

NEEDLE VALVES FOR 15,000 PSI (1030 BAR)

1/16" L/P TUBE, SINGLE FERRULE COMPRESSION

2-way Straight

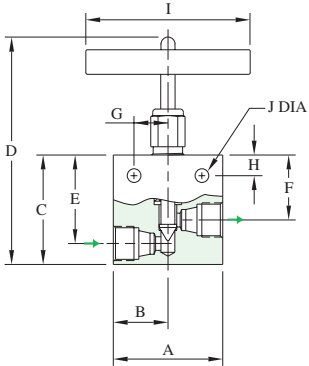


Figure 1

2-way Angle

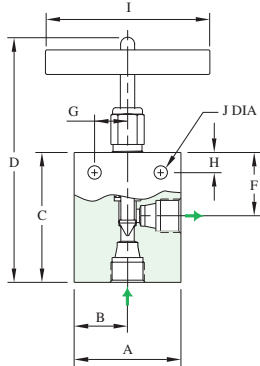


Figure 2

3-way Two on Pressure

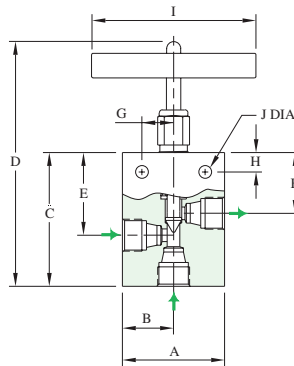


Figure 3

3-way One on Pressure

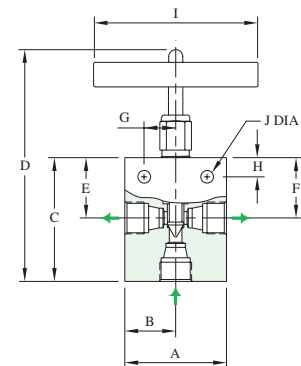


Figure 4

Catalog Number	Stem Style	Connection	A	B	C	D	E	F	G	H	I	J	K	L	Thk.	Fig
SLPV11V SLPV11R	Vee Reg	1/16" L/P Tube	1.50" (38.1)	0.75" (19.1)	1.38" (35.1)	3.82" (97.0)	1.06" (26.9)	0.81" (20.6)	0.50" (12.7)	0.31" (7.9)	2.37" (60.2)	0.17" (4.3)	---	---	0.62" (15.7)	1
SLPV12V SLPV12R	Vee Reg	1/16" L/P Tube	1.50" (38.1)	0.75" (19.1)	1.56" (39.6)	4.00" (101.6)	---	0.81" (20.6)	0.50" (12.7)	0.31" (7.9)	2.37" (60.2)	0.17" (4.3)	---	---	0.62" (15.7)	2
SLPV13V SLPV13R	Vee Reg	1/16" L/P Tube	1.50" (38.1)	0.75" (19.1)	1.69" (42.9)	4.13" (104.9)	1.06" (26.9)	0.81" (20.6)	0.50" (12.7)	0.31" (7.9)	2.37" (60.2)	0.17" (4.3)	---	---	0.62" (15.7)	3
SLPV14V SLPV14R	Vee Reg	1/16" L/P Tube	1.50" (38.1)	0.75" (19.1)	1.56" (39.6)	4.00" (101.6)	0.81" (20.6)	0.81" (20.6)	0.50" (12.7)	0.31" (7.9)	2.37" (60.2)	0.17" (4.3)	---	---	0.62" (15.7)	4
SLPV15V SLPV15R	Vee Reg	1/16" L/P Tube	1.50" (38.1)	0.75" (19.1)	2.25" (57.2)	7.13" (181.1)	1.12" (28.4)	0.81" (20.6)	0.50" (12.7)	0.31" (7.9)	2.37" (60.2)	0.17" (4.3)	---	---	0.62" (15.7)	5
SLPV16V SLPV16R	Vee Reg	1/16" L/P Tube	1.50" (38.1)	0.75" (19.1)	1.69" (42.9)	4.13" (104.9)	---	0.81" (20.6)	0.50" (12.7)	0.31" (7.9)	2.37" (60.2)	0.17" (4.3)	0.50" (12.7)	0.63" (16.0)	0.62" (15.7)	6
SLPMV16V	Meter	1/16" L/P Tube	1.38" (35.1)	0.87" (22.1)	1.56" (39.6)	5.40" (137.2)	---	0.94" (23.9)	0.19" (4.8)	0.44" (11.2)	2.37" (60.2)	0.16" (4.1)	0.56" (14.2)	0.72" (18.3)	0.75" (19.1)	7
SLPMMV16V	Micro-Meter	1/16" L/P Tube	1.38" (35.1)	0.87" (22.1)	1.56" (39.6)	5.42" (137.7)	---	0.94" (23.9)	0.19" (4.8)	0.44" (11.2)	2.37" (60.2)	0.16" (4.1)	0.56" (14.2)	0.72" (18.3)	0.75" (19.1)	8

See page LP-1 for orifice and Cv

2-stem Manifold

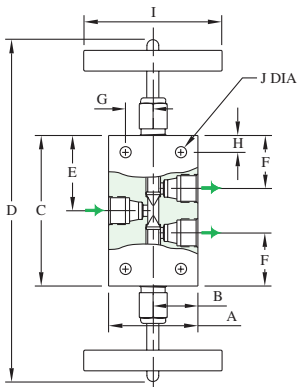


Figure 5

Replaceable Seat

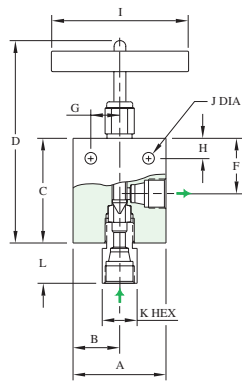


Figure 6

Metering

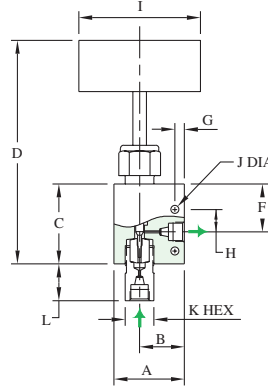


Figure 7

Micro-Metering

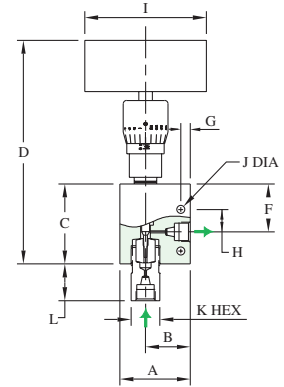


Figure 8

All dimensions are for reference only and are subject to change.
Dimensions in parentheses are millimeters (mm)

NEEDLE VALVES FOR 15,000 PSI (1030 BAR)

1/8" L/P TUBE, SINGLE FERRULE COMPRESSION

2-way Straight

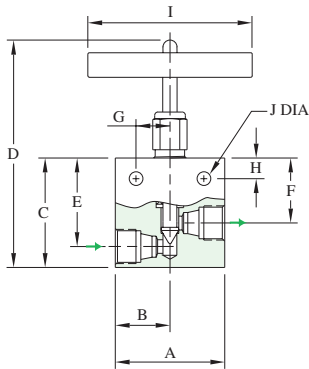


Figure 1

2-way Angle

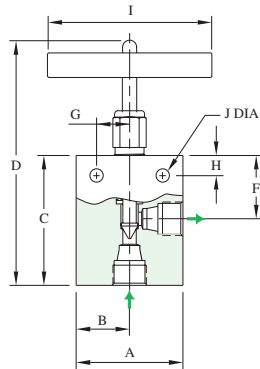


Figure 2

3-way Two on Pressure

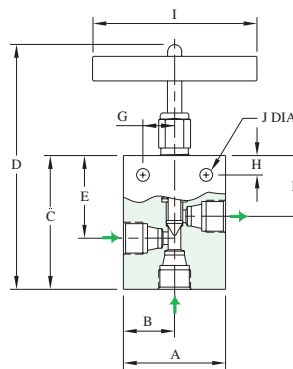


Figure 3

3-way One on Pressure

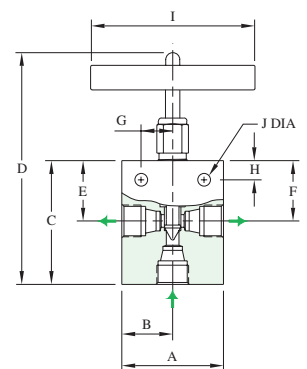


Figure 4

Catalog Number	Stem Style	Connection	A	B	C	D	E	F	G	H	I	J	K	L	Thk.	Fig
SLPV21V	Vee	1/8" L/P	1.50"	0.75"	1.38"	3.82"	1.06"	0.81"	0.50"	0.31"	2.37"	0.17"	---	---	0.62"	1
SLPV21R	Reg	Tube	(38.1)	(19.1)	(35.1)	(97.0)	(26.9)	(20.6)	(12.7)	(7.9)	(60.2)	(4.3)	---	---	(15.7)	
SLPV22V	Vee	1/8" L/P	1.50"	0.75"	1.56"	4.00"	---	0.81"	0.50"	0.31"	2.37"	0.17"	---	---	0.62"	2
SLPV22R	Reg	Tube	(38.1)	(19.1)	(39.6)	(101.6)	---	(20.6)	(12.7)	(7.9)	(60.2)	(4.3)	---	---	(15.7)	
SLPV23V	Vee	1/8" L/P	1.50"	0.75"	1.69"	4.13"	1.06"	0.81"	0.50"	0.31"	2.37"	0.17"	---	---	0.62"	3
SLPV23R	Reg	Tube	(38.1)	(19.1)	(42.9)	(104.9)	(26.9)	(20.6)	(12.7)	(7.9)	(60.2)	(4.3)	---	---	(15.7)	
SLPV24V	Vee	1/8" L/P	1.50"	0.75"	1.56"	4.00"	0.81"	0.81"	0.50"	0.31"	2.37"	0.17"	---	---	0.62"	4
SLPV24R	Reg	Tube	(38.1)	(19.1)	(39.6)	(101.6)	(20.6)	(20.6)	(12.7)	(7.9)	(60.2)	(4.3)	---	---	(15.7)	
SLPV25V	Vee	1/8" L/P	1.50"	0.75"	2.25"	7.13"	1.12"	0.81"	0.50"	0.31"	2.37"	0.17"	---	---	0.62"	5
SLPV25R	Reg	Tube	(38.1)	(19.1)	(57.2)	(181.1)	(28.4)	(20.6)	(12.7)	(7.9)	(60.2)	(4.3)	---	---	(15.7)	
SLPV26V	Vee	1/8" L/P	1.50"	0.75"	1.69"	4.13"	---	0.81"	0.50"	0.31"	2.37"	0.17"	0.50"	0.63"	0.62"	6
SLPV26R	Reg	Tube	(38.1)	(19.1)	(42.9)	(104.9)	---	(20.6)	(12.7)	(7.9)	(60.2)	(4.3)	(12.7)	(16.0)	(15.7)	
SLPMV26V	Meter	1/8" L/P	1.38"	0.87"	1.56"	5.40"	---	0.94"	0.19"	0.44"	2.37"	0.16"	0.56"	0.72"	0.75"	7
SLPMV26R	Reg	Tube	(35.1)	(22.1)	(39.6)	(137.2)	---	(23.9)	(4.8)	(11.2)	(60.2)	(4.1)	(14.2)	(18.3)	(19.1)	
SLPMMV26V	Micro-Meter	1/8" L/P	1.38"	0.87"	1.56"	5.42"	---	0.94"	0.19"	0.44"	2.37"	0.16"	0.56"	0.72"	0.75"	8
SLPMMV26R	Reg	Tube	(35.1)	(22.1)	(39.6)	(137.7)	---	(23.9)	(4.8)	(11.2)	(60.2)	(4.1)	(14.2)	(18.3)	(19.1)	

See page LP-1 for orifice and Cv

2-stem Manifold

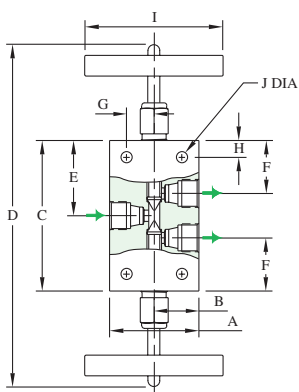


Figure 5

Replaceable Seat

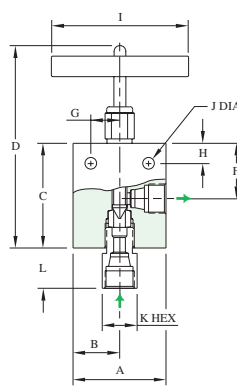


Figure 6

Metering

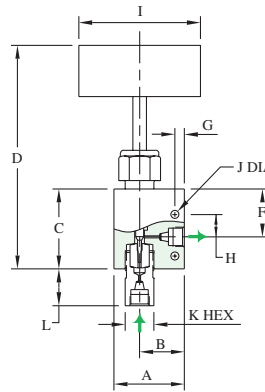


Figure 7

Micro-Metering

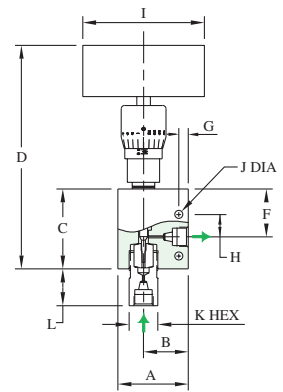


Figure 8



All dimensions are for reference only and are subject to change.
Dimensions in parentheses are millimeters (mm)

NEEDLE VALVES FOR 11,500 PSI (790 BAR)

1/4" SL/P TUBE, SINGLE FERRULE COMPRESSION

2-way Straight

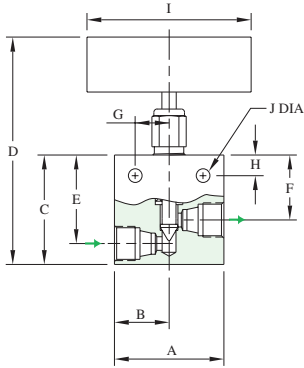


Figure 1

2-way Angle

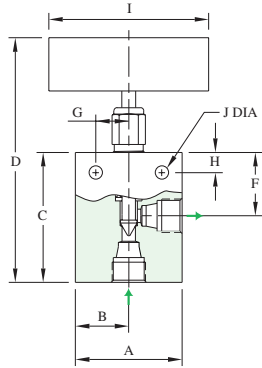


Figure 2

3-way Two on Pressure

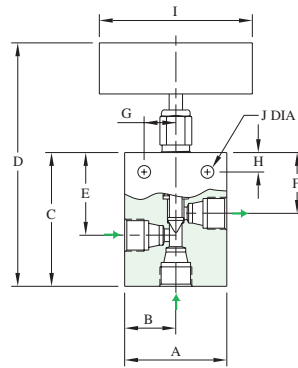


Figure 3

3-way One on Pressure

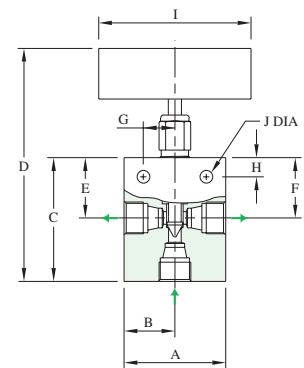


Figure 4

Catalog Number	Stem Style	Connection	A	B	C	D	E	F	G	H	I	J	K	L	Thk.	Fig
SLPV41V	Vee	1/4" SL/P	2.00"	1.00"	2.00"	4.50"	1.62"	1.19"	0.62"	0.38"	3.00"	0.25"	---	---	0.75"	1
SLPV41R	Reg	Tube	(50.8)	(25.4)	(50.8)	(114.3)	(41.1)	(30.2)	(15.7)	(9.7)	(76.2)	(6.4)	---	---	(19.1)	
SLPV42V	Vee	1/4" SL/P	2.00"	1.00"	2.44"	4.94"	---	1.19"	0.62"	0.38"	3.00"	0.25"	---	---	0.75"	2
SLPV42R	Reg	Tube	(50.8)	(25.4)	(62.0)	(125.5)	---	(30.2)	(15.7)	(9.7)	(76.2)	(6.4)	---	---	(19.1)	
SLPV43V	Vee	1/4" SL/P	2.00"	1.00"	2.62"	5.12"	1.62"	1.19"	0.62"	0.38"	3.00"	0.25"	---	---	0.75"	3
SLPV43R	Reg	Tube	(50.8)	(25.4)	(66.5)	(130.0)	(41.1)	(30.2)	(15.7)	(9.7)	(76.2)	(6.4)	---	---	(19.1)	
SLPV44V	Vee	1/4" SL/P	2.00"	1.00"	2.44"	4.94"	1.19"	1.19"	0.62"	0.38"	3.00"	0.25"	---	---	0.75"	4
SLPV44R	Reg	Tube	(50.8)	(25.4)	(62.0)	(125.5)	(30.2)	(30.2)	(15.7)	(9.7)	(76.2)	(6.4)	---	---	(19.1)	
SLPV45V	Vee	1/4" SL/P	2.00"	1.00"	3.38"	8.38"	1.68"	1.19"	0.62"	0.38"	3.00"	0.25"	---	---	0.75"	5
SLPV45R	Reg	Tube	(50.8)	(25.4)	(85.9)	(212.9)	(42.7)	(30.2)	(15.7)	(9.7)	(76.2)	(6.4)	---	---	(19.1)	
SLPV46V	Vee	1/4" SL/P	2.00"	1.00"	2.25"	4.75"	---	1.19"	0.62"	0.38"	3.00"	0.25"	0.50"	0.63"	0.75"	6
SLPV46R	Reg	Tube	(50.8)	(25.4)	(57.2)	(120.7)	---	(30.2)	(15.7)	(9.7)	(76.2)	(6.4)	(12.7)	(16.0)	(19.1)	
SLPMV46V	Meter	1/4" SL/P	2.50"	1.25"	2.62"	6.69"	---	1.31"	0.69"	0.38"	3.00"	0.25"	0.75"	1.03"	1.00"	7
	Tube		(63.5)	(31.8)	(66.5)	(169.9)	---	(33.3)	(17.5)	(9.7)	(76.2)	(6.4)	(19.1)	(26.2)	(25.4)	
SLPMMV46V	Micro-Meter	1/4" SL/P	2.50"	1.25"	2.62"	7.33"	---	1.31"	0.69"	0.38"	2.35"	0.25"	0.75"	1.03"	1.00"	8
	Tube		(63.5)	(31.8)	(66.5)	(186.2)	---	(33.3)	(17.5)	(9.7)	(59.7)	(6.4)	(19.1)	(26.2)	(25.4)	

See page LP-1 for orifice and Cv

2-stem Manifold

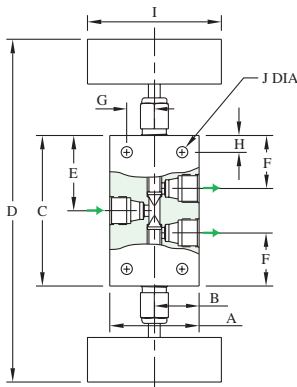


Figure 5

Replaceable Seat

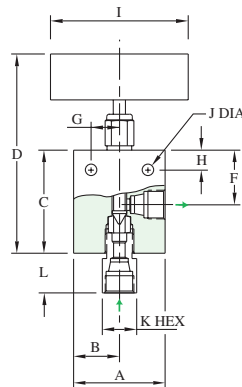


Figure 6

Metering

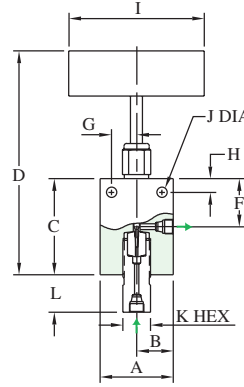


Figure 7

Micro-Metering

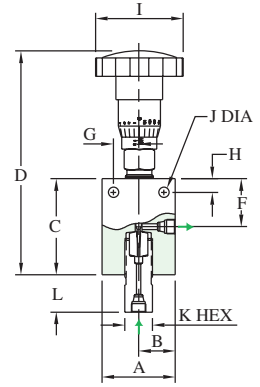


Figure 8

All dimensions are for reference only and are subject to change.
Dimensions in parentheses are millimeters (mm)

NEEDLE VALVES FOR 7,500 PSI (520 BAR)

3/8" SL/P TUBE, SINGLE FERRULE COMPRESSION

2-way Straight

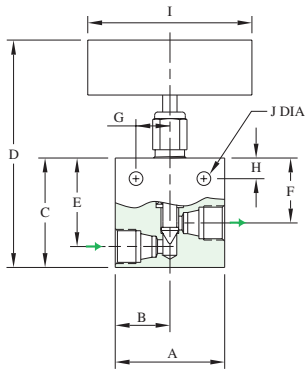


Figure 1

2-way Angle

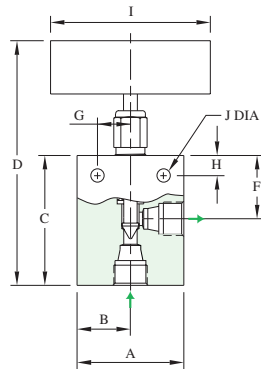


Figure 2

3-way Two on Pressure

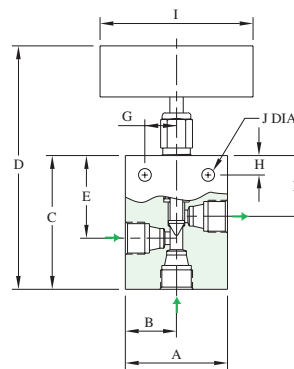


Figure 3

3-way One on Pressure

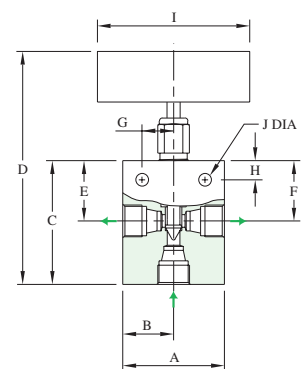


Figure 4

Catalog Number	Stem Style	Connection	A	B	C	D	E	F	G	H	I	J	K	L	Thk.	Fig
SLPV61V SLPV61R	Vee Reg	3/8" SL/P Tube	2.00" (50.8)	1.00" (25.4)	2.00" (50.8)	4.50" (114.3)	1.62" (41.1)	1.19" (30.2)	0.62" (15.7)	0.38" (9.7)	3.00" (76.2)	0.25" (6.4)	---	---	0.75" (19.1)	1
SLPV62V SLPV62R	Vee Reg	3/8" SL/P Tube	2.00" (50.8)	1.00" (25.4)	2.44" (62.0)	4.94" (125.5)	---	1.19" (30.2)	0.62" (15.7)	0.38" (9.7)	3.00" (76.2)	0.25" (6.4)	---	---	0.75" (19.1)	2
SLPV63V SLPV63R	Vee Reg	3/8" SL/P Tube	2.00" (50.8)	1.00" (25.4)	2.62" (66.5)	5.12" (130.0)	1.62" (41.1)	1.19" (30.2)	0.62" (15.7)	0.38" (9.7)	3.00" (76.2)	0.25" (6.4)	---	---	0.75" (19.1)	3
SLPV64V SLPV64R	Vee Reg	3/8" SL/P Tube	2.00" (50.8)	1.00" (25.4)	2.44" (62.0)	4.94" (125.5)	1.19" (30.2)	1.19" (30.2)	0.62" (15.7)	0.38" (9.7)	3.00" (76.2)	0.25" (6.4)	---	---	0.75" (19.1)	4
SLPV65V SLPV65R	Vee Reg	3/8" SL/P Tube	2.00" (50.8)	1.00" (25.4)	3.38" (85.9)	8.38" (212.9)	1.68" (42.7)	1.19" (30.2)	0.62" (15.7)	0.38" (9.7)	3.00" (76.2)	0.25" (6.4)	---	---	0.75" (19.1)	5
SLPV66V SLPV66R	Vee Reg	3/8" SL/P Tube	2.00" (50.8)	1.00" (25.4)	2.25" (57.2)	4.75" (120.7)	---	1.19" (30.2)	0.62" (15.7)	0.38" (9.7)	3.00" (76.2)	0.25" (6.4)	0.50" (12.7)	0.63" (16.0)	0.75" (19.1)	6
SLPMV66V	Meter	3/8" SL/P Tube	2.50" (63.5)	1.25" (31.8)	2.62" (66.5)	6.69" (169.9)	---	1.31" (33.3)	0.69" (17.5)	0.38" (9.7)	3.00" (76.2)	0.25" (6.4)	0.75" (19.1)	1.03" (26.2)	1.00" (25.4)	7
SLPMMV66V	Micro-Meter	3/8" SL/P Tube	2.50" (63.5)	1.25" (31.8)	2.62" (66.5)	7.33" (186.2)	---	1.31" (33.3)	0.69" (17.5)	0.38" (9.7)	2.35" (59.7)	0.25" (6.4)	0.75" (19.1)	1.03" (26.2)	1.00" (25.4)	8

See page LP-1 for orifice and Cv

2-stem Manifold

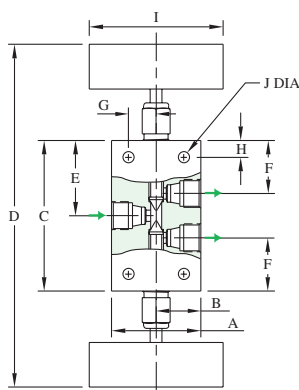


Figure 5

Replaceable Seat

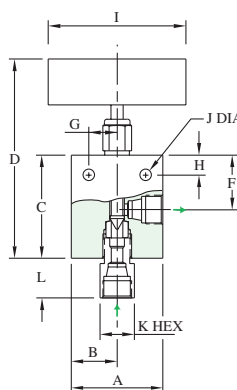


Figure 6

Metering

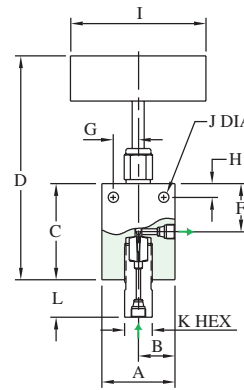


Figure 7

Micro-Metering

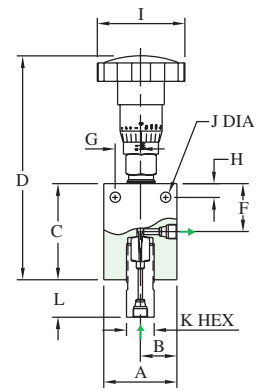


Figure 8

All dimensions are for reference only and are subject to change.
Dimensions in parentheses are millimeters (mm)

NEEDLE VALVES FOR 5,500 PSI (380 BAR)

1/2" L/P TUBE, SINGLE FERRULE COMPRESSION

2-way Straight

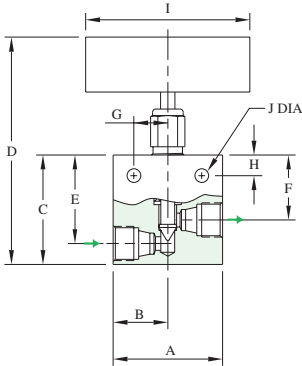


Figure 1

2-way Angle

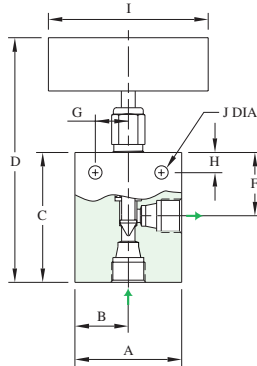


Figure 2

3-way Two on Pressure

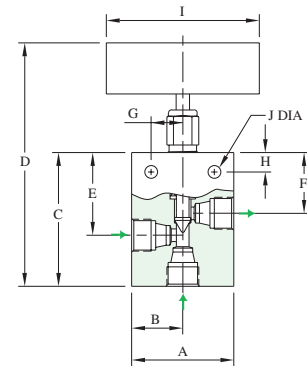


Figure 3

Catalog Number	Stem Style	Connection	A	B	C	D	E	F	G	H	I	J	K	L	Thk.	Fig
SLPV81V	Vee	1/2" L/P	2.50"	1.25"	2.88"	6.32"	2.38"	1.75"	0.69"	0.50"	4.00"	0.34"	---	---	1.00"	1
SLPV81R	Reg	Tube	(63.5)	(31.8)	(73.2)	(160.5)	(60.5)	(44.5)	(17.5)	(12.7)	(101.6)	(8.6)	---	---	(25.4)	
SLPV82V	Vee	1/2" L/P	2.50"	1.25"	3.38"	6.82"	---	1.75"	0.69"	0.50"	4.00"	0.34"	---	---	1.00"	2
SLPV82R	Reg	Tube	(63.5)	(31.8)	(85.9)	(173.2)	---	(44.5)	(17.5)	(12.7)	(101.6)	(8.6)	---	---	(25.4)	
SLPV83V	Vee	1/2" L/P	2.50"	1.25"	3.62"	7.06"	2.38"	1.75"	0.69"	0.50"	4.00"	0.34"	---	---	1.00"	3
SLPV83R	Reg	Tube	(63.5)	(31.8)	(91.9)	(179.3)	(60.5)	(44.5)	(17.5)	(12.7)	(101.6)	(8.6)	---	---	(25.4)	
SLPV84V	Vee	1/2" L/P	2.50"	1.25"	3.38"	6.82"	1.75"	1.75"	0.69"	0.50"	4.00"	0.34"	---	---	1.00"	4
SLPV84R	Reg	Tube	(63.5)	(31.8)	(85.9)	(173.2)	(44.5)	(44.5)	(17.5)	(12.7)	(101.6)	(8.6)	---	---	(25.4)	
SLPV85V	Vee	1/2" L/P	2.50"	1.25"	5.12"	12.00"	2.56"	1.75"	0.69"	0.50"	4.00"	0.34"	---	---	1.00"	5
SLPV85R	Reg	Tube	(63.5)	(31.8)	(130.0)	(304.8)	(65.0)	(44.5)	(17.5)	(12.7)	(101.6)	(8.6)	---	---	(25.4)	
SLPV86V	Vee	1/2" L/P	2.50"	1.25"	3.25"	7.72"	---	1.75"	0.69"	0.50"	4.00"	0.34"	0.75"	0.63"	1.00"	6
SLPV86R	Reg	Tube	(63.5)	(31.8)	(82.6)	(196.1)	---	(44.5)	(17.5)	(12.7)	(101.6)	(8.6)	(19.1)	(16.0)	(25.4)	

See page LP-1 for orifice and Cv

3-way One on Pressure

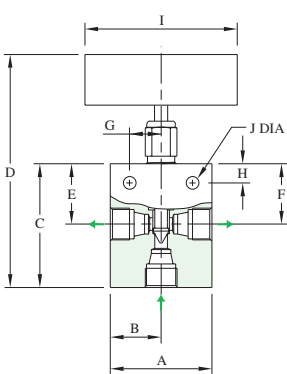


Figure 4

2-stem Manifold

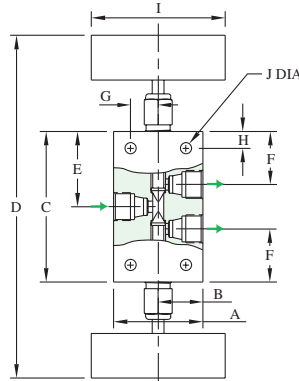


Figure 5

Replaceable Seat

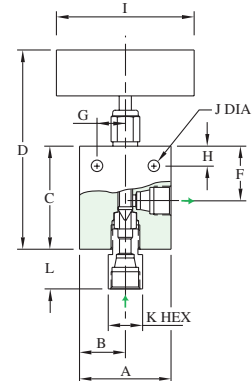


Figure 6

All dimensions are for reference only and are subject to change.
Dimensions in parentheses are millimeters (mm)