Male x Male	TSW	Tube Socket Weld
M/F	Male x Female	PSW	Pipe Socket Weld
F/M	Female x Male	For Metric	Tube Size denote m v

For Metric Tube Size denote m with Tube Size - eg.12m for 12 mm Tube OD

Code	Thread Type
N	NPT - Standard
Rx	BSP Taper
Rp	BSP Parrallel

Note: Standard Connections

Threaded - NPT to ANSI/ASME B1-20 .1

Other Connections

Threaded - BSP Taper to BS 21

- BSP Parallel to BS 2779

Code	Stem Packing
V	Teflon (PTFE) - Standard
G	Graphoil

Code	Material	
CS	A 105 CS	
S	SS 304	
SS	SS 316	
Н	Hastelloy	
ML	Monel	

Code	Options
PM	Panel Mounting
SG	Sour Gas meets the requirement of NACE MR-01-75 lastest revisions. (SS valves only)
OC	Clean for Oxygen Service
SP	Special requirements - please specify.

MULTI - PORT GUAGE VALVES ~ Hard Seat

Specifications

Model MPV

Type: Multi - Port Gauge Valve ~ Hard Seat

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

4000 PSI @ 500 ° F - 276 bar @ 260 ° C

Graphoil: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

1500 PSI @ 1000 ° F - 103 bar @ 537 ° C

Connections: Inlet x Outlet

1/2" MNPT x (3) 1/2" FNPT 3/4" MNPT x (3) 1/2" FNPT 1/2"NB Butt Weld x (3) 1/2" FNPT 3/4"NB Butt Weld x (3) 1/2" FNPT

Features: Muti-port gauge valves allowing the versatile positioning of gauges or

pressure switches without requiring additional penetration of the main piping. The standard configuration has a male or female inlet and three 1/2" FNPT outlet ports. All valves with male inlet connections are available threaded or prepared for welding and either standard

or extended inlets.

Optional: Vent and blanking plug can be supplied to order seperately.

Notes: All valves are 100% pressure tested.

0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

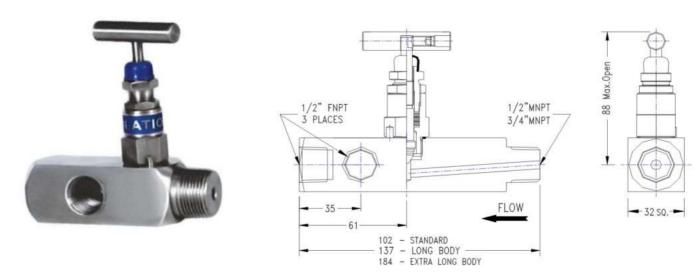
Carbon Steel valves are zinc plated and dichromated..

Stainless Steel valves have natural finish.

Approximate valve weight - Standard - 0.800 kg.

Long - 1.100 kg.

- Extra Long - 1.400 kg.



BLOCK AND BLEED VALVES ~ Hard Seat

Specifications

Model

BBV

Type:

Block and Bleed Gauge Valve ~ Hard Seat

Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil

Pressure vs Temperature Rating

OTEE .

6000 PSI @ 200° F - 413 bar @ 93° C

4000 PSI @ 500° F - 276 bar @ 260° C

Graphoil: 6000 PSI @ 200° F - 413 bar @ 93° C

1500 PSI @ 1000 F - 103 bar @ 537 C

Connections:

Inlet x Outlet

1/2" MNPT x 1/2" FNPT 3/4" MNPT x 1/2" FNPT 1/2" MNPT x 1/2" MNPT 3/4" MNPT x 1/2" MNPT 1/2" FNPT x 1/2" FNPT

Features:

Block and bleed gauge valve is specifically designed to facilitate safe,

compact and economical gauge installation. These valve enables pressure to be safely vented without breaking threaded connections.

Notes:

All valves are 100% pressure tested. 0.187-inch (4.8 mm) diameter orifice.

o. for inch (4.5 min) diameter

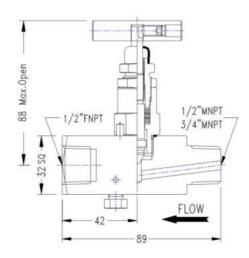
Valve Cv - 0.52 maximum.

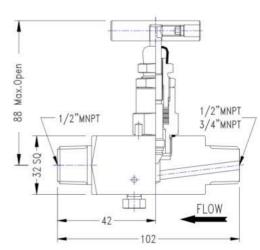
Carbon Steel valves are zinc plated and dichromated..

Stainless Steel valves have natural finish. Approximate. valve weight - 0.600 kg

For Ordering please refer our ordering Information.







مت لوک (کیش) HYDRO PNEUMATICS PVT. LTD. MET-LOK (KISH)

DOUBLE BLOCK AND BLEED VALVES ~ Hard Seat

Specifications

Model DBBV

Type: Double Block and Bleed Gauge Valves ~ Hard Seat Material - Body: A105 CS, A 479 SS 304, A 479 SS 316, Hastelloy, Monel.

Plug / Ball: SS 316

Stem: SS 316 cold rolled surface, back seat & rotating

with free swivel plug / ball type seat.

Stem Packing: PTFE (standard), Graphoil

Pressure vs Temperature Rating

PTFE: 6000 PSI @ 200 ° F - 413 bar @ 93 ° C

4000 PSI @ 500 ° F - 276 bar @ 260 ° C

Graphoil : 6000 PSI @ 200 $^{\circ}$ F - 413 bar @ 93 $^{\circ}$ C

1500 PSI @ 1000 ° F - 103 bar @ 537 ° C

Connections: Inlet x Outlet

1/2" FNPT x 1/2" MNPT 1/2" MNPT x 1/2" MNPT 1/2" MNPT x 1/2" FNPT 3/4" MNPT x 1/2" FNPT

Features: Two Valve Block and Bleed Gauge Valves are single oulet gauge

valves that combine isolating, calibrating and venting facilities in a single compact unit. These valves enable gauges, pressure transmitters or switches to be reliably installed and serviced, by reducing potential leak points. The vent port is threaded 1/4"FNPT on all valves and fitted with a plug. This facilitates installation of exhaust piping / tubing on hazardous services, which in turn

contributes to operator safety.

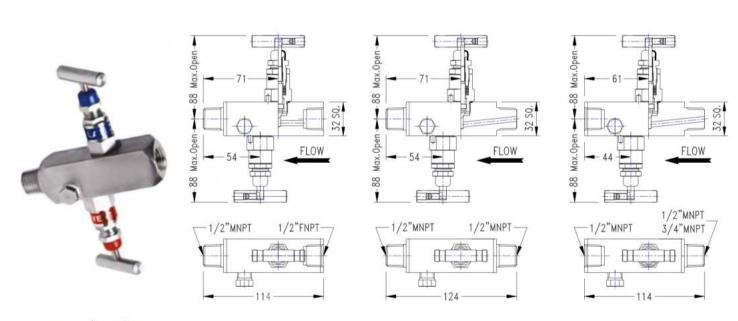
Notes: All valves are 100% pressure tested.

0.187-inch (4.8 mm) diameter orifice.

Valve Cv - 0.52 maximum.

Carbon Steel valves are zinc plated and dichromated..

Stainless Steel valves have natural finish. Approximate. valve weight - 1.250 Kg



ORDERING INFORMATION

ORDERING CODES	MPV	12-8	M/F _	N	Р.	_ V _	SS	20
Multi - Port Guage V alve - MPV Block & Bleed V alve - BBV		T	T	T	T	T	T	T
Double Block & Bleed V alve - DBBV								
SIZE								
CONNECTIONS - Inlet x Oulet								
THREAD								
VALVE SEAT								
STEM PACKING								
MATERIAL								
OPTIONS								

ORDERING EXAMPLE - MPV - 12 - 8M/F - N - P - V - SS

Code	Size (INCH)
8	1/2"
12	3/4"

Code	Connection - Inlet x Outlet						
M/F	Male x Female	F	Female x Female				
М	Male x Male	F/M	Female x Male				
M/F - L	Male x Female - Long body (Only for MPV)						
M/F - EL	Male x Female - Extra Long body (Only for MPV)						
BW/F	Butt Weld End x Female (Only for MPV)						
BW/F - L	Butt Weld End x Female - LONG BODY(Only for MPV)						
BW/F - EL	Butt Weld End x Female - EXTRA LONG BODY(Only for MPV)						

Code	Thread Type	
N	NPT	
Rx	BSPT	
Rp	BSP Parrallel	

Code	Valve Hard Seat
Р	Plug Seat - Standard
В	Ball Seat - Optional

Code	Stem Packing
V	Teflon (PTFE) - Standard
G	Graphoil
	Crapiton

Code	Material	
CS	A 105 CS	
S	SS 304	
SS	SS 316	
Н	Hastelloy	
ML	Monel	

Note: Standard Connections

Threaded - NPT to ANSI/ASME B1-20 .1

Other Connections

Threaded - BSP Taper to BS 21

- BSP Parallel to BS 2779

Code	Options	
SG	Sour Gas meets the requirement of NACE MR-01-75 lastest revisions. (SS valves only)	
ОС	Clean for Oxygen Service	
SP	Special requirements - please specify.	

Instrument - Monoflange - Double Block & Bleed

Specifications

Type: 1st Isolate: O.S.& Y. / 2nd Isolate: Needle / Vent: Needle

Features & Benefits ANSI B16.5 flanged inlet conections

1 / 2" to 2" sizes 150 lb rated to 2500 lb rated.

Raised face and ring type joint flange style.

1 / 2" NPT(Female) standard outlet.

1 / 4" NPT(Female) standard vent.

One piece forged construction flange

Standard material of construction

SS ASTM A 182 F

NOTE: ALSO AVAILABLE IN OTHER COMBINATION.

SINGLE BLOCK & BLEED

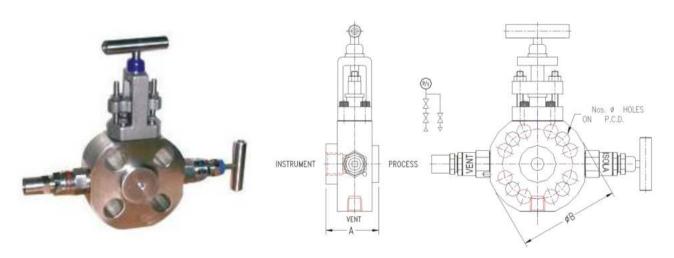
1st ISOLATE:O.S.&Y. / VENT: NEEDLE DOUBLE BLOCK

1st ISOLATE: O.S.&Y. / 2nt: NEEDLE

? SINGLE BLOCK

1st ISOLATE: O.S.&Y.

SIZE	RATING Ib	Α	øΒ	SIZE	RATING Ib	Α	øΒ	SIZE	RATING Ib	Α	øΒ
1/2"	150	45	88.9	3/4"	150	45	98.4	1"	150	50	108
1/2"	300	45	95.2	3/4"	300	45	117.5	1"	300	50	123.8
1/2"	600	50	95.2	3/4"	600	55	117.5	1"	600	55	123.8
1/2"	900/1500	50	120.7	3/4"	900/1500	55	130.2	1"	900/1500	55	149.2
1/2"	2500	55	133.4	3/4"	2500	55	139.7	1"	2500	55	158.8
SIZE	RATING Ib	Α	øΒ	SIZE	RATING Ib	Α	øΒ				
1.1/2"	150	50	127	2"	150	50	152.4				
1,1/2"	300	50	155.6	2"	300	50	165.1				
1.1/2"	600	55	155.6	2"	600	55	165.1				
1.1/2"	900/1500	60	177.8	2"	900/1500	60	215.9				
1.1/2"	2500	60	203.2	2"	2500	60	235				



HYDRO PNEUMATICS PVT. LTD. MET-LOK (KISH)

Instrument - Slimline

Specifications

Model

Type: Slimline

Description Double Block & Bleed - Flanged x threaded

1st Isolate : Ball/2nd Isolate:Ball/Vent : Needle

Standard Feature: 1/2" to 2" NB flanges (15 to 50 DN)

ANSI B16.5 flanges connections. 150 lb rated to 2500 lb rated.

Raised face and ring type joint flange style.

½" NPT(Female) stanard outlet. ½"NPT(Female) Standard vent. Standard material of construction.

SS ASTM A 181 F316/F316L, CS ASTM A LF2/A 105

Duplex ASTM A 182 F 51.

Optional material:

Super Duplex, Monel, Hastelloy, 6 mo, Incoloy

NOTE: ALSO AVAILABLE IN OTHER COMBINATION

DOUBLE BLOCK & BLEED

1st ISOLATE:BALL / 2nd ISOLATE:NEEDLE / VENT:NEEDLE

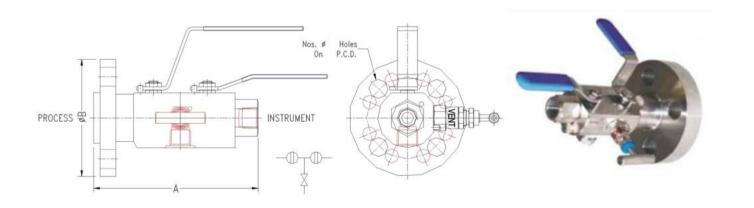
SINGLE BLOCK & BLEED

1st ISOLATE:BALL / VEVT:NEEDLE

DOUBLE BLOCK

1st ISOLATE:BALL / 2nd ISOLATE:NEEDLE

SIZE	RATING Ib	Α	øΒ	SIZE	RATING Ib	А	øΒ	SIZE	RATING Ib	Α	øΒ
1/2"	150	165	88.9	3/4"	150	165	98.4	1"	150	165	108
1/2"	300	165	95.2	3/4"	300	165	117.5	1"	300	165	123.8
1/2"	600	165	95.2	3/4"	600	165	117.5	1"	600	165	123.8
1/2"	900/1500	175	120.7	3/4"	900/1500	180	130.2	1"	900/1500	180	149.2
1/2"	2500	175	133.4	3/4"	2500	190	139.7	1"	2500	190	158.8
SIZE	RATING Ib	Α	øΒ	SIZE	RATING Ib	Α	øВ				
1.1/2"	150	165	127	2"	150	165	152.4				
1.1/2"	300	165	155.6	2"	300	165	165.1				
1.1/2"	600	175	155.6	2"	600	180	165.1				
1.1/2"	900/1500	185	177.8	2"	900/1500	190	215.9				
1.1/2"	2500	200	203.2	2"	2500	210	235				



Instrument - Condensate Pots

Specifications

CP Model

Type: Condensing Pot

Features & Benefits: Condensing pots are largely used in steam metering lines to cool and

condense steam and to maintain a constant liquid head above instruments. They are also recommended for liquid service when flowing temperature is

above 150° C.

All chambers are equipped with top venting entrapped air and can be

furnished with a plug.

Size: 2"NB SCH 40 - (2 - 40) / 2"NB SCH 80 - (2 - 80) / 2"NB SCH 160 - (2 - 160)

3"NB SCH 40 - (3 - 40) / 3"NB SCH 80 - (3 - 80) / 3"NB SCH 160 - (3 - 160) 4"NB SCH 40 - (4 - 40) / 4"NB SCH 80 - (4 - 80) / 4"NB SCH 160 - (4 - 160)

Ends Connections: Threaded - NPT Female (FN)/NPT Male (MN) - To ANSI/ASME B1-20.1

Socket Weld - (SW)- To ASME B16.11 Buttt Weld - (BW) - To ASME B16.9

Material: Carbon Steel - A 106 Gr.B - Shell & A 105 - Caps (CS),

Alloy Steel - A 335 Gr.P11 - Shell & A 182 F11 - Caps (AS P11), - A 335 Gr.P22 - Shell & A 182 F22 - Caps (AS_P22),

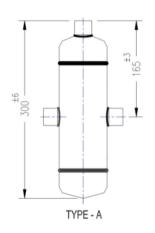
Stainless Steel - A 312 Gr.TP 304 - Shell & A 182 F304 - Caps (S),

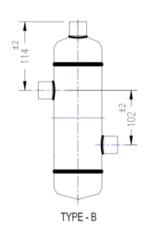
- A 312 Gr.TP 316 - Shell & A 182 F316 - Caps (SS),

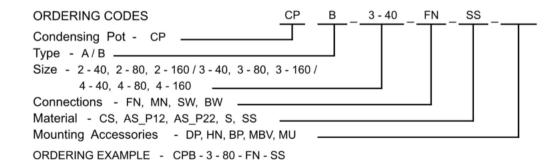
Test Pressure:

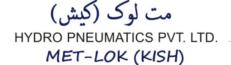
Material	Wall Thk SCH 40		Wall Thk	SCH 80	Wall Thk SCH 160		
Material	Kg/cm ²	PSI	Kg/cm ²	PSI	Kg/cm ²	PSI	
Carbon Steel	80	1150	125	1800	210	3000	
Alloy Steel	80	1150	125	1800	210	3000	
Stainlees Steel	95	1350	155	2200	240	3400	

Mounting Accessories: Blind Plug - PX, Hex. Nipple - HN, Bleed Plug - BP, Mini Bleed Valve - MBV, Mounting 'U' clamp - MU.









Air Headers

Air header and distribution manifods provide customers with many configurations isolation manifolds Virgin Engineers fabricates manifolds specially to suit the customers for requirements.

Standard Technical Specification:-

Inlet : DIN & ANSI 1/2" / 1" NB Flanged / Threaded Connections.

Main Pipe : 1", 1-1/2", 2" NB SCH 40 / 80.

Outlet ports : 6way / 8way / 12 way / 16way (Staggering or straight, Single

sided or Double sided)

Port Size : 1/4" / 1/2" NB SCH 40 / 80 Nipple Toe.

Fitted on outlet ports 1/4" / 1/2" SS or Brass or A 105 Needle

Valves/SS

Valves : Valves

Drain : 1/2" SCH 40 / 80 Nipple TOE Fitted with SS Ball Valve & Drain

Plug

Pressure : 150 psi

M.O.C : Pipes will be form Seamless ASTMA 312 TP 304 / 316 & ASTMA

106 Gr B.

Mounting : Wall or Rack Mounting or 'U' clamps.

Apart from above standard technical specification, Virgin Engineers can Provide any size, design & end connections as per your requirement for:

Note:- Virgin Engineers can provide special surfaces like hot dipped galvanizing, Epoxy and silver coating for A 106 Gr. B Air headers and pickling for stainless steel as per your requirement. The air headers are 100% tested Dimensional, Hydro test, Pneumatic test, guarantee and compliance artificate will be furnished



ACCESSORIES - Coil Syphons

Specifications

Model CSY

Type: Coil Syphon

Features & Benefits: Coiled pipe syphon are used for steam pressure measurement and are

generally connected between pressure gauges and process taps to prevent live steam coming in direct contact with instruments. These syphons allow a good deal of heat dissipation protecting pressure gauges from high temperature which could impair their good operation and their life.

Pipe Size: 1/2"NB SCH40 / SCH80 / SCH160

Ends Connections: Welding Male x Welding Male (PE), Socket Weld x Socket Weld (SW),

Threaded Male x Threaded Male (TM), Threaded Female x Threaded

Female - (TF), - Standard Connections.

Other Connections - Welding Male x Socket Weld (PSE), Welding Male x Threaded Male -(PTM), Welding Male x Threaded Female (PTF), Socket Weld x Threaded Male -(STM), Socket Weld x Threaded Female (STF),

Threaded Male x Threaded Female (TMF)

Threaded - NPT to ANSI / ASME B1-20 .1 / BSP Taper to BS 21 /

BSP Parallel to BS 2779.

Socket Weld - ASME B16.11 - 1996

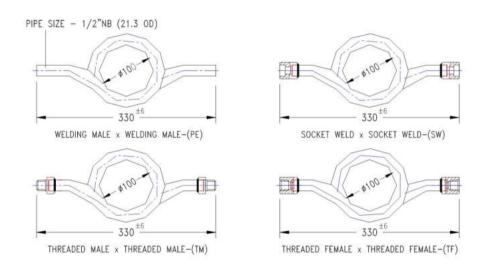
Material: Carbon Steel - A 106 Gr.B(CS), Alloy Steel - A 335 Gr.P12(AS_P12), /

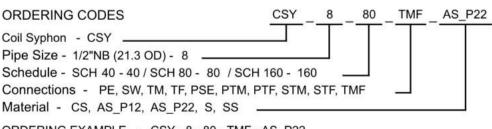
- A 335 Gr.P22 (AS_P22), Stainless Steel - A 312 Gr.304 (S), /

- A 312 Gr.316 -(SS)

Test Pressure:

Matarial	Wall Thk.	- SCH40	Wall Thk	- SCH 80	Wall Thk SCH 160		
Material	Kg/cm ²	PSI	Kg/cm ²	PSI	Kg/cm ²	PSI	
Carbon Steel	115	1600	140	2000	210	3000	
Alloy Steel	115	1600	140	2000	210	3000	
Stainlees Steel	170	2400	210	2000	225	3600	





ORDERING EXAMPLE - CSY - 8 - 80 - TMF - AS_P22

مت لوک (کیش) HYDRO PNEUMATICS PVT. LTD. MET-LOK (KISH)

ACCESSORIES - Bend Syphons

Specifications

Model BSY

Type: Bend Syphon

Features & Benefits: Bend pipe syphon are used for steam pressure measurement and are

> generally connected between pressure gauges and process taps to prevent live steam coming in direct contact with instruments. These syphons allow a good deal of heat dissipation protecting pressure gauges from high temperature which could impair their good operation and their life. Live steam cannot enter instrument directly since the 'U' bend of syphon remains always filled with condensed steam. Heat dissipation is also facilitated by the large extension of bare pipe of these syphons.

Pipe Size: 1/2"NB SCH 40 / SCH 80 / SCH 160

Ends Connections: Welding Male x Welding Male - (PE), Socket Weld x Socket Weld - (SW),

Threaded Male x Threaded Male - (TM), Threaded Female x Threaded

Female - (TF), - Standard Connections.

Other Connections - Welding Male x Socket Weld - (PSE), Welding Male x Threaded Male - (PTM), Welding Male x Threaded Female - (PTF), Socket Weld x Threaded Male - (STM), Socket Weld x Threaded Female - (STF),

Threaded Male x Threaded Female - (TMF)

Threaded - NPT to ANSI / ASME B1-20 .1 / BSP Taper to BS 21 /

BSP Parallel to BS 2779.

Socket Weld - ASME B16.11 - 1996

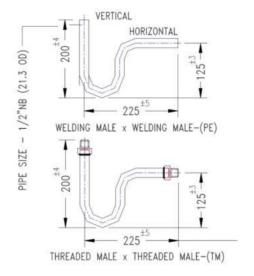
Material: Carbon Steel - A 106 Gr.B (CS), Alloy Steel - A 335 Gr.P12 (AS_P12), /

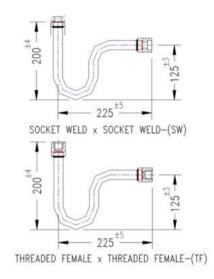
- A 335 Gr.P22 (AS_P22), Stainless Steel - A 312 Gr.304 (S), /

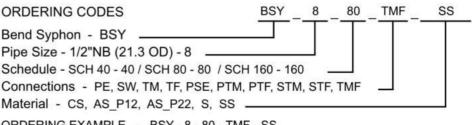
- A 312 Gr. 316 - (SS)

Test Pressure:

Material	Wall Thk.	- SCH 40	Wall Thk.	- SCH 80	Wall Thk SCH 160		
Material	Kg/cm ²	PSI	Kg/cm ²	PSI	Kg/cm ²	PSI	
Carbon Steel	115	1600	140	2000	210	3000	
Alloy Steel	115	1600	140	2000	210	3000	
Stainlees Steel	170	2400	210	2000	225	3600	







ORDERING EXAMPLE - BSY - 8 - 80 - TMF - SS

مت لوک (کس) HYDRO PNEUMATICS PVT. LTD. MET-LOK (KISH)

ACCESSORIES - Eccentric Oval Flanges

Specifications

Model EOF

Type: Eccentric Oval Flange

Ends Connections: Threaded - 1/2"NPT - Female (8 FN)/1/2"NPT- Male (8 MN) -

To ANSI / ASME B1-20 .1

Buttt Weld - 1/2" NB BW SCH 40 / SCH 80 / SCH 160 -

(BW-40/BW-80/BW-160) To ASME 16.9

Socket Weld - 1/2 NB SW Class 3000 / Class 6000 / Class 9000 -

(SW - 3M / SW - 6M / SW - 9M) To ASME B16.11

Material: Carbon Steel - A 105 (CS),

Alloy Steel - A 182 F12 (AS_F12) , A 182 F 22 (AS_F22) Stainless Steel - A 182 Gr.F 304 (S) , A 182 Gr. F316 (SS) ,

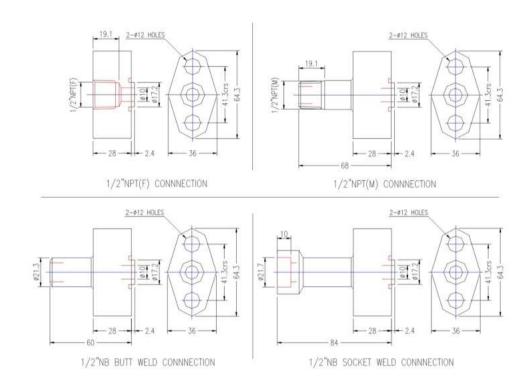
A 182 Gr.F 321 (SS 321)

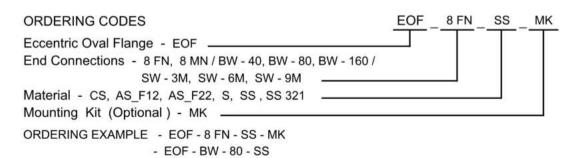
Features & Benefits: These oval flanges can be mounted on the process side of our

flange to flange manifolds.

Mounting Kit: 2 Nos. Oval Flanges, 2 Nos. PTFE Seal Rings - 25.4 x 17.4 x 3 &

4 Nos. HT CS Bolts - 7/16"UNF x 1.1/2" LG. - Zinc Plated & Passivated.





مت لوک (کیش) HYDRO PNEUMATICS PVT. LTD. MET-LOK (KISH)

		- 10
		-
		- 62
(166)		77
مت لوک (کیش) HYDRO PNEUMATICS PVT. LTD		
TYDRO PNEUMATICS PVI. LID.	 	

MET-LOK (KISH)



Addresses:

Factory: No. A2, Fanavari Street, Phase 3, Industrial Park, Kish Island, Iran

+98-76-44492929 +98-76-44492828

Office: Unit 1, No. 29, Golestan 5th, 22nd Street, Velenjak, Tehran, Iran

+98-21-26219113



