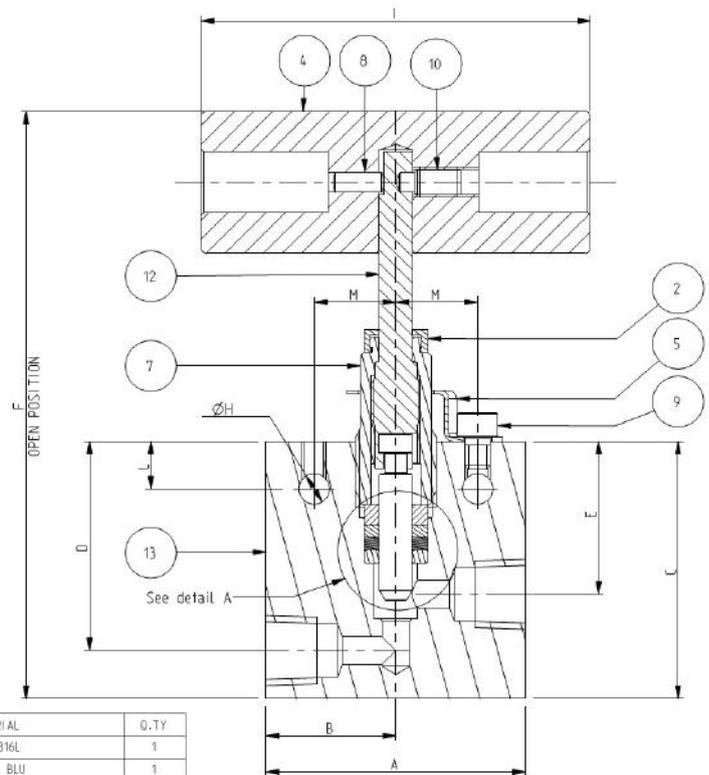
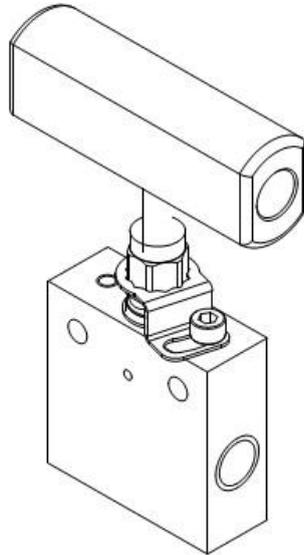


Needle Valves 15kpsi

Two Way Straight Needle Valves F/F - 15,000 psi



No	DESCRIPTION	MATERIAL	Q.TY
1	Anfi-extrusion ring	AISI 316L	1
2	Blue cap	HYTREL BLU	1
3	Gasket	Glass filled PTFE (Virgin PTFE for 1" NPT)	2 / 3
4	Handle	Anodized aluminum EN AW-6060 T6	1
5	Locking device	AISI 316L	1
6	Lower stem	ASTM A564 T630	1
7	Packing gland	CuAl11Fe6Ni6	1
8	Locking pin	A4 - AISI 316	1
9	Socket head cap screw	A4 - AISI 316L	1
10	Socket set screw	A4 - AISI 316L	1
11	Top packing washer	AISI 316L (CuAl11Fe6Ni6 for 1" NPT)	1
12	Upper stem	AISI 316L	1
13	Valve body	AISI 316L	1

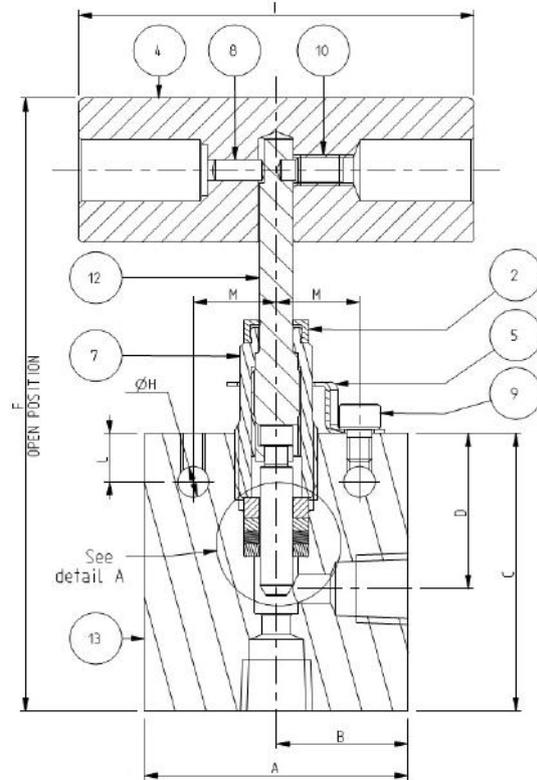
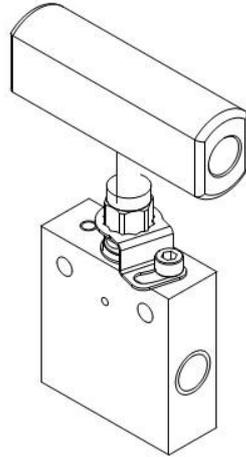
PLEASE NOTICE: the maximum working pressure for sizes 3/4" and 1" is 10.000

Order code	In/Out	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)	H mm (inch)	I mm (inch)	L mm (inch)	M mm (inch)	SP mm (inch)	Orifice mm (inch)
S15V01T11A	1/4" NPT	50.80 (2.00)	25.40 (1.00)	50.80 (2.00)	41.30 (1.63)	30.20 (1.19)	115.90 (4.60)	6.00 (0.24)	76.20 (3.00)	9.40 (0.37)	16.00 (0.63)	19.05 (0.75)	5.50 (0.22)
S15V01T12A	3/8" NPT	50.80 (2.00)	25.40 (1.00)	53.98 (2.13)	41.30 (1.63)	30.20 (1.19)	119.10 (4.70)	6.00 (0.24)	76.20 (3.00)	9.40 (0.37)	16.00 (0.63)	25.40 (1.00)	5.50 (0.22)
S15V01T13A	1/2" NPT	63.50 (2.50)	31.75 (1.25)	70.00 (2.76)	54.00 (2.13)	38.10 (1.50)	139.70 (5.50)	9.00 (0.35)	76.20 (3.00)	9.40 (0.37)	17.50 (0.69)	31.75 (1.25)	8.00 (0.31)
S10V01T14A*	3/4" NPT	76.20 (3.00)	38.10 (1.50)	95.25 (3.75)	73.00 (2.87)	57.00 (2.24)	184.8 (7.30)	11.50 (0.45)	232.70 (9.20)	16.00 (0.63)	22.35 (0.88)	44.45 (1.75)	11.10 (0.44)
S10V01T15A*	1" NPT	104.78 (4.13)	52.39 (2.06)	117.20 (2.80)	95.00 (3.74)	71.20 (2.80)	228.90 (9.00)	14.00 (0.55)	232.70 (9.20)	17.40 (0.69)	35.00 (1.38)	44.45 (1.75)	14.30 (0.56)

* = on request, minimum quantity may be requested

Needle Valves 15kpsi

Two Way Angle Needle Valves F/F - 15,000 psi



No	DESCRIPTION	MATERIAL	Q.TY
1	Anti-extrusion ring	AISI 316L	1
2	Blue cap	HYTREL BLU	1
3	Gasket	Glass filled PTFE (Virgin PTFE for 1" NPT)	2 / 3
4	Handle	Anodized aluminum EN AW-6060 T6	1
5	Locking device	AISI 316L	1
6	Lower stem	ASTM A564 T630	1
7	Packing gland	CuAl11Fe0Ni6	1
8	Locking pin	A4 - AISI 316	1
9	Socket head cap screw	A4 - AISI 316L	1
10	Socket set screw	A4 - AISI 316L	1
11	Top packing washer	AISI 316L (CuAl11Fe0Ni6 for 1" NPT)	1
12	Upper stem	AISI 316L	1
13	Valve body	AISI 316L	1

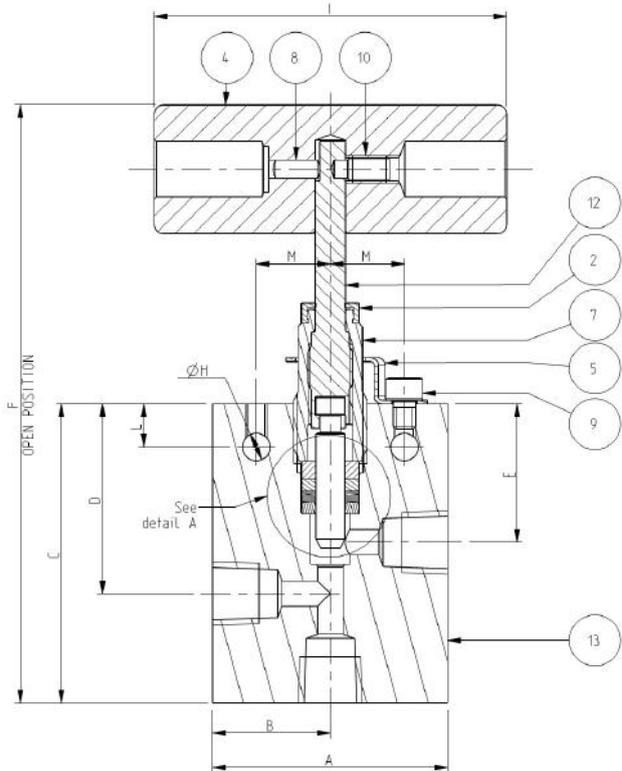
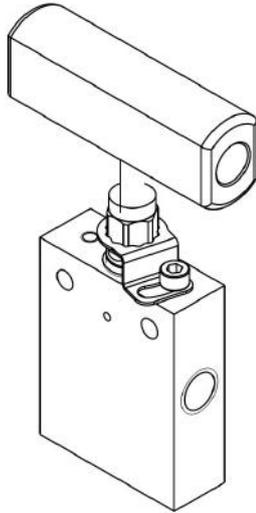
PLEASE NOTICE: the maximum working pressure for sizes 3/4" and 1" is 10.000

Order code	In/ Out	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	F mm (inch)	H mm (inch)	I mm (inch)	L mm (inch)	M mm (inch)	SP mm (inch)	Orifice mm (inch)
S15V02T11A	1/4 " NPT	50.80 (2.00)	25.40 (1.00)	53.98 (2.13)	30.20 (1.19)	119.10 (4.70)	6.00 (0.24)	76.20 (3.00)	9.40 (0.37)	16.00 (0.63)	19.05 (0.75)	5.50 (0.22)
S15V02T12A	3/8 " NPT	50.80 (2.00)	25.40 (1.00)	54.77 (2.16)	30.20 (1.19)	119.90 (4.70)	6.00 (0.24)	76.20 (3.00)	9.40 (0.37)	16.00 (0.63)	25.40 (1.00)	5.50 (0.22)
S15V02T13A	1/2 " NPT	63.50 (2.50)	31.75 (1.25)	70.00 (2.76)	38.13 (1.50)	139.70 (5.50)	9.00 (0.35)	76.20 (3.00)	9.40 (0.37)	17.50 (0.69)	31.75 (1.25)	8.00 (0.31)
S10V02T14A*	3/4 " NPT	76.20 (3.00)	38.10 (1.50)	95.25 (3.75)	57.00 (2.24)	184.80 (7.30)	11.50 (0.45)	232.70 (9.20)	16.00 (0.63)	22.35 (0.88)	44.45 (1.75)	11.10 (0.44)
S10V02T15A*	1 " NPT	104.78 (4.13)	52.39 (2.06)	117.20 (4.61)	71.20 (2.80)	228.90 (9.00)	14.00 (0.55)	232.70 (9.20)	17.40 (0.69)	35.00 (1.38)	44.45 (1.75)	14.30 (0.56)

* = on request, minimum quantity may be requested

Needle Valves 15kpsi

Three Way / Two on pressure Needle Valves F/F - 15,000 psi



No	DESCRIPTION	MATERIAL	Q.TY
1	Anti-extrusion ring	AISI 316L	1
2	Blue cap	HYTREL BLU	1
3	Gasket	Glass filled PTFE (Virgin PTFE for 1" NPT)	2 / 3
4	Handle	Anodized aluminum EN AW-6060 T6	1
5	Locking device	AISI 316L	1
6	Lower stem	ASTM A564 T630	1
7	Packing gland	CuAlTiFeNi6	1
8	Locking pin	A4 - AISI 316	1
9	Socket head cap screw	A4 - AISI 316L	1
10	Socket set screw	A4 - AISI 316L	1
11	Top packing washer	AISI 316L (CuAlTiFeNi6 for 1" NPT)	1
12	Upper stem	AISI 316L	1
13	Valve body	AISI 316L	1

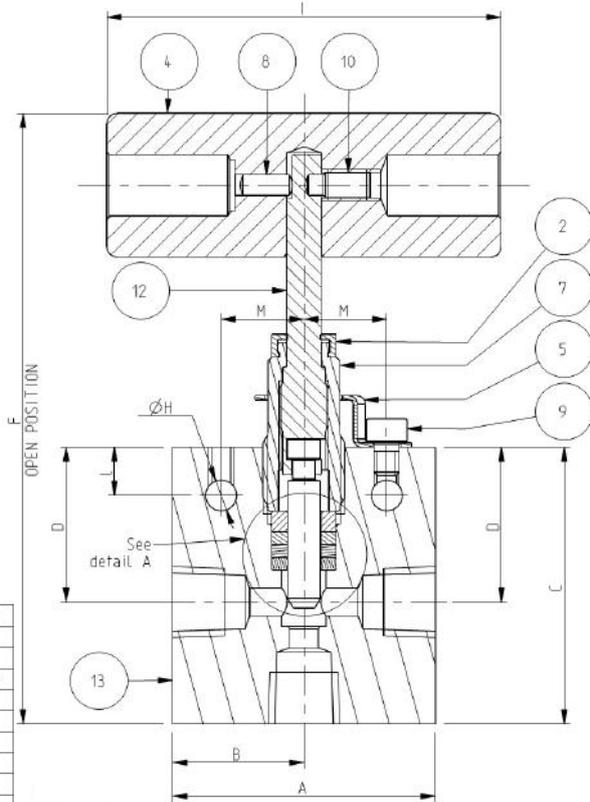
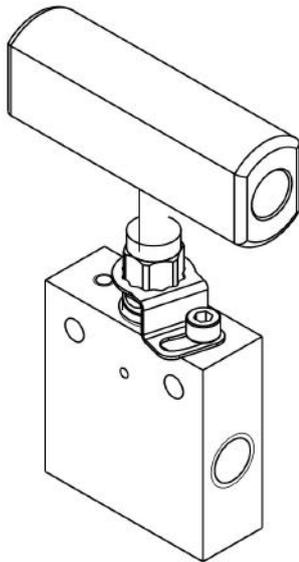
PLEASE NOTICE: the maximum working pressure for sizes 3/4" and 1" is 10.000

Order code	In/ Out	A mm (Inch)	B mm (Inch)	C mm (Inch)	D mm (Inch)	E mm (Inch)	F mm (Inch)	H mm (Inch)	I mm (Inch)	L mm (Inch)	M mm (Inch)	SP mm (Inch)	Orifice mm (Inch)
S15V03T11A	1/4" NPT	50.80 (2.00)	25.40 (1.00)	65.09 (2.56)	41.30 (1.63)	30.2 (1.19)	130.20 (5.10)	6.00 (0.24)	76.20 (3.00)	9.40 (0.37)	16.00 (0.63)	19.05 (0.75)	5.50 (0.22)
S15V03T12A	3/8" NPT	50.80 (2.00)	25.40 (1.00)	65.88 (2.59)	41.30 (1.63)	30.2 (1.19)	131.00 (5.20)	6.00 (0.24)	76.20 (3.00)	9.40 (0.37)	16.00 (0.63)	25.40 (1.00)	5.50 (0.22)
S15V03T13A	1/2" NPT	63.50 (2.50)	31.75 (1.25)	85.73 (3.38)	54.00 (2.13)	38.1 (1.50)	155.40 (6.10)	9.00 (0.35)	76.20 (3.00)	9.40 (0.37)	17.50 (0.69)	31.75 (1.25)	8.00 (0.31)
S10V03T14A*	3/4" NPT	76.20 (3.00)	38.10 (1.50)	111.12 (4.37)	73.00 (2.87)	57.0 (2.24)	200.60 (7.90)	11.50 (0.45)	232.70 (9.20)	16.00 (0.63)	22.35 (0.88)	44.45 (1.75)	11.10 (0.44)
S10V03T15A*	1" NPT	104.78 (4.13)	52.39 (2.06)	141.29 (5.56)	95.00 (3.74)	71.2 (2.80)	253.00 (10.00)	14.00 (0.55)	232.70 (9.20)	17.40 (0.69)	35.00 (1.38)	44.45 (1.75)	14.30 (0.56)

* = on request, minimum quantity may be requested

Needle Valves 15kpsi

Three Way / One on pressure Needle Valves F/F - 15,000 psi



No	DESCRIPTION	MATERIAL	Q.TY
1	Anti-extrusion ring	AISI 316L	1
2	Blue cap	HYTREL BLU	1
3	Gasket	Glass filled PTFE (Virgin PTFE for 1" NPT)	2 / 3
4	Handle	Anodized aluminum EN AW-6060 T6	1
5	Locking device	AISI 316L	1
6	Lower stem	ASTM A564 T630	1
7	Packing gland	CuAl1FeNi6	1
8	Locking pin	A4 - AISI 316	1
9	Socket head cap screw	A4 - AISI 316L	1
10	Socket set screw	A4 - AISI 316L	1
11	Top packing washer	AISI 316L (CuAl1FeNi6 for 1" NPT)	1
12	Upper stem	AISI 316L	1
13	Valve body	AISI 316L	1

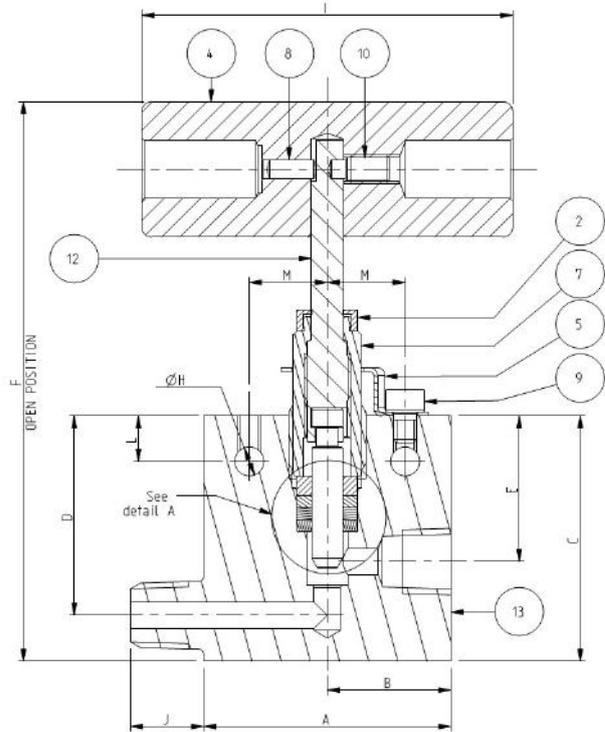
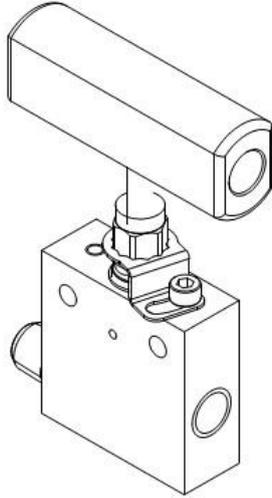
PLEASE NOTICE: the maximum working pressure for sizes 3/4" and 1" is 10.000

Order code	In/ Out	A mm (Inch)	B mm (Inch)	C mm (Inch)	D mm (Inch)	F mm (Inch)	H mm (Inch)	I mm (Inch)	L mm (Inch)	M mm (Inch)	SP mm (Inch)	Orifice mm (Inch)
S15V04T11A	1/4" NPT	50.80 (2.00)	25.40 (1.00)	53.98 (2.13)	30.20 (1.19)	119.10 (4.70)	6.00 (0.24)	76.20 (3.00)	9.40 (0.37)	16.00 (0.63)	19.05 (0.75)	5.50 (0.22)
S15V04T12A	3/8" NPT	50.80 (2.00)	25.40 (1.00)	54.77 (2.16)	30.20 (1.19)	119.10 (4.70)	6.00 (0.24)	76.20 (3.00)	9.40 (0.37)	16.00 (0.63)	25.40 (1.00)	5.50 (0.22)
S15V04T13A	1/2" NPT	63.50 (2.50)	31.75 (1.25)	70.00 (2.76)	38.13 (1.50)	139.70 (5.50)	9.00 (0.35)	76.20 (3.00)	9.40 (0.37)	17.50 (0.69)	31.75 (1.25)	8.00 (0.31)
S10V04T14A*	3/4" NPT	76.20 (3.00)	38.10 (1.50)	95.25 (3.75)	57.00 (2.24)	184.80 (7.30)	11.50 (0.45)	232.70 (9.20)	16.00 (0.63)	22.35 (0.88)	44.45 (1.75)	11.10 (0.44)
S10V04T15A*	1" NPT	104.78 (4.13)	52.39 (2.06)	117.20 (4.61)	71.20 (2.80)	228.90 (9.00)	14.00 (0.55)	232.70 (9.20)	17.40 (0.69)	35.00 (1.38)	44.45 (1.75)	14.30 (0.56)

* = on request, minimum quantity may be requested

Needle Valves 15kpsi

Two Way Straight Needle Valves M/F - 15,000 psi



No	DESCRIPTION	MATERIAL	Q.TY
1	Anti-extrusion ring	AISI 316L	1
2	Blue cap	HYTREL BLU	1
3	Gasket	Glass filled PTFE (Virgin PTFE for 1" NPT)	2 / 3
4	Handle	Anodized aluminum EN AW-6060 T6	1
5	Locking device	AISI 316L	1
6	Lower stem	ASTM A564 T630	1
7	Packing gland	CuAlTiFeNi6	1
8	Locking pin	A4 - AISI 316	1
9	Socket head cap screw	A4 - AISI 316L	1
10	Socket set screw	A4 - AISI 316L	1
11	Top packing washer	AISI 316L (CuAlTiFeNi6 for 1" NPT)	1
12	Upper stem	AISI 316L	1
13	Valve body	AISI 316L	1



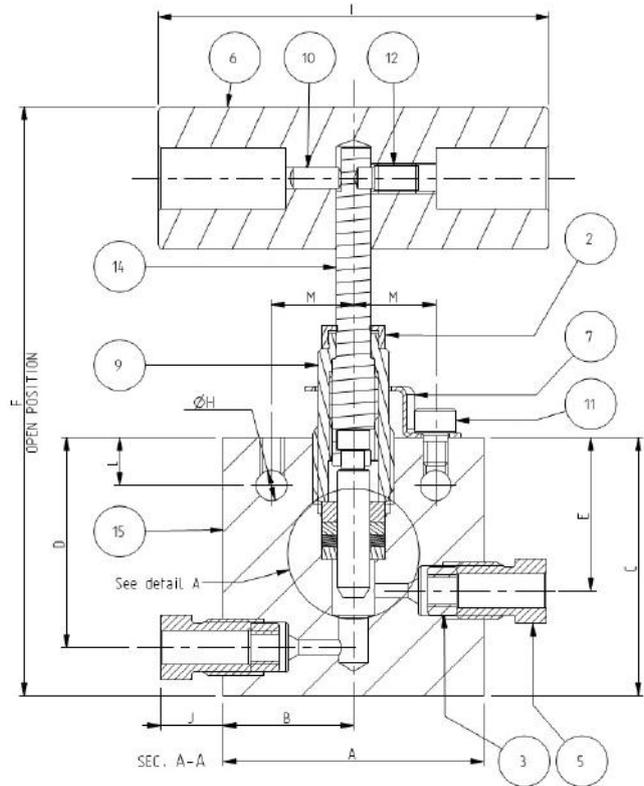
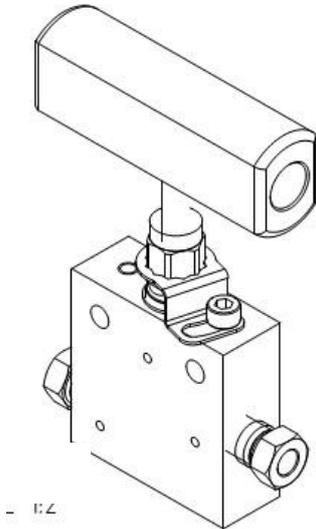
PLEASE NOTICE: the maximum working pressure for sizes 3/4" and 1" is

Order code	In/Out	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)	H mm (inch)	I mm (inch)	J mm (inch)	L mm (inch)	M mm (inch)	SP mm (inch)	Orifice mm (inch)
S15V10T11A	1/4" NPT	50.80 (2.00)	25.40 (1.00)	50.80 (2.00)	41.30 (1.63)	30.20 (1.19)	115.90 (4.60)	6.00 (0.24)	76.20 (3.00)	15.00 (0.60)	9.40 (0.37)	16.00 (0.63)	19.50 (0.77)	5.50 (0.22)
S15V10T12A	3/8" NPT	50.80 (2.00)	25.40 (1.00)	53.98 (2.13)	41.30 (1.63)	30.20 (1.19)	119.10 (4.70)	6.00 (0.24)	76.20 (3.00)	19.00 (0.70)	9.40 (0.37)	16.00 (0.63)	25.40 (1.00)	5.50 (0.22)
S15V10T13A	1/2" NPT	63.50 (2.50)	31.75 (1.25)	69.85 (2.75)	57.00 (2.24)	38.10 (1.50)	139.50 (5.50)	9.00 (0.35)	76.20 (3.00)	25.00 (1.00)	9.40 (0.37)	17.50 (0.69)	31.75 (1.25)	8.00 (0.31)
S10V10T14A*	3/4" NPT	76.20 (3.00)	38.10 (1.50)	95.25 (3.75)	76.00 (2.99)	57.00 (2.24)	184.80 (7.30)	11.50 (0.45)	232.70 (9.20)	25.00 (1.00)	16.00 (0.63)	22.35 (0.88)	44.45 (1.75)	11.10 (0.44)
S10V10T15A*	1" NPT	104.78 (4.13)	52.39 (2.06)	117.48 (4.63)	95.00 (3.74)	71.20 (2.80)	229.10 (9.00)	14.00 (0.55)	232.70 (9.20)	29.00 (1.10)	17.40 (0.69)	35.00 (1.38)	44.45 (1.75)	14.30 (0.56)

* = on request, minimum quantity may be requested

Needle Valves 20kpsi

Two Way Straight Needle Valves - 20,000 psi



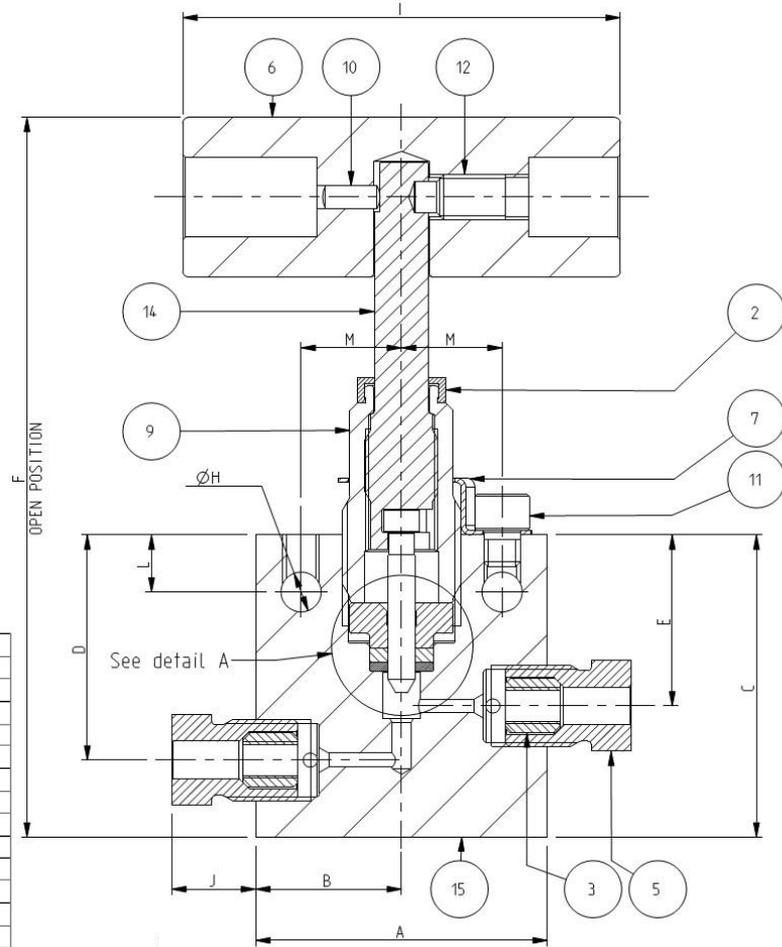
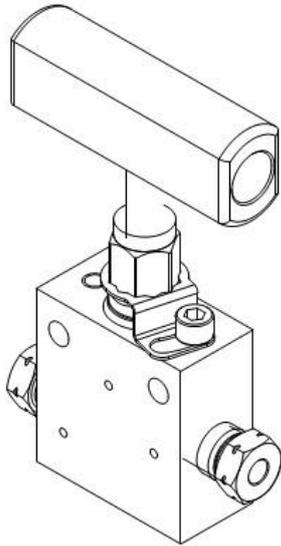
No	DESCRIPTION	MATERIAL	Q.TY
1	Anti-extrusion ring	AISI 316L	1
2	Blue cap	HYTREL BLU	1
3	Collar	AISI 316L	2
4	Gasket	Glass filled PTFE (Virgin PTFE for 1" NPT)	2 / 3
5	Gland	AISI 316L	2
6	Handle	Anodized aluminum EN AW-6060 T6	1
7	Locking device	AISI 316L	1
8	Lower stem	ASIM A564 T630	1
9	Packing gland	CuAl11Fe6Ni6	1
10	Locking PIN	A4 - AISI 316	1
11	Socket head cap screw	A4 - AISI 316L	1
12	Socket set screw	A4 - AISI 316L	1
13	Top packing washer	AISI 316L (CuAl11Fe6Ni6 for 1" NPT)	1
14	Upper stem	AISI 316L	1
15	Valve body	AISI 316L	1

Order code	In/Out	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)	H mm (inch)	I mm (inch)	J mm (inch)	L mm (inch)	M mm (inch)	SP mm (inch)	Orifice mm (inch)
S20V01T01A	1/4" O.D.	50.80 (2.00)	25.40 (1.00)	50.80 (2.00)	41.30 (1.63)	30.20 (1.19)	115.90 (4.60)	6.00 (0.24)	76.20 (3.00)	12.20 (0.50)	9.40 (0.37)	16.00 (0.63)	19.05 (0.75)	5.50 (0.22)
S20V01T02A	3/8" O.D.	50.80 (2.00)	25.40 (1.00)	50.80 (2.00)	41.30 (1.63)	30.20 (1.19)	115.90 (4.60)	6.00 (0.24)	76.20 (3.00)	14.30 (0.60)	9.40 (0.37)	16.00 (0.63)	19.05 (0.75)	5.50 (0.22)
S20V01T03A	9/16" O.D.	63.50 (2.50)	31.75 (1.25)	70.00 (2.76)	57.30 (2.26)	41.40 (1.63)	139.70 (5.50)	9.00 (0.35)	76.20 (3.00)	18.60 (0.70)	9.40 (0.37)	17.50 (0.69)	25.40 (1.00)	8.00 (0.31)
S20V01T04A*	3/4" O.D.	76.20 (3.00)	38.10 (1.50)	95.25 (3.75)	76.20 (3.00)	57.20 (2.25)	184.80 (7.30)	11.50 (0.45)	232.70 (9.20)	18.80 (0.70)	16.00 (0.63)	22.35 (0.88)	34.90 (1.37)	11.10 (0.44)
S20V01T05A*	1" O.D.	104.78 (4.13)	52.39 (2.06)	117.20 (4.61)	95.00 (3.74)	71.20 (2.80)	228.90 (9.00)	14.00 (0.55)	232.70 (9.20)	21.30 (0.80)	17.40 (0.69)	35.00 (1.38)	44.45 (1.75)	14.30 (0.56)

* = on request, minimum quantity may be requested

Needle Valves 30kpsi

Two Way Straight Needle Valves - 30,000 psi



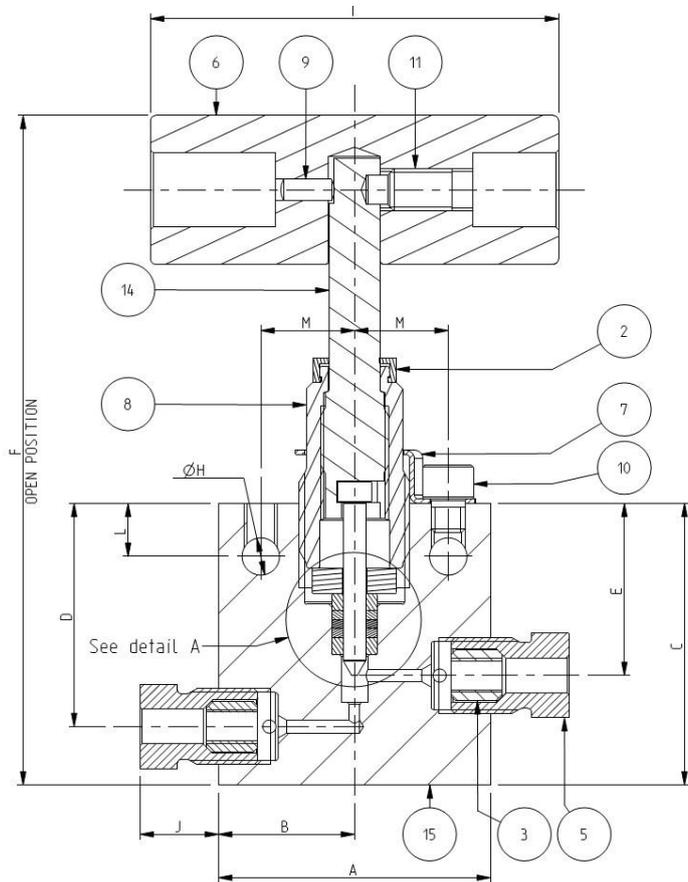
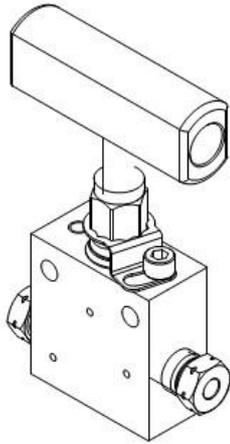
No	DESCRIPTION	MATERIAL	Q.TY
1	Anti-extrusion ring	AISI 316L	1
2	Blue cap	HYREL BLUE	1
3	Collar	AISI 316L	2
4	Gasket	Glass filled PTFE	1
5	Gland	AISI 316L	2
6	Handle	Anodized aluminum EN AW-6060 T6	1
7	Locking device	AISI 316L	1
8	Lower stem	ASTM A564 T630	1
9	Packing gland	CuAlTiFeNi6	1
10	Locking pin	A4 - AISI 316	1
11	Socket head cap screw	A4 - AISI 316L	1
12	Socket set screw	A4-70	1
13	Top packing washer	AISI 316L	1
14	Upper stem	AISI 316L	1
15	Valve body	AISI 316L	1

Order code	In/Out	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)	H mm (inch)	I mm (inch)	J mm (inch)	L mm (inch)	M mm (inch)	SP mm (inch)	Orifice mm (inch)
S30V01T01A	1/4 " O.D.	50.80 (2.00)	25.40 (1.00)	53.00 (2.09)	39.50 (1.56)	30.00 (1.18)	126.30 (5.00)	7.00 (0.28)	76.20 (3.00)	14.60 (0.60)	10.00 (0.39)	17.50 (0.69)	25.40 (1.00)	3.20 (0.13)
S30V01T02A	3/8 " O.D.	50.80 (2.00)	25.40 (1.00)	53.00 (2.09)	39.50 (1.56)	30.00 (1.18)	126.30 (5.00)	7.00 (0.28)	76.20 (3.00)	18.70 (0.70)	10.00 (0.39)	17.50 (0.69)	25.40 (1.00)	3.20 (0.13)
S30V01T03A	9/16 " O.D.	66.68 (2.63)	33.34 (1.31)	60.00 (2.36)	40.00 (1.57)	29.00 (1.14)	133.30 (5.20)	7.00 (0.28)	76.20 (3.00)	26.90 (1.10)	10.00 (0.39)	17.50 (0.69)	38.10 (1.50)	3.20 (0.13)

PLEASE NOTICE: high pressure needle valves size 3/4" and 1" O.D. are not available.

Needle Valves 60kpsi

Two Way Straight Needle Valves - 60,000 psi



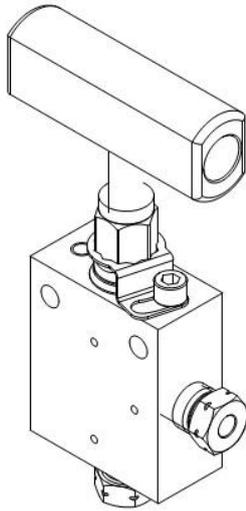
No	DESCRIPTION	MATERIAL	Q.TY
1	Anti-extrusion ring	AISI 316L	2
2	Blue cap	HYTREL BLUE	1
3	Collar	AISI 316L	2
4	Gasket	Glass filled PTFE	3
5	Gland	AISI 316L	2
6	Handle	Anodized aluminum EN AW-6060 T6	1
7	Locking device	AISI 316L	1
8	Packing gland	CuAl1Fe6Ni6	1
9	Locking pin	A4 - AISI 316	1
10	Socket head cap screw	A4 - AISI 316L	1
11	Socket set screw	A4-70	1
12	Stem	ASTM A564 T630	1
13	Top packing washer	AISI 316L	1
14	Upper stem	AISI 316L	1
15	Valve Body	AISI 316L	1

Order code	In/Out	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)	H mm (inch)	I mm (inch)	J mm (inch)	L mm (inch)	M mm (inch)	SP mm (inch)	Orifice mm (inch)
S60V01T01A	1/4 " O.D.	50.80 (2.00)	25.40 (1.00)	53.00 (2.09)	42.00 (1.65)	32.40 (1.28)	126.00 (5.00)	7.00 (0.28)	76.20 (3.00)	14.60 (0.60)	10.00 (0.39)	17.50 (0.69)	25.40 (1.00)	2.00 (0.06)
S60V01T02A	3/8 " O.D.	50.80 (2.00)	25.40 (1.00)	57.00 (2.24)	42.90 (1.69)	33.30 (1.31)	130.00 (5.10)	7.00 (0.28)	76.20 (3.00)	18.70 (0.70)	10.00 (0.39)	17.50 (0.69)	25.40 (1.00)	2.00 (0.06)
S60V01T03A	9/16 " O.D.	66.68 (2.63)	33.34 (1.31)	63.50 (2.50)	45.50 (1.79)	33.30 (1.31)	136.50 (5.40)	7.00 (0.28)	76.20 (3.00)	26.90 (1.10)	10.00 (0.39)	17.50 (0.69)	38.10 (1.50)	2.00 (0.06)

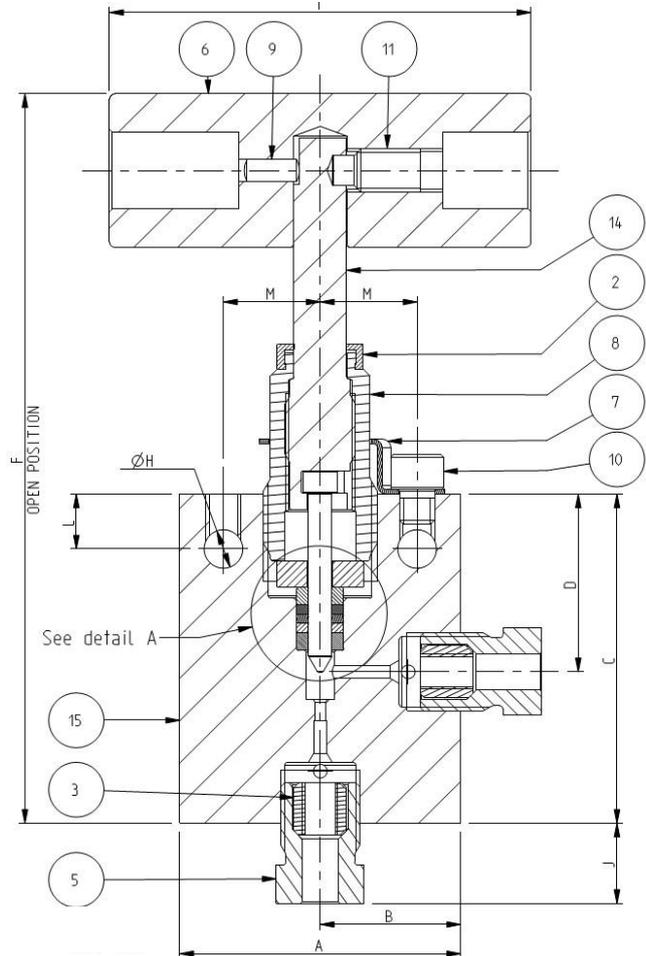
PLEASE NOTICE: high pressure needle valves size 3/4" and 1" O.D. are not available.

Needle Valves 60kpsi

Two Way Angle Needle Valves - 60,000 psi



No	DESCRIPTION	MATERIAL	Q.TY
1	Anti-extrusion ring	AISI 316L	2
2	Blue cap	HYTREL BLUE	1
3	Collar	AISI 316L	2
4	Gasket	Glass filled PTFE	3
5	Gland	AISI 316L	2
6	Handle	Anodized aluminum EN AW-6060 T6	1
7	Locking device	AISI 316L	1
8	Packing gland	CuAl1Fe6Ni6	1
9	Locking pin	A4 - AISI 316	1
10	Socket head cap screw	A4 - AISI 316L	1
11	Socket set screw	A4-70	1
12	Stem	ASTM A564 T630	1
13	Top packing washer	AISI 316L	1
14	Upper stem	AISI 316L	1
15	Valve body	AISI 316L	1

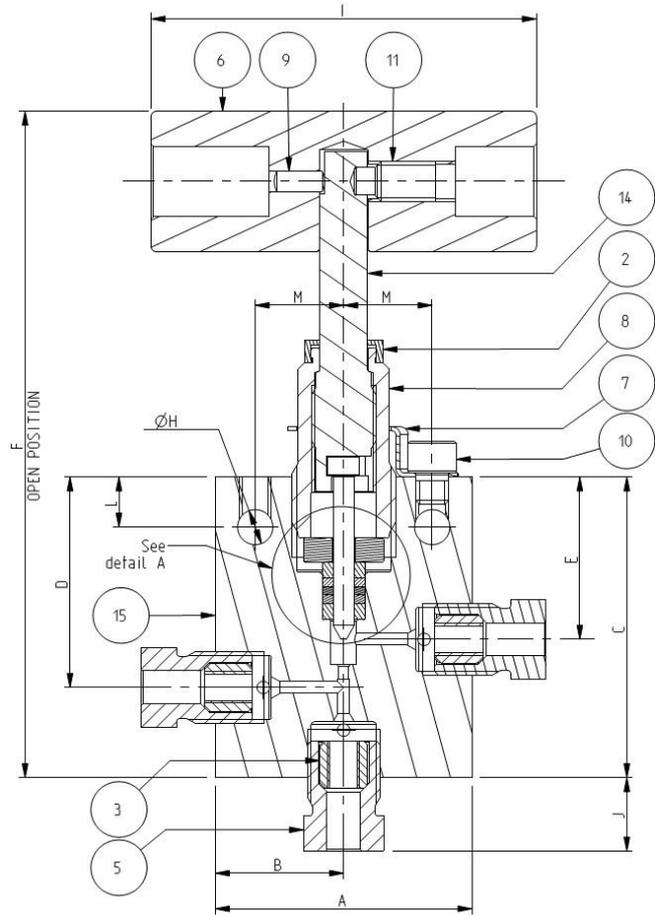
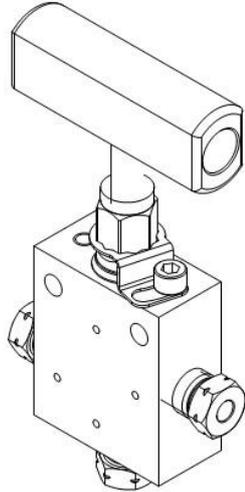


Order code	In/Out	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	F mm (inch)	H mm (inch)	I mm (inch)	J mm (inch)	L mm (inch)	M mm (inch)	SP mm (inch)	Orifice mm (inch)
S60V02T01A	1/4 " O.D.	50.80 (2.00)	25.40 (1.00)	60.00 (2.36)	32.40 (1.28)	133.00 (5.20)	7.00 (0.28)	76.20 (3.00)	14.60 (0.60)	10.00 (0.39)	17.50 (0.69)	25.40 (1.00)	2.00 (0.08)
S60V02T02A	3/8 " O.D.	50.80 (2.00)	25.40 (1.00)	66.00 (2.60)	33.30 (1.31)	139.00 (5.50)	7.00 (0.28)	76.20 (3.00)	18.70 (0.70)	10.00 (0.39)	17.50 (0.69)	25.40 (1.00)	2.00 (0.08)
S60V02T03A	9/16 " O.D.	66.68 (2.63)	33.34 (1.31)	71.00 (2.80)	33.30 (1.31)	144.00 (5.70)	7.00 (0.28)	76.20 (3.00)	26.90 (1.10)	10.00 (0.39)	17.50 (0.69)	38.10 (1.50)	2.00 (0.08)

➡ PLEASE NOTICE: high pressure needle valves size 3/4" and 1" O.D. are not available.

Needle Valves 60kpsi

Three Way Needle Valves - Two pressure connections - 60,000 psi



No	DESCRIPTION	MATERIAL	Q.TY
1	Anti-extrusion ring	AISI 316L	2
2	Blue cap	HYTREL BLUE	1
3	Collar	AISI 316L	3
4	Gasket	Glass filled PTFE	3
5	Gland	AISI 316L	3
6	Handle	Anodized aluminum EN AW-6060 T6	1
7	Locking device	AISI 316L	1
8	Packing gland	CuAl11Fe6Ni6	1
9	Locking pin	A4 - AISI 316	1
10	Socket head cap screw	A4 - AISI 316L	1
11	Socket set screw	A4-70	1
12	Stem	ASTM A564 T630	1
13	Top packing washer	AISI 316L	1
14	Upper stem	AISI 316L	1
15	Valve body	AISI 316L	1

Order code	In/Out	A mm (Inch)	B mm (Inch)	C mm (Inch)	D mm (Inch)	E mm (Inch)	F mm (Inch)	H mm (Inch)	I mm (Inch)	J mm (Inch)	L mm (Inch)	M mm (Inch)	SP mm (Inch)	Orifice mm (inch)
S60V03T01A*	1/4" O.D.	50.80 (2.00)	25.40 (1.00)	60.00 (2.36)	42.00 (1.65)	32.40 (1.28)	133.00 (5.20)	7.00 (0.28)	76.20 (3.00)	14.60 (0.60)	10.00 (0.39)	17.50 (0.69)	25.40 (1.00)	2.00 (0.08)
S60V03T02A*	3/8" O.D.	50.80 (2.00)	25.40 (1.00)	73.00 (2.87)	42.90 (1.69)	33.30 (1.31)	146.00 (5.70)	7.00 (0.28)	76.20 (3.00)	18.70 (0.70)	10.00 (0.39)	17.50 (0.69)	25.40 (1.00)	2.00 (0.08)
S60V03T03A*	9/16" O.D.	66.68 (2.63)	33.34 (1.31)	83.00 (3.27)	45.50 (1.79)	33.30 (1.31)	156.00 (6.10)	7.00 (0.28)	76.20 (3.00)	26.90 (1.10)	10.00 (0.39)	17.50 (0.69)	38.10 (1.50)	2.00 (0.08)

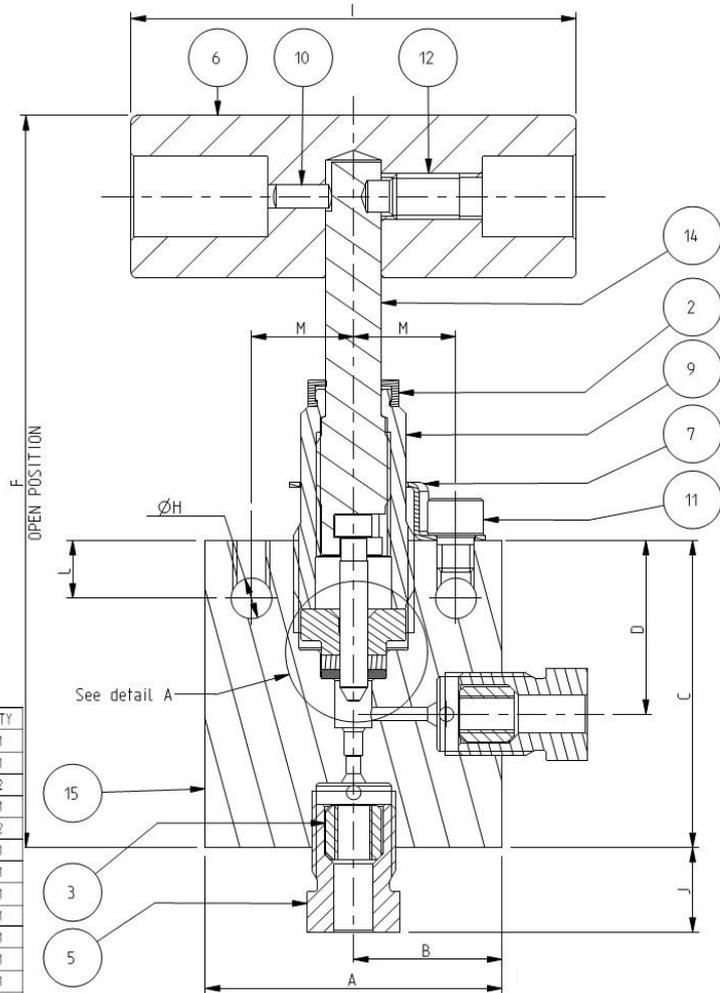
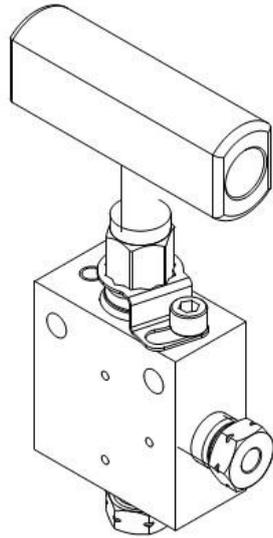
* = on request, minimum quantity may be requested



PLEASE NOTICE: high pressure needle valves size 3/4" and 1" O.D. are not available.

Needle Valves 30kpsi

Two Way Angle Needle Valves - 30,000 psi



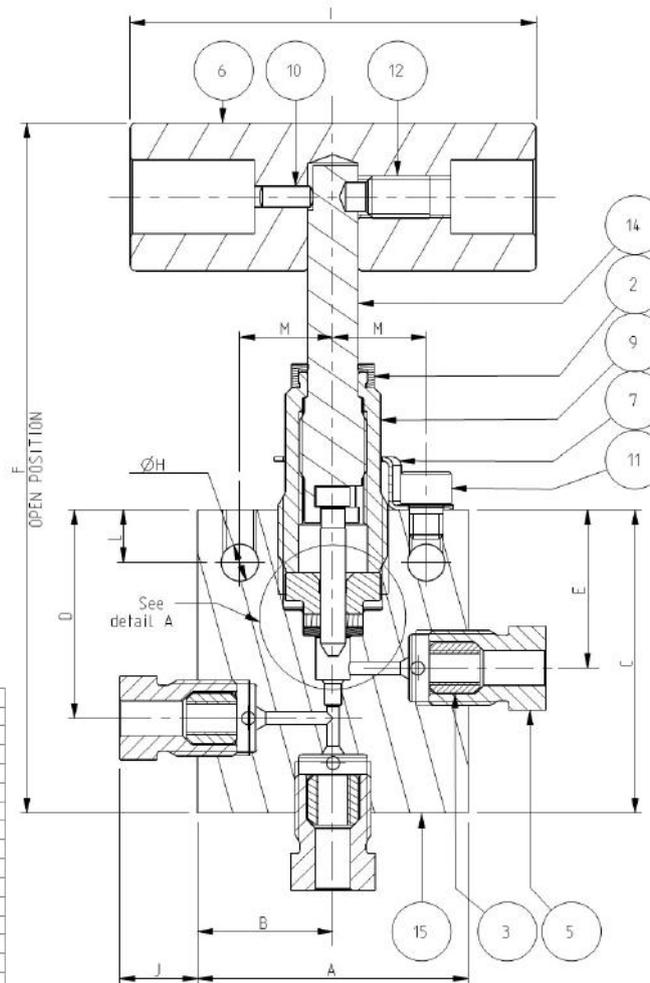
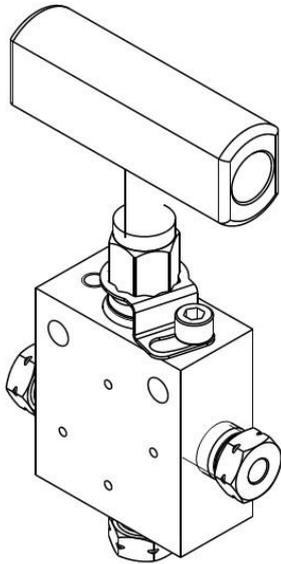
No	DESCRIPTION	MATERIAL	Q.TY
1	Anti-extrusion ring	AISI 316L	1
2	Blue cap	HYTEL BLUE	1
3	Collar	AISI 316L	2
4	Gasket	Glass filled PTFE	1
5	Gland	AISI 316L	2
6	Handle	Anodized aluminum EN AW-6060 T6	1
7	Locking device	AISI 316L	1
8	Lower stem	ASTM A564 T630	1
9	Packing gland	CuAl11Fe8Ni6	1
10	Locking pin	A4 - AISI 316	1
11	Socket head cap screw	A4 - AISI 316L	1
12	Socket set screw	A4-70	1
13	Top packing washer	AISI 316L	1
14	Upper stem	AISI 316L	1
15	Valve body	AISI 316L	1

Order code	In/Out	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	F mm (inch)	H mm (inch)	I mm (inch)	J mm (inch)	L mm (inch)	M mm (inch)	SP mm (inch)	Orifice mm (inch)
S30V02T01A	1/4" O.D.	50.80 (2.00)	25.40 (1.00)	53.00 (2.09)	30.00 (1.18)	126.30 (5.00)	7.00 (0.28)	76.20 (3.0)	14.60 (0.60)	10.00 (0.39)	17.50 (0.69)	25.40 (1.00)	3.20 (0.13)
S30V02T02A	3/8" O.D.	50.80 (2.00)	25.40 (1.00)	57.00 (2.24)	30.00 (1.18)	130.30 (5.1)	7.00 (0.28)	76.20 (3.0)	18.70 (0.70)	10.00 (0.39)	17.50 (0.69)	25.40 (1.00)	3.20 (0.13)
S30V02T03A	9/16" O.D.	66.68 (2.63)	33.34 (1.31)	62.00 (2.44)	29.00 (1.14)	135.30 (5.30)	7.00 (0.28)	76.20 (3.0)	26.90 (1.10)	10.00 (0.39)	17.50 (0.69)	38.10 (1.50)	3.20 (0.13)

PLEASE NOTICE: high pressure needle valves size 3/4" and 1" O.D. are not available.

Needle Valves 30kpsi

Three Way Needle Valves - Two Pressure Connections - 30,000 psi



No	DESCRIPTION	MATERIAL	Q.TY
1	Anti-extrusion ring	AISI 316L	1
2	Blue cap	HYTREL BLUE	1
3	Collar	AISI 316L	3
4	Gasket	Glass filled PTFE	1
5	Gland	AISI 316L	3
6	Handle	Anodized aluminum EN AW-6060 T6	1
7	Locking device	AISI 316L	1
8	Lower stem	ASTM A564 T630	1
9	Packing gland	CuAlTiFeNi6	1
10	Locking pin	A4 - AISI 316	1
11	Socket head cap screw	A4 - AISI 316L	1
12	Socket set screw	A4-70	1
13	Top packing washer	AISI 316L	1
14	Upper stem	AISI 316L	1
15	Valve body	AISI 316L	1

Order code	In/Out	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	F mm (inch)	H mm (inch)	I mm (inch)	J mm (inch)	L mm (inch)	M mm (inch)	SP mm (inch)	Orifice mm (inch)
S30V03T01A*	1/4" O.D.	50.80 (2.00)	25.40 (1.00)	57.50 (2.26)	39.50 (1.56)	130.80 (5.10)	7.00 (0.28)	76.20 (3.00)	14.60 (0.60)	10.00 (0.39)	17.50 (0.69)	25.40 (1.00)	3.20 (0.13)
S30V03T02A*	3/8" O.D.	50.80 (2.00)	25.40 (1.00)	69.60 (2.74)	39.50 (1.56)	142.90 (5.60)	7.00 (0.28)	76.20 (3.00)	18.70 (0.70)	10.00 (0.39)	17.50 (0.69)	25.40 (1.00)	3.20 (0.13)
S30V03T03A*	9/16" O.D.	66.68 (2.63)	33.34 (1.31)	77.50 (3.05)	40.00 (1.57)	150.80 (5.90)	7.00 (0.28)	76.20 (3.00)	26.90 (1.10)	10.00 (0.39)	17.50 (0.69)	38.10 (1.50)	3.20 (0.13)

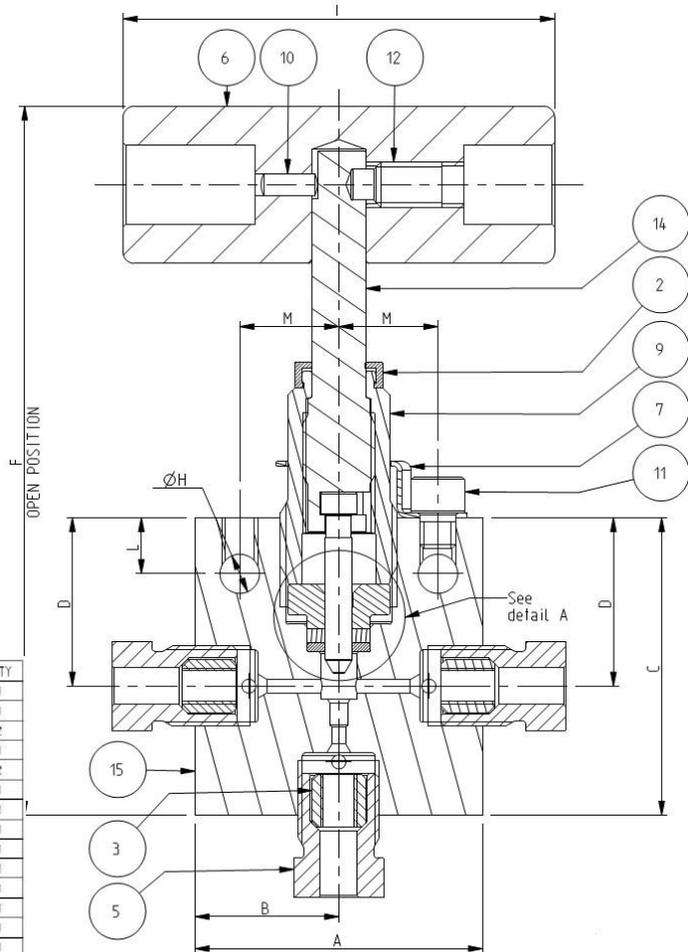
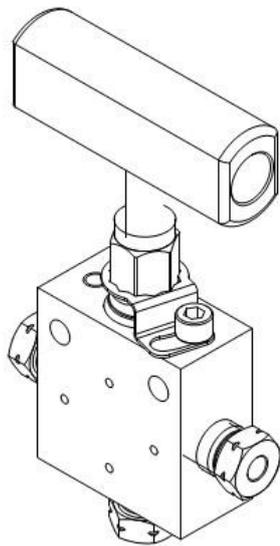
* = on request, minimum quantity may be requested



PLEASE NOTICE: high pressure needle valves size 3/4" and 1" O.D. are not available.

Needle Valves 30kpsi

Three Way Needle Valves - One Pressure Connection - 30,000 psi



No	DESCRIPTION	MATERIAL	Q.TY
1	Anti-extrusion ring	AISI 316L	1
2	Blue cap	HYTREL BLUE	1
3	Collar	AISI 316L	2
4	Gasket	Glass filled PTFE	1
5	Gland	AISI 316L	2
6	Handle	Anodized aluminum EN AW-6060 T6	1
7	Locking device	AISI 316L	1
8	Lower stem	ASTM A564 T630	1
9	Packing gland	CuAlTiFeNi6	1
10	Locking pin	A4 - AISI 316	1
11	Socket head cap screw	A4 - AISI 316L	1
12	Socket set screw	A4-70	1
13	Top packing washer	AISI 316L	1
14	Upper stem	AISI 316L	1
15	Valve body	AISI 316L	1

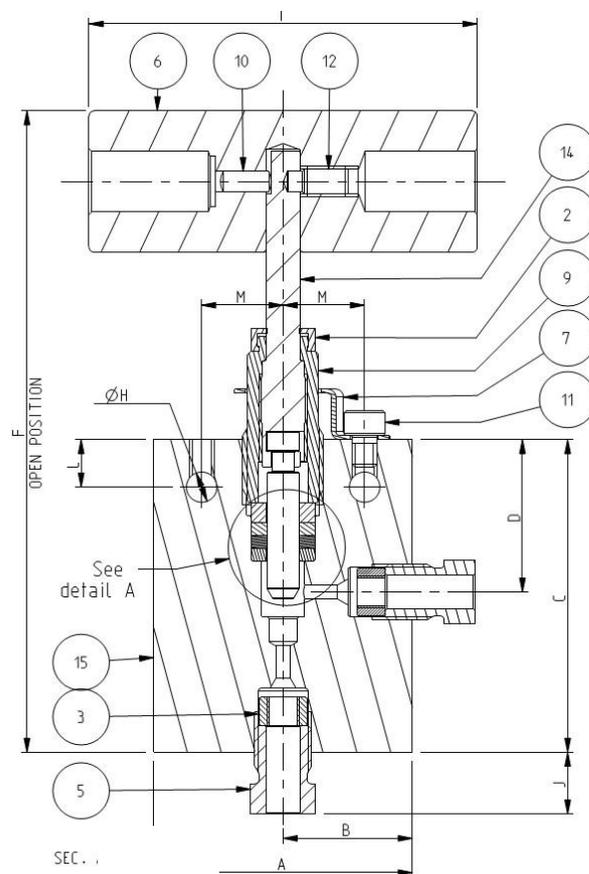
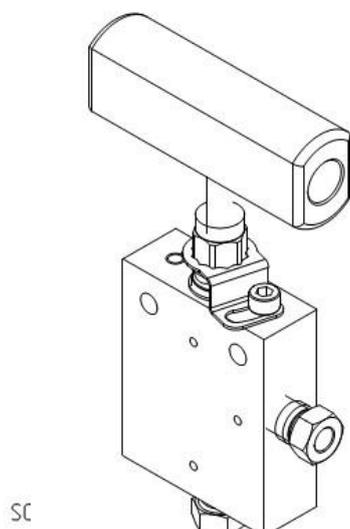
Order code	In/Out	A mm (Inch)	B mm (Inch)	C mm (Inch)	D mm (Inch)	F mm (Inch)	H mm (Inch)	I mm (Inch)	J mm (Inch)	L mm (Inch)	M mm (Inch)	SP mm (Inch)	Orifice mm (Inch)
S30V04T01A*	1/4" O.D.	50.80 (2.00)	25.40 (1.00)	53.00 (2.09)	30.00 (1.18)	126.30 (5.00)	7.00 (0.28)	76.20 (3.00)	14.60 (0.60)	10.00 (0.39)	17.50 (0.69)	25.40 (1.00)	3.20 (0.13)
S30V04T02A*	3/8" O.D.	50.80 (2.00)	25.40 (1.00)	57.00 (2.24)	30.00 (1.18)	130.30 (5.10)	7.00 (0.28)	76.20 (3.00)	18.70 (0.70)	10.00 (0.39)	17.50 (0.69)	25.40 (1.00)	3.20 (0.13)
S30V04T03A*	9/16" O.D.	66.68 (2.63)	33.34 (1.31)	62.00 (2.44)	29.00 (1.14)	135.30 (5.30)	7.00 (0.28)	76.20 (3.00)	26.90 (1.10)	10.00 (0.39)	17.50 (0.69)	38.10 (1.50)	3.20 (0.13)

* = on request, minimum quantity may be requested

PLEASE NOTICE: high pressure needle valves size 3/4" and 1" O.D. are not available.

Needle Valves 20kpsi

Two Way Angle Needle Valves - 20,000 psi



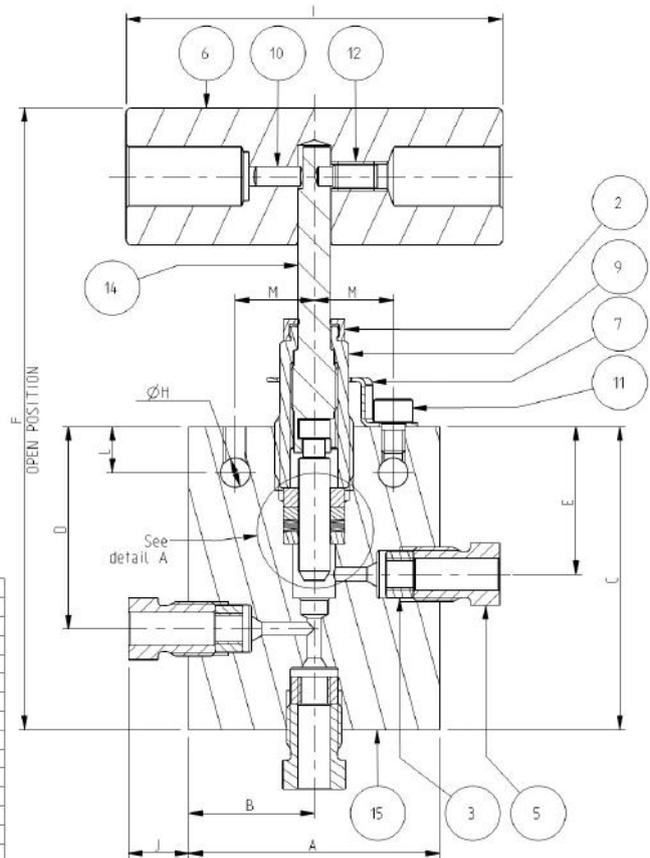
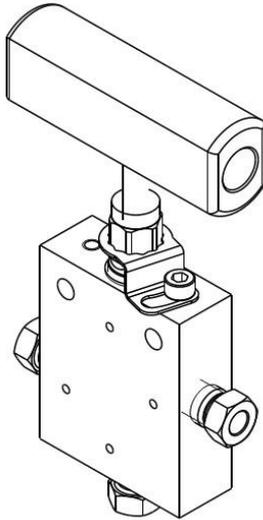
No	DESCRIPTION	MATERIAL	Q.TY
1	Anti-extrusion ring	AISI 316L	1
2	Blue cap	HYTREL BLU	1
3	Collar	AISI 316L	2
4	Gasket	Glass filled PTFE (Virgin PTFE for 1" NPT)	2 / 3
5	Gland	AISI 316L	2
6	Handle	Anodized aluminum EN AW-6060 T6	1
7	Locking device	AISI 316L	1
8	Lower stem	ASTM A564 T630	1
9	Packing gland	CuAl11Fe6Ni6	1
10	Locking pin	A4 - AISI 316	1
11	Socket head cap screw	A4 - AISI 316L	1
12	Socket set screw	A4 - AISI 316L	1
13	Top packing washer	AISI 316L (CuAl11Fe6Ni6 for 1" NPT)	1
14	Upper stem	AISI 316L	1
15	Valve body	AISI 316L	1

Order code	In/Out	A mm (Inch)	B mm (Inch)	C mm (Inch)	D mm (Inch)	F mm (Inch)	H mm (Inch)	I mm (Inch)	J mm (Inch)	L mm (Inch)	M mm (Inch)	SP mm (Inch)	Orifice mm (Inch)
S20V02T01A	1/4" O.D.	50.80 (2.00)	25.40 (1.00)	61.90 (2.44)	30.20 (1.19)	127.00 (5.00)	6.00 (0.24)	76.20 (3.00)	12.20 (0.50)	9.40 (0.37)	16.00 (0.63)	19.05 (0.75)	5.50 (0.22)
S20V02T02A	3/8" O.D.	50.80 (2.00)	25.40 (1.00)	61.90 (2.44)	30.20 (1.19)	127.00 (5.00)	6.00 (0.24)	76.20 (3.00)	14.30 (0.60)	9.40 (0.37)	16.00 (0.63)	19.05 (0.75)	5.50 (0.22)
S20V02T03A	9/16" O.D.	63.50 (2.50)	31.75 (1.25)	85.73 (3.38)	41.43 (1.63)	155.40 (6.10)	9.00 (0.35)	76.20 (3.00)	18.60 (0.70)	9.40 (0.37)	17.50 (0.69)	25.40 (1.00)	8.00 (0.31)
S20V02T04A*	3/4" O.D.	76.20 (3.00)	38.10 (1.50)	107.95 (4.25)	57.15 (2.25)	197.50 (7.80)	11.50 (0.45)	232.70 (9.20)	18.80 (0.70)	16.00 (0.63)	22.35 (0.88)	34.90 (1.37)	11.10 (0.44)
S20V02T05A*	1" O.D.	104.78 (4.13)	52.39 (2.06)	130.18 (5.13)	71.19 (2.80)	241.80 (9.50)	14.00 (0.55)	232.70 (9.20)	21.30 (0.80)	17.40 (0.69)	35.00 (1.38)	44.45 (1.75)	14.30 (0.56)

* = on request, minimum quantity may be requested

Needle Valves 20kpsi

Three Way Needle Valves - Two Pressure Connections - 20,000 psi



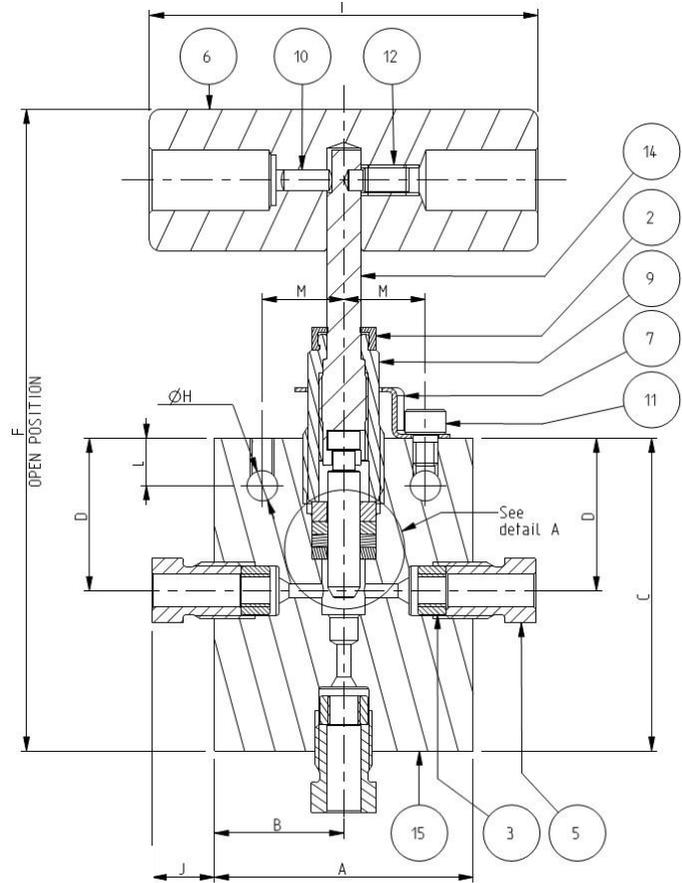
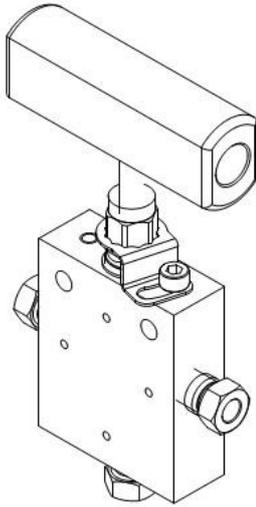
No	DESCRIPTION	MATERIAL	Q.TY
1	Anti-extrusion ring	AISI 316L	1
2	Blue cap	HYTREL BLU	1
3	Collar	AISI 316L	3
4	Gasket	Glass filled PTFE (Virgin PTFE for 1" NPT)	2 / 3
5	Gland	AISI 316L	3
6	Handle	Anodized aluminum EN AW-6060 T6	1
7	Locking device	AISI 316L	1
8	Lower stem	ASTM A564 T630	1
9	Packing gland	CuAl1FeNi6	1
10	Locking pin	A4 - AISI 316	1
11	Socket head cap screw	A4 - AISI 316L	1
12	Socket set screw	A4 - AISI 316L	1
13	Top packing washer	AISI 316L (CuAl1FeNi6 for 1" NPT)	1
14	Upper stem	AISI 316L	1
15	Valve body	AISI 316L	1

Order code	In/Out	A mm (Inch)	B mm (Inch)	C mm (Inch)	D mm (Inch)	F mm (Inch)	H mm (Inch)	I mm (Inch)	J mm (Inch)	L mm (Inch)	M mm (Inch)	SP mm (Inch)	ORIFICE mm (Inch)
S20V03T01A *	1/4" O.D.	50.80 (2.00)	25.40 (1.00)	61.90 (2.44)	41.30 (1.63)	127.00 (5.00)	6.00 (0.24)	76.20 (3.0)	12.20 (0.50)	9.40 (0.37)	16.00 (0.63)	19.05 (0.75)	5.50 (0.22)
S20V03T02A *	3/8" O.D.	50.80 (2.00)	25.40 (1.00)	66.68 (2.63)	41.30 (1.63)	131.80 (5.20)	6.00 (0.24)	76.20 (3.0)	14.30 (0.60)	9.40 (0.37)	16.00 (0.63)	19.05 (0.75)	5.50 (0.22)
S20V03T03A *	9/16" O.D.	63.50 (2.50)	31.75 (1.25)	88.90 (3.50)	57.30 (2.26)	158.60 (6.20)	9.00 (0.35)	76.20 (3.0)	18.60 (0.70)	9.40 (0.37)	17.50 (0.69)	25.40 (1.00)	8.00 (0.31)
S20V03T04A *	3/4" O.D.	76.20 (3.00)	38.10 (1.50)	117.48 (4.63)	76.20 (3.00)	207.00 (8.10)	11.50 (0.45)	232.70 (9.20)	18.80 (0.70)	16.00 (0.63)	22.35 (0.88)	34.90 (1.37)	11.10 (0.44)
S20V03T05A *	1" O.D.	104.78 (4.13)	52.39 (2.06)	152.40 (6.00)	71.20 (2.80)	264.10 (10.40)	14.00 (0.55)	232.70 (9.20)	21.30 (0.80)	17.40 (0.69)	35.00 (1.38)	44.45 (1.75)	14.30 (0.56)

* = on request, minimum quantity may be requested

Needle Valves 20kpsi

Three Way Needle Valves - One Pressure Connection - 20,000 psi



No	DESCRIPTION	MATERIAL	Q.TY
1	Anti-extrusion ring	AISI 316L	1
2	Blue cap	HYTREL BLU	1
3	Collar	AISI 316L	3
4	Gasket	Glass filled PTFE (Virgin PTFE for 1" NPT)	2 / 3
5	Gland	AISI 316L	3
6	Handle	Anodized aluminum EN AW-6060 T6	1
7	Locking device	AISI 316L	1
8	Lower stem	ASTM A564 T630	1
9	Packing gland	CuAlTiFeNi6	1
10	Locking pin	A4 - AISI 316	1
11	Socket head cap screw	A4 - AISI 316L	1
12	Socket set screw	A4 - AISI 316L	1
13	Top packing washer	AISI 316L (CuAlTiFeNi6 for 1" NPT)	1
14	Upper stem	AISI 316L	1
15	Valve body	AISI 316L	1

Order code	In/Out	A mm (Inch)	B mm (Inch)	C mm (Inch)	D mm (Inch)	F mm (Inch)	H mm (Inch)	I mm (Inch)	J mm (Inch)	L mm (Inch)	M mm (Inch)	SP mm (Inch)	ORIFICE mm (Inch)
S20V04T01A*	1/4" O.D.	50.80 (2.00)	25.40 (1.00)	61.90 (2.44)	30.20 (1.19)	127.00 (5.00)	6.00 (0.24)	76.20 (3.0)	12.20 (0.50)	9.40 (0.37)	16.00 (0.63)	19.05 (0.75)	5.50 (0.22)
S20V04T02A*	3/8" O.D.	50.80 (2.00)	25.40 (1.00)	61.90 (2.44)	30.20 (1.19)	127.00 (5.00)	6.00 (0.24)	76.20 (3.0)	14.30 (0.60)	9.40 (0.37)	16.00 (0.63)	19.05 (0.75)	5.50 (0.22)
S20V04T03A*	9/16" O.D.	63.50 (2.50)	31.75 (1.25)	85.73 (3.38)	41.43 (1.63)	155.40 (6.10)	9.00 (0.35)	76.20 (3.0)	18.60 (0.70)	9.40 (0.37)	17.50 (0.69)	25.40 (1.00)	8.00 (0.31)
S20V04T04A*	3/4" O.D.	76.20 (3.00)	38.10 (1.50)	107.95 (4.25)	57.15 (2.25)	197.50 (7.80)	11.50 (0.45)	232.70 (9.20)	18.80 (0.70)	16.00 (0.63)	22.35 (0.88)	34.90 (1.37)	11.10 (0.44)
S20V04T05A*	1" O.D.	104.78 (4.13)	52.39 (2.06)	130.18 (5.13)	71.19 (2.80)	241.80 (9.50)	14.00 (0.55)	232.70 (9.20)	21.30 (0.80)	17.40 (0.69)	35.00 (1.38)	44.45 (1.75)	14.30 (0.56)

* = on request, minimum quantity may be requested