

Micron Inline Filters

SIF Series

Features

- Remove system particulate contaminants.
- Inline filters are for use where space is limited.
- Replaceable filter element.
- Maximum operating pressure : 3000 psi @ 70°F (21°C)
- Operating temperature range : -20°F to 900°F (-28°C to 482°C) with SS316 body
- 1/8 to 1/2 in. and 3 to 10mm end connections.



Technical Data

Temperature and Pressure Rating

Filter Series	SIF1 & SIF2	SIF3 & SIF4
Material	SS 316	
Temperature °F(°C)	Working pressure psig(bar)	
-20(-28) to 100(37)	3000(206)	2500(172)
200(93)	2580(177)	2150(148)
300(148)	2330(160)	1940(133)
400(204)	2140(147)	1780(122)
500(260)	1990(137)	1660(114)
600(315)	1880(129)	1560(107)
650(343)	1845(127)	1540(106)
700(371)	1800(124)	1500(103)
750(398)	1760(121)	1460(100)
800(426)	1725(118)	1440(99.2)
850(454)	1690(116)	1410(97.1)
900(482)	1640(112)	1360(93.7)

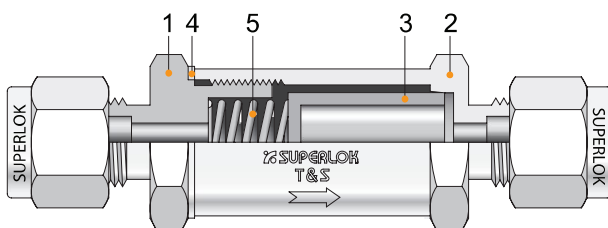
Effective Filtration Area

Filter Series	Effective Filtration Area in ² (mm ²)
	Sintered
SIF1	0.55(350)
SIF2	1.3(830)
SIF3 & SIF4	2.0(1280)

Filter Elements

Nominal Pore Size μm	Pore Size Range μm
0.5	0.5 to 2
2	1 to 4
7	5 to 10
15	11 to 25
60	50 to 75
90	75 to 100

Materials of Construction



No.	Description	Material
1	Inlet Body	A276-316
2	Outlet Body	A276-316
3	Filter Elements	SS316 - Sintered
4	Gasket	Silver Plate SS316
5	Spring	SS304



SUPERLOK® **Filters & Others**

Micron Inline Filters | Micron Tee Filters
Quick Connectors | Flexible Metal Hoses

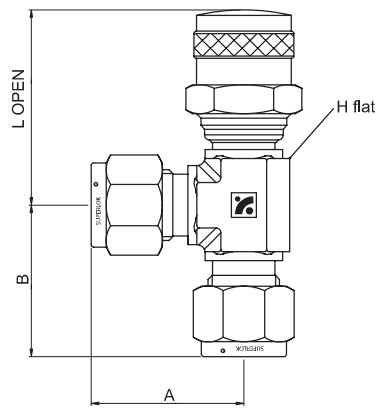


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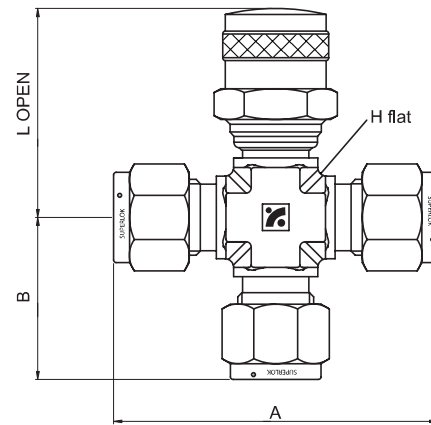


Other Valve Series

Table of Dimension



Elbow Type



Tee Type

Part Number		Inlet End Connection	Dimensions in.(mm)			
			L	A	B	H
SPUV	S4-ET	1/4" SUPERLOK	1.49 (38.0)	1.13 (28.8)	1.13 (28.8)	0.63 (15.9)
	S6-ET	3/8" SUPERLOK	1.49 (38.0)	1.20 (30.5)	1.20 (30.5)	0.63 (15.9)
	S8-ET	1/2" SUPERLOK	1.61 (41.0)	1.41 (35.8)	1.41 (35.8)	0.81 (20.6)

Part Number		Inlet End Connection	Dimensions in.(mm)			
			L	A	B	H
SPUV	S4-TT	1/4" SUPERLOK	1.49 (38.0)	2.26 (57.5)	1.13 (28.8)	0.63 (15.9)
	S6-TT	3/8" SUPERLOK	1.49 (38.0)	2.40 (61.0)	1.20 (30.5)	0.63 (15.9)
	S8-TT	1/2" SUPERLOK	1.61 (41.0)	2.82 (71.6)	1.41 (35.8)	0.81 (20.6)

* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change.

ordering information

Example : **SPUV - S 4 - UT - SS**

1 2 3 4 5

1. Valve Series

SPUV

3. End Connection Size

Tube O.D Designation

Tube O.D (inch)	1/4	3/8	1/2
Designation	4	6	8
Tube O.D (mm)	6	10	12
Designation	6M	10M	12M

4. Pattern Designator

Nil : Straight Type

UT : Union Type

ET : Elbow Type

TT : Tee Type

2. End Connection

S : SUPERLOK Tube Fitting

F : Female Thread

M : Male Thread

Pipe Thread Designation

Size (inch)	1/8	1/4	3/8	1/2
BSPT	2R	4R	6R	8R
NPT	2N	4N	6N	8N

5. Body Material

SS : 316 Stainless Steel

B : Brass

Purge Valves

Applications

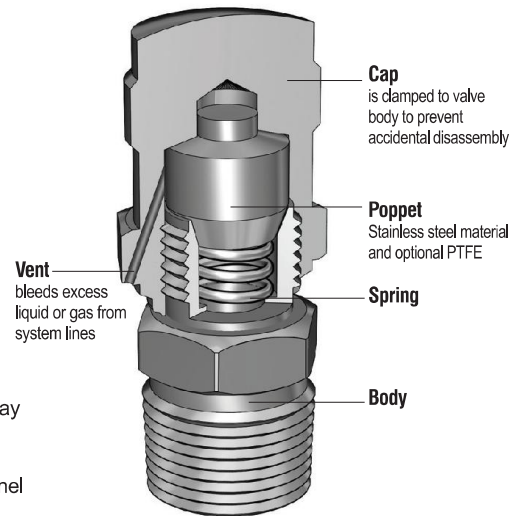
SUPERLOK purge valves are manual bleed, vent, or drain valves. One-quarter turn with a wrench from finger-tight obtains leaktight closure on first makeup. Snugging with a wrench ensures closure to the rated pressure with subsequent makeups.

Features

- Compact for convenient installation.
- Vent hole is bled excessive liquid or gas from system lines.
- Cap is crimped to valve body to prevent accidental disassembly.
- Variety of end connections; **SUPERLOK** tube fittings, NPT and ISO threads.

Caution

When installing a **SUPERLOK** purge valve, position the vent hole to direct system fluid away from operating personnel. The vent hole rotates with the cap, changing the direction of discharge as the cap is turned. Always open purge valves slowly. These valves contain no packing, so some fluid weepage will occur when the valves are opened. Operating personnel must protect themselves from exposure to system fluids.



Materials of Construction

Component	Valve Body Materials
	Material Grade/ASTM Specification
Cap	316 SS / A276
Body	316 SS / A276
Poppet	316 SS / A276
Spring	304 SS

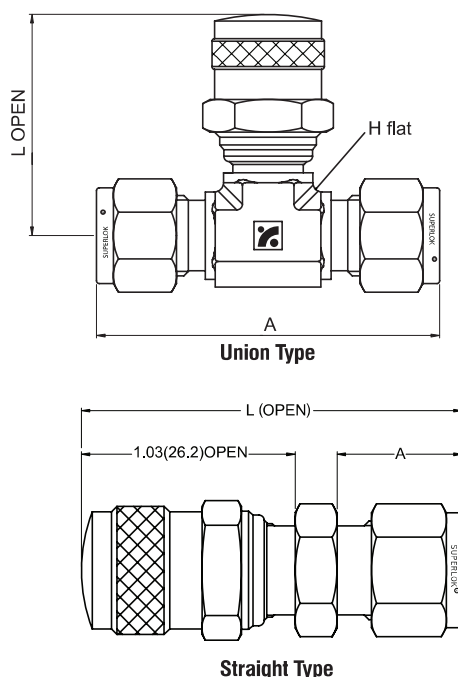
Technical Data

Series	Pressure - Temperature Rating	
	Temperature °F (°C)	Working Pressure psig (bar)
SPUV	-65 to 600°F (-54 to 315°C)	4,000psig (275bar) @100°F (38°C)

Pressure - temperature ratings

Material	316 SS
Temperature °F (°C)	Working Pressure, psig (bar)
-65(-53) to 100(37)	4,000(275)
150(65)	3,720(256)
200(93)	3,440(237)
300(148)	3,105(213)
350(176)	2,975(204)
400(204)	2,850(196)
450(232)	2,750(189)
500(260)	2,650(182)
600(315)	2,500(172)

Table of Dimension



Union Type

Part Number		Inlet End Connection	Dimensions in.(mm)		
			L	A	H
SPUV	S4-UT	1/4" SUPERLOK	1.49(38,0)	2.26(57,5)	0.63(15,9)
	S6-UT	3/8" SUPERLOK	1.49(38,0)	2.40(61,0)	0.63(15,9)
	S8-UT	1/2" SUPERLOK	1.61(41,0)	2.82(71,6)	0.81(20,6)

Straight Type

Part Number		Inlet End Connection	Dimensions in.(mm)	
			L	H
SPUV	F2N	1/8" Female NPT	1.56 (39.6)	0.53 (13.5)
	F4N	1/4" Female NPT	1.75 (44.4)	0.72 (18.3)
	F6N	3/8" Female NPT	1.81 (46.0)	0.78 (19.8)
	F8N	1/2" Female NPT	1.98 (50.3)	0.97 (24.6)
	M2N	1/8" Male NPT	1.62 (41.1)	0.38 (9.7)
	M4N	1/4" Male NPT	1.81 (46.0)	0.56 (14.2)
	M6N	3/8" Male NPT	1.84 (46.7)	0.56 (14.2)
	M8N	1/2" Male NPT	2.09 (53.1)	0.75 (19.1)
	S2	1/8" SUPERLOK	1.84 (46.7)	0.59 (15.0)
	S4	1/4" SUPERLOK	1.94 (49.3)	0.69 (17.5)
	S6	3/8" SUPERLOK	2.03 (51.6)	0.75 (19.1)
	S8	1/2" SUPERLOK	2.19 (55.6)	0.88 (22.4)
	S6M	6mm SUPERLOK	1.94 (49.3)	0.69 (17.5)
	S8M	8mm SUPERLOK	2.00 (50.8)	0.72 (18.3)

Dimensions are for reference only, subject to change.

Bleed Valves

Applications

SUPERLOK bleed valves can be used on instrumentation devices such as multivalve manifolds or gauge valves to vent signal line pressure to atmosphere Before removal of an instrument or to assist in calibration of control devices.

Features

- Compact for convenient installation.
- Back stop screw prevents accidental remove of stem.
- Chrome-plated stem threads and tip improves valve life.
- Male NPT or ISO Thread end connection.

Caution

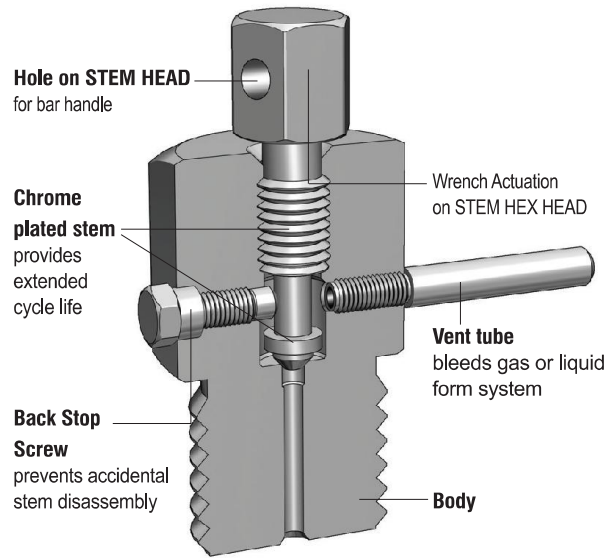
When installing a **SUPERLOK** bleed valve, position the vent tube to direct system fluid away from operating personnel. Always open bleed valves slowly. These valves contain no packing, so some fluid weepage will occur when the valves are opened. operating personnel must protect themselves from exposure to system fluids.

Materials of Construction

Component	Valve Body Materials
	Material Grade/ASTM Specification
Stem	316 SS / A276
Body	316 SS / A276
Back stop screw	316 SS / A276
Vent tube	316 SS / A269

Technical Data

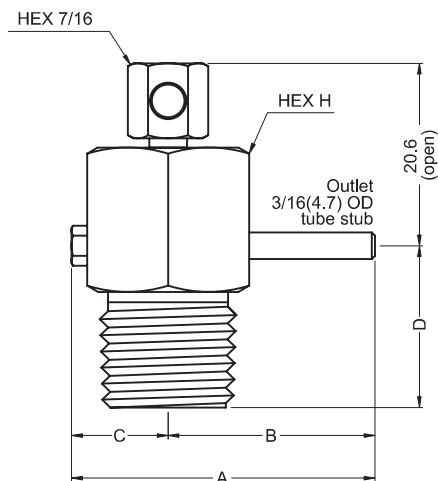
Series	Orifice in.(mm)	Pressure-Temperature Rating	
		Temperature °F(°C)	Working Pressure psig (bar)
SBLV	0.125 (3.2)	-65 to 850°F (-54 to 454°C)	10,000psig (689bar) @100°F (38°C)



Pressure - temperature ratings

Material	316 SS
Temperature °F(°C)	Working Pressure, psig (bar)
-65(-53) to 100(37)	10,000(689)
200(93)	9,290(640)
300(148)	8,390(578)
400(204)	7,705(530)
450(232)	7,435(512)
500(260)	7,165(493)
600(315)	6,770(466)
650(343)	6,660(458)
700(371)	6,840(446)
750(398)	6,335(436)
800(426)	6,230(429)
850(454)	6,085(419)

Table of Dimension



Part Number	End Connection		Cv	Dimensions inch(mm)				
	Inlet	Outlet		A	B	C	D	H
SBLV-M2N	1/8" Male NPT	O.D. 3/16" tube stub	0.25	1.34 (34.0)	0.92 (23.4)	0.41 (10.4)	0.75 (19.1)	0.625 (15.87)
SBLV-M4N	1/4" Male NPT			1.47 (37.3)	1.03 (26.1)	0.44 (11.2)	0.88 (22.3)	0.875 (22.22)
SBLV-M6N	3/8" Male NPT			1.87 (47.6)	1.15 (29.3)	0.72 (18.3)	1 (25.4)	1.125 (28.57)
SBLV-M8N	1/2" Male NPT							
SBLV-M12N	3/4" Male NPT							

* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change.

Testing

- Each valve is tested with nitrogen@1000psig(69bar)to max leak rate of 0.1 SCCM.
- Hydrostatic shell test is performed at 1.5times the working pressure as an option.

Option

If require 316SS bar handle, add-BH to the end of part number.
ex) SBLV-M4N-BH

Ordering information

Example : **SRVH** - **S** **8** - **YE** - **SS**

1 2 3 4 5

1. Valve Series

SRVL : Low Pressure
SRVH : High Pressure

2. End Connection

S : Tube Fitting
M : Male Pipe Thread
F : Female Pipe Thread

3. Inlet and Outlet Connection Size & Type

Fractional	Connection Size	1/4"	3/8"	1/2"
	Designator	4	6	8
Metric	Connection Size	6mm	8mm	12mm
	Designator	6M	8M	12M
Thread		NPT		ISO TAPERED
Designator		N		R

4. Spring Designator

YE : 225 ~ 750 psig	OE : 1500 ~ 2250 psig	WH : 3000 ~ 4000 psig	GN : 5000 ~ 6000 psig
PP : 750 ~ 1500 psig	BN : 2250 ~ 3000 psig	RD : 4000 ~ 5000 psig	

5. Body Material

SS : ASTM A182 F316 (Stainless steel)

SRVH Series

High Pressure Relief Valve

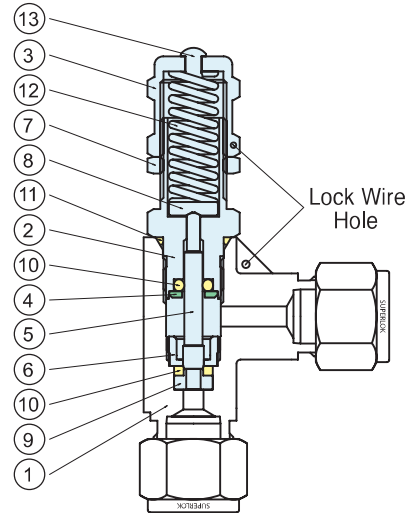
Technical Data

- Maximum working Pressure : 6000 psig (413 bar)
- Cracking Pressure Range : 225~6000 psig (15.5~414 bar)
- Orifice size : 4.8mm
- Multiple springs for a selection of set pressure ranges

SRVH Series Spring

Spring Designator	Spring Color	Cracking Pressure		
		psig	bar	kPa
YE	Yellow	225~750	15.5~51.5	1550~5150
PP	Purple	750~1500	51.5~103	5150~10300
OE	Orange	1500~2250	103~155	10300~15500
BN	Brown	2250~3000	155~206	15500~20600
WH	White	3000~4000	206~275	20600~27500
RD	Red	4000~5000	275~344	27500~34400
GN	Green	5000~6000	344~414	34400~41400

※ If required spring kit, mention part no : SRVH-KIT-, ex)SRVH-KIT-YE



Materials of Construction

No.	Description	Material	No.	Description	Material
1	Body	SS316 / A182	8	Spring Support	SS316 / A276
2	Bonnet	SS316 / A276	9	Stem Retainer	SS316 / A276
3	Cracking Pressure Adjusting Nut	SS316 / A276	10	O-Ring	Viton
4	Retainer	SS316 / A276	11	O-Ring	Viton
5	Stem Shaft	SS316 / A276	12	Spring	SS631
6	Stem Guide	SS316 / A276	13	Cap	Polypropylene
7	Lock Nut	SS316 / A276			

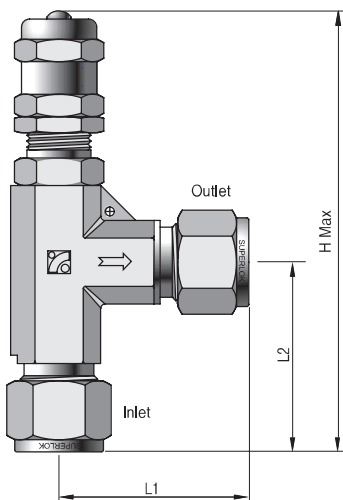


Table of Dimensions

Part Number	Orifice	End Connection		Dimensions		
		Inlet	Outlet	L1	L2	H
SRVL or SRVH	4.8	S4	1/4" SUPERLOK	38.7	37.3	104.6
		S6M	6mm SUPERLOK	38.7	37.3	104.6
		S8M	8mm SUPERLOK	38.7	37.3	104.6
		S6	3/8" SUPERLOK	44.4	44.4	111.7
		S8	1/2" SUPERLOK	46.7	46.7	114.0
		S12M	12mm SUPERLOK	46.7	46.7	114.0
		M8N-S8	1/2" Male NPT	46.7	35.7	103.0
		M8N-S12M	1/2" Male NPT	46.7	35.7	103.0
		M4N-F4N	1/4" Male NPT	30.0	32.2	99.5
		M6N-F6N	3/8" Male NPT	34.5	32.2	99.5
		M8N-F8N	1/2" Male NPT	38.0	35.7	103.0

* Dimensions shown with SUPERLOK tube fitting nuts finger-tight.

* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change.

Relief Valves

Features

- Compact design
- Cracking pressure adjustable externally
- Lock wire feature secures a given pressure setting
- Each and every valve is tested at the factory



Set Pressure

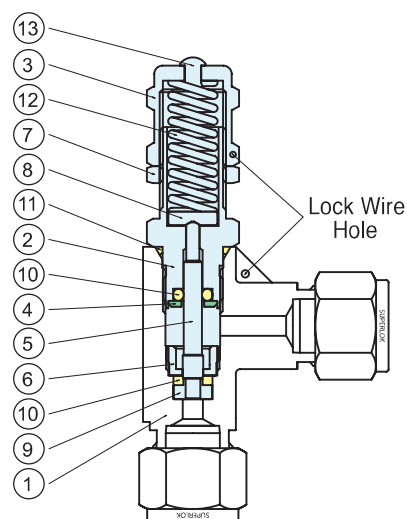
- Set pressure is the upstream pressure at which the first indication of flow occurs.
Set pressure of each valve after initial relief is repeatable within $\pm 5\%$ at room temperature.

SRVL Series

Low Pressure Relief Valve

Technical Data

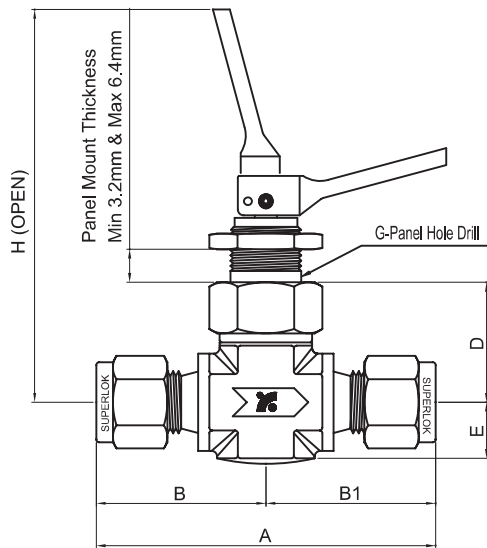
- Maximum working pressure : 300 psig (20.6 bar)
- Cracking pressure range : 10~250 psig (0.69~17.2 bar)
- Orifice size : 4.8mm
- One spring for the full set pressure range
- If required spring kit, mention part no : SRVL-KIT



Materials of Construction

No.	Description	Material	No.	Description	Material
1	Body	SS316 / A182	9	Seat Retainer	SS316 / A276
2	Bonnet	SS316 / A276	10	Seat	PTFE
3	Cracking Pressure Adjusting Nut	SS316 / A276	11	O-Ring	Viton
4	Retainer	SS316 / A276	12	O-Ring	Viton
5	Stem Shaft	SS316 / A276	13	O-Ring	Viton
6	Stem	SS316 / A276	14	Spring	SS631
7	Lock Nut	SS316 / A276	15	Cap	Polypropylene
8	Spring Support	SS316 / A276			

STRAIGHT TYPE



ANGLE TYPE

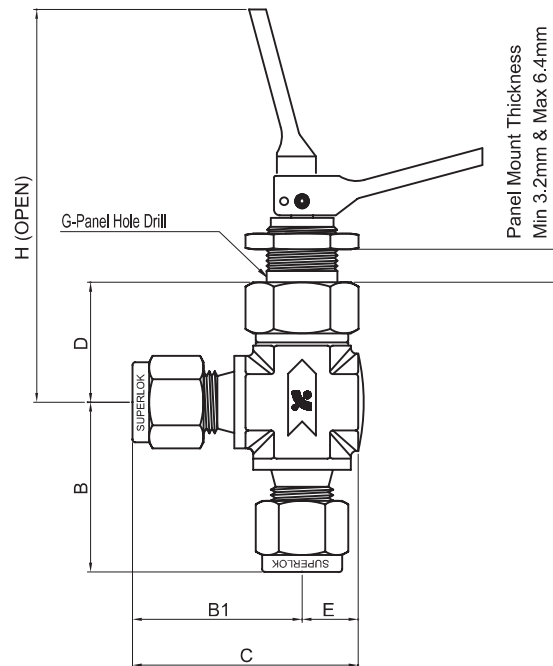


Table of Dimensions

Part Number		Orifice	Cv	End Connections		Dimensions							
				Inlet	Outlet	A	B	B1	C	D	E	G	H
STV1	M2N	2.0	0.11	1/8" Male NPT		38.1	19.0	19.0	27.0	23.4	7.9	13.5	72.9
	M2N-S2			1/8" Male NPT	1/8" Superlok	43.9	19.0	24.9	32.8				
	S2			1/8" Superlok		49.8	24.9	24.9	32.8				
	S3M			3mm Superlok		49.8	24.9	24.9	32.8				
STV2	F2N	3.2	0.2	1/8" Female NPT		41.4	20.6	20.6	30.2	21.8	9.5	13.5	71.4
	M2N			1/8" Male NPT		43.7	21.8	21.8	31.2				
	M4N			1/4" Male NPT		49.8	24.9	24.9	34.5				
	M4N-S4			1/4" Male NPT	1/4" Superlok	53.6	24.9	28.7	38.1				
	M2N-F2N			1/8" Male NPT	1/8" Female NPT	41.4	20.6	20.6	30.2				
	S4			1/4" Superlok		57.4	28.7	28.7	38.1				
	S6M			6mm Superlok		57.4	28.7	28.7	38.1				
	S8M			8mm Superlok		56.4	28.2	28.2	37.6				
STV3	F4N	6.4	0.7	1/4" Female NPT		53.8	26.9	26.9	39.6	26.9	12.7	16.8	90.4
	M6N			3/8" Male NPT		57.2	28.4	28.4	41.1				
	S6			3/8" Superlok		65.5	32.8	32.8	45.5				
	S8			1/2" Superlok		71.7	35.6	35.6	48.9				
	S10M			10mm Superlok		69.1	34.5	34.5	47.2				
	S12M			12mm Superlok		74.2	37.1	37.1	49.8				

- All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change.
- Dimension, shown on the above table, are measured with **SUPERLOK** nut in the finger-tight where applicable .
- ISO Tapered Threads are available upon request.