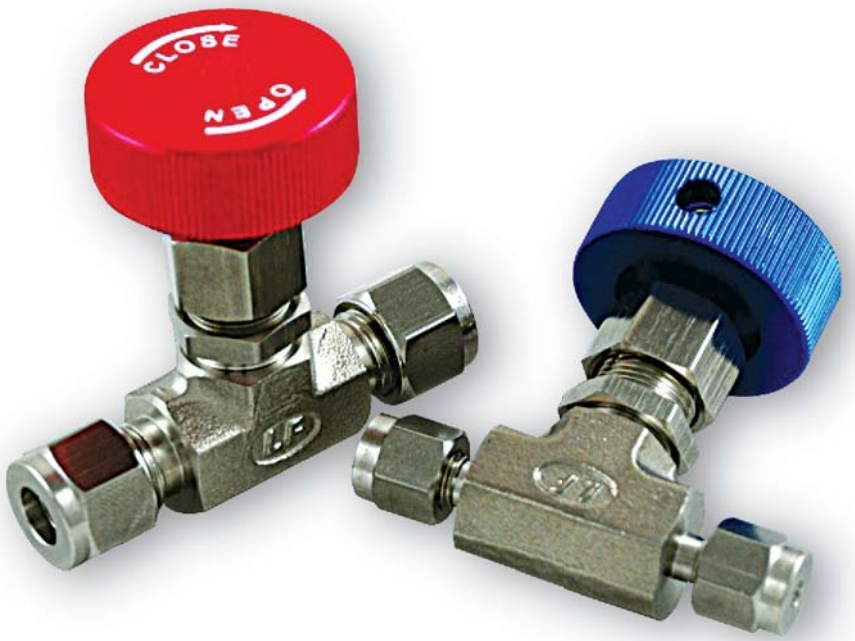
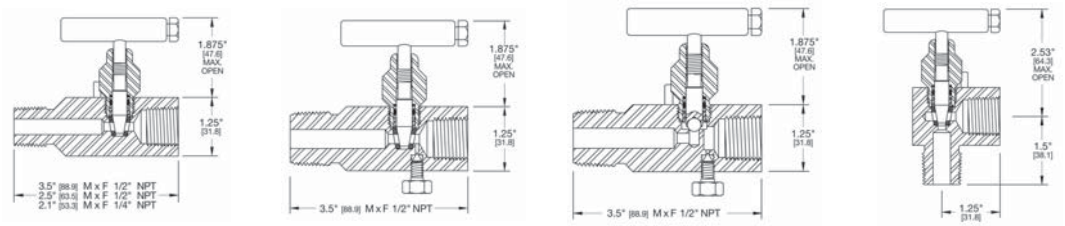
Valves

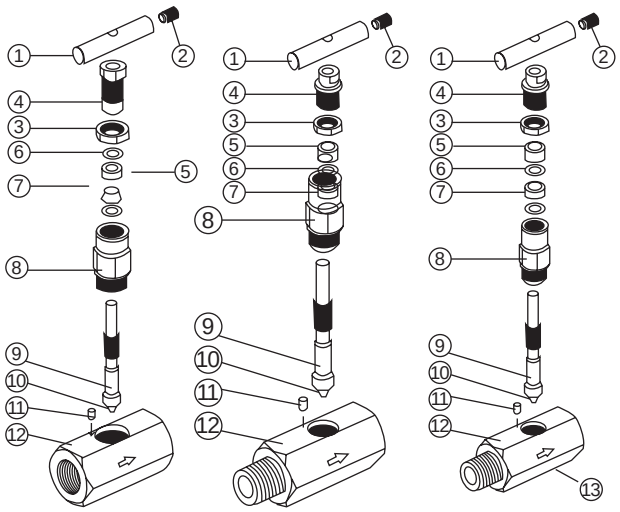
NEEDLE VALVE



PNV HIGH PRESSURE NEEDLE VALVE

Material of Construction





Description		Grade/ASTM Specificatiom	
		Body Material	
		SS316	Carbon Steel
1	Handle	SS304	A105
2	Set Screw	SS304	A105
3	Lock Nut	SS304	A105
4	Packing Bolt	SS316	A105
5	Packing Gland	SS316	A105
6	Packing Washer	SS316	SS304
7	Packing	PTFE	PTFE
8	Bonnet	SS316	A105
9	Stem	SS316	SS304
10	Vee Tip Ball Tip	SS316 SS630/A564	
11	Stop Pin	SS304	SS301
12	Body	SS316	A105
13	Bleed	SS316	

MODEL & EXTERNAL DIMENSION

CARBON/STAINLESS STEEL NEEDLE VALVE

THREAD M×F F×F

NEEDLE VALVE

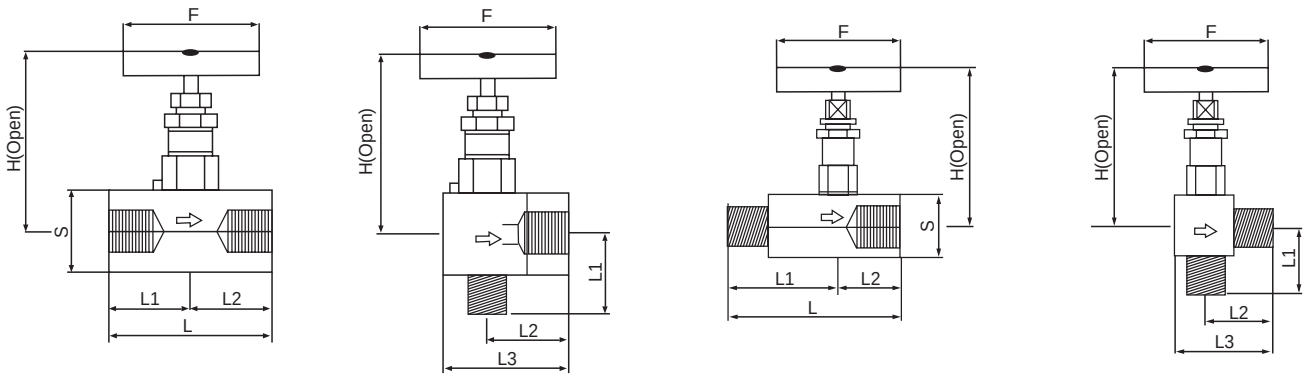
PRESSURE: 6000PSI~10000PSI

PNVC (M x F)

PNAC (M x F)

PNVS (F x F)

PNVS (M x F)



Model No		Pressure Rating @100℉	Orifice	Cv	End Connection Inlet/Outlet	Dimensions (mm)						
SS316	A105					L	L1	L2	L3	S	F	H
PNVS2F2FV	PNVC2F2FV	6000PSI	5	0.52	1/4(F)×1/4(F)	75	37.5	37.5		32	57	72
PNVS2M2FV	PNVC2M2FV				1/4(M)×1/4(F)	82	47	35		32	57	72
PNVS4F4FV	PNVC4F4FV				1/2(F)×1/2(F)	75	37.5	37.5		32	57	72
PNVS4M4FV	PNVC4M4FV				1/2(M)×1/2(F)	82	47	35		32	57	72
PNVS4M2FV	PNVC4M2FV				1/2(M)×1/4(F)	82	47	35		32	57	72
PNVS6F6FV	PNVC6F6FV		6	0.6	3/4(F)×3/4(F)	75	37.5	37.5		32	57	72
PNVS6M6FV	PNVC6M6FV				3/4(M)×3/4(F)	82	47	35		32	57	72
PNVS8F8FV	PNVC8F8FV		7	0.65	1(F)×1(F)	95	47.5	47.5		41	57	80
PNVS8M8FV	PNVC8M8FV				1(M)×1(F)	95	55	40		41	57	80
PNVS2F2FT	PNVC2F2FT	10000PSI	5	0.52	1/4(F)×1/4(F)	75	37.5	37.5		32	57	72
PNVS2M2FT	PNVC2M2FT				1/4(M)×1/4(F)	82	47	35		32	57	72
PNVS4F4FT	PNVC4F4FT				1/2(F)×1/2(F)	75	37.5	37.5		32	57	72
PNVS4M4FT	PNVC4M4FT				1/2(M)×1/2(F)	82	47	35		32	57	72
PNVS4M2FT	PNVC4M2FT				1/2(M)×1/4(F)	82	47	35		32	57	72
PNVS6F6FT	PNVC6F6FT		6	0.6	3/4(F)×3/4(F)	75	37.5	37.5		32	57	72
PNVS6M6FT	PNVC6M6FT				3/4(M)×3/4(F)	82	47	35		32	57	72
PNVS8F8FT	PNVC8F8FT		7	0.65	1(F)×1(F)	95	47.5	47.5		41	57	80
PNVS8M8FT	PNVC8M8FT				1(M)×1(F)	95	55	40		41	57	80
PNVS4M4FVB	PNVC4M4FVB	6000PSI	5	0.52	1/2(M)×1/2(F)	82	47	35		32	57	72
PNVS4F4FVB	PNVC4F4FVB				1/2(F)×1/2(F)	75	37.5	37.5		32	57	72
PNVS2M2FVB	PNVC2M2FVB				1/4(M)×1/4(F)	82	47	35		32	57	72
PNAS2M2FV	PNAC2M2FV				1/4(M)×1/4(F)		38	30	46		57	76
PNAS2M2FT	PNAC2M2FT	10000PSI			1/4(M)×1/4(F)		38	30	46		57	76
PNAS4M4FV	PNAC4M4FV	6000PSI			1/2(M)×1/2(F)		38	30	46		57	76
PNAS4M4FT	PNAC4M4FT	10000PSI			1/2(M)×1/2(F)		38	30	46		57	76
PNVS3F3FV	PNVC3F3FV	6000PSI			3/8(F)×3/8(F)	75	37.5	37.5		32	57	72
PNVS3M3FV	PNVC3M3FV	6000PSI			3/8(M)×3/8(F)	82	47	35		32	57	72
PNVS3M3FT	PNVC3M3FT	10000PSI			3/8(M)×3/8(F)	82	47	35		32	57	72
PNAS3M3FT	PNAC3M3FT	10000PSI			3/8(M)×3/8(F)		38	30	46		57	76

All dimensions are in mullimeters unless otherwise specified, only for reference subject to change.

ORDERING INFORMATION

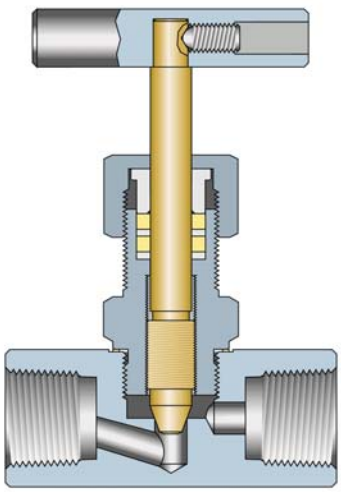
PNV	S	8	M	8	F	V	B
Type	Material	Inlet Thread Dimension	Inlet Thread Type	Outlet Thread Dimension	Outlet Thread Type	Pressure Rating	Bleed
PNV=Straight Type PNA=Angle Type	S=Stainless Steel C=Carbon Steel	2=1/4” 3=3/8” 4=1/2” 6=3/4” 8=1”	M=Male F=Female	2=1/4” 3=3/8” 4=1/2” 6=3/4” 8=1”	M=Male F=Female	V=6000Psi T=10000Psi	B=Bleed

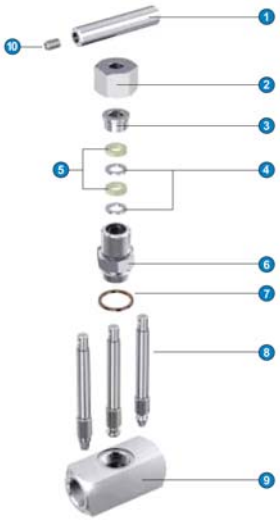
SNV Screwed Bonnet Needle Valves

Features

- Working pressure up to 10,000 psig(689bar).
- Temperature rating from -65°F to 450°F(-54°C to 232°C) with standard PTFE packing, and up to 1200°F(648C) with optional Grafoil packing.
- Body material available in 316SS, Carbon Steel.
- 100% factory tested.

Material of Construction





	Description	Material
1	Handle	SS304
2	Set Screw	SS304
3	Lock Nut	SS304
4	Packing Bolt	SS316
5	Packing Gland	SS316
6	Packing Washer	SS316
7	Packing	PTFE
A	Bonnet	SS316
8 B	Stem	SS316
C	Vee Tip	454
9	Ball Tip	4545
10	Stop Pin	SS304

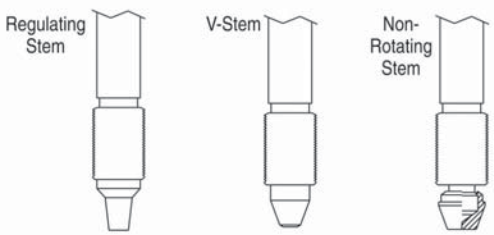
ALTERNATIVE STEMS

LOCK-FIT Needle Valves are available with a choice of stem-tip options to allow greater flexibility.

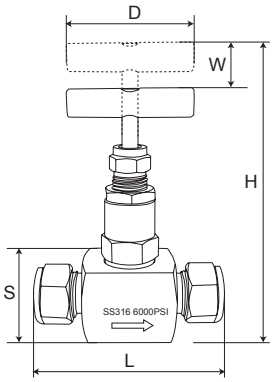
Regulating: Used where some degree of flow control is required.

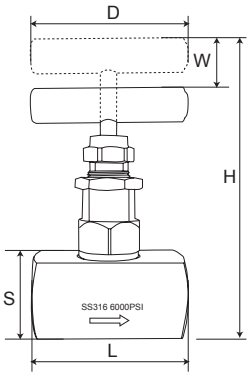
V-Stem: A standard stem tip used for general-purpose liquids and gases.

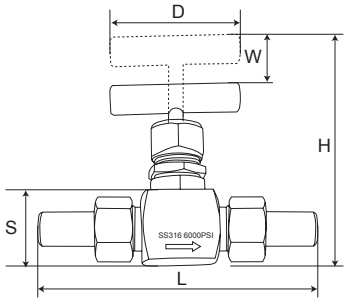
Non-Rotating: Typically used in high-cycle applications to extend valve life. It is designed to prevent galling between the seat and stem.



MODEL & EXTERNAL DIMENSION







SNV TUBE END NEEDLE VALVE DIMENSION

Model No.	Tube End Type		Discharge	L	H	D	S	W
	Dimensions	OD						
SNV-02OD	1/4"	6.35	3	70	65	55	22	6
SNV-03OD	3/8"	9.52	5	70	65		22	
SNV-04OD	1/2"	12.7	8	76	97		28	
SNV-06OD	3/4"	19.05	10	89	119		38	
SNV-08OD	1"	25.4	12	90	120.5		41	
SNV-6OD	6mm	6mm	3	70	65		22	
SNV-8OD	8mm	8mm	4	70	65		22	
SNV-10OD	10mm	10mm	6	70	65		22	
SNV-12OD	12mm	12mm	8	76	97		28	
SNV-14OD	14mm	14mm	9	76	97		28	
SNV-16OD	16mm	16mm	10	76	97		28	
SNV-18OD	18mm	18mm	12	89	119		38	
SNV-20OD	20mm	20mm	12	89	119		38	
SNV-22OD	22mm	22mm	12	89	119		38	
SNV-25OD	25mm	25mm	12	90	120.5		41	

SNV THREAD NEEDLE VALVE DIMENSION

Model No.	P	Discharge	L	H	D	S	W
SNV-02F	1/4"	6	55	65	55	22	6
SNV-02M	1/4"	6	55	65		22	
SNV-03F	3/8"	6	55	65		22	
SNV-03M	3/8"	6	55	65		22	
SNV-04F	1/2"	8	55	97		28	
SNV-04M	1/2"	8	65	97		28	
SNV-06F	3/4"	10	71	119		38	
SNV-08F	1"	12	71	120.5		41	

SNV WELD NEEDLE VALVE DIMENSION

Model No.	Weld Type		Discharge	L	H	D	S	W
	Dimensions	OD						
SNV-10W/SW	10mm	Φ10	6	115	65	55	22	6
SNV-12W/SW	12mm	Φ12	8	115	97		28	
SNV-14W/SW	14mm	Φ14	9	115	97		28	
SNV-16W/SW	16mm	Φ16	12	133	119		38	

All dimensions are in mullimeters unless otherwise specified, only for reference subject to change.

ORDERING INFORMATION

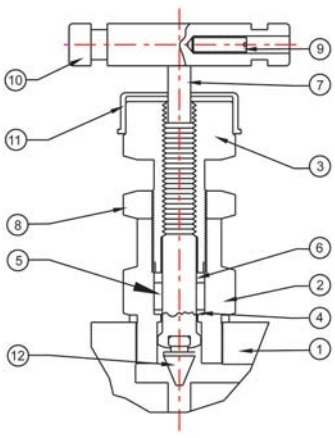
SNV	02	OD	B/H
Type	Dimensions	Connection Type	Option
SNV= Screwed Bonnet Needle Valves	02=1/4” 03=3/8” 04=1/2” 06=3/4” 08=1” 6=6mm 8=8mm 10=10mm 12=12mm 14=14mm 16=16mm 18=18mm 20=20mm 22=22mm 25=25mm	OD=Tube And Connection F/M=Thread Connection W=Butt Welding Connection SW=Socket Welding Connection	B=Bleed H=High Temperature 450℃

MNV MINI NEEDLE VALVE

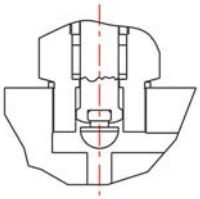
Feature & Benefits:

1. Bonnet lock pins prevent accidental loosening.
2. Free-swiveling ball end stem(metal seat,std.)assure bubble tight valve closure without seat galling.
   The special hardened ball seat is ideal for both gas and liquid service.
3. All stem packing is located below the stem threads prevent galling, corrosion and contamination by the process media.
4. The packing is adjustable with less possibility of bonnet/body leaks.
5. Full back-seated bonnets prevent accidental stem removal and blowout.
   Unique design minimizes emissions while offering easy access to the packing.
6. Max.pressure rating: SS316,6000Psi
   BRASS,3000Psi
7. Using temperature: -40°C---200°C (Special require that could raise to 650°C)
8. 100% factory testing
9. Color choose of handle: Black, Blue, Red.

MATERIAL OF BONNET / STEM / SEAT



Vee Tip Stem & Metal Seat

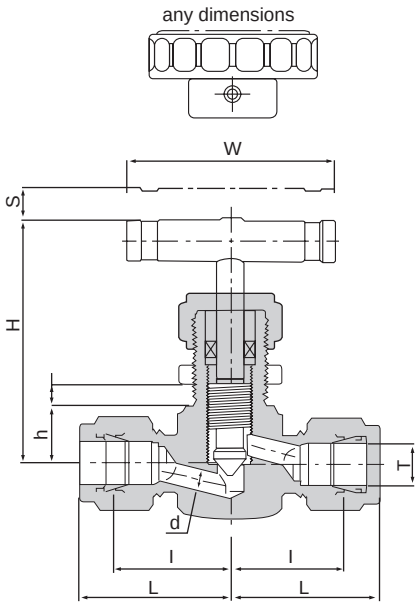


Ball Tip Stem & Metal Seat

Item	Parts Name	Material	Description
1	Body	Stainless Steel	ASTM 479-316 / 304
2	Bonnet	Stainless Steel	ASTM 479-316 / 304
3	Gland Retainer	Stainless Steel	ASTM 479-316 / 304
4	Washer	Stainless Steel	ASTM 479-316 / 304
5	Packing	PTFE	PTFE/GRAFOIL
6	Packing Washer	Stainless Steel	ASTM 479-316 / 304
7	Stem	Stainless Steel	ASTM 276-316 / 304
8	Lock Nut	Stainless Steel	ASTM 479-316 / 304
9	Grub Screw	Stainless Steel	ASTM 276-304
10	Handle	Stainless Steel	ASTM 276-304
11	Dust Cap	Plastic	
12	Non-Rotating End Tip	Stainless Steel	ASTM 479-316 / 304

MNV MINI NEEDLE VALVE - TUBE END

MODEL & EXTERNAL DIMENSION



Model No.	Tube End Type		d	l	L	h	H	S	W	Install Orifice Dimensions	Max. Closed Thickness
	Dimensions	OD									
MNV-01OD	1/8	3.17mm	1.5	23	60	13	50	4	32	14mm	4
MNV-3OD	3mm	3mm	1.5	23	60	13	50	4	32	14mm	4
MNV-4OD	4mm	4mm	1.5	23	60	13	50	4	32	14mm	4
MNV-02OD	1/4	6.35mm	4.3	24.5	63	13	50	4	32	14mm	4
MNV-6OD	6mm	6mm	4.3	24.5	63	13	50	4	32	14mm	4
MNV-8OD	8mm	8mm	4.3	25	65	13	50	4	32	14mm	6.5
MNV-03OD	3/8	9.52mm	6.3	26	67	13	50	4	32	14mm	6.5
MNV-10OD	10mm	10mm	6.3	26	67	13	50	4	32	14mm	6.5
MNV-04OD	1/2	12.7mm	6.3	26.5	73.5	16.5	58	4	45	19.2mm	6.5
MNV-12OD	12mm	12mm	6.3	26.5	73.5	16.5	58	4	45	19.2mm	6.5

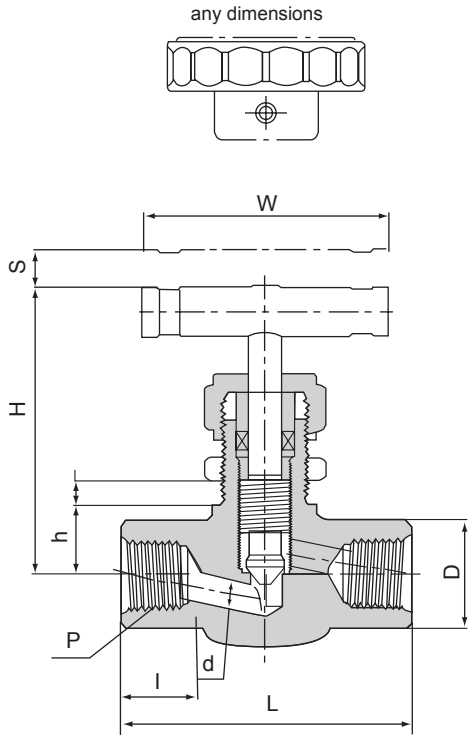
All dimensions are in mullimeters unless otherwise specified, only for reference subject to change.

ORDERING INFORMATION

MNV	01	OD	L
Type	Dimensions	Connection Type	Option
MNV= MINI NEEDLE VALVE	01=1/8” 02=1/4” 03=3/8” 04=1/2”	3=3mm 4=4mm 6=6mm 8=8mm	10=10mm 12=12mm	OD=Tube End Connection	L=Angel Type

MNV MINI NEEDLE VALVE - THREAD

MODEL & EXTERNAL DIMENSION



●DIMENSION

Model No.	P (PT\NPT\G)		d	D	L	h	H	S	W	Install Orifice Dimensions	Max. Closed Thickness
MNV-01F/M	1/8	1/8	4.3	17	46	13	48.5	4	32	14mm	4
MNV-02F/M	1/4	1/4	4.3	17	50	13	48.5	4	32	14mm	4
MNV-03M	3/8	3/8	6.3	17	50	13	48.5	4	32	14mm	4
MNV-03F	3/8	3/8	6.3	22	55	19	53	4	45	14mm	4
MNV-04M	1/2	1/2	8.3	22	69	19	53	4	45	19.2mm	6.5
MNV-04F	1/2	1/2	8.3	27	69	24	56	4	45	19.2mm	6.5

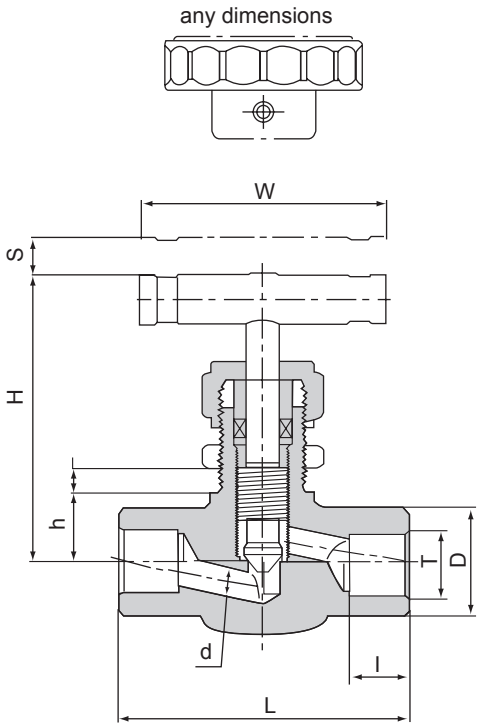
All dimensions are in mullimeters unless otherwise specified, only for reference subject to change.

ORDERING INFORMATION

MNV	01	F/M	L
Type	Dimensions	Connection Type	Option
MNV= MINI NEEDLE VALVE	01=1/8” 02=1/4” 03=3/8” 04=1/2”	F=Female M=Male	L=Angel Type

MNV MINI NEEDLE VALVE - WELDEND

MODEL & EXTERNAL DIMENSION



●DIMENSION

Model No.	Weld Type		d	D	l	L	h	H	S	W	Install Orifice Dimensions	Max. Closed Thickness
	Dimension	OD										
MNV-02SW	1/4	6.35mm	4.3	17	8	48	13	50	4	32	14mm	4
MNV-6SW	6mm	6mm	4.3	17	8	48	13	50	4	32	14mm	4
MNV-8SW	8mm	8mm	4.3	17	8	48	13	50	4	32	14mm	6.5
MNV-03SW	3/8	9.52mm	6.3	17	8	52	13	50	4	32	14mm	6.5
MNV-10SW	10mm	10mm	6.3	17	8	52	13	50	4	32	14mm	6.5
MNV-04SW	1/2	12.7mm	6.3	22	10	56	16.5	58	4	45	19.2mm	6.5
MNV-12SW	12mm	12mm	6.3	22	10	56	16.5	58	4	45	19.2mm	6.5

All dimensions are in mullimeters unless otherwise specified, only for reference subject to change.

ORDERING INFORMATION

MNV	02	SW	L
Type	Dimensions	Connection Type	Option
MNV= MINI NEEDLE VALVE	02=1/4” 6=6mm 03=3/8” 8=8mm 04=1/2” 10=10mm 12=12mm	SW=Soket Welding Connection	L=Angel Type

MV MINI NEEDLE VALVE

SPECIFICATIONS

RATED TO 6,000 PSI

CARBON STEEL CONSTRUCTION

STAINLESS STEEL CONSTRUCTION

VITON PACKING AND SEALS

WORKING TEMPERATURE -20 DEG F TO 100 DEG F

THREADS CONFORM TO ASME B1.20.1

MVD

MVH

MATERIAL

Description		Grade/ASTM Specificatiom	
		Body Material	
1	Body	Carbon Steel	SS316
2	Stem	SS304	SS316
3	Bonnet	Carbon Steel	SS316
4	Handle	Carbon Steel	SS316

PART NUMBERS

No.	DIMENSION	STYLE	WEIGHT
MVDS4	1/4"	FXF	0.66
MVDS5	1/4"	MXM	0.66
MVDS6	1/4"	MXF	0.66
MVDC4	1/4"	FXF	0.66
MVDC5	1/4"	MXM	0.66
MVDC6	1/4"	MXF	0.66

PART NUMBERS

No.	DIMENSION	STYLE	WEIGHT
MVHS4	1/4"	FXF	0.71
MVHS5	1/4"	MXM	0.71
MVHS6	1/4"	MXF	0.71
MVHC4	1/4"	FXF	0.71
MVHC5	1/4"	MXM	0.71
MVHC6	1/4"	MXF	0.71

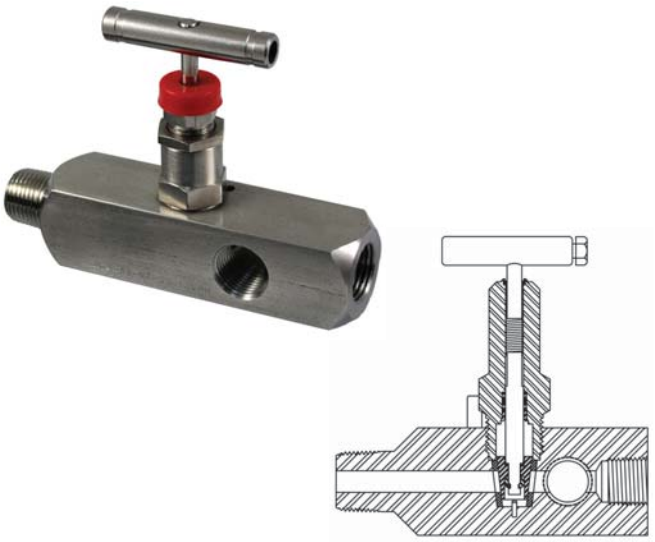
ORDERING INFORMATION

MV	D	S	4
Type	Hand Style	Material	Style
MV=MINI NEEDLE VALVE	D=Round Style H=T Style	S=Stainless Steel C=Carbon Steel	4=F X F 5=M X M 6=M X F

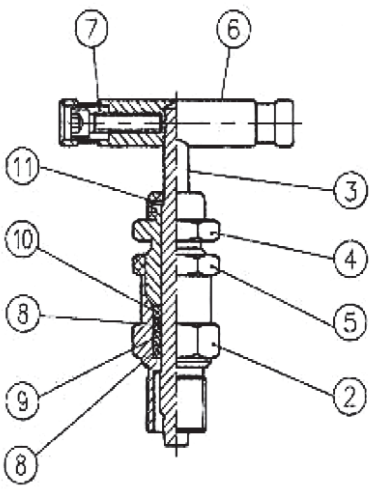
MULTI-PORT GAUGE VALVES

SPECIFICATIONS

RATED TO 10,000 PSI (T TYPE)
CARBON STEEL CONSTRUCTION
STAINLESS STEEL CONSTRUCTION
TEFLON PACKING
WORKING TEMPERATURE -20 DEG F TO 200 DEG F
THREADS CONFORM TO ASME B1.20.1



MATERIAL OF CONSTRACTION



	Description	Grade/ASTM Specificatiom	
		Body Material	
1	BODY	CARBON STEEL	SS316
2	BONNET	CARBON STEEL	SS316
3	STEM	SS304	SS316
4	PACKING NUT	CARBON STEEL	SS316
5	FIXING SCREW	CARBON STEEL	SS316
6	HANDLE	CARBON STEEL	SS316
7	HANDLE FIXING SCREW	CARBON STEEL	SS316
8	PACKING	TEFLON	VITON O-RING
9	BACK UP RING	SS 304	TEFLON
10	BACK UP RING	SS 304	TEFLON
11	DUST CAP	NBR	NBR
12	BONNET LOCK PIN	SS303	SS303

DIMENSIONS

Basic Mode No.	End Connection Inlet/Outlet	A	B	C	D	E	F	G
MPC8M8F	1/2(M) x 1/2(F)	90	70	63.5	113	57	5	36
MPC12M8F	3/4(M) x 1/2(F)	90	70	63.5	113	57	5	36
MPS8M8F	1/2(M) x 1/2(F)	90	70	63.5	113	57	5	36
MPS12M8F	3/4(M) x 1/2(F)	90	70	63.5	113	57	5	36

ORDERING INFORMATION

MP	S	8	M	8	F
Type	Material	Inlet Thread Dimensions	Inlet Thread Style	Outlet Thread Dimensions	Outlet Thread Style
MP= MULTI-PORT GAUGE VALVES	S=Stainless Steel C=Carbon Steel	8=1/2” 12=3/4”	M=Male F=Female	8=1/2” 12=3/4”	M=Male F=Female

MVL METERING VALVES

MVL SERIES FEATURES

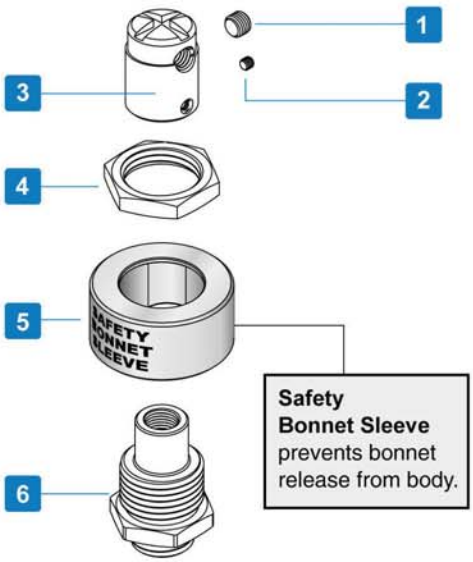
- Forged-body 316 St.St.or Brass Construction
- Straight and Angle Patterns
- Panel Mounting
- MAWP 2000 psig - (135 bar)
- MAWT 400°F (204°C)
- Flow coefficients (Cv) from 0.004 to 0.15
- Round & Slotted Handles with Screwdriver Slots
- LOK-FIT Ends, Male & Female NPT, LOK-FIT Face Seal Bead End Connections
- 1°, 3° and 5° Stem Taper for required flow control
- Stem with Stopper Shoulder - long lifetime

GENERAL

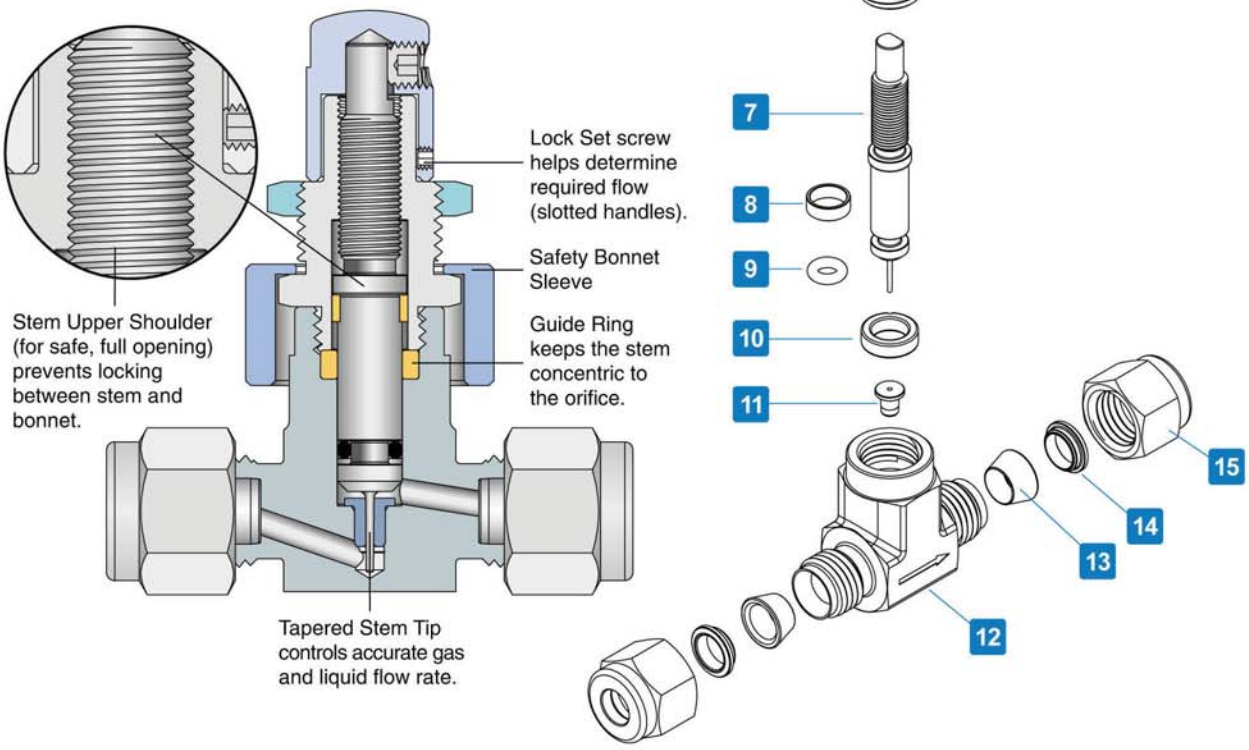
The MVL Series is a moderate-pressure instrumentation flow-regulating needle valve. It is generally used for instrumentation panels, sampling systems and accurate applications.
The valves are compact in size and structure and offer reliably low and moderate flow regulation with long service life. The MVL Series is rated to max. 2000 psig (340 bar).

MVL - MATERIALS

Item No.	Components	Qty.	Valve Body Material	
			316 St.St.	Brass
1	Handle Set Screw	1	18-8 Stainless Steel	
2	Flow Fixing Screw	1	18-8 Stainless Steel	
3	Handle	1	St.St. ASTM A-276	Brass ASTM B-16
4	Panel Nut	1	St.St. ASTM A-276	Brass ASTM B-16
5	Safety Bonnet Sleeve	1	St.St. ASTM A-276	Brass ASTM B-16
6	Bonnet	1	St.St. ASTM A-276	Brass ASTM B-16
7	Stem	1	St.St. 174PH/A564	
8	Stem Ring	1	Glass-filled TFE	
9	O-ring	1	Viton® (fluorocarbon)	
10	Guide Ring	1	Glass-filled TFE	
11	Orifice	1	St.St. ASTM A-276	Brass ASTM B-16
12	Body	1	St.St. ASTM A-276	Brass ASTM B-16
13	Front Ferrule	2	St.St. ASTM A-276	Brass ASTM B-16
14	Back Ferrule	2	St.St. ASTM A-276	Brass ASTM B-16
15	Nut	2	St.St. ASTM A-276	Brass ASTM B-16



MVL SERIES STRAIGHT VALVE

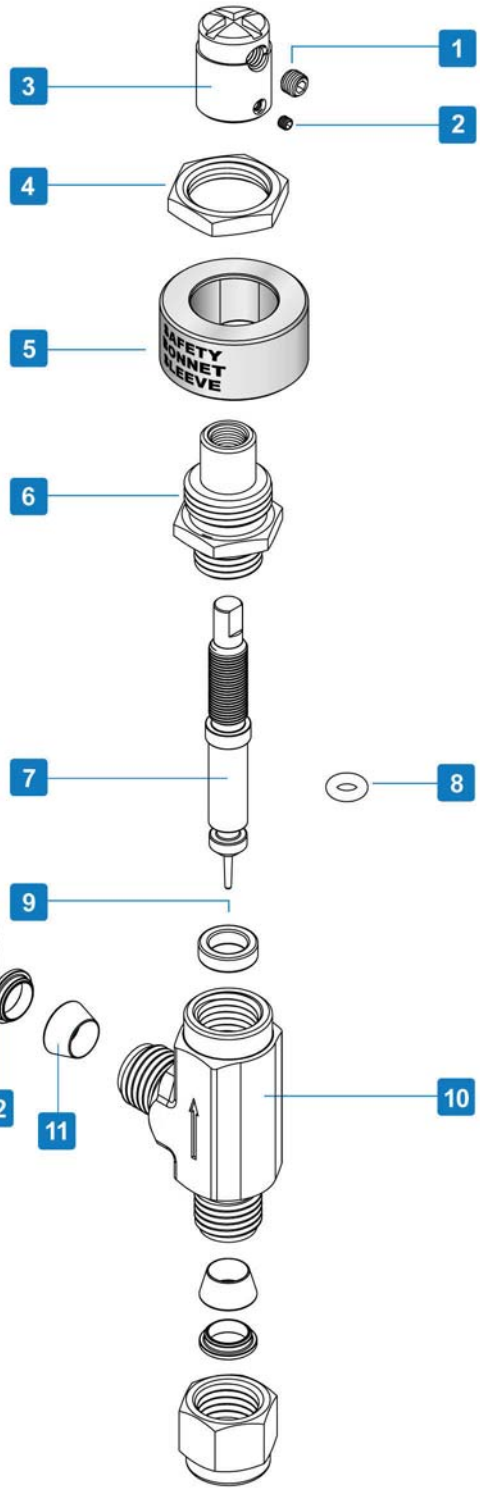


MVA METERING VALVES

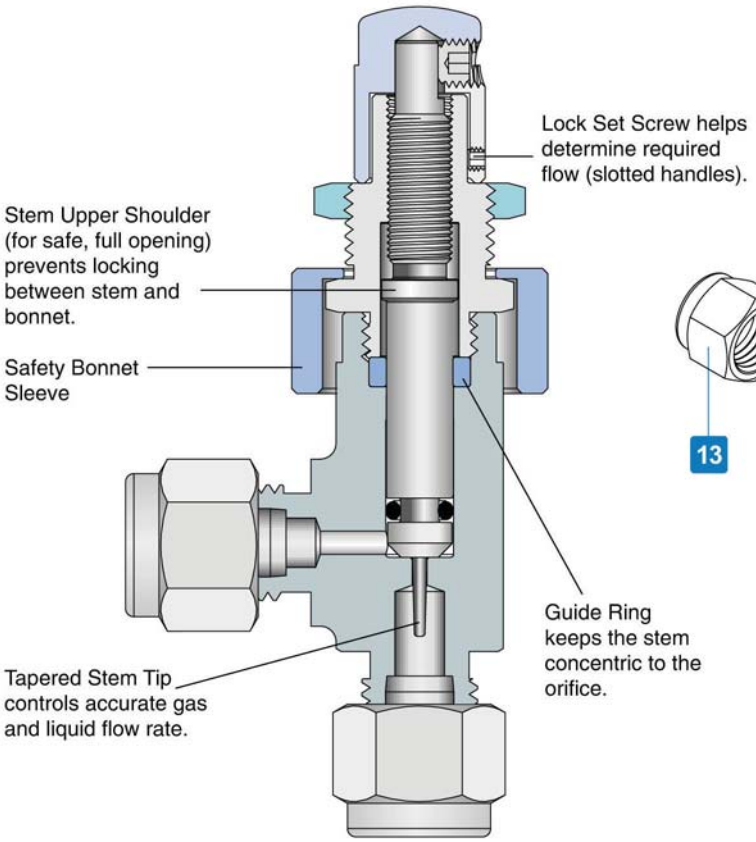
MVA SERIES FEATURES

MVA - MATERIALS

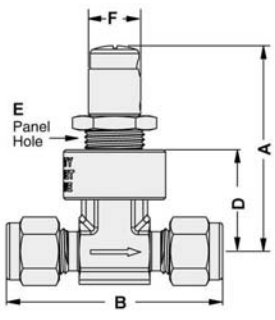
Item No.	Components	Qty.	Valve Body Material	
			316 St.St.	Brass
1	Handle Set Screw	1	St.St. ASTM A-276	Brass ASTM B-16
2	Flow Fixing Screw	1	18-8 Stainless Steel	
3	Handle	1	St.St. ASTM A-276	
4	Panel Nut	1	St.St. ASTM A-276	Brass ASTM B-16
5	Safety Bonnet Sleeve	1	St.St. ASTM A-276	Brass ASTM B-16
6	Bonnet	1	St.St. ASTM A-276	Brass ASTM B-16
7	Stem	1	St.St. 174PH/A564	
8	O-ring	1	Viton® (fluorocarbon)	
9	Guide Ring	1	Glass-filled TFE	
10	Body	1	St.St. ASTM A-276	Brass ASTM B-16
11	Front Ferrule	2	St.St. ASTM A-276	Brass ASTM B-16
12	Back Ferrule	2	St.St. ASTM A-276	Brass ASTM B-16
13	Nut	2	St.St. ASTM A-276	Brass ASTM B-16

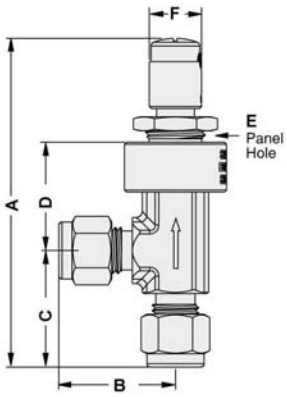


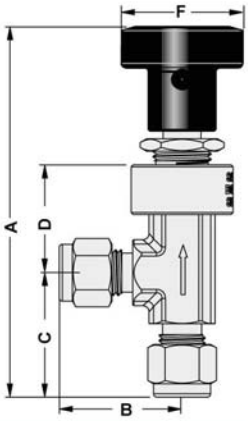
MVA SERIES VALVE



DIMENSION







DIMENSIONS (MM) MV/MVA

Basic Ordering Number	Stem Taper Angle	Orifice mm/inch	Cv	Inlet	Outlet	A-open mm	A-open in	B mm	B in	C mm	C in	D mm	D in	E mm	E in	F
MV Angle	50	3.3 mm 0.13"	0.13 Max	1/4" LOCK-FIT	1/4" LOCK-FIT	95.7	3.77	29.6	1.17	30.0	1.18	26.0	1.02	14.8	0.58	29 mm 1.14"
				6MM LOCK-FIT	6MM LOCK-FIT	95.7	3.77	29.6	1.17	30.0	1.18	26.0	1.02	14.8	0.58	
MV Straight				1/4" LOCK-FIT	1/4" LOCK-FIT	71.5	2.81	29.5	2.34	-	-	32.0	1.26	14.8	0.58	29 mm 1.14"
				3/8" LOCK-FIT	3/8" LOCK-FIT	71.5	2.81	62.4	2.46	-	-	32.0	1.26	14.8	0.58	
				6MM LOCK-FIT	6MM LOCK-FIT	71.5	2.81	59.5	2.34	-	-	32.0	1.26	14.8	0.58	
MVA Angle	30	1.4 mm 0.055"	0.03 Max	1/4" Male NPT	1/4" Male NPT	71.5	2.81	50.8	2.00	-	-	32.0	1.26	14.8	0.58	12.5 mm 0.5"
				1/8" LOCK-FIT	1/8" LOCK-FIT	83.5	3.29	25.8	1.02	25.8	1.02	27.0	1.06	14.8	0.58	
				1/4" LOCK-FIT	1/4" LOCK-FIT	85.0	3.35	28.0	1.10	28.0	1.10	27.0	1.06	14.8	0.58	
				3MM LOCK-FIT	3MM LOCK-FIT	83.5	3.29	25.8	1.02	25.8	1.02	27.0	1.06	14.8	0.58	
				6MM LOCK-FIT	6MM LOCK-FIT	85.0	3.35	28.0	1.10	28.0	1.10	27.0	1.06	14.8	0.58	
				1/8" Male NPT	1/8" Male NPT	77.0	3.03	19.0	0.75	19.0	0.75	27.0	1.06	14.8	0.58	
				1/4" Male NPT	1/4" Male NPT	83.0	3.27	25.0	0.98	26.0	1.02	27.0	1.06	14.8	0.58	
				1/8" Male NPT	1/8" LOCK-FIT	77.0	3.03	25.8	1.02	19.0	0.75	27.0	1.06	14.8	0.58	
				1/4" Male NPT	1/4" LOCK-FIT	81.5	3.2	28.3	1.11	23.5	0.92	27.0	1.06	14.8	0.58	
				1/8" Female NPT	1/8" Female NPT	82.5	3.25	24.9	0.98	24.9	0.98	27.0	1.06	14.8	0.58	
MVA Straight				1/8" LOCK-FIT	1/8" LOCK-FIT	70.0	2.76	51.0	2.01	-	-	27.0	1.06	14.8	0.58	12.5 mm 0.5"
				1/8" LOCK-FIT	1/4" LOCK-FIT	85.0	3.35	28.0	1.10	-	-	27.0	1.06	14.8	0.58	
				3MM LOCK-FIT	3MM LOCK-FIT	83.5	3.29	25.8	1.02	-	-	27.0	1.06	14.8	0.58	
				6MM LOCK-FIT	6MM LOCK-FIT	85.0	3.35	28.0	1.10	-	-	27.0	1.06	14.8	0.58	
				1/8" Male NPT	1/8" Male NPT	77.0	3.03	19.0	0.75	-	-	27.0	1.06	14.8	0.58	
				1/4" Male NPT	1/4" Male NPT	83.0	3.27	25.0	0.98	26.0	1.02	27.0	1.06	14.8	0.58	
				1/8" Female NPT	1/8" Female NPT	77.0	3.03	25.8	1.02	19.0	0.75	27.0	1.06	14.8	0.58	
				1/8" Male Face Seal	1/8" Male Face Seal	82.5	3.25	24.9	0.98	-	-	27.0	1.06	14.8	0.58	
MVA Angle	10	0.8 mm 0.03"	0.004 Max	1/8" LOCK-FIT	1/8" LOCK-FIT	84.0	3.31	24.8	0.98	24.8	0.98	23.4	0.92	14.8	0.58	12.5 mm 0.5"
				1/4" LOCK-FIT	1/4" LOCK-FIT	85.0	3.35	25.8	1.02	25.8	1.02	23.4	0.92	14.8	0.58	
				3MM LOCK-FIT	3MM LOCK-FIT	84.0	3.31	24.8	0.98	25.0	0.98	23.4	0.92	14.8	0.58	
				1/8" Male NPT	1/8" LOCK-FIT	77.5	3.05	24.8	0.98	24.8	0.98	23.4	0.92	14.8	0.58	
				1/4" Male NPT	1/4" LOCK-FIT	82	3.22	27.3	1.07	29.3	1.15	23.4	0.92	14.8	0.58	
MVA Straight				1/8" LOCK-FIT	1/8" LOCK-FIT	59.6	2.34	48.0	1.89	-	-	24.4	0.96	14.8	0.58	12.5 mm 0.5"
				1/4" LOCK-FIT	1/4" LOCK-FIT	59.6	2.34	51.9	2.04	-	-	24.4	0.96	14.8	0.58	
				3MM LOCK-FIT	3MM LOCK-FIT	59.6	2.34	48.0	1.89	-	-	24.4	0.96	14.8	0.58	
				6MM LOCK-FIT	6MM LOCK-FIT	59.6	2.34	51.9	2.04	-	-	24.4	0.96	14.8	0.58	
				1/4" Male Face Seal	1/4" Male Face Seal	59.6	2.34	52.0	2.05	-	-	24.4	0.96	14.8	0.58	

ORDERING INFORMATION

MV 00 SS L 1/4 S Optional

Valve Series	Valve Type	Body and Ends Material	End Connection	End Connection Size	Pattern Valve Type	O-ring Material	Handle Color	Oxygen Clean
MV=5° MVA=1°/3°	00=LOCK-FIT End Connection 10=Female End Connection 80=Male End Connection 95=Male to LOCK-FIT End Connection	SS=St.St 316 B=Brass H=Alloy C276 M=Monel	L=Tube End Type N=Thread Type	1/8" 3mm 1/4" 6mm 3/8"	S=Straight Port Valve A=Angle Port Valve	EP=EPDM, EPM NE=Neoprene KZ=Kalrez BU=Buna-N	G=Green R=Red Y=Yellow	OC=Oxygen Clean LF=Lubricant Free