Tube to Tube Union

Union
SU

18

Union Elbow
SL
19

Reducing Union
SUR
20

Union Tee
ST

22

Union Cross
SX

23

Reducing Union Tee
STR
24

Bulkhead Union
SUB
26

45° Union Elbow
SLBU
27

Tube to Male Pipe

Male Connector
SMC-N
28

Male Connector
SMC-R
29

Male Connector for Bonded Seal
SMC-G
30

Thermocouple Connector
SMCT
31

Male Connector for Metal Gasket
SOM
33

Bulkhead Male Connector
SMCB
34

45° Male Elbow
SLBM

34

Male Elbow
SLM

35

Male Run Tee
STRM
37

Male Branch Tee
STBM
39

Tube to Female Pipe

Female Connector
SCF

41

Gauge Connector
SCG

43

Bulkhead Female Connector
SCBF
44

Female Elbow
SLF
45

Female Run Tee
STRF
46

Female Branch Tee
STBF
47

Stub Tube Connector

Reducer
SR
48

Elbow Adapter
SLA
50

Bulkhead Adapter
SAB
51

Male Adapter
SAM
52

Female Adapter
SAF
54

Gauge Adapter
SAG
55

Port Connector
SCP
56

Reducing Port Connector
SCRP
57

Tube to AN Tube

AN Union
SUA  58

AN Bulkhead Union
SUBA  59

AN Adapter
SAA  59

Tube to SAE O-Ring Seal

SAE Male Connector
SMCS  61

Positionable SAE Male Elbow
SLS  62

Positionable 45° SAE Male Elbow
SLBS  62

Positionable SAE Male Run Tee
STRS  63

Positionable SAE Male Branch Tee
STBS  63

O-Seal Straight Thread Connector
SCOS  65

O-Seal Pipe Thread Connector
SCOP  65

Tube to Weld End

Male Pipe Weld Connector
SCW  66

Male Pipe Weld Elbow
SLW  67

Tube Socket Weld Connector
SCSW  67

Tube Socket Weld Elbow
SLSW  67

Welding Bulkhead Union
SBUW  68

Tube to Flange

Flange Adapter
SF  69

Plug and Cap

Plug
SP  70

Cap
SC  71

Spare Parts

Tube Insert
SI  72

Nut
SN  72

Front Ferrule
SFF  73

Back Ferrule
SFB  73

Ferrule Set
SFS10  73

Bulkhead Retainer
SBR  74

ETC

Dielectric Fitting
SEU  74

Hydraulic Swaging Unit
SWG-MNL  75

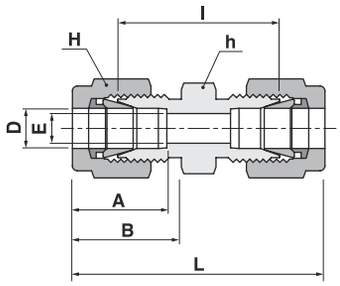
Electric Swaging Unit
SWG-PAT/AT  76

Gap Gauge for Pull-up Inspection
SIG  78

Liquid Gas Leak Detectors
S-detec  78

Union

SU





Connects fractional tube

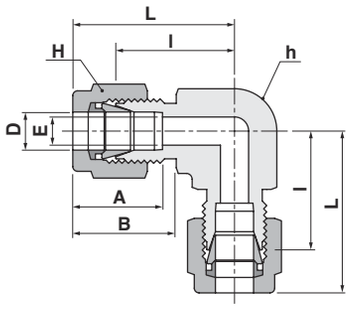
Part No.	Tube O.D D		E	Width across flat h		Width across flat H		A	B	I	L
	in	mm	Min	in	mm	in	mm				
SU-1	1/16	1.59	1.27	5/16	7.93	5/16	7.93	8.63	10.92	17.50	25.15
SU-2	1/8	3.17	2.28	7/16	11.11	7/16	11.11	12.70	15.24	22.35	35.56
SU-3	3/16	4.76	3.04	7/16	11.11	1/2	12.70	13.71	16.00	24.13	37.33
SU-4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	26.16	40.89
SU-5	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	28.19	42.92
SU-6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	30.22	44.95
SU-8	1/2	12.70	10.41	13/16	20.64	7/8	22.22	22.86	21.84	30.98	51.30
SU-10	5/8	15.87	12.70	15/16	23.81	1	25.40	24.38	21.84	31.75	52.07
SU-12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	33.27	53.89
SU-14	7/8	22.22	18.28	1-3/16	30.16	1-1/4	31.75	25.90	21.84	35.05	55.37
SU-16	1	25.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	40.38	64.77
SU-20	1-1/4	31.75	27.68	1-3/4	44.45	1-7/8	47.63	41.14	38.86	48.00	92.20
SU-24	1-1/2	38.10	34.03	2-1/8	53.97	2-1/4	57.15	50.03	45.21	53.60	107.95
SU-32	2	50.80	45.97	2-3/4	69.85	3	76.20	67.56	62.73	74.70	149.35

Connects metric tube

Part No.	Tube O.D D	E Min	Width across flat h	Width across flat H	A	B	I	L
SU-2M	2	1.7	12	12	12.9	15.3	22.1	35.6
SU-3M	3	2.4	12	12	12.9	15.3	22.1	35.3
SU-4M	4	2.4	12	12	13.7	16.1	24.1	37.3
SU-6M	6	4.8	14	14	15.3	17.7	26.2	41.0
SU-8M	8	6.4	15	16	16.2	18.6	28.2	43.2
SU-10M	10	7.9	18	19	17.2	19.5	31.0	46.2
SU-12M	12	9.5	22	22	22.8	22.0	31.0	51.2
SU-15M	15	11.9	24	25	24.4	22.0	31.8	52.0
SU-16M	16	12.7	24	25	24.4	22.0	31.8	52.0
SU-18M	18	15.1	27	30	24.4	22.0	33.3	53.5
SU-20M	20	15.9	30	32	26.0	22.0	34.8	55.0
SU-22M	22	18.3	30	32	26.0	22.0	34.8	55.0
SU-25M	25	21.8	35	38	31.3	26.5	40.4	65.0
SU-28M	28	21.8	41	46	36.6	36.6	43.4	85.0
SU-32M	32	28.6	46	50	42.0	41.6	51.3	97.3
SU-38M	38	33.7	55	60	49.4	47.9	58.4	113.6

Union Elbow

SL





Connects fractional tube

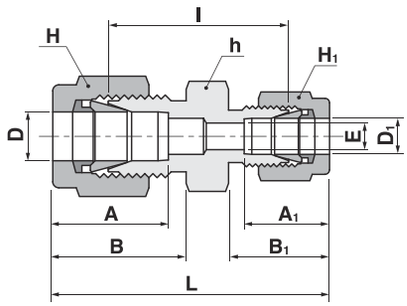
Part No.	Tube O.D D		E	Width across flat h		H		A	B	I	L
	in	mm	Min	in	mm	in	mm				
SL-1	1/16	1.59	1.27	3/8	9.52	5/16	7.93	8.63	10.92	14.00	17.88
SL-2	1/8	3.17	2.28	3/8	9.52	7/16	11.11	12.70	15.24	15.74	22.35
SL-3	3/16	4.76	3.04	1/2	12.70	1/2	12.70	13.71	16.00	17.78	24.35
SL-4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92
SL-5	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70
SL-6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48
SL-8	1/2	12.70	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06
SL-10	5/8	15.87	12.70	15/16	23.81	1	25.40	24.38	21.84	28.70	38.80
SL-12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87
SL-14	7/8	22.22	18.28	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70
SL-16	1	25.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02
SL-20	1-1/4	31.75	27.68	1-11/16	42.86	1-7/8	47.63	41.14	38.86	44.50	66.54
SL-24	1-1/2	38.10	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97
SL-32	2	50.80	45.97	2-3/4	69.85	3	76.20	67.56	62.73	69.80	107.18

Connects metric tube

Part No.	Tube O.D D	E Min	Width across flat h	H	A	B	I	L
SL-2M	2	1.7	9.5	12	12.9	15.3	15.7	22.3
SL-3M	3	2.4	9.5	12	12.9	15.3	15.7	22.3
SL-4M	4	2.4	12.7	12	13.7	16.1	18.8	25.4
SL-6M	6	4.8	12.7	14	15.3	17.7	19.6	27.0
SL-8M	8	6.4	14.3	16	16.2	18.6	21.3	28.8
SL-10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5
SL-12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0
SL-15M	15	11.9	23.8	25	24.4	22.0	28.7	38.8
SL-16M	16	12.7	23.8	25	24.4	22.0	28.7	38.8
SL-18M	18	15.1	27.0	30	24.4	22.0	29.7	39.8
SL-20M	20	15.9	31.8	32	26.0	22.0	34.5	42.6
SL-22M	22	18.3	31.8	32	26.0	22.0	34.5	42.6
SL-25M	25	21.8	34.9	38	31.3	26.5	36.8	49.1
SL-28M	28	21.8	41.0	46	36.6	36.6	43.2	64.0
SL-32M	32	28.6	46.0	50	42.0	41.6	49.3	72.3
SL-38M	38	33.7	55.0	60	49.4	47.9	56.4	84.0

Reducing Union

SUR



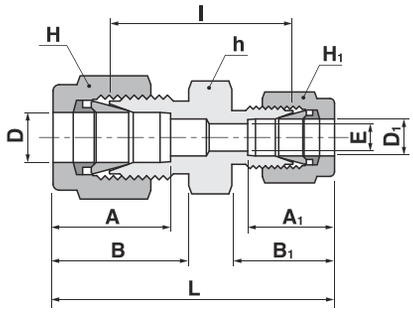


Connects fractional tube

Part No.	Tube O.D				E	Width across flat						A	A1	B	B1	I	L
	D		D1			h		H		H1							
	in	mm	in	mm	Min	in	mm	in	mm	in	mm						
SUR-2-1	1/8	3.17	1/16	1.59	1.27	7/16	11.11	7/16	11.11	5/16	7.93	12.70	8.63	15.24	10.92	20.60	30.91
SUR-3-1	3/16	4.76	1/16	1.59	1.27	7/16	11.11	1/2	12.70	5/16	7.93	13.71	8.63	16.00	10.92	21.84	32.25
SUR-3-2	3/16	4.76	1/8	3.17	2.28	7/16	11.11	1/2	12.70	7/16	11.11	13.71	12.70	16.00	15.24	23.36	36.57
SUR-4-1	1/4	6.35	1/16	1.59	1.27	1/2	12.70	9/16	14.28	5/16	7.93	15.24	8.63	17.78	10.92	23.11	34.29
SUR-4-2	1/4	6.35	1/8	3.17	2.28	1/2	12.70	9/16	14.28	7/16	11.11	15.24	12.70	17.78	15.24	24.63	38.60
SUR-4-3	1/4	6.35	3/16	4.76	3.04	1/2	12.70	9/16	14.28	1/2	12.70	15.24	13.71	17.78	16.00	25.40	39.37
SUR-5-2	5/16	7.93	1/8	3.17	2.28	9/16	14.28	5/8	15.87	7/16	11.11	16.25	12.70	18.54	15.24	25.90	39.87
SUR-5-4	5/16	7.93	1/4	6.35	4.82	9/16	14.28	5/8	15.87	9/16	14.28	16.25	15.24	18.54	17.78	27.43	42.16
SUR-6-1	3/8	9.52	1/16	1.59	1.27	5/8	15.87	11/16	17.46	5/16	7.93	16.76	8.63	19.30	10.92	25.40	36.57
SUR-6-2	3/8	9.52	1/8	3.17	2.28	5/8	15.87	11/16	17.46	7/16	11.11	16.76	12.70	19.30	15.24	26.92	40.89
SUR-6-4	3/8	9.52	1/4	6.35	4.82	5/8	15.87	11/16	17.46	9/16	14.28	16.76	15.24	19.30	17.78	28.44	43.18
SUR-6-5	3/8	9.52	5/16	7.93	6.35	5/8	15.87	11/16	17.46	5/8	15.87	16.76	16.25	19.30	18.54	29.46	44.19
SUR-8-2	1/2	12.70	1/8	3.17	2.28	13/16	20.64	7/8	22.22	7/16	11.11	22.86	12.70	21.84	15.24	28.44	45.21
SUR-8-4	1/2	12.70	1/4	6.35	4.82	13/16	20.64	7/8	22.22	9/16	14.28	22.86	15.24	21.84	17.78	29.46	46.99
SUR-8-6	1/2	12.70	3/8	9.52	7.11	13/16	20.64	7/8	22.22	11/16	17.46	22.86	16.76	21.84	19.30	30.98	48.51
SUR-10-6	5/8	15.87	3/8	9.52	7.11	15/16	23.81	1	25.40	11/16	17.46	24.38	16.76	21.84	19.30	31.75	49.27
SUR-10-8	5/8	15.87	1/2	12.70	10.41	15/16	23.81	1	25.40	7/8	22.22	24.38	22.86	21.84	21.84	31.75	52.07
SUR-12-4	3/4	19.05	1/4	6.35	4.82	1-1/16	26.98	1-1/8	28.58	9/16	14.28	24.38	15.24	21.84	17.78	31.75	49.27
SUR-12-6	3/4	19.05	3/8	9.52	7.11	1-1/16	26.98	1-1/8	28.58	11/16	17.46	24.38	16.76	21.84	19.30	33.27	50.80
SUR-12-8	3/4	19.05	1/2	12.70	10.41	1-1/16	26.98	1-1/8	28.58	7/8	22.22	24.38	22.86	21.84	21.84	33.27	53.59
SUR-12-10	3/4	19.05	5/8	15.87	12.70	1-1/16	26.98	1-1/8	28.58	1	25.40	24.38	24.38	21.84	21.84	33.27	53.59
SUR-16-8	1	25.40	1/2	12.70	10.41	1-3/8	34.92	1-1/2	38.10	7/8	22.22	31.24	22.86	26.41	21.84	40.89	63.24
SUR-16-12	1	25.40	3/4	19.05	15.74	1-3/8	34.92	1-1/2	38.10	1-1/8	28.58	31.24	24.38	26.41	21.84	40.38	62.73

Reducing Union

SUR





Connects metric tube

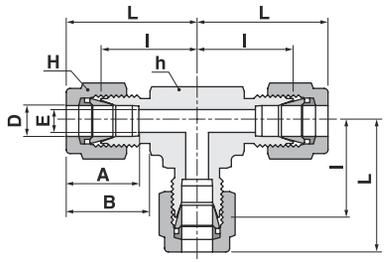
Part No.	Tube O.D		E	Width across flat			A	A_1	B	B_1	I	L
	D	D_1		h	H	H_1						
SUR-3M-2M	3	2	1.7	12	12	12	12.9	12.9	15.3	15.3	22.1	35.3
SUR-6M-2M	6	2	1.7	14	14	12	15.3	12.9	17.7	15.3	24.6	38.6
SUR-6M-3M	6	3	2.4	14	14	12	15.3	12.9	17.7	15.3	24.6	38.6
SUR-6M-4M	6	4	2.4	14	14	12	15.3	13.7	17.7	16.1	25.4	39.4
SUR-8M-6M	8	6	4.8	15	16	14	16.2	15.3	18.6	17.7	27.4	42.3
SUR-10M-6M	10	6	4.8	18	19	14	17.2	15.3	19.5	17.7	29.5	44.5
SUR-10M-8M	10	8	6.4	18	19	16	17.2	16.2	19.5	18.6	30.3	45.1
SUR-12M-6M	12	6	4.8	22	22	14	22.8	15.3	22.0	17.7	29.5	47.0
SUR-12M-8M	12	8	6.4	22	22	16	22.8	16.2	22.0	18.6	30.2	47.8
SUR-12M-10M	12	10	7.9	22	22	19	22.8	17.2	22.0	19.5	31.0	48.7
SUR-16M-10M	16	10	7.9	24	25	19	24.4	17.2	22.0	19.5	31.8	49.5
SUR-16M-12M	16	12	9.5	24	25	22	24.4	22.8	22.0	22.0	31.8	52.0
SUR-18M-12M	18	12	9.5	27	30	22	24.4	22.8	22.0	22.0	33.3	53.5
SUR-25M-18M	25	18	15.1	35	38	30	31.3	24.4	26.5	22.0	38.6	61.0
SUR-25M-20M	25	20	15.9	35	38	32	31.3	26.0	26.5	22.0	39.9	62.3

Connects metric tube to fractional tube

Part No.	Tube O.D			E	Width across flat			A	A_1	B	B_1	I	L
	D	D_1			h	H	H_1						
		in	mm	Min									
SUR-3M-2	3	1/8	3.17	2.4	12	12	11.1	12.9	12.8	15.3	15.2	22.1	35.2
SUR-4M-2	4	1/8	3.17	2.4	12	12	11.1	13.7	12.8	16.1	15.2	23.4	36.5
SUR-4M-4	4	1/4	6.35	2.4	14	12	14.3	13.7	15.3	16.1	17.7	25.4	39.4
SUR-6M-2	6	1/8	3.17	2.4	14	14	11.1	15.3	12.8	17.7	15.2	24.6	38.5
SUR-6M-4	6	1/4	6.35	4.8	14	14	14.3	15.3	15.8	17.7	17.7	26.2	41.0
SUR-6M-5	6	5/16	7.93	4.8	14	14	15.9	15.3	16.2	17.7	18.6	27.4	42.3
SUR-8M-4	8	1/4	6.35	4.8	15	16	14.3	16.2	15.3	18.6	17.7	27.4	42.3
SUR-10M-2	10	1/8	3.17	2.4	18	19	11.1	17.2	12.8	19.5	15.2	27.7	41.8
SUR-10M-4	10	1/4	6.35	4.8	18	19	14.3	17.2	15.3	19.5	17.7	29.5	44.5
SUR-10M-5	10	5/16	7.93	6.4	18	19	15.9	17.2	16.2	19.5	18.6	30.3	45.1
SUR-10M-6	10	3/8	9.52	7.1	18	19	17.5	17.2	16.9	19.5	18.6	31.0	45.9
SUR-12M-5	12	5/16	7.93	6.4	22	22	15.9	22.8	16.2	22.0	18.6	30.2	47.8
SUR-12M-6	12	3/8	9.52	7.1	22	22	17.5	22.8	16.9	22.0	19.2	31.0	48.4
SUR-12M-8	12	1/2	12.70	9.5	22	22	22.2	22.8	22.8	22.0	22.0	31.0	51.2
SUR-15M-8	15	1/2	12.70	10.3	24	25	22.2	24.4	22.8	22.0	22.0	31.8	52.0
SUR-16M-10	16	5/8	19.05	12.7	24	25	25.4	24.4	24.4	22.0	22.0	31.8	52.0
SUR-18M-12	18	3/4	19.05	15.1	27	30	28.6	24.4	24.4	22.0	22.0	33.3	53.5
SUR-20M-12	20	3/4	19.05	15.9	30	32	28.6	26.0	24.4	22.0	22.0	34.8	54.9
SUR-20M-16	20	1	25.40	15.9	34.9	32	38.1	26.0	31.2	22.0	26.4	38.0	60.3
SUR-22M-16	22	1	25.40	18.3	34.9	32	38.1	26.0	31.2	22.0	26.4	38.2	60.3

Union Tee

ST





Connects fractional tube

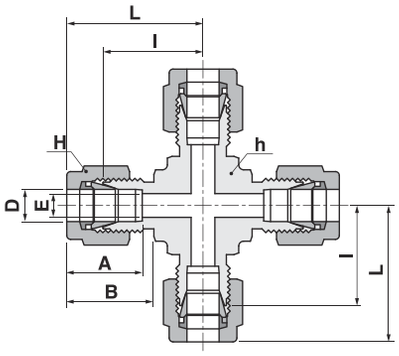
Part No.	Tube O.D D		E	Width across flat h		Width across flat H		A	B	I	L
	in	mm	Min.	in	mm	in	mm				
ST-1	1/16	1.59	1.27	3/8	9.52	5/16	7.93	8.63	10.92	14.00	17.88
ST-2	1/8	3.17	2.28	3/8	9.52	7/16	11.11	12.70	15.24	15.74	22.35
ST-3	3/16	4.76	3.04	1/2	12.70	1/2	12.70	13.71	16.00	17.78	24.35
ST-4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92
ST-5	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70
ST-6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48
ST-8	1/2	12.70	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06
ST-10	5/8	15.87	12.70	15/16	23.81	1	25.40	24.38	21.84	28.70	38.80
ST-12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87
ST-14	7/8	22.22	18.28	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70
ST-16	1	25.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02
ST-20	1-1/4	31.75	27.68	1-11/16	42.86	1-7/8	47.63	41.14	38.86	44.50	66.54
ST-24	1-1/2	38.10	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97
ST-32	2	50.80	45.97	2-3/4	69.85	3	76.20	67.56	62.73	69.80	107.18

Connects metric tube

Part No.	Tube O.D D	E Min.	Width across flat h	Width across flat H	A	B	I	L
ST-2M	2	1.7	9.5	12	12.9	15.3	15.7	22.3
ST-3M	3	2.4	9.5	12	12.9	15.3	15.7	22.3
ST-4M	4	2.4	12.7	12	13.7	16.1	18.8	25.4
ST-6M	6	4.8	12.7	14	15.3	17.7	19.6	27.0
ST-8M	8	6.4	14.3	16	16.2	18.6	21.3	28.8
ST-10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5
ST-12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0
ST-15M	15	11.9	23.8	25	24.4	22.0	28.7	38.8
ST-16M	16	12.7	23.8	25	24.4	22.0	28.7	38.8
ST-18M	18	15.1	27.0	30	24.4	22.0	29.7	39.8
ST-20M	20	15.9	31.8	32	26.0	22.0	34.5	42.6
ST-22M	22	18.3	31.8	32	26.0	22.0	34.5	42.6
ST-25M	25	21.8	34.9	38	31.3	26.5	36.8	49.1
ST-28M	28	21.8	41.0	46	36.6	36.6	43.2	64.0
ST-32M	32	28.6	46.0	50	42.0	41.6	49.3	72.3
ST-38M	38	33.7	55.0	60	49.4	47.9	56.4	84.0

Union Cross

SX





Connects fractional tube

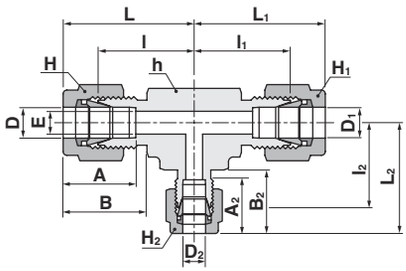
Part No.	Tube O.D D		E	Width across flat h		H		A	B	l	L
	in	mm	Min.	in	mm	in	mm				
SX-1	1/16	1.59	1.27	3/8	9.52	5/16	7.93	8.63	10.92	14.00	17.88
SX-2	1/8	3.17	2.28	3/8	9.52	7/16	11.11	12.70	15.24	15.74	22.35
SX-3	3/16	4.76	3.04	1/2	12.70	1/2	12.70	13.71	16.00	17.78	24.35
SX-4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92
SX-5	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70
SX-6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48
SX-8	1/2	12.70	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06
SX-10	5/8	15.87	12.70	15/16	23.81	1	25.40	24.38	21.84	28.70	38.80
SX-12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87
SX-14	7/8	22.22	18.28	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70
SX-16	1	25.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02
SX-20	1-1/4	31.75	27.68	1-11/16	42.86	1-7/8	47.63	41.14	38.86	44.50	66.54
SX-24	1-1/2	38.10	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97
SX-32	2	50.80	45.97	2-3/4	69.85	3	76.20	67.56	62.73	69.80	107.18

Connects metric tube

Part No.	Tube O.D D	E Min.	Width across flat h	H	A	B	l	L
SX-2M	2	1.7	9.5	12	12.9	15.3	15.7	22.3
SX-3M	3	2.4	9.5	12	12.9	15.3	15.7	22.3
SX-4M	4	2.4	12.7	12	13.7	16.1	18.8	25.4
SX-6M	6	4.8	12.7	14	15.3	17.7	19.6	27.0
SX-8M	8	6.4	14.3	16	16.2	18.6	21.3	28.8
SX-10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5
SX-12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0
SX-15M	15	11.9	27.0	25	24.4	22.0	28.7	38.8
SX-16M	16	12.7	27.0	25	24.4	22.0	28.7	38.8
SX-18M	18	15.1	27.0	30	24.4	22.0	29.7	39.8
SX-20M	20	15.9	31.8	32	26.0	22.0	34.5	42.6
SX-22M	22	18.3	31.8	32	26.0	22.0	34.5	42.6
SX-25M	25	21.8	34.9	38	31.3	26.5	36.8	49.1
SX-28M	28	21.8	41.0	46	36.6	36.6	43.2	64.0
SX-32M	32	28.6	46.0	50	42.0	41.6	49.3	72.3
SX-38M	38	33.7	55.0	60	49.4	47.9	56.4	84.0

Reducing Union Tee

STR



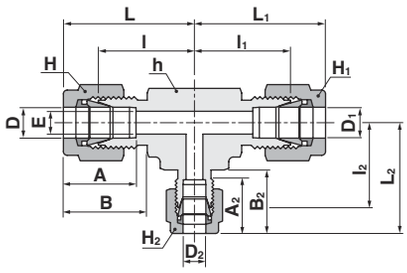


Connects fractional tube

Part No.	Tube O.D						E	A	A_1	A_2	B	B_1	B_2	Width across flat								I	I_1	I_2	L	L_1	L_2
	D		D_1		D_2									h		H		H_1		H_2							
	in	mm	in	mm	in	mm	Min.							in	mm	in	mm	in	mm	in	mm						
STR-4-2	1/4	6.35	1/4	6.35	1/8	3.17	2.28	15.24	15.24	12.70	17.78	17.78	15.24	1/2	12.70	9/16	14.28	9/16	14.28	7/16	11.11	19.55	19.55	17.90	26.91	26.91	24.50
STR-4-6	1/4	6.35	1/4	6.35	3/8	9.52	4.82	15.24	15.24	16.76	17.78	17.78	19.30	5/8	15.87	9/16	14.28	9/16	14.28	11/16	17.46	21.92	21.92	23.10	29.28	29.28	30.46
STR-4-8-8	1/4	6.35	1/2	12.70	1/2	12.70	4.82	15.24	22.86	22.86	17.78	21.84	21.84	13/16	20.64	9/16	14.28	7/8	22.22	7/8	22.22	24.40	25.90	25.90	31.76	36.06	36.06
STR-6-4-6	3/8	9.52	1/4	6.35	3/8	9.52	4.82	16.76	15.24	16.76	19.30	17.78	19.30	5/8	15.87	11/16	17.46	9/16	14.28	11/16	17.46	23.10	21.92	23.10	30.46	29.28	30.46
STR-6-4	3/8	9.52	3/8	9.52	1/4	6.35	4.82	16.76	16.76	15.24	19.30	19.30	17.78	5/8	15.87	11/16	17.46	11/16	17.46	9/16	14.28	23.10	23.10	21.92	30.46	30.46	29.28
STR-6-8	3/8	9.52	3/8	9.52	1/2	12.70	7.11	16.76	16.76	22.86	19.30	19.30	21.84	13/16	20.64	11/16	17.46	11/16	17.46	7/8	22.22	25.90	25.90	25.90	33.26	33.26	36.06
STR-8-4-6	1/2	12.70	1/4	6.35	3/8	9.52	4.82	22.86	15.24	16.76	21.84	17.78	19.30	13/16	20.64	7/8	22.22	9/16	14.28	11/16	17.46	25.90	25.90	25.90	36.06	33.26	33.26
STR-8-4-8	1/2	12.70	1/4	6.35	1/2	12.70	4.82	22.86	15.24	22.86	21.84	17.78	21.84	13/16	20.64	7/8	22.22	9/16	14.28	7/8	22.22	25.90	24.40	25.90	36.06	31.76	36.06
STR-8-6-6	1/2	12.70	3/8	9.52	3/8	9.52	7.11	22.86	16.76	16.76	21.84	19.30	19.30	13/16	20.64	7/8	22.22	11/16	17.46	11/16	17.46	25.90	25.90	25.90	36.06	33.26	33.26
STR-8-4	1/2	12.70	1/2	12.70	1/4	6.35	4.82	22.86	22.86	15.24	21.84	21.84	17.78	13/16	20.64	7/8	22.22	7/8	22.22	9/16	14.28	25.90	25.90	24.40	36.06	36.06	31.76
STR-8-6	1/2	12.70	1/2	12.70	3/8	9.52	7.11	22.86	22.86	16.76	21.84	21.84	19.30	13/16	20.64	7/8	22.22	7/8	22.22	11/16	17.46	25.90	25.90	25.90	36.06	36.06	33.26
STR-10-6	5/8	15.87	5/8	15.87	3/8	9.52	7.11	24.38	24.38	16.76	21.84	21.84	19.30	15/16	23.81	1	25.40	1	25.40	11/16	17.46	28.70	28.70	28.70	38.86	38.86	36.06
STR-12-8-12	3/4	19.05	1/2	12.70	3/4	19.05	10.41	24.38	22.86	24.38	21.84	21.84	21.84	1-1/16	26.98	1-1/8	28.58	7/8	22.22	1-1/8	28.58	29.71	29.71	29.71	39.87	39.87	39.87
STR-12-4	3/4	19.05	3/4	19.05	1/4	6.35	4.82	24.38	24.38	15.24	21.84	21.84	17.78	1-1/16	26.98	1-1/8	28.58	1-1/8	28.58	9/16	14.28	29.71	29.71	28.21	39.87	39.87	35.57
STR-12-6	3/4	19.05	3/4	19.05	3/8	9.52	7.11	24.38	24.38	16.76	21.84	21.84	19.30	1-1/16	26.98	1-1/8	28.58	1-1/8	28.58	11/16	17.46	29.71	29.71	29.71	39.87	39.87	35.57
STR-12-8	3/4	19.05	3/4	19.05	1/2	12.70	10.41	24.38	24.38	22.86	21.84	21.84	21.84	1-1/16	26.98	1-1/8	28.58	1-1/8	28.58	7/8	22.22	29.71	29.71	29.71	39.87	39.87	38.37
STR-12-16	3/4	19.05	3/4	19.05	1	25.40	15.74	24.38	24.38	31.24	21.84	21.84	26.41	1-3/8	34.92	1-1/8	28.58	1-1/8	28.58	1-1/2	38.10	34.43	34.43	36.83	49.02	49.02	45.70
STR-12-20	3/4	19.05	3/4	19.05	1-1/4	31.75	15.74	24.38	24.38	41.14	21.84	21.84	38.86	1-11/16	42.86	1-1/8	28.58	1-1/8	28.58	1-7/8	47.63	39.41	39.41	44.45	49.57	49.57	66.55
STR-14-8	7/8	22.22	7/8	22.22	1/2	12.70	10.41	25.90	25.90	22.86	21.84	21.84	21.84	1-1/4	31.75	1-1/4	31.75	1-1/4	31.75	7/8	22.22	34.54	34.54	34.54	44.70	44.70	44.70
STR-16-12-12	1	25.40	3/4	19.05	3/4	19.05	15.74	31.24	24.38	24.38	26.41	21.84	21.84	1-3/8	34.92	1-1/2	38.10	1-1/8	28.58	1-1/8	28.58	36.83	35.54	35.54	49.02	45.70	45.70
STR-16-4	1	25.40	1	25.40	1/4	6.35	4.82	31.24	31.24	15.24	26.41	26.41	17.78	1-3/8	34.92	1-1/2	38.10	1-1/2	38.10	9/16	14.28	36.83	36.83	33.04	49.02	49.02	40.40
STR-16-6	1	25.40	1	25.40	3/8	9.52	7.11	31.24	31.24	16.76	26.41	26.41	19.30	1-3/8	34.92	1-1/2	38.10	1-1/2	38.10	11/16	17.46	36.83	36.83	34.54	49.02	49.02	41.90
STR-16-8	1	25.40	1	25.40	1/2	12.70	10.41	31.24	31.24	22.86	26.41	26.41	21.84	1-3/8	34.92	1-1/2	38.10	1-1/2	38.10	7/8	22.22	36.83	36.83	34.54	49.02	49.02	44.70
STR-16-12	1	25.40	1	25.40	3/4	19.05	15.74	31.24	31.24	24.38	26.41	26.41	21.84	1-3/8	34.92	1-1/2	38.10	1-1/2	38.10	1-1/8	28.58	36.83	36.83	35.54	49.02	49.02	45.70
STR-20-12-12	1-1/4	31.75	3/4	19.05	3/4	19.05	15.74	41.14	24.38	24.38	38.86	21.84	21.84	1-11/16	42.86	1-7/8	47.63	1-1/8	28.58	1-1/8	28.58	44.45	39.41	39.41	66.55	49.57	49.57
STR-20-12	1-1/4	31.75	1-1/4	31.75	3/4	19.05	15.74	41.14	41.14	24.38	38.86	38.86	21.84	1-11/16	42.86	1-7/8	47.63	1-7/8	47.63	1-1/8	28.58	44.45	44.45	39.41	66.55	66.55	49.57
STR-24-20-20	1-1/2	38.10	1-1/4	31.75	1-1/4	31.75	27.68	50.03	41.14	41.14	45.21	38.86	38.86	2	50.80	2-1/4	57.15	1-7/8	47.63	1-7/8	47.63	50.80	49.62	49.62	77.97	71.72	71.72
STR-24-8	1-1/2	38.10	1-1/2	38.10	1/2	12.70	10.41	50.03	50.03	22.86	45.21	45.21	21.84	2	50.80	2-1/4	57.15	2-1/4	57.15	7/8	22.22	50.80	50.80	44.58	77.97	77.97	54.74
STR-24-12	1-1/2	38.10	1-1/2	38.10	3/4	19.05	15.74	50.03	50.03	24.38	45.21	45.21	21.84	2	50.80	2-1/4	57.15	2-1/4	57.15	1-1/8	28.58	50.80	50.80	44.58	77.97	77.97	54.74
STR-24-16	1-1/2	38.10	1-1/2	38.10	1	25.40	22.35	50.03	50.03	31.24	45.21	45.21	26.41	2	50.80	2-1/4	57.15	2-1/4	57.15	1-1/2	38.10	50.80	50.80	47.75	77.97	77.97	59.94

Reducing Union Tee

STR



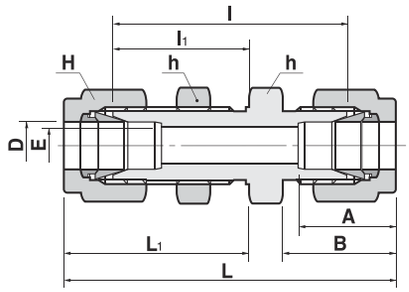


Connects metric tube

Part No.	Tube O.D			E	A	A_1	A_2	B	B_1	B_2	Width across flat				l	l_1	l_2	L	L_1	L_2
	D	D_1	D_2	Min.							h	H	H_1	H_2						
STR-3M-6M	3	3	6	2.4	12.9	12.9	15.3	15.3	15.3	17.7	12.7	12	12	14	18.0	18.0	19.6	24.6	24.6	27.0
STR-8M-6M	8	8	6	4.8	16.2	16.2	15.3	18.6	18.6	17.7	15.0	16	16	14	21.3	21.3	20.5	28.8	28.8	28.0
STR-10M-6M	10	10	6	4.8	17.2	17.2	15.3	19.5	19.5	17.7	17.4	19	19	14	23.9	23.9	22.4	31.5	31.5	29.8
STR-10M-12M	10	10	12	7.9	17.2	17.2	22.8	19.5	19.5	22.0	20.6	19	19	22	25.9	25.9	25.9	33.5	33.5	36.0
STR-12M-6M-10M	12	6	10	4.8	22.8	15.3	17.2	22.0	17.7	19.5	20.6	22	14	19	25.9	24.4	25.9	36.0	31.8	33.5
STR-12M-6M-12M	12	6	12	4.8	22.8	15.3	22.8	22.0	17.7	22.0	20.6	22	14	22	25.9	24.4	25.9	36.0	31.8	36.0
STR-12M-10M-10M	12	10	10	7.9	22.8	17.2	17.2	22.0	19.5	19.5	20.6	22	19	19	25.9	25.9	25.9	36.0	33.5	33.5
STR-12M-10M	12	12	10	7.9	22.8	22.8	17.2	22.0	22.0	19.5	20.6	22	22	19	25.9	25.9	25.9	36.0	36.0	33.5
STR-12M-6M	12	12	6	4.8	22.8	22.8	15.3	22.0	22.0	17.7	20.6	22	22	14	25.9	25.9	24.4	36.0	36.0	31.8
STR-15M-12M	15	15	12	9.8	24.4	24.4	22.8	28.7	28.7	22.0	23.8	25	25	22	28.7	28.7	28.7	38.8	38.8	38.8
STR-16M-12M	16	16	12	9.8	24.4	24.4	22.8	28.7	28.7	22.0	23.8	25	25	22	28.7	28.7	28.7	38.8	38.8	38.8
STR-18M-12M	18	18	12	9.8	24.4	24.4	22.8	29.7	29.7	22.0	27.0	30	30	22	29.7	29.7	29.5	39.8	39.8	39.6
STR-20M-12M-20M	20	12	20	9.8	26.0	22.8	26.0	34.5	22.0	34.5	34.9	32	22	32	32.5	32.5	32.5	42.6	42.6	42.6
STR-20M-6M	20	20	6	4.8	26.0	26.0	15.3	34.5	34.5	17.7	34.9	32	32	14	32.5	32.5	31.0	42.6	42.6	38.4
STR-20M-10M	20	20	10	7.9	26.0	26.0	17.2	34.5	34.5	19.5	34.9	32	32	19	32.5	32.5	32.5	42.6	42.6	40.1
STR-20M-12M	20	20	12	9.8	26.0	26.0	22.8	34.5	34.5	22.0	34.9	32	32	22	32.5	32.5	32.5	42.6	42.6	42.6
STR-20M-25M	20	20	25	15.9	26.0	26.0	31.3	34.5	34.5	26.5	34.9	32	32	38	34.3	34.3	36.8	44.4	44.4	49.1
STR-20M-32M	20	20	32	15.9	26.0	26.0	42.0	34.5	34.5	41.6	46.0	32	32	50	42.5	42.5	49.3	52.6	52.6	72.3
STR-22M-12M	22	22	12	9.8	26.0	26.0	22.8	34.5	34.5	22.0	31.8	32	32	22	32.5	32.5	32.5	42.6	42.6	42.6
STR-25M-20M-20M	25	20	20	15.9	31.3	26.0	26.0	26.5	34.5	34.5	34.9	38	32	32	36.8	34.3	34.3	49.1	44.4	44.4
STR-25M-10M	25	25	10	7.9	31.3	31.3	17.2	26.5	26.5	19.5	34.9	38	38	19	36.8	36.8	34.3	49.1	49.1	38.9
STR-25M-12M	25	25	12	9.8	31.3	31.3	22.8	26.5	26.5	22.0	34.9	38	38	22	36.8	36.8	34.3	49.1	49.1	44.4
STR-25M-20M	25	25	20	15.9	31.3	31.3	26.0	26.5	26.5	34.5	34.9	38	38	32	36.8	36.8	34.3	49.1	49.1	44.4
STR-32M-20M	32	32	20	15.9	42.0	42.0	26.0	41.6	41.6	34.5	46.0	38	38	32	49.3	49.3	42.5	72.3	72.3	52.6
STR-38M-32M-32M	38	32	32	28.6	49.4	42.0	42.0	47.9	41.6	41.6	50.8	60	38	38	56.4	54.7	54.7	84.0	77.7	77.7
STR-38M-20M	38	38	20	15.9	49.4	49.4	26.0	47.9	47.9	34.5	50.8	60	60	32	56.4	56.4	47.9	84.0	84.0	58.0
STR-38M-25M	38	38	25	21.8	49.4	49.4	31.3	47.9	47.9	26.5	50.8	60	60	38	56.4	56.4	50.4	84.0	84.0	62.7

Bulkhead Union

SUB





Connects fractional tube

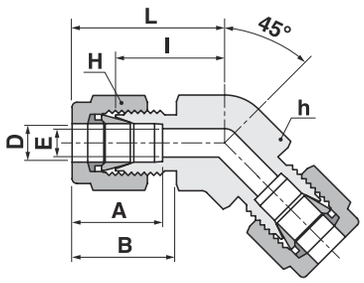
Part No.	Tube O.D D		E	Width across flat h		H		A	B	l	l_1	L	L_1	Panel Hole Drill Size	Panel Max. Thickness
	in	mm	Min.	in	mm	in	mm								
SUB-1	1/16	1.59	1.27	5/16	7.93	5/16	7.93	8.63	10.92	23.87	13.46	31.50	17.27	5.16	3.05
SUB-2	1/8	3.17	2.28	1/2	12.70	7/16	11.11	12.70	15.24	38.10	24.63	51.30	31.24	8.33	12.70
SUB-3	3/16	4.76	3.04	9/16	14.28	1/2	12.70	13.71	16.00	40.38	25.40	53.59	32.00	9.92	12.70
SUB-4	1/4	6.35	4.82	5/8	15.87	9/16	14.28	15.24	17.78	42.92	26.16	57.65	33.52	11.50	10.16
SUB-5	5/16	7.93	6.35	11/16	17.46	5/8	15.87	16.25	18.54	45.97	28.44	60.70	35.81	13.09	11.17
SUB-6	3/8	9.52	7.11	3/4	19.05	11/16	17.46	16.76	19.30	47.49	29.46	62.23	36.83	14.68	11.17
SUB-8	1/2	12.70	10.41	15/16	23.81	7/8	22.22	22.86	21.84	50.80	31.75	71.10	41.91	19.44	12.70
SUB-10	5/8	15.87	12.70	1-1/16	26.98	1	25.40	24.38	21.84	52.32	32.51	72.64	42.67	22.62	12.70
SUB-12	3/4	19.05	15.74	1-3/16	30.16	1-1/8	28.58	24.38	21.84	58.67	37.33	78.99	47.49	25.79	16.76
SUB-14	7/8	22.22	18.28	1-3/8	34.92	1-1/4	31.75	25.90	21.84	64.26	42.92	84.58	53.08	28.97	19.05
SUB-16	1	25.40	22.35	1-5/8	41.27	1-1/2	38.10	31.24	26.41	71.37	45.21	95.75	57.40	33.73	19.05
SUB-20	1-1/4	31.75	27.68	1-7/8	47.63	1-7/8	47.63	41.14	38.86	78.99	47.75	123.19	69.85	41.67	19.05
SUB-24	1-1/2	38.10	34.03	2-1/4	57.15	2-1/4	57.15	50.03	45.21	84.83	49.27	139.19	76.45	49.61	19.05
SUB-32	2	50.80	45.97	2-3/4	69.85	3	76.20	67.56	62.73	105.66	56.38	180.34	93.72	57.94	19.05

Connects metric tube

Part No.	Tube O.D D	E Min.	Width across flat h	H	A	B	l	l_1	L	L_1	Panel Hole Drill Size	Panel Max. Thickness
SUB-3M	3	2.4	14	12	12.9	15.3	38.1	24.6	51.3	31.2	8.3	12.7
SUB-4M	4	2.4	14	12	13.7	16.1	40.4	25.4	53.6	32.0	9.9	12.7
SUB-6M	6	4.8	16	14	15.3	17.7	42.9	26.2	57.7	33.6	11.5	10.2
SUB-8M	8	6.4	18	16	16.2	18.6	46.0	28.6	61.0	36.1	13.1	11.2
SUB-10M	10	7.9	22	19	17.2	19.5	48.5	29.4	63.7	37.0	16.2	11.2
SUB-12M	12	9.5	24	22	22.8	22.0	50.8	31.8	71.0	41.9	19.5	12.7
SUB-15M	15	11.9	27	25	24.4	22.0	52.3	32.5	72.5	42.6	22.8	12.7
SUB-16M	16	12.7	27	25	24.4	22.0	52.3	32.5	72.5	42.6	22.8	12.7
SUB-18M	18	15.1	30	30	24.4	22.0	58.7	37.3	78.9	47.4	26.0	16.8
SUB-20M	20	15.9	35	32	26.0	22.0	64.3	42.9	84.5	53.0	29.0	17.0
SUB-22M	22	18.3	35	32	26.0	22.0	64.3	42.9	84.5	53.0	29.0	19.1
SUB-25M	25	21.8	41	38	31.3	26.5	71.4	45.2	95.9	57.5	33.7	19.1
SUB-32M	32	28.6	50	50	42.0	41.6	82.3	49.5	128.3	72.5	42.5	19.0
SUB-38M	38	33.7	60	60	49.4	47.9	89.4	51.5	144.6	79.1	50.5	19.0

45° Union Elbow

SLBU





Connects fractional tube

Part No.	Tube O.D D		E	Width across flat h		H		A	B	I	L
	in	mm	Min.	in	mm	in	mm				
SLBU-4	1/4	6.35	4.82	1/2	12.7	9/16	14.28	15.24	17.78	17.27	24.63
SLBU-6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	20.60	27.94
SLBU-8	1/2	12.7	10.41	13/16	20.64	7/8	22.22	22.86	22.00	21.80	32.00
SLBU-12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.20	21.70	21.80	31.70
SLBU-16	1	25.4	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	28.20	40.40
*SLBU-20	1-1/4	31.75	27.68	1-11/16	42.86	1-7/8	47.63	41.00	38.88	44.50	66.50
*SLBU-24	1-1/2	38.1	34.03	2	50.8	2-1/4	57.15	50.38	45.40	50.00	77.40
*SLBU-32	2	50.8	45.97	2-3/4	69.85	3	76.20	67.56	62.73	69.80	107.18

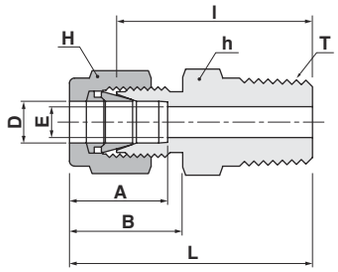
*Approval Drawing Required

Connects metric tube

Part No.	Tube O.D	E	Width across flat		A	B	I	L
	D	Min.	h	H				
SLBU-4M	4	2.4	12.7	12	13.7	16.0	18.0	24.5
SLBU-6M	6	4.8	12.7	14	15.3	17.6	19.0	26.3
SLBU-12M	12	9.5	20.6	22	22.9	22.0	20.6	30.8
SLBU-15M	15	11.9	27	25	24.3	22.0	22.8	32.8
SLBU-18M	18	15.1	27	30	24.4	22.0	24.4	34.5
SLBU-20M	20	15.9	34.9	32	26.0	22.0	26.2	36.1
SLBU-25M	25	21.8	34.9	38	31.3	26.5	28.2	40.5
SLBU-38M	38	33.7	55	60	49.4	47.9	50.0	77.6

Male Connector

SMC-N





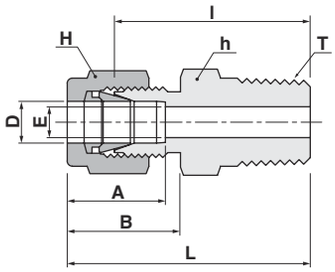
Connects fractional tube to female NPT thread

These fittings may have a larger opening at the pipe / staight thread end.

Part No.	Tube O.D D		T	E	Width across flat h		H		A	B	I	L
	in	mm	N(NPT)	Min.	in	mm	in	mm				
SMC-1-1N	1/16	1.59	1/16	1.27	5/16	7.93	5/16	7.93	8.63	10.92	20.00	23.83
SMC-1-2N	1/16	1.59	1/8	1.27	7/16	11.11	5/16	7.93	8.63	10.92	22.35	26.23
SMC-1-4N	1/16	1.59	1/4	1.27	9/16	14.28	5/16	7.93	8.63	10.92	27.17	30.98
SMC-2-1N	1/8	3.17	1/16	2.28	7/16	11.11	7/16	11.11	12.70	15.24	23.11	29.71
SMC-2-2N	1/8	3.17	1/8	2.28	7/16	11.11	7/16	11.11	12.70	15.24	23.87	30.48
SMC-2-4N	1/8	3.17	1/4	2.28	9/16	14.28	7/16	11.11	12.70	15.24	28.95	35.56
SMC-2-6N	1/8	3.17	3/8	2.28	11/16	17.46	7/16	11.11	12.70	15.24	29.21	35.38
SMC-2-8N	1/8	3.17	1/2	2.28	7/8	22.22	7/16	11.11	12.70	15.24	35.56	42.16
SMC-3-2N	3/16	4.76	1/8	3.04	7/16	11.11	1/2	12.70	13.71	16.00	24.63	31.24
SMC-3-4N	3/16	4.76	1/4	3.04	9/16	14.28	1/2	12.70	13.71	16.00	29.71	36.32
SMC-4-1N	1/4	6.35	1/16	4.82	1/2	12.70	9/16	14.28	15.24	17.78	25.40	32.76
SMC-4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	25.40	32.76
SMC-4-4N	1/4	6.35	1/4	4.82	9/16	14.28	9/16	14.28	15.24	17.78	30.48	37.84
SMC-4-6N	1/4	6.35	3/8	4.82	11/16	17.46	9/16	14.28	15.24	17.78	30.98	38.35
SMC-4-8N	1/4	6.35	1/2	4.82	7/8	22.22	9/16	14.28	15.24	17.78	37.33	44.70
SMC-4-12N	1/4	6.35	3/4	4.82	1-1/6	26.98	9/16	14.28	15.24	17.78	38.86	46.22
SMC-5-2N	5/16	7.93	1/8	6.35	9/16	14.28	5/8	15.87	16.25	18.54	26.67	34.03
SMC-5-4N	5/16	7.93	1/4	6.35	9/16	14.28	5/8	15.87	16.25	18.54	31.24	38.60
SMC-5-6N	5/16	7.93	3/8	6.35	11/16	17.46	5/8	15.87	16.25	18.54	31.75	39.11
SMC-5-8N	5/16	7.93	1/2	6.35	7/8	22.22	5/8	15.87	16.25	18.54	38.11	45.60
SMC-6-2N	3/8	9.52	1/8	7.11	5/8	15.87	11/16	17.46	16.76	19.30	27.94	35.30
SMC-6-4N	3/8	9.52	1/4	7.11	5/8	15.87	11/16	17.46	16.76	19.30	32.51	39.87
SMC-6-6N	3/8	9.52	3/8	7.11	11/16	17.46	11/16	17.46	16.76	19.30	32.51	39.87
SMC-6-8N	3/8	9.52	1/2	7.11	7/8	22.22	11/16	17.46	16.76	19.30	38.86	46.22
SMC-6-12N	3/8	9.52	3/4	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	40.38	47.75
SMC-8-2N	1/2	12.70	1/8	10.41	13/16	20.64	7/8	22.22	22.86	21.84	28.70	38.86
SMC-8-4N	1/2	12.70	1/4	10.41	13/16	20.64	7/8	22.22	22.86	21.84	33.27	43.43
SMC-8-6N	1/2	12.70	3/8	10.41	13/16	20.64	7/8	22.22	22.86	21.84	33.27	43.43
SMC-8-8N	1/2	12.70	1/2	10.41	7/8	22.22	7/8	22.22	22.86	21.84	38.86	49.02
SMC-8-12N	1/2	12.70	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	40.38	50.54
SMC-8-16N	1/2	12.70	1	10.41	1-3/8	34.92	7/8	22.22	22.86	21.84	46.99	57.15
SMC-10-6N	5/8	15.87	3/8	12.70	15/16	23.81	1	25.40	24.38	21.84	34.03	44.19
SMC-10-8N	5/8	15.87	1/2	12.70	15/16	23.81	1	25.40	24.38	21.84	38.86	49.02
SMC-10-12N	5/8	15.87	3/4	12.70	1-1/16	26.98	1	25.40	24.38	21.84	40.38	50.54
SMC-12-8N	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	40.38	50.54
SMC-12-12N	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	40.38	50.54
SMC-12-16N	3/4	19.05	1	15.74	1-3/8	34.92	1-1/8	28.58	24.38	21.84	46.99	57.15
SMC-14-12N	7/8	22.22	3/4	18.28	1-3/16	30.16	1-1/4	31.75	25.90	21.84	40.38	50.54
SMC-14-16N	7/8	22.22	1	18.28	1-3/8	34.92	1-1/4	31.75	25.90	21.84	46.99	57.15
SMC-16-8N	1	25.40	1/2	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	45.21	57.40
SMC-16-12N	1	25.40	3/4	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	45.21	57.40
SMC-16-16N	1	25.40	1	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	50.03	62.23
SMC-20-16N	1-1/4	31.75	1	27.68	1-3/4	44.45	1-7/8	47.63	41.14	38.86	55.11	77.21
SMC-20-20N	1-1/4	31.75	1-1/4	27.68	1-3/4	44.45	1-7/8	47.63	41.14	38.86	55.11	77.21
SMC-20-24N	1-1/4	31.75	1-1/2	27.68	1-3/4	44.45	1-7/8	47.63	41.14	38.86	60.54	82.64
SMC-24-20N	1-1/2	38.10	1-1/4	34.03	2-1/8	53.98	2-1/4	57.15	50.03	45.21	59.42	86.60
SMC-24-24N	1-1/2	38.10	1-1/2	34.03	2-1/8	53.98	2-1/4	57.15	50.03	45.21	61.72	88.90
SMC-24-32N	1-1/2	38.10	2	34.03	2-3/4	69.85	2-1/4	57.15	50.03	45.21	62.42	99.75
SMC-32-8N	2	50.80	1/2	45.97	2-3/4	69.85	3	76.20	67.56	62.73	68.40	105.73
SMC-32-20N	2	50.80	1-1/4	45.97	2-3/4	69.85	3	76.20	67.56	62.73	71.40	108.73
SMC-32-24N	2	50.80	1-1/2	45.97	2-3/4	69.85	3	76.20	67.56	62.73	75.50	112.83
SMC-32-32N	2	50.80	2	45.97	2-3/4	69.85	3	76.20	67.56	62.73	76.20	113.53

Male Connector

SMC-R





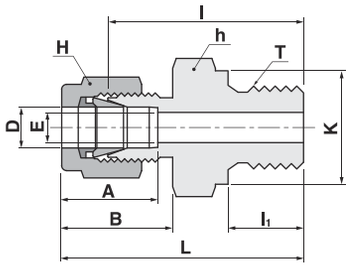
Connects metric tube to female ISO taper thread

These fittings may have a larger opening at the pipe / staight thread end.

Part No.	Tube O.D	T	E	Width across flat		A	B	I	L
	D	R(PT)	Min.	h	H				
SMC-2M-2R	2	1/8	1.7	12	12	12.9	15.3	23.1	29.7
SMC-3M-2R	3	1/8	2.4	12	12	12.9	15.3	23.1	29.7
SMC-3M-4R	3	1/4	2.4	14	12	12.9	15.3	29.0	35.6
SMC-4M-2R	4	1/8	2.4	12	12	13.7	16.1	24.6	31.2
SMC-4M-4R	4	1/4	2.4	14	12	13.7	16.1	29.7	36.3
SMC-6M-2R	6	1/8	4.8	14	14	15.3	17.7	25.4	32.8
SMC-6M-4R	6	1/4	4.8	14	14	15.3	17.7	30.2	37.6
SMC-6M-6R	6	3/8	4.8	8	14	15.3	17.7	31.0	38.4
SMC-6M-8R	6	1/2	4.8	22	14	15.3	17.7	36.6	44.0
SMC-8M-2R	8	1/8	6.4	15	16	16.2	18.6	26.7	34.2
SMC-8M-4R	8	1/4	6.4	15	16	16.2	18.6	31.2	38.7
SMC-8M-6R	8	3/8	6.4	18	16	16.2	18.6	31.8	39.2
SMC-8M-8R	8	1/2	6.4	22	16	16.2	18.6	37.3	44.8
SMC-10M-2R	10	1/8	4.8	18	19	17.2	19.5	28.7	36.3
SMC-10M-4R	10	1/4	7.1	18	19	17.2	19.5	33.3	40.9
SMC-10M-6R	10	3/8	7.9	18	19	17.2	19.5	33.3	40.9
SMC-10M-8R	10	1/2	7.9	22	19	17.2	19.5	38.1	45.7
SMC-12M-4R	12	1/4	9.5	22	22	22.8	22.0	33.3	43.4
SMC-12M-6R	12	3/8	9.5	22	22	22.8	22.0	33.3	43.4
SMC-12M-8R	12	1/2	9.5	22	22	22.8	22.0	38.1	48.2
SMC-12M-12R	12	3/4	9.5	27	22	22.8	22.0	38.9	49.0
SMC-15M-8R	15	1/2	11.9	24	25	24.4	22.0	38.9	49.0
SMC-16M-4R	16	1/4	12.7	24	25	24.4	22.0	34.0	44.1
SMC-16M-6R	16	3/8	12.7	24	25	24.4	22.0	34.0	44.1
SMC-16M-8R	16	1/2	12.7	24	25	24.4	22.0	38.9	49.0
SMC-16M-12R	16	3/4	12.7	27	25	24.4	22.0	38.9	49.0
SMC-18M-8R	18	1/2	15.1	27	30	24.4	22.0	40.4	50.5
SMC-18M-12R	18	3/4	15.1	27	30	24.4	22.0	40.4	50.5
SMC-20M-8R	20	1/2	15.9	30	32	26.0	22.0	42.2	52.3
SMC-20M-12R	20	3/4	15.9	30	32	26.0	22.0	42.2	52.3
SMC-22M-12R	22	3/4	18.3	30	32	26.0	22.0	42.2	52.3
SMC-22M-16R	22	1	18.3	35	32	26.0	22.0	47.8	57.9
SMC-25M-12R	25	3/4	21.8	35	38	31.3	26.5	45.2	57.5
SMC-25M-16R	25	1	21.8	35	38	31.3	26.5	50.0	62.3
SMC-28M-16R	28	1	21.8	41	46	36.6	36.6	51.6	72.4
SMC-28M-20R	28	1-1/4	21.8	46	46	36.6	36.6	52.3	73.1
SMC-32M-20R	32	1-1/4	28.6	46	50	42.0	41.6	56.6	79.6
SMC-38M-24R	38	1-1/2	33.7	55	60	49.4	47.9	64.0	91.6

Male Connector
for Bonded Seal

SMC-G





Connects fractional tube to female ISO parallel thread

These fittings may have a larger opening at the pipe / staight thread end.

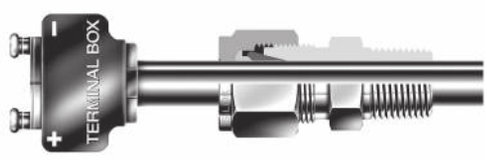
Part No.	Tube O.D D		T	E	Width across flat h		H		A	B	I	I_1	L	K
	in	mm	G(PF)	Min.	in	mm	in	mm						
SMC-2-2G	1/8	3.17	1/8	2.28	9/16	14.28	7/16	11.11	12.70	15.24	23.37	7.11	29.97	13.72
SMC-2-4G	1/8	3.17	1/4	2.28	3/4	19.05	7/16	11.11	12.70	15.24	28.70	11.18	35.31	18.03
SMC-2-6G	1/8	3.17	3/8	2.28	7/8	22.22	7/16	11.11	12.70	15.24	29.72	11.18	36.21	21.84
SMC-4-2G	1/4	6.35	1/8	4.82	9/16	14.28	9/16	14.28	15.24	17.78	24.89	7.11	32.26	13.72
SMC-4-4G	1/4	6.35	1/4	4.82	3/4	19.05	9/16	14.28	15.24	17.78	30.23	11.18	37.59	18.03
SMC-4-6G	1/4	6.35	3/8	4.82	7/8	22.22	9/16	14.28	15.24	17.78	61.50	11.18	38.86	21.84
SMC-4-8G	1/4	6.35	1/2	4.82	1-1/16	26.98	9/16	14.28	15.24	17.78	37.34	14.22	44.70	25.91
SMC-6-4G	3/8	9.52	1/4	7.11	3/4	19.05	11/16	17.46	16.76	19.30	31.75	11.18	39.12	18.03
SMC-6-6G	3/8	9.52	3/8	7.11	7/8	22.22	11/16	17.46	16.76	19.30	33.02	11.18	40.39	21.84
SMC-6-8G	3/8	9.52	1/2	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	38.86	14.22	46.23	25.91
SMC-8-4G	1/2	12.70	1/4	10.41	13/16	20.64	7/8	22.22	22.86	21.84	32.51	11.18	42.67	18.03
SMC-8-6G	1/2	12.70	3/8	10.41	7/8	22.22	7/8	22.22	22.86	21.84	33.02	11.18	43.18	21.84
SMC-8-8G	1/2	12.70	1/2	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	38.86	14.22	49.02	25.91
SMC-12-8G	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	38.86	14.22	49.02	25.91
SMC-12-12G	3/4	19.05	3/4	15.74	1-5/16	33.33	1-1/8	28.58	24.38	21.84	42.67	15.75	52.83	32.00
SMC-16-8G	1	25.40	1/2	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	43.69	14.22	55.88	25.91
SMC-16-16G	1	25.40	1	22.35	1-5/8	41.27	1-1/2	38.10	31.24	26.41	47.75	18.29	59.94	39.12
SMC-20-20G	1-1/4	31.75	1-1/4	27.68	2	50.80	1-7/8	47.63	41.14	38.86	51.16	20.00	73.26	49.00
SMC-24-24G	1-1/2	38.10	1-1/2	34.03	2-1/4	57.15	2-1/4	57.15	50.03	45.21	57.57	22.00	84.75	55.00

Connects metric tube to female ISO parallel thread

Part No.	Tube O.D	T	E	Width across flat		A	B	I	I_1	L	K
	D	G(PF)	Min.	h	H						
SMC-2M-2G	2	1/8	1.7	14	12	12.9	15.3	23.4	7.1	30.0	13.8
SMC-3M-2G	3	1/8	2.4	14	12	12.9	15.3	23.4	7.1	30.0	13.8
SMC-3M-4G	3	1/4	2.4	19	12	12.9	15.3	28.7	11.2	35.3	18.0
SMC-4M-2G	4	1/8	2.4	14	12	13.7	16.1	24.1	7.1	30.7	13.8
SMC-4M-4G	4	1/4	2.4	19	12	13.7	16.1	29.4	11.2	36.0	18.0
SMC-6M-2G	6	1/8	4.8	14	14	15.3	17.7	24.9	7.1	32.3	13.8
SMC-6M-4G	6	1/4	4.8	19	14	15.3	17.7	30.2	11.2	37.6	18.0
SMC-6M-6G	6	3/8	4.8	22	14	15.3	17.7	31.5	11.2	38.9	21.8
SMC-6M-8G	6	1/2	4.8	27	14	15.3	17.7	37.3	14.2	44.7	26.0
SMC-8M-2G	8	1/8	6.4	15	16	16.2	18.6	25.7	7.1	33.2	13.8
SMC-8M-4G	8	1/4	6.4	19	16	16.2	18.6	31.0	11.2	38.5	18.0
SMC-8M-6G	8	3/8	6.4	22	16	16.2	18.6	32.3	11.2	39.8	21.8
SMC-8M-8G	8	1/2	6.4	27	16	16.2	18.6	38.1	14.2	45.6	26.0
SMC-10M-4G	10	1/4	7.9	19	19	17.2	19.5	31.8	11.2	39.4	18.0
SMC-10M-6G	10	3/8	7.9	22	19	17.2	19.5	33.0	11.2	40.6	21.8
SMC-10M-8G	10	1/2	7.9	27	19	17.2	19.5	38.9	14.2	46.5	26.0
SMC-12M-4G	12	1/4	9.5	22	22	22.8	22.0	32.5	11.2	42.6	18.0
SMC-12M-6G	12	3/8	9.5	22	22	22.8	22.0	33.0	11.2	43.1	21.8
SMC-12M-8G	12	1/2	9.5	27	22	22.8	22.0	38.9	14.2	49.0	26.0
SMC-12M-12G	12	3/4	9.5	35	22	22.8	22.0	42.7	15.7	52.8	32.0
SMC-16M-6G	16	3/8	12.7	24	25	24.4	22.0	33.8	11.2	43.9	21.8
SMC-16M-8G	16	1/2	12.7	27	25	24.4	22.0	38.9	14.2	49.0	26.0
SMC-18M-8G	18	1/2	15.1	27	30	24.4	22.0	38.9	14.2	49.0	26.0
SMC-18M-12G	18	3/4	15.1	35	30	24.4	22.0	42.7	15.7	52.8	32.0
SMC-20M-8G	20	1/2	15.9	30	32	26.0	22.0	40.4	14.2	50.5	26.0
SMC-20M-12G	20	3/4	15.9	35	32	26.0	22.0	42.7	15.7	52.8	32.0
SMC-22M-12G	22	3/4	18.3	35	32	26.0	22.0	42.7	15.7	52.8	32.0
SMC-22M-16G	22	1	18.3	41	32	26.0	22.0	45.2	18.3	55.3	39.0
SMC-25M-12G	25	3/4	21.8	35	38	31.3	26.5	45.2	15.7	57.5	32.0
SMC-25M-16G	25	1	21.8	41	38	31.3	26.5	47.8	18.3	60.1	39.0
SMC-28M-16G	28	1	21.8	41	46	36.6	36.6	49.3	18.3	70.1	39.0
SMC-28M-20G	28	1-1/4	21.8	50	46	36.6	36.6	53.1	19.8	73.9	49.0
SMC-32M-20G	32	1-1/4	28.6	50	50	42.0	41.6	55.9	19.8	78.9	49.0
SMC-38M-24G	38	1-1/2	33.7	55	60	49.4	47.9	63.2	22.1	90.8	54.7

Thermocouple Connector

SMCT



S-LOK thermocouple connector has no shoulder nor sizing angle inside the fitting; the features enable thermocoupler to go through the fitting's thread end.

Example : SMCT 8-8N-S6 for ordering Thermocouple connector
O.D 1/2"× 1/2"NPT S316

Assembly Instructions
1. Position the length of the Thermocouple passed through fitting's thread end and hold it to prevent shifting during assembly.
2. Turn the nut 1-1/4 after finger tight with a wrench by holding the body with a back up wrench for size 1/4"(6mm) or above.

ISO Pipe Thread

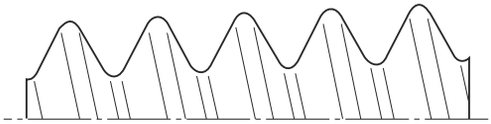
The International Standards Organization created the ISO 228/1 and 7/1 threads to standardize the nomenclature of several international pipe threads.

ISO 7/1

The ISO 7/1 is a tapered thread that is sealing threads working by interference fit. This still requires thread sealant for pressure-tight seal by filling the voids between threads, and further, this prevents galling on piping threads. The sealant usually contains a lubricant.
The ISO 7/1 is described in following codes.
1. BS 21(BSPT) 2. JIS B0203(PT) 3. ISO 7/1 4. DIN 2999 (male thread only)

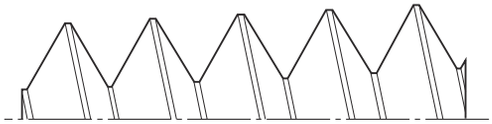
The ISO 7/1 looks similar to the NPT thread. See how different they are as illustrated below.

ISO 7/1 tapered pipe thread

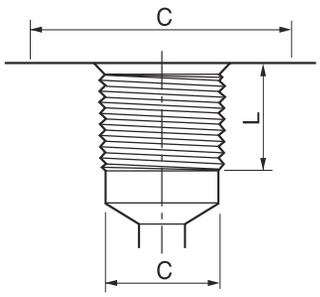


*55°thread angle
*Pitch measured in millimeters
*Truncation of root and crest are round
*Taper angle 1°47'

NPT tapered pipe threads



*60°thread angle
*Pitch measured in Inches
*Truncation of root and crest are flat
*Taper angle 1°47'



ISO Internal Parallel Pipe Thread

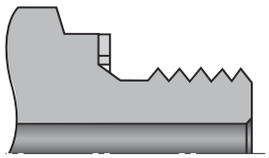
S-LOK Pipe Thread Designator	ISO Female Parallel Pipe Size	Minimum Full Thread Depth L	Thread Minor Diameter D	Minmum Flat Diameter for SGB & SGC C
2	1/8	0.31	0.337 / 0.348	0.59
4	1/4	0.47	0.450 / 0.468	0.75
6	3/8	0.47	0.588 / 0.606	0.91
8	1/2	0.55	0.733 / 0.755	1.06
12	3/4	0.63	0.949 / 0.971	1.30
16	1	0.71	1.193 / 1.218	1.57

ISO 228/1

ISO 228/1 is parallel thread the that is no sealing threads. The pressure tight seal is usually made metal to metal against the female port or with a gasket.

ISO 228/1 is described in following codes.
1.BS 2779(BSPP) 2.DIN-ISO 228/1 3.JIS B0202(PF) 4.ISO 228/1

The ISO 228/1 threads sealing available in S-LOK are listed below.

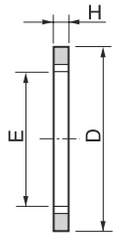


Sealing by compression against face of body
Reference DIN 3852 Type A

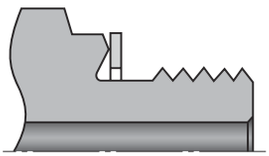
A self-centering taper is constructed at the hex. This taper centers a bonded washer to seal to the surface surrounding the female thread.

SGB Bonded Seal Gasket
(Buna inner ring bonded to carbon steel outer ring)

Ordering Number	E		H		D	
	in	mm	in	mm	in	mm
SGB-2-	0.41	10.4	0.08	2.0	0.63	16.0
SGB-4-	0.54	13.7	0.08	2.0	0.81	20.6
SGB-6-	0.68	17.3	0.08	2.0	0.94	23.9
SGB-8-	0.85	21.6	0.10	2.5	1.13	28.7
SGB-12-	1.06	27.2	0.10	2.5	1.38	35.1
SGB-16-	1.33	33.8	0.10	3.2	1.69	42.9
SGB-20-	1.67	42.4	0.10	3.2	2.01	51.1
SGB-24-	1.92	48.8	0.10	3.2	2.33	59.2





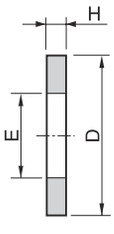


Sealing by gasket (washer)
Reference DIN 3852 Type B

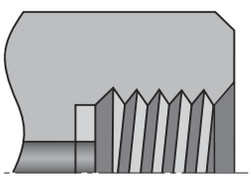
A metal gasket performs the sealing between the reverse bevel of the fitting and the face of the female threaded component.

SGC Copper Gasket

Ordering Number	E		H		D	
	in	mm	in	mm	in	mm
SGC-2-	0.39	9.9	0.04	1.0	0.59	15.0
SGC-4-	0.52	13.2	0.06	1.5	0.75	19.1
SGC-6-	0.66	16.8	0.06	1.5	0.91	23.1
SGC-8-	0.83	21.1	0.06	1.5	1.06	26.9
SGC-12-	1.05	26.7	0.08	2.0	1.30	33.0
SGC-16-	1.31	33.3	0.08	2.0	1.58	40.1
SGC-20-	1.66	42.2	0.08	2.0	1.96	49.8
SGC-24-	1.89	48.0	0.08	2.0	2.30	58.4





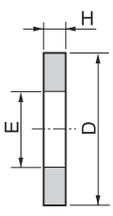


Sealing by gasket.
Reference DIN 3852 Type Y

A gasket is dropped into the flat bottom of the female thread. The face of the male thread eerts aload on the gasket to seal.

SGG Copper Gasket

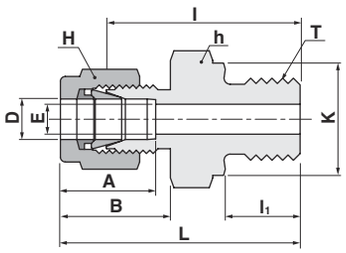
Ordering Number	E		H		D	
	in	mm	in	mm	in	mm
SGG-4-	0.30	7.6	0.08	2.0	0.42	10.7
SGG-6-	0.34	8.6	0.10	2.5	0.56	14.2
SGG-8-	0.36	9.1	0.10	2.5	0.70	17.8





Male Connector
for Metal Gasket

SOM





Connects fractional tube to female ISO parallel thread

These fittings may have a larger opening at the pipe / staight thread end.

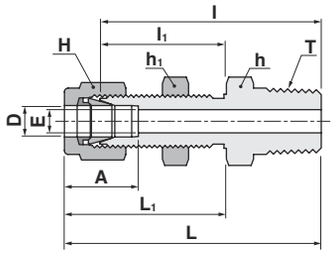
Part No.	Tube O.D D		T	E	Width across flat h		H		A	B	I	l_1	L	K
	in	mm	G(PF)	Min.	in	mm	in	mm						
SOM-2-2G	1/8	3.17	1/8	2.28	9/16	14.28	7/16	11.11	12.70	15.24	23.37	7.11	29.97	13.72
SOM-2-4G	1/8	3.17	1/4	2.28	3/4	19.05	7/16	11.11	12.70	15.24	28.70	11.18	35.31	18.03
SOM-2-6G	1/8	3.17	3/8	2.28	7/8	22.22	7/16	11.11	12.70	15.24	29.72	11.18	36.21	21.84
SOM-4-2G	1/4	6.35	1/8	4.82	9/16	14.28	9/16	14.28	15.24	17.78	24.89	7.11	32.26	13.72
SOM-4-4G	1/4	6.35	1/4	4.82	3/4	19.05	9/16	14.28	15.24	17.78	30.23	11.18	37.59	18.03
SOM-4-6G	1/4	6.35	3/8	4.82	7/8	22.22	9/16	14.28	15.24	17.78	61.50	11.18	38.86	21.84
SOM-4-8G	1/4	6.35	1/2	4.82	1-1/16	26.98	9/16	14.28	15.24	17.78	37.34	14.22	44.70	25.91
SOM-6-4G	3/8	9.52	1/4	7.11	3/4	19.05	11/16	17.46	16.76	19.30	31.75	11.18	39.12	18.03
SOM-6-6G	3/8	9.52	3/8	7.11	7/8	22.22	11/16	17.46	16.76	19.30	33.02	11.18	40.39	21.84
SOM-6-8G	3/8	9.52	1/2	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	38.86	14.22	46.23	25.91
SOM-8-4G	1/2	12.70	1/4	10.41	13/16	20.64	7/8	22.22	22.86	21.84	32.51	11.18	42.67	18.03
SOM-8-6G	1/2	12.70	3/8	10.41	7/8	22.22	7/8	22.22	22.86	21.84	33.02	11.18	43.18	21.84
SOM-8-8G	1/2	12.70	1/2	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	38.86	14.22	49.02	25.91
SOM-12-8G	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	38.86	14.22	49.02	25.91
SOM-12-12G	3/4	19.05	3/4	15.74	1-5/16	33.33	1-1/8	28.58	24.38	21.84	42.67	15.75	52.83	32.00
SOM-16-8G	1	25.40	1/2	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	43.69	14.22	55.88	25.91
SOM-16-16G	1	25.40	1	22.35	1-5/8	41.27	1-1/2	38.10	31.24	26.41	47.75	18.29	59.94	39.12
SOM-20-20G	1-1/4	31.75	1-1/4	27.68	2	50.80	1-7/8	47.63	41.14	38.86	51.16	20.00	73.26	49.00
SOM-24-24G	1-1/2	38.10	1-1/2	34.03	2-1/4	57.15	2-1/4	57.15	50.03	45.21	57.57	22.00	84.75	55.00

Connects metric tube to female ISO parallel thread

Part No.	Tube O.D D	T G(PF)	E Min.	Width across flat h	H	A	B	I	l_1	L	K
SOM-3M-2G	3	1/8	2.4	14	12	12.9	15.3	23.4	7.1	30.0	13.8
SOM-3M-4G	3	1/4	2.4	19	12	12.9	15.3	28.7	11.2	35.3	18.0
SOM-4M-2G	4	1/8	2.4	14	12	13.7	16.1	24.1	7.1	30.7	13.8
SOM-6M-2G	6	1/8	4.8	14	14	15.3	17.7	24.9	7.1	32.3	13.8
SOM-6M-4G	6	1/4	4.8	19	14	15.3	17.7	30.2	11.2	37.6	18.0
SOM-6M-6G	6	3/8	4.8	22	14	15.3	17.7	31.5	11.2	38.9	21.8
SOM-6M-8G	6	1/2	4.8	27	14	15.3	17.7	37.3	14.2	44.7	26.0
SOM-8M-2G	8	1/8	6.4	15	16	16.2	18.6	25.7	7.1	33.2	13.8
SOM-8M-4G	8	1/4	6.4	19	16	16.2	18.6	31.0	11.2	38.5	18.0
SOM-8M-6G	8	3/8	6.4	22	16	16.2	18.6	32.3	11.2	39.8	21.8
SOM-8M-8G	8	1/2	6.4	27	16	16.2	18.6	38.1	14.2	45.6	26.0
SOM-10M-4G	10	1/4	7.9	19	19	17.2	19.5	31.8	11.2	39.4	18.0
SOM-10M-6G	10	3/8	7.9	22	19	17.2	19.5	33.0	11.2	40.6	21.8
SOM-10M-8G	10	1/2	7.9	27	19	17.2	19.5	38.9	14.2	46.5	26.0
SOM-12M-4G	12	1/4	9.5	22	22	22.8	22.0	32.5	11.2	42.6	18.0
SOM-12M-6G	12	3/8	9.5	22	22	22.8	22.0	33.0	11.2	43.1	21.8
SOM-12M-8G	12	1/2	9.5	27	22	22.8	22.0	38.9	14.2	49.0	26.0
SOM-12M-12G	12	3/4	9.5	35	22	22.8	22.0	42.7	15.7	52.8	32.0
SOM-16M-6G	16	3/8	12.7	24	25	24.4	22.0	33.8	11.2	43.9	21.8
SOM-16M-8G	16	1/2	12.7	27	25	24.4	22.0	38.9	14.2	49.0	26.0
SOM-18M-8G	18	1/2	15.1	27	30	24.4	22.0	38.9	14.2	49.0	26.0
SOM-18M-12G	18	3/4	15.1	35	30	24.4	22.0	42.7	15.7	52.8	32.0
SOM-20M-8G	20	1/2	15.9	30	32	26.0	22.0	40.4	14.2	50.5	26.0
SOM-20M-12G	20	3/4	15.9	35	32	26.0	22.0	42.7	15.7	52.8	32.0
SOM-22M-12G	22	3/4	18.3	35	32	26.0	22.0	42.7	15.7	52.8	32.0
SOM-22M-16G	22	1	18.3	41	32	26.0	22.0	45.2	18.3	55.3	39.0
SOM-25M-12G	25	3/4	21.8	35	38	31.3	26.5	45.2	15.7	57.5	32.0
SOM-25M-16G	25	1	21.8	41	38	31.3	26.5	47.8	18.3	60.1	39.0
SOM-28M-16G	28	1	21.8	41	46	36.6	36.6	49.3	18.3	70.1	39.0
SOM-28M-20G	28	1-1/4	21.8	50	46	36.6	36.6	53.1	19.8	73.9	49.0
SOM-32M-20G	32	1-1/4	28.6	50	50	42.0	41.6	55.9	19.8	78.9	49.0
SOM-38M-24G	38	1-1/2	33.7	55	60	49.4	47.9	61.7	20.6	89.3	54.7

Bulkhead
Male Connector

SMCB



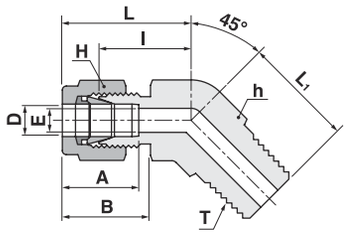


Connects fractional tube to female NPT thread
These fittings may have a larger opening at the pipe / staight thread end.

Part No.	Tube O.D D		T	E	Width across flat h		h_1		H		A	I	I_1	L	L_1	Panel Hole Drill Size	Panel Max. Thickness
	in	mm	N(NPT)	Min.	in	mm	in	mm	in	mm							
SMCB-2-2N	1/8	3.17	1/8	2.28	1/2	12.70	1/2	12.70	7/16	11.11	12.70	39.87	24.63	46.48	31.24	8.33	12.70
SMCB-4-2N	1/4	6.35	1/8	4.82	5/8	15.87	5/8	15.87	9/16	14.28	15.24	42.16	26.16	49.53	33.52	11.50	10.16
SMCB-4-4N	1/4	6.35	1/4	4.82	5/8	15.87	5/8	15.87	9/16	14.28	15.24	45.97	26.16	53.34	33.52	11.50	10.16
SMCB-6-4N	3/8	9.52	1/4	7.11	3/4	19.05	3/4	19.05	11/16	17.46	16.76	50.03	29.46	57.40	36.83	14.68	11.17
SMCB-6-6N	3/8	9.52	3/8	7.11	3/4	19.05	3/4	19.05	11/16	17.46	16.76	50.03	29.46	57.40	36.83	14.68	11.17
SMCB-6-8N	3/8	9.52	1/2	7.11	7/8	22.22	7/8	22.22	11/16	17.46	16.76	56.38	29.46	63.75	36.83	14.68	11.17
SMCB-8-6N	1/2	12.70	3/8	10.41	15/16	23.81	15/16	23.81	7/8	22.22	22.86	53.08	31.75	63.24	41.91	19.44	12.70
SMCB-8-8N	1/2	12.70	1/2	10.41	15/16	23.81	15/16	23.81	7/8	22.22	22.86	58.67	31.75	68.83	41.91	19.44	12.70
SMCB-12-12N	3/4	19.05	3/4	15.74	1-3/16	30.16	1-3/16	30.16	1-1/8	28.58	24.38	66.04	37.33	76.20	47.49	25.76	16.76
SMCB-16-16N	1	25.40	1	22.35	1-5/8	41.28	1-5/8	41.28	1-1/2	38.10	31.24	81.02	45.21	93.21	57.40	33.73	19.05
SMCB-20-20N	1-1/4	31.75	1-1/4	27.68	1-7/8	47.63	1-7/8	47.63	1-7/8	47.63	41.14	85.97	47.75	108.07	69.85	41.67	19.05
SMCB-24-24N	1-1/2	38.10	1-1/2	34.03	2-1/4	57.15	2-1/4	57.15	2-1/4	57.15	50.03	93.03	49.27	120.21	76.45	49.61	19.05
SMCB-32-32N	2	50.80	2	45.97	2-3/4	69.85	2-3/4	69.85	3	76.20	67.56	107.29	56.38	144.62	93.71	57.94	19.05

45° Male Elbow

SLBM



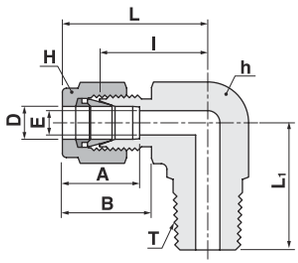


Connects fractional tube to female NPT thread
These fittings may have a larger opening at the pipe / staight thread end.

Part No.	Tube O.D D		T	E	Width across flat h		H		A	B	I	L	L_1
	in	mm	N(NPT)	Min.	in	mm	in	mm					
SLBM-4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	17.27	24.63	16.51
SLBM-4-4N	1/4	6.35	1/4	4.82	1/2	12.70	9/16	14.28	15.24	17.78	17.27	24.63	21.08
SLBM-6-2N	3/8	9.52	1/8	4.82	5/8	15.87	11/16	17.46	16.76	19.30	20.57	27.94	18.28
SLBM-6-4N	3/8	9.52	1/4	7.11	5/8	15.87	11/16	17.46	16.76	19.30	20.57	27.94	22.86
SLBM-6-6N	3/8	9.52	3/8	7.11	11/16	17.46	11/16	17.46	16.76	19.30	21.84	29.21	24.13
SLBM-8-6N	1/2	12.70	3/8	10.41	13/16	20.64	7/8	22.22	22.86	21.84	21.84	32.00	24.13
SLBM-8-8N	1/2	12.70	1/2	10.41	13/16	20.64	7/8	22.22	22.86	21.84	21.84	32.00	28.95
SLBM-12-12N	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	23.87	34.03	30.98
SLBM-16-16N	1	25.40	1	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	28.19	40.38	37.84

Male Elbow

SLM





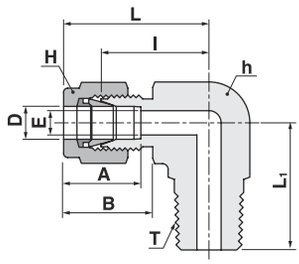
Connects fractional tube to female NPT thread

These fittings may have a larger opening at the pipe / staight thread end.

Part No.	Tube O.D D		T	E	Width across flat h		H		A	B	l	L	L_1
	in	mm	N(NPT)	Min.	in	mm	in	mm					
SLM-1-1N	1/16	1.59	1/16	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
SLM-1-2N	1/16	1.59	1/8	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
SLM-2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	18.90
SLM-2-4N	1/8	3.17	1/4	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	23.36
SLM-3-2N	3/16	4.76	1/8	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	18.79
SLM-3-4N	3/16	4.76	1/4	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	23.36
SLM-4-1N	1/4	6.35	1/16	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.90	18.79
SLM-4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.10	26.47	19.10
SLM-4-4N	1/4	6.35	1/4	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.81	27.18	23.87
SLM-4-6N	1/4	6.35	3/8	4.82	11/16	17.46	9/16	14.28	15.24	17.78	22.35	29.71	26.20
SLM-4-8N	1/4	6.35	1/2	4.82	13/16	20.64	9/16	14.28	15.24	17.78	24.60	31.97	33.02
SLM-5-2N	5/16	7.93	1/8	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70	19.81
SLM-5-4N	5/16	7.93	1/4	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	29.77	24.50
SLM-5-6N	5/16	7.93	3/8	6.35	11/16	17.46	5/8	15.87	16.25	18.54	23.11	30.48	26.20
SLM-6-2N	3/8	9.52	1/8	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48	20.60
SLM-6-4N	3/8	9.52	1/4	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48	25.40
SLM-6-6N	3/8	9.52	3/8	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	26.20
SLM-6-8N	3/8	9.52	1/2	7.11	13/16	20.64	11/16	17.46	16.76	19.30	25.90	31.42	33.02
SLM-6-12N	3/8	9.52	3/4	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	29.71	37.08	36.83
SLM-8-4N	1/2	12.70	1/4	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	28.30
SLM-8-6N	1/2	12.70	3/8	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	28.30
SLM-8-8N	1/2	12.70	1/2	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	33.02
SLM-8-12N	1/2	12.70	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	29.71	39.87	36.83
SLM-10-6N	5/8	15.87	3/8	12.70	15/16	23.81	1	25.40	24.38	21.84	28.00	37.06	30.22
SLM-10-8N	5/8	15.87	1/2	12.70	15/16	23.81	1	25.40	24.38	21.84	28.00	37.06	35.10
SLM-10-12N	5/8	15.87	3/4	12.70	1-1/16	26.98	1	25.40	24.38	21.84	29.71	39.87	36.83
SLM-12-8N	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	37.00
SLM-12-12N	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	36.83
SLM-14-12N	7/8	22.22	3/4	18.28	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70	41.65
SLM-16-12N	1	25.40	3/4	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	42.20
SLM-16-16N	1	25.40	1	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	49.70
SLM-20-20N	1-1/4	31.75	1-1/4	27.68	1-11/16	42.86	1-7/8	47.63	41.14	38.86	44.50	66.54	49.75
SLM-24-24N	1-1/2	38.10	1-1/2	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97	60.45
SLM-32-32N	2	50.80	2	45.97	2-3/4	69.82	3	76.20	67.56	62.54	69.80	107.18	70.61

Male Elbow

SLM



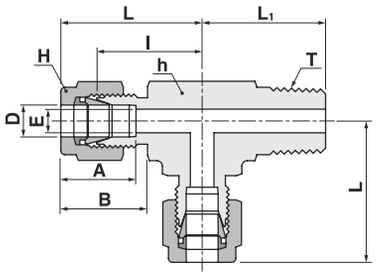


Connects metric tube to female ISO taper thread

Part No.	Tube O.D	T	E	Width across flat		A	B	I	L	L_1
	D	R(PT)	Min.	h	H					
SLM-3M-2R	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
SLM-3M-4R	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
SLM-4M-2R	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
SLM-4M-4R	4	1/4	2.4	12.7	12	13.7	16.1	18.8	25.4	23.4
SLM-6M-2R	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
SLM-6M-4R	6	1/4	4.8	12.7	14	15.3	17.7	19.6	27.0	23.4
SLM-6M-6R	6	3/8	4.8	17.5	14	15.3	17.7	22.4	29.8	26.2
SLM-6M-8R	6	1/2	4.8	20.6	14	15.3	17.7	24.4	31.8	33.0
SLM-8M-2R	8	1/8	6.4	14.3	16	16.2	18.6	21.3	28.8	19.8
SLM-8M-4R	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
SLM-8M-6R	8	3/8	6.4	17.5	16	16.2	18.6	23.1	30.6	26.2
SLM-8M-8R	8	1/2	6.4	20.6	16	16.2	18.6	25.1	32.6	33.0
SLM-10M-2R	10	1/8	7.9	17.5	19	17.2	19.5	23.9	31.5	23.6
SLM-10M-4R	10	1/4	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
SLM-10M-6R	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
SLM-10M-8R	10	1/2	7.9	20.6	19	17.2	19.5	25.9	33.5	33.0
SLM-12M-2R	12	1/4	9.5	20.6	22	22.8	22.0	25.9	36.0	23.6
SLM-12M-4R	12	1/4	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
SLM-12M-6R	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
SLM-12M-8R	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
SLM-12M-12R	12	3/4	9.5	27.0	22	22.8	22.0	29.7	39.8	36.8
SLM-16M-6R	16	3/8	12.7	23.8	25	24.4	22.0	27.9	38.0	30.2
SLM-16M-8R	16	1/2	12.7	23.8	25	24.4	22.0	27.9	38.0	35.1
SLM-16M-12R	16	3/4	12.7	27.0	25	24.4	22.0	29.7	39.8	36.8
SLM-18M-8R	18	1/2	15.1	27.0	30	24.4	22.0	29.7	39.8	36.8
SLM-18M-12R	18	3/4	15.1	27.0	30	24.4	22.0	29.7	39.8	36.8
SLM-20M-8R	20	1/2	15.9	31.8	32	26.0	22.0	34.5	44.6	41.7
SLM-20M-12R	20	3/4	15.9	31.8	32	26.0	22.0	34.5	44.6	41.7
SLM-22M-12R	22	3/4	18.3	31.8	32	26.0	22.0	34.5	44.6	41.7
SLM-22M-16R	22	1	18.3	34.9	32	26.0	22.0	34.5	44.6	46.5
SLM-25M-12R	25	3/4	21.8	34.9	38	31.3	26.5	36.8	49.1	41.7
SLM-25M-16R	25	1	21.8	34.9	38	31.3	26.5	36.8	49.1	46.5

Male Run Tee

STRM





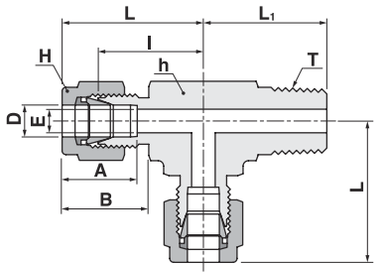
Connects fractional tube to female NPT thread

These fittings may have a larger opening at the pipe / staight thread end.

Part No.	Tube O.D D		T	E	Width across flat h		H		A	B	I	L	L_1
	in	mm	N(NPT)	Min.	in	mm	in	mm					
STRM-1-1N	1/16	1.59	1/16	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
STRM-1-2N	1/16	1.59	1/8	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
STRM-2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	18.90
STRM-2-4N	1/8	3.17	1/4	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	23.36
STRM-3-2N	3/16	4.76	1/8	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	18.79
STRM-3-4N	3/16	4.76	1/4	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	23.36
STRM-4-1N	1/4	6.35	1/16	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.90	18.79
STRM-4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.10	26.47	19.10
STRM-4-4N	1/4	6.35	1/4	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.81	27.18	23.87
STRM-4-6N	1/4	6.35	3/8	4.82	11/16	17.46	9/16	14.28	15.24	17.78	22.35	29.71	26.20
STRM-4-8N	1/4	6.35	1/2	4.82	13/16	20.64	9/16	14.28	15.24	17.78	24.60	31.97	33.02
STRM-5-2N	5/16	7.93	1/8	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70	19.81
STRM-5-4N	5/16	7.93	1/4	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	29.77	24.50
STRM-5-6N	5/16	7.93	3/8	6.35	11/16	17.46	5/8	15.87	16.25	18.54	23.11	30.48	26.20
STRM-6-4N	3/8	9.52	1/4	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48	25.40
STRM-6-6N	3/8	9.52	3/8	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	26.20
STRM-6-8N	3/8	9.52	1/2	7.11	13/16	20.64	11/16	17.46	16.76	19.30	25.90	31.42	33.02
STRM-6-12N	3/8	9.52	3/4	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	29.71	37.08	36.83
STRM-8-4N	1/2	12.70	1/4	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	28.30
STRM-8-6N	1/2	12.70	3/8	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	28.30
STRM-8-8N	1/2	12.70	1/2	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	33.02
STRM-8-12N	1/2	12.70	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	29.71	39.87	36.83
STRM-10-6N	5/8	15.87	3/8	12.70	15/16	23.81	1	25.40	24.38	21.84	28.00	37.06	30.22
STRM-10-8N	5/8	15.87	1/2	12.70	15/16	23.81	1	25.40	24.38	21.84	28.00	37.06	35.10
STRM-10-12N	5/8	15.87	3/4	12.70	1-1/16	26.98	1	25.40	24.38	21.84	29.71	39.87	36.83
STRM-12-8N	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	37.00
STRM-12-12N	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	36.83
STRM-14-12N	7/8	22.22	3/4	18.28	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70	41.65
STRM-16-12N	1	25.40	3/4	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	42.20
STRM-16-16N	1	25.40	1	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	49.70
STRM-20-20N	1-1/4	31.75	1-1/4	27.68	1-11/16	42.86	1-7/8	47.63	41.14	38.86	44.50	66.54	49.75
STRM-24-24N	1-1/2	38.10	1-1/2	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97	60.45
STRM-32-32N	2	50.80	2	45.97	2-3/4	69.82	3	76.20	67.56	62.54	69.80	107.18	70.61

Male Run Tee

STRM



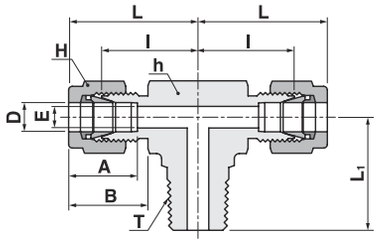


Connects metric tube to female ISO taper thread

Part No.	Tube O.D	T	E	Width across flat		A	B	I	L	L_1
	D	R(PT)	Min.	h	H					
STRM-3M-2R	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
STRM-3M-4R	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
STRM-4M-2R	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
STRM-4M-4R	4	1/4	2.4	12.7	12	13.7	16.1	18.8	25.4	23.4
STRM-6M-2R	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
STRM-6M-4R	6	1/4	4.8	12.7	14	15.3	17.7	19.6	27.0	23.4
STRM-6M-6R	6	3/8	4.8	17.5	14	15.3	17.7	22.4	29.8	26.2
STRM-6M-8R	6	1/2	4.8	20.6	14	15.3	17.7	24.4	31.8	33.0
STRM-8M-2R	8	1/8	6.4	14.3	16	16.2	18.6	21.3	28.8	19.8
STRM-8M-4R	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
STRM-8M-6R	8	3/8	6.4	17.5	16	16.2	18.6	23.1	30.6	26.2
STRM-8M-8R	8	1/2	6.4	20.6	16	16.2	18.6	25.1	32.6	33.0
STRM-10M-2R	10	1/8	7.9	17.5	19	17.2	19.5	23.9	31.5	23.6
STRM-10M-4R	10	1/4	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
STRM-10M-6R	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
STRM-10M-8R	10	1/2	7.9	20.6	19	17.2	19.5	25.9	33.5	33.0
STRM-12M-4R	12	1/4	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
STRM-12M-6R	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
STRM-12M-8R	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
STRM-12M-12R	12	3/4	9.5	27.0	22	22.8	22.0	29.7	39.8	36.8
STRM-16M-6R	16	3/8	12.7	23.8	25	24.4	22.0	27.9	38.0	30.2
STRM-16M-8R	16	1/2	12.7	23.8	25	24.4	22.0	27.9	38.0	35.1
STRM-16M-12R	16	3/4	12.7	27.0	25	24.4	22.0	29.7	39.8	36.8
STRM-18M-8R	18	1/2	15.1	27.0	30	24.4	22.0	29.7	39.8	36.8
STRM-18M-12R	18	3/4	15.1	27.0	30	24.4	22.0	29.7	39.8	36.8
STRM-20M-8R	20	1/2	15.9	31.8	32	26.0	22.0	34.5	44.6	41.7
STRM-20M-12R	20	3/4	15.9	31.8	32	26.0	22.0	34.5	44.6	41.7
STRM-22M-12R	22	3/4	18.3	31.8	32	26.0	22.0	34.5	44.6	41.7
STRM-22M-16R	22	1	18.3	34.9	32	26.0	22.0	34.5	44.6	46.5
STRM-25M-12R	25	3/4	21.8	34.9	38	31.3	26.5	36.8	49.1	41.7
STRM-25M-16R	25	1	21.8	34.9	38	31.3	26.5	36.8	49.1	46.5

Male Branch Tee

STBM





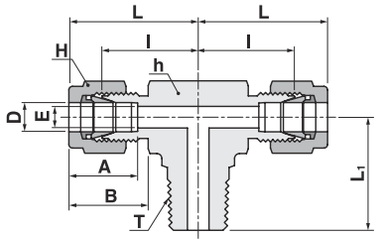
Connects fractional tube to female NPT thread

These fittings may have a larger opening at the pipe / staight thread end.

Part No.	Tube O.D D		T	E	Width across flat h		H		A	B	l	L	L_1
	in	mm	N(NPT)	Min.	in	mm	in	mm					
STBM-1-1N	1/16	1.59	1/16	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
STBM-1-2N	1/16	1.59	1/8	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
STBM-2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	18.90
STBM-2-4N	1/8	3.17	1/4	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	23.36
STBM-3-2N	3/16	4.76	1/8	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	18.79
STBM-3-4N	3/16	4.76	1/4	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	23.36
STBM-4-1N	1/4	6.35	1/16	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.90	18.79
STBM-4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.10	26.47	19.10
STBM-4-4N	1/4	6.35	1/4	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.81	27.18	23.87
STBM-4-6N	1/4	6.35	3/8	4.82	11/16	17.46	9/16	14.28	15.24	17.78	22.35	29.71	26.20
STBM-4-8N	1/4	6.35	1/2	4.82	13/16	20.64	9/16	14.28	15.24	17.78	24.60	31.97	33.02
STBM-5-2N	5/16	7.93	1/8	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70	19.81
STBM-5-4N	5/16	7.93	1/4	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	29.77	24.50
STBM-5-6N	5/16	7.93	3/8	6.35	11/16	17.46	5/8	15.87	16.25	18.54	23.11	30.48	26.20
STBM-6-4N	3/8	9.52	1/4	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48	25.40
STBM-6-6N	3/8	9.52	3/8	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	26.20
STBM-6-8N	3/8	9.52	1/2	7.11	13/16	20.64	11/16	17.46	16.76	19.30	25.90	31.42	33.02
STBM-6-12N	3/8	9.52	3/4	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	29.71	37.08	36.83
STBM-8-4N	1/2	12.70	1/4	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	28.30
STBM-8-6N	1/2	12.70	3/8	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	28.30
STBM-8-8N	1/2	12.70	1/2	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	33.02
STBM-8-12N	1/2	12.70	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	29.71	39.87	36.83
STBM-10-6N	5/8	15.87	3/8	12.70	15/16	23.81	1	25.40	24.38	21.84	28.00	37.06	30.22
STBM-10-8N	5/8	15.87	1/2	12.70	15/16	23.81	1	25.40	24.38	21.84	28.00	37.06	35.10
STBM-10-12N	5/8	15.87	3/4	12.70	1-1/16	26.98	1	25.40	24.38	21.84	29.71	39.87	36.83
STBM-12-8N	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	37.00
STBM-12-12N	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	36.83
STBM-14-12N	7/8	22.22	3/4	18.28	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70	41.65
STBM-16-12N	1	25.40	3/4	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	42.20
STBM-16-16N	1	25.40	1	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	49.70
STBM-20-20N	1-1/4	31.75	1-1/4	27.68	1-11/16	42.86	1-7/8	47.63	41.14	38.86	44.50	66.54	49.75
STBM-24-24N	1-1/2	38.10	1-1/2	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97	60.45
STBM-32-32N	2	50.80	2	45.97	2-3/4	69.82	3	76.20	67.56	62.54	69.80	107.18	70.61

Male Branch Tee

STBM



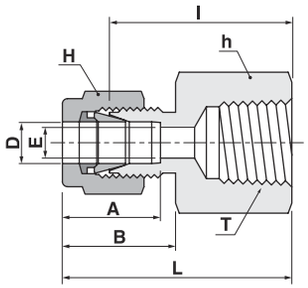


Connects metric tube to female ISO taper thread

Part No.	Tube O.D	T	E	Width across flat		A	B	I	L	L_1
	D	R(PT)	Min.	h	H					
STBM-3M-2R	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
STBM-3M-4R	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
STBM-4M-2R	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
STBM-4M-4R	4	1/4	2.4	12.7	12	13.7	16.1	18.8	25.4	23.4
STBM-6M-2R	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
STBM-6M-4R	6	1/4	4.8	12.7	14	15.3	17.7	19.6	27.0	23.4
STBM-6M-6R	6	3/8	4.8	17.5	14	15.3	17.7	22.4	29.8	26.2
STBM-6M-8R	6	1/2	4.8	20.6	14	15.3	17.7	24.4	31.8	33.0
STBM-8M-2R	8	1/8	6.4	14.3	16	16.2	18.6	21.3	28.8	19.8
STBM-8M-4R	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
STBM-8M-6R	8	3/8	6.4	17.5	16	16.2	18.6	23.1	30.6	26.2
STBM-8M-8R	8	1/2	6.4	20.6	16	16.2	18.6	25.1	32.6	33.0
STBM-10M-2R	10	1/8	7.9	17.5	19	17.2	19.5	23.9	31.5	23.6
STBM-10M-4R	10	1/4	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
STBM-10M-6R	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
STBM-10M-8R	10	1/2	7.9	20.6	19	17.2	19.5	25.9	33.5	33.0
STBM-12M-4R	12	1/4	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
STBM-12M-6R	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
STBM-12M-8R	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
STBM-12M-12R	12	3/4	9.5	27.0	22	22.8	22.0	29.7	39.8	36.8
STBM-16M-6R	16	3/8	12.7	23.8	25	24.4	22.0	27.9	38.0	30.2
STBM-16M-8R	16	1/2	12.7	23.8	25	24.4	22.0	27.9	38.0	35.1
STBM-16M-12R	16	3/4	12.7	27.0	25	24.4	22.0	29.7	39.8	36.8
STBM-18M-8R	18	1/2	15.1	27.0	30	24.4	22.0	29.7	39.8	36.8
STBM-18M-12R	18	3/4	15.1	27.0	30	24.4	22.0	29.7	39.8	36.8
STBM-20M-8R	20	1/2	15.9	31.8	32	26.0	22.0	34.5	44.6	41.7
STBM-20M-12R	20	3/4	15.9	31.8	32	26.0	22.0	34.5	44.6	41.7
STBM-22M-12R	22	3/4	18.3	31.8	32	26.0	22.0	34.5	44.6	41.7
STBM-22M-16R	22	1	18.3	34.9	32	26.0	22.0	34.5	44.6	46.5
STBM-25M-12R	25	3/4	21.8	34.9	38	31.3	26.5	36.8	49.1	41.7
STBM-25M-16R	25	1	21.8	34.9	38	31.3	26.5	36.8	49.1	46.5

Female Connector

SCF



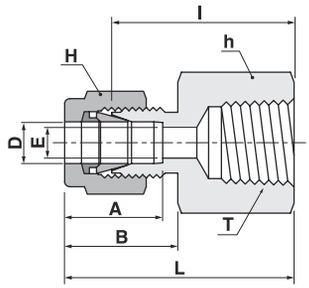


Connects fractional tube to male NPT thread

Part No.	Tube O.D D		T	E	Width across flat h		H		A	B	I	L
	in	mm	N(NPT)	Min.	in	mm	in	mm				
SCF-1-1N	1/16	1.59	1/16	1.27	7/16	11.11	5/16	7.93	8.63	10.92	19.21	23.62
SCF-1-2N	1/16	1.59	1/8	1.27	9/16	14.28	5/16	7.93	8.63	10.92	20.57	24.38
SCF-2-2N	1/8	3.17	1/8	2.28	9/16	14.28	7/16	11.11	12.70	15.24	22.09	28.70
SCF-2-4N	1/8	3.17	1/4	2.28	3/4	19.05	7/16	11.11	12.70	15.24	26.92	33.52
SCF-3-2N	3/16	4.76	1/8	3.04	9/16	14.28	1/2	12.70	13.71	16.00	23.11	29.71
SCF-4-2N	1/4	6.35	1/8	4.82	9/16	14.28	9/16	14.28	15.24	17.78	23.87	31.24
SCF-4-4N	1/4	6.35	1/4	4.82	3/4	19.05	9/16	14.28	15.24	17.78	28.44	35.81
SCF-4-6N	1/4	6.35	3/8	4.82	7/8	22.22	9/16	14.28	15.24	17.78	30.22	37.59
SCF-4-8N	1/4	6.35	1/2	4.82	1-1/16	26.98	9/16	14.28	15.24	17.78	35.05	42.41
SCF-5-2N	5/16	7.93	1/8	6.35	9/16	14.28	5/8	15.87	16.25	18.54	24.63	32.00
SCF-5-4N	5/16	7.93	1/4	6.35	3/4	19.05	5/8	15.87	16.25	18.54	29.46	36.83
SCF-6-2N	3/8	9.52	1/4	7.11	5/8	15.87	11/16	17.46	16.76	19.30	25.40	32.76
SCF-6-4N	3/8	9.52	1/4	7.11	3/4	19.05	11/16	17.46	16.76	19.30	30.22	37.59
SCF-6-6N	3/8	9.52	3/8	7.11	7/8	22.22	11/16	17.46	16.76	19.30	31.75	39.11
SCF-6-8N	3/8	9.52	1/2	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	36.57	43.94
SCF-6-12N	3/8	9.52	3/4	7.11	1-5/16	33.33	11/16	17.46	16.76	19.30	40.38	47.75
SCF-8-4N	1/2	12.70	1/4	10.41	13/16	20.64	7/8	22.22	22.86	21.84	30.22	40.38
SCF-8-6N	1/2	12.70	3/8	10.41	7/8	22.22	7/8	22.22	22.86	21.84	31.75	41.91
SCF-8-8N	1/2	12.70	1/2	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	36.57	46.73
SCF-8-12N	1/2	12.70	3/4	10.41	1-5/16	33.33	7/8	22.22	22.86	21.84	38.10	48.26
SCF-10-6N	5/8	15.87	3/8	12.70	15/16	23.81	1	25.40	24.38	21.84	31.75	41.91
SCF-10-8N	5/8	15.87	1/2	12.70	1-1/16	26.98	1	25.40	24.38	21.84	36.57	46.73
SCF-10-12N	5/8	15.87	3/4	12.70	1-5/16	33.33	1	25.40	24.38	21.84	38.10	48.26
SCF-12-8N	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	36.57	46.73
SCF-12-12N	3/4	19.05	3/4	15.74	1-5/16	33.33	1-1/8	28.58	24.38	21.84	38.10	48.26
SCF-14-12N	7/8	22.22	3/4	18.28	1-5/16	33.33	1-1/4	31.75	25.90	21.84	39.62	49.78
SCF-16-12N	1	25.40	3/4	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	41.14	53.34
SCF-16-16N	1	25.40	1	22.35	1-5/8	41.27	1-1/2	38.10	31.24	26.41	50.03	62.23
SCF-20-20N	1-1/4	31.75	1-1/4	27.68	2-1/8	53.98	1-7/8	47.63	41.14	38.86	52.57	74.67
SCF-24-24N	1-1/2	38.10	1-1/2	34.03	2-3/8	60.33	2-1/4	57.15	50.03	45.21	56.13	83.31
SCF-32-32N	2	50.80	2	45.97	2-7/8	73.03	3	76.20	67.56	62.54	64.26	101.60

Female Connector

SCF





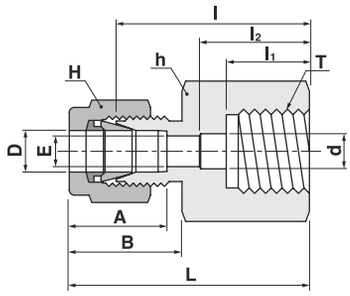
Connects metric tube to male ISO taper thread

Part No.	Tube O.D	T	E	Width across flat		A	B	I	L
	D	R(PT)	Min.	h	H				
SCF-3M-2R	3	1/8	2.4	14	12	12.9	15.3	22.1	28.7
SCF-3M-4R	3	1/4	2.4	19	12	12.9	15.3	26.9	33.5
SCF-4M-2R	4	1/8	2.4	14	12	13.7	16.1	23.1	29.7
SCF-6M-2R	6	1/8	4.8	14	14	15.3	17.7	23.9	31.3
SCF-6M-4R	6	1/4	4.8	19	14	15.3	17.7	28.4	35.8
SCF-6M-6R	6	3/8	4.8	22	14	15.3	17.7	29.5	36.9
SCF-6M-8R	6	1/2	4.8	27	14	15.3	17.7	35.1	42.5
SCF-8M-2R	8	1/8	6.4	15	16	16.2	18.6	24.6	32.1
SCF-8M-4R	8	1/4	6.4	19	16	16.2	18.6	29.5	37.0
SCF-8M-6R	8	3/8	6.4	22	16	16.2	18.6	30.2	37.7
SCF-8M-8R	8	1/2	6.4	27	16	16.2	18.6	35.8	43.3
SCF-10M-2R	10	1/8	7.9	18	19	17.2	19.5	25.4	33.0
SCF-10M-4R	10	1/4	7.9	19	19	17.2	19.5	30.2	37.8
SCF-10M-6R	10	3/8	7.9	22	19	17.2	19.5	31.0	38.6
SCF-10M-8R	10	1/2	7.9	27	19	17.2	19.5	36.6	44.2
SCF-12M-2R	12	1/4	9.5	22	22	22.8	22.0	28.4	38.5
SCF-12M-4R	12	1/4	9.5	22	22	22.8	22.0	30.2	40.3
SCF-12M-6R	12	3/8	9.5	22	22	22.8	22.0	31.0	41.1
SCF-12M-8R	12	1/2	9.5	27	22	22.8	22.0	36.6	46.7
SCF-12M-12R	12	3/4	9.5	35	22	22.8	22.0	38.9	49.0
SCF-15M-8R	15	1/2	11.9	27	27	24.4	22.0	36.6	46.7
SCF-16M-8R	16	1/2	12.7	27	25	24.4	22.0	36.8	46.9
SCF-20M-8R	20	1/2	15.9	30	32	26.0	22.0	37.8	47.9
SCF-20M-12R	20	3/4	15.9	35	32	26.0	22.0	39.6	49.7
SCF-22M-12R	22	3/4	18.3	35	32	26.0	22.0	39.6	49.7
SCF-22M-16R	22	1	18.3	41	32	26.0	22.0	47.8	57.9
SCF-25M-12R	25	3/4	21.8	35	38	31.3	26.5	41.1	53.4
SCF-25M-16R	25	1	21.8	41	38	31.3	26.5	50.0	62.3

Gauge Connector

SCG

See page 32
for SGG gasket





Connects fractional tube to male ISO parallel thread (gauge)

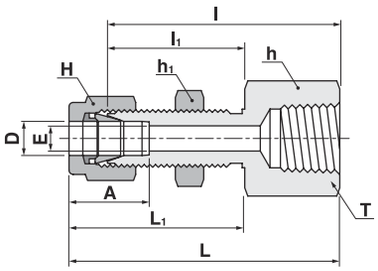
Part No.	Tube O.D D		T	E	Width across flat h		H		A	B	l	l_1	l_2	d	L
	in	mm	G(PF)	Min.	in	mm	in	mm							
SCG-4-2G	1/4	6.35	1/8	4.82	9/16	14.28	9/16	14.28	15.24	17.78	26.30	12.00	17.00	5.60	33.55
SCG-4-4G	1/4	6.35	1/4	4.82	3/4	19.05	9/16	14.28	15.24	17.78	30.22	12.95	17.00	5.60	37.59
SCG-4-6G	1/4	6.35	3/8	4.82	7/8	22.22	9/16	14.28	15.24	17.78	30.22	14.22	18.00	6.60	37.59
SCG-4-8G	1/4	6.35	1/2	4.82	1-1/16	26.98	9/16	14.28	15.24	17.78	36.07	18.80	22.00	7.10	43.43
SCG-5-4G	5/16	7.93	1/4	6.35	3/4	19.05	5/8	15.87	16.25	18.54	30.98	12.95	-	-	38.60
SCG-5-8G	5/16	7.93	1/2	6.35	1-1/16	26.98	5/8	15.87	16.25	18.54	33.53	18.80	-	-	40.89
SCG-6-4G	3/8	9.52	1/4	7.11	3/4	19.05	11/16	17.46	16.76	19.30	31.75	12.95	-	-	39.12
SCG-6-6G	3/8	9.52	3/8	7.11	7/8	22.22	11/16	17.46	16.76	19.30	31.24	14.22	-	-	38.61
SCG-6-8G	3/8	9.52	1/2	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	34.54	18.80	-	-	41.91
SCG-8-4G	1/2	12.70	1/4	10.41	13/16	20.64	7/8	22.22	22.86	21.84	31.80	12.95	-	-	41.95
SCG-8-6G	1/2	12.70	3/8	10.41	7/8	22.22	7/8	22.22	22.86	21.84	34.29	14.22	-	-	44.45
SCG-8-8G	1/2	12.70	1/2	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	38.10	18.80	-	-	48.26

Connects metric tube to male ISO parallel thread (gauge)

Part No.	Tube O.D D	T G(PF)	E Min.	Width across flat h	H	A	B	l	l_1	l_2	d	L
SCG-3M-4G	3	1/4	2.4	19	12	12.9	15.3	28.7	13	17.0	5.5	35.3
SCG-6M-4G	6	1/4	4.8	19	14	15.3	17.7	30.2	13	17.0	5.5	37.6
SCG-6M-6G	6	3/8	4.8	24	14	15.3	17.7	30.2	14	18.0	6.5	37.6
SCG-6M-8G	6	1/2	4.8	27	14	15.3	17.7	36.1	19	22.0	7.0	43.5
SCG-8M-4G	8	1/4	6.4	19	16	16.2	18.6	31.0	13	-	5.5	38.5
SCG-8M-6G	8	3/8	6.4	24	16	16.2	18.6	28.7	14	-	6.5	36.2
SCG-8M-8G	8	1/2	6.4	27	16	16.2	18.6	33.5	19	-	7.0	41.0
SCG-10M-4G	10	1/4	7.9	19	19	17.2	19.5	31.8	13	-	5.5	39.4
SCG-10M-6G	10	3/8	7.9	24	19	17.2	19.5	31.2	14	-	6.5	38.8
SCG-10M-8G	10	1/2	7.9	27	19	17.2	19.5	34.5	19	-	7.0	42.1
SCG-12M-4G	12	1/4	9.5	22	22	22.8	22.0	31.8	13	-	5.5	41.9
SCG-12M-6G	12	3/8	9.5	24	22	22.8	22.0	34.3	14	-	6.5	44.4
SCG-12M-8G	12	1/2	9.5	27	22	22.8	22.0	38.1	19	-	7.0	48.2
SCG-20M-8G	20	1/2	15.9	30	32	26.0	22.0	44.2	19	-	7.0	54.3
SCG-22M-8G	22	1/2	9.5	30	32	22.8	22.0	44.2	19	-	7.0	54.3

Bulkhead Female Connector

SCBF





Connects fractional tube to male NPT thread

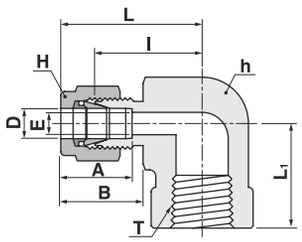
Part No.	Tube O.D D		T	E	Width across flat h		h1		H		A	I	I1	L	L1	Panel Hole Drill Size	Panel Max. Thickness
	in	mm	N(NPT)	Min.	in	mm	in	mm	in	mm							
SCBF-2-2N	1/8	3.17	1/8	2.28	9/16	14.28	1/2	12.70	7/16	11.11	12.70	38.10	24.63	44.70	31.24	8.33	12.70
SCBF-4-2N	1/4	6.35	1/8	4.82	5/8	15.87	5/8	15.87	9/16	14.28	15.24	39.62	26.16	46.99	33.52	11.50	10.16
SCBF-4-4N	1/4	6.35	1/4	4.82	3/4	19.05	5/8	15.87	9/16	14.28	15.24	44.45	26.16	51.81	33.52	11.50	10.16
SCBF-6-4N	3/8	9.52	1/4	7.11	3/4	19.05	3/4	19.05	11/16	17.46	16.76	47.75	29.46	55.11	36.83	14.68	11.17
SCBF-6-6N	3/8	9.52	3/8	7.11	7/8	22.22	3/4	19.05	11/16	17.46	16.76	49.41	29.46	56.77	36.83	14.68	11.17
SCBF-8-6N	1/2	12.70	3/8	10.41	15/16	23.81	15/16	23.81	7/8	22.22	22.86	51.56	31.75	61.72	41.91	19.44	12.70
SCBF-8-8N	1/2	12.70	1/2	10.41	1-1/16	26.98	15/16	23.81	7/8	22.22	22.86	56.38	31.75	66.54	41.91	19.44	12.70
SCBF-12-12N	3/4	19.05	3/4	15.74	1-5/16	33.33	1-3/16	30.16	1-1/8	28.58	24.38	63.60	37.33	73.51	47.21	25.79	16.76
SCBF-16-16N	1	25.40	1	22.35	1-5/8	41.27	1-5/8	41.27	1-1/2	38.10	31.24	81.04	45.21	93.23	57.40	33.73	19.05
SCBF-20-20N	1-1/4	31.75	1-1/4	27.68	2-1/8	53.98	1-7/8	47.63	1-7/8	47.63	41.14	83.49	47.75	105.59	69.85	41.67	19.05
SCBF-24-24N	1-1/2	38.10	1-1/2	34.03	2-3/8	60.33	2-1/4	57.15	2-1/4	57.15	50.03	87.39	49.27	114.57	76.45	49.61	19.05
SCBF-32-32N	2	50.80	2	45.97	2/1/8	73.03	2-3/4	69.85	3	76.20	67.56	95.30	56.38	132.63	93.71	57.94	19.05

Connects metric tube to male NPT thread

Part No.	Tube O.D	T	E	Width across flat			A	I	I1	L	L1	Panel Hole Drill Size	Panel Max. Thickness
	D	N(NPT)	Min.	h	h1	H							
SCBF-6M-2N	6	1/8	4.8	15.8	15.8	14	15.3	39.6	26.2	469	35.0	11.5	10.2
SCBF-6M-4N	6	1/4	4.8	19.0	16.0	14	15.3	44.4	26.2	51.8	33.6	11.5	10.2
SCBF-8M-4N	8	1/4	6.4	19.0	17.4	16	16.2	46.7	28.6	53.9	35.6	13.1	11.2
SCBF-12M-8N	12	1/2	9.5	27.0	24.0	22	22.8	56.4	31.8	66.5	41.9	19.5	12.7

Female Elbow

SLF





Connects fractional tube to male NPT thread

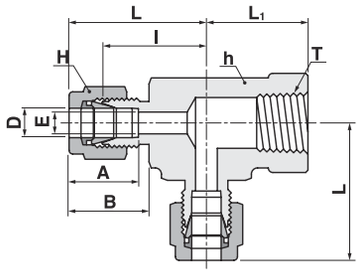
Part No.	Tube O.D D		T	E	Width across flat h		H		A	B	l	L	L_1
	in	mm	N(NPT)	Min.	in	mm	in	mm					
SLF-2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.03	24.63	19.05
SLF-2-4N	1/8	3.17	1/4	2.28	11/16	17.46	7/16	11.11	12.70	15.24	20.82	27.43	22.35
SLF-3-2N	3/16	4.76	1/8	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	19.05
SLF-4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92	19.05
SLF-4-4N	1/4	6.35	1/4	4.82	11/16	17.46	9/16	14.28	15.24	17.78	22.35	29.71	22.35
SLF-4-6N	1/4	6.35	3/8	4.82	13/16	20.64	9/16	14.28	15.24	17.78	24.38	31.75	22.35
SLF-4-8N	1/4	6.35	1/2	4.82	1	25.40	9/16	14.28	15.24	17.78	27.17	34.54	28.44
SLF-5-2N	5/16	7.93	1/8	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70	19.05
SLF-5-4N	5/16	7.93	1/4	6.35	11/16	17.46	5/8	15.87	16.25	18.54	23.11	30.48	22.35
SLF-6-2N	3/8	9.52	1/4	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48	19.05
SLF-6-4N	3/8	9.52	1/4	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	22.35
SLF-6-6N	3/8	9.52	3/8	7.11	13/16	20.64	11/16	17.46	16.76	19.30	25.90	33.27	22.35
SLF-6-8N	3/8	9.52	1/2	7.11	1	25.40	11/16	17.46	16.76	19.30	28.70	36.06	28.44
SLF-8-4N	1/2	12.70	1/4	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	22.35
SLF-8-6N	1/2	12.70	3/8	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	22.35
SLF-8-8N	1/2	12.70	1/2	10.41	1	25.40	7/8	22.22	22.86	21.84	28.70	38.86	28.44
SLF-10-6N	5/8	15.87	3/8	12.70	15/16	23.81	1	25.40	24.38	21.84	27.94	38.10	22.35
SLF-10-8N	5/8	15.87	1/2	12.70	1	25.40	1	25.40	24.38	21.84	29.71	39.87	28.44
SLF-12-8N	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	28.44
SLF-12-12N	3/4	19.05	3/4	15.74	1-1/4	31.75	1-1/8	28.58	24.38	21.84	34.54	44.70	31.75
SLF-14-12N	7/8	22.22	3/4	18.28	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70	31.75
SLF-16-12N	1	25.40	3/4	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	31.75
SLF-16-16N	1	25.40	1	22.35	1-11/16	42.86	1-1/2	38.10	31.24	26.41	41.40	50.29	38.10

Connects metric tube to male NPT thread

Part No.	Tube O.D	T	E	Width across flat		A	B	l	L	L_1
	D	N(NPT)	Min.	h	H					
SLF-6M-2N	6	1/8	4.8	12.70	14	15.3	17.7	19.6	27.0	19.00
SLF-6M-4N	6	1/4	4.8	17.46	14	15.3	17.7	22.4	29.8	22.40
SLF-6M-6N	6	3/8	4.8	20.64	14	15.3	17.7	24.4	31.7	22.40
SLF-6M-8N	6	1/2	4.8	25.40	14	15.3	17.7	27.2	34.6	28.40
SLF-8M-2N	8	1/8	6.4	15.87	16	16.2	18.6	23.1	29.9	19.00
SLF-8M-4N	8	1/4	6.4	17.46	16	16.2	18.6	23.1	30.6	22.40
SLF-8M-8N	8	1/2	6.4	25.40	16	16.2	18.6	28.0	35.2	28.40
SLF-10M-2N	10	1/8	7.9	17.46	19	17.2	19.5	23.9	31.5	19.00
SLF-10M-4N	10	1/4	7.9	20.64	19	17.2	19.5	25.9	33.5	22.40
SLF-10M-6N	10	3/8	7.9	20.64	19	17.2	19.5	25.9	33.5	22.40
SLF-10M-8N	10	1/2	7.9	25.40	19	17.2	19.5	28.7	36.1	28.40
SLF-12M-4N	12	1/4	9.5	20.64	22	22.8	22.0	25.9	36.0	22.40
SLF-12M-6N	12	3/8	9.5	20.64	22	22.8	22.0	25.9	36.2	22.35
SLF-12M-8N	12	1/2	9.5	25.40	22	22.8	22.0	28.7	38.8	28.40
SLF-16M-8N	16	1/2	12.7	26.98	25	24.4	22.0	29.7	39.5	28.40

Female Run Tee

STRF





Connects fractional tube to male NPT thread

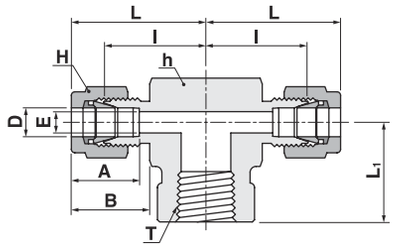
Part No.	Tube O.D D		T	E	Width across flat h		H		A	B	I	L	L_1
	in	mm	N(NPT)	Min.	in	mm	in	mm					
STRF-2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.03	24.63	19.05
STRF-2-4N	1/8	3.17	1/4	2.28	11/16	17.46	7/16	11.11	12.70	15.24	20.82	27.43	22.35
STRF-3-2N	3/16	4.76	1/8	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	19.05
STRF-4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92	19.05
STRF-4-4N	1/4	6.35	1/4	4.82	11/16	17.46	9/16	14.28	15.24	17.78	22.35	29.71	22.35
STRF-4-6N	1/4	6.35	3/8	4.82	13/16	20.64	9/16	14.28	15.24	17.78	24.38	31.75	22.35
STRF-4-8N	1/4	6.35	1/2	4.82	1	25.40	9/16	14.28	15.24	17.78	27.17	34.54	28.44
STRF-5-2N	5/16	7.93	1/8	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70	19.05
STRF-5-4N	5/16	7.93	1/4	6.35	11/16	17.46	5/8	15.87	16.25	18.54	23.11	30.48	22.35
STRF-6-2N	3/8	9.52	1/4	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48	19.05
STRF-6-4N	3/8	9.52	1/4	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	22.35
STRF-6-6N	3/8	9.52	3/8	7.11	13/16	20.64	11/16	17.46	16.76	19.30	25.90	33.27	22.35
STRF-6-8N	3/8	9.52	1/2	7.11	1	25.40	11/16	17.46	16.76	19.30	28.70	36.06	28.44
STRF-8-4N	1/2	12.70	1/4	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	22.35
STRF-8-6N	1/2	12.70	3/8	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	22.35
STRF-8-8N	1/2	12.70	1/2	10.41	1	25.40	7/8	22.22	22.86	21.84	28.70	38.86	28.44
STRF-10-6N	5/8	15.87	3/8	12.70	15/16	23.81	1	25.40	24.38	21.84	27.94	38.10	22.35
STRF-10-8N	5/8	15.87	1/2	12.70	1	25.40	1	25.40	24.38	21.84	29.71	39.87	28.44
STRF-12-8N	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	28.44
STRF-12-12N	3/4	19.05	3/4	15.74	1-1/4	31.75	1-1/8	28.58	24.38	21.84	34.54	44.70	31.75
STRF-14-12N	7/8	22.22	3/4	18.28	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70	31.75
STRF-16-12N	1	25.40	3/4	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	31.75
STRF-16-16N	1	25.40	1	22.35	1-11/16	42.86	1-1/2	38.10	31.24	26.41	41.40	50.29	38.10

Connects metric tube to male NPT thread

Part No.	Tube O.D	T	E	Width across flat		A	B	I	L	L_1
	D	N(NPT)	Min.	h	H					
STRF-6M-2N	6	1/8	4.8	12.70	14	15.3	17.7	19.6	27.0	19.00
STRF-6M-4N	6	1/4	4.8	17.46	14	15.3	17.7	22.4	29.8	22.40
STRF-6M-6N	6	3/8	4.8	20.64	14	15.3	17.7	24.4	31.7	22.40
STRF-6M-8N	6	1/2	4.8	25.40	14	15.3	17.7	27.2	34.6	28.40
STRF-8M-2N	8	1/8	6.4	15.87	16	16.2	18.6	23.1	29.9	19.00
STRF-8M-4N	8	1/4	6.4	17.46	16	16.2	18.6	23.1	30.6	22.40
STRF-8M-6N	8	1/4	6.4	20.64	16	16.2	18.6	25.2	32.4	22.40
STRF-8M-8N	8	1/2	6.4	25.40	16	16.2	18.6	28.0	35.2	28.40
STRF-10M-2N	10	1/8	7.9	17.46	19	17.2	19.5	23.9	31.5	19.00
STRF-10M-4N	10	1/4	7.9	20.64	19	17.2	19.5	25.9	33.5	22.40
STRF-10M-6N	10	3/8	7.9	20.64	19	17.2	19.5	25.9	33.5	22.40
STRF-10M-8N	10	1/2	7.9	25.40	19	17.2	19.5	28.7	36.1	28.40
STRF-12M-4N	12	1/4	9.5	20.64	22	22.8	22.0	25.9	36.0	22.40
STRF-12M-6N	12	3/8	9.5	20.64	22	22.8	22.0	25.9	36.2	22.35
STRF-12M-8N	12	1/2	9.5	25.40	22	22.8	22.0	28.7	38.8	28.40
STRF-16M-8N	16	1/2	12.7	26.98	25	24.4	22.0	29.7	39.5	28.40

Female Branch Tee

STBF





Connects fractional tube to male NPT thread

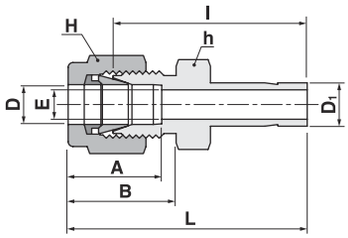
Part No.	Tube O.D D		T	E	Width across flat h		H		A	B	l	L	L_1
	in	mm	N(NPT)	Min.	in	mm	in	mm					
STBF-2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.03	24.63	19.05
STBF-2-4N	1/8	3.17	1/4	2.28	11/16	17.46	7/16	11.11	12.70	15.24	20.82	27.43	22.35
STBF-3-2N	3/16	4.76	1/8	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	19.05
STBF-4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92	19.05
STBF-4-4N	1/4	6.35	1/4	4.82	11/16	17.46	9/16	14.28	15.24	17.78	22.35	29.71	22.35
STBF-4-6N	1/4	6.35	3/8	4.82	13/16	20.64	9/16	14.28	15.24	17.78	24.38	31.75	22.35
STBF-4-8N	1/4	6.35	1/2	4.82	1	25.40	9/16	14.28	15.24	17.78	27.17	34.54	28.44
STBF-5-2N	5/16	7.93	1/8	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70	19.05
STBF-5-4N	5/16	7.93	1/4	6.35	11/16	17.46	5/8	15.87	16.25	18.54	23.11	30.48	22.35
STBF-6-2N	3/8	9.52	1/4	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48	19.05
STBF-6-4N	3/8	9.52	1/4	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	22.35
STBF-6-6N	3/8	9.52	3/8	7.11	13/16	20.64	11/16	17.46	16.76	19.30	25.90	33.27	22.35
STBF-6-8N	3/8	9.52	1/2	7.11	1	25.40	11/16	17.46	16.76	19.30	28.70	36.06	28.44
STBF-8-4N	1/2	12.70	1/4	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	22.35
STBF-8-6N	1/2	12.70	3/8	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	22.35
STBF-8-8N	1/2	12.70	1/2	10.41	1	25.40	7/8	22.22	22.86	21.84	28.70	38.86	28.44
STBF-10-6N	5/8	15.87	3/8	12.70	15/16	23.81	1	25.40	24.38	21.84	27.94	38.10	22.35
STBF-10-8N	5/8	15.87	1/2	12.70	1	25.40	1	25.40	24.38	21.84	29.71	39.87	28.44
STBF-12-8N	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	28.44
STBF-12-12N	3/4	19.05	3/4	15.74	1-1/4	31.75	1-1/8	28.58	24.38	21.84	34.54	44.70	31.75
STBF-14-12N	7/8	22.22	3/4	18.28	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70	31.75
STBF-16-12N	1	25.40	3/4	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	31.75
STBF-16-16N	1	25.40	1	22.35	1-11/16	42.86	1-1/2	38.10	31.24	26.41	41.40	50.29	38.10

Connects metric tube to male NPT thread

Part No.	Tube O.D D	T N(NPT)	E Min.	Width across flat h	H	A	B	l	L	L_1
STBF-6M-2N	6	1/8	4.8	12.70	14	15.3	17.7	19.6	27.0	19.00
STBF-6M-4N	6	1/4	4.8	17.46	14	15.3	17.7	22.4	29.8	22.40
STBF-6M-6N	6	3/8	4.8	20.64	14	15.3	17.7	24.4	31.7	22.40
STBF-6M-8N	6	1/2	4.8	25.40	14	15.3	17.7	27.2	34.6	28.40
STBF-8M-2N	8	1/8	6.4	15.87	16	16.2	18.6	23.1	29.9	19.00
STBF-8M-4N	8	1/4	6.4	17.46	16	16.2	18.6	23.1	30.6	22.40
STBF-8M-6N	8	1/4	6.4	20.64	16	16.2	18.6	25.2	32.4	22.40
STBF-8M-8N	8	1/2	6.4	25.40	16	16.2	18.6	28.0	35.2	28.40
STBF-10M-2N	10	1/8	7.9	17.46	19	17.2	19.5	23.9	31.5	19.00
STBF-10M-4N	10	1/4	7.9	20.64	19	17.2	19.5	25.9	33.5	22.40
STBF-10M-6N	10	3/8	7.9	20.64	19	17.2	19.5	25.9	33.5	22.40
STBF-10M-8N	10	1/2	7.9	25.40	19	17.2	19.5	28.7	36.1	28.40
STBF-12M-4N	12	1/4	9.5	20.64	22	22.8	22.0	25.9	36.0	22.40
STBF-12M-6N	12	3/8	9.5	20.64	22	22.8	22.0	25.9	36.2	22.35
STBF-12M-8N	12	1/2	9.5	25.40	22	22.8	22.0	28.7	38.8	28.40
STBF-16M-8N	16	1/2	12.7	26.98	25	24.4	22.0	29.7	39.5	28.40

Reducer

SR



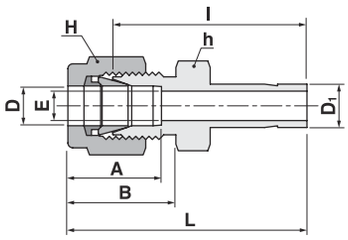


Connects fractional tube to frational S-LOK port

Part No.	Tube O.D				E	Width across flat				A	B	I	L
	D		D_1			h		H					
	in	mm	in	mm	Min.	in	mm	in	mm				
SR-1-2	1/16	1.59	1/8	3.17	1.27	5/16	7.93	5/16	7.93	8.63	10.92	25.40	29.21
SR-1-4	1/16	1.59	1/4	6.35	1.27	5/16	7.93	5/16	7.93	8.63	10.92	57.68	31.49
SR-2-1	1/8	3.17	1/16	1.59	2.28	7/16	11.11	7/16	11.11	12.70	15.24	22.35	28.95
SR-2-2	1/8	3.17	1/8	3.17	2.03	7/16	11.11	7/16	11.11	12.70	15.24	26.92	33.52
SR-2-3	1/8	3.17	3/16	4.76	2.28	7/16	11.11	7/16	11.11	12.70	15.24	27.68	34.29
SR-2-4	1/8	3.17	1/4	6.35	2.28	7/16	11.11	7/16	11.11	12.70	15.24	29.46	36.06
SR-2-6	1/8	3.17	3/8	9.52	2.28	7/16	11.11	7/16	11.11	12.70	15.24	30.98	37.59
SR-2-8	1/8	3.17	1/2	12.70	2.28	9/16	14.28	7/16	11.11	12.70	15.24	37.59	44.19
SR-3-2	3/16	4.76	3/16	4.76	2.03	7/16	11.11	1/2	12.70	13.71	16.00	28.19	34.79
SR-3-4	3/16	4.76	1/4	6.35	3.04	7/16	11.11	1/2	12.70	13.71	16.00	30.48	37.08
SR-4-2	1/4	6.35	1/8	3.17	2.03	1/2	12.70	9/16	14.28	15.24	17.78	29.46	36.83
SR-4-3	1/4	6.35	3/16	4.76	3.04	1/2	12.70	9/16	14.28	15.24	17.78	30.22	37.59
SR-4-4	1/4	6.35	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	31.75	39.11
SR-4-5	1/4	6.35	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	32.51	39.87
SR-4-6	1/4	6.35	3/8	9.52	4.82	1/2	12.70	9/16	14.28	15.24	17.78	33.27	40.64
SR-4-8	1/4	6.35	1/2	12.70	4.82	9/16	14.28	9/16	14.28	15.24	17.78	38.86	46.22
SR-4-10	1/4	6.35	5/8	15.87	4.82	11/16	17.46	9/16	14.28	15.24	17.78	40.64	48.00
SR-4-12	1/4	6.35	3/4	19.05	4.82	13/16	20.64	9/16	14.28	15.24	17.78	40.38	47.75
SR-5-6	5/16	7.93	3/8	9.52	6.35	9/16	14.28	5/8	15.87	16.25	18.54	34.54	41.91
SR-5-8	5/16	7.93	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	40.13	47.49
SR-6-4	3/8	9.52	1/4	6.35	4.82	5/8	15.87	11/16	17.46	16.76	19.30	34.03	41.40
SR-6-6	3/8	9.52	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	35.81	43.18
SR-6-8	3/8	9.52	1/2	12.70	7.11	5/8	15.87	11/16	17.46	16.76	19.30	41.14	48.51
SR-6-10	3/8	9.52	5/8	15.87	7.11	11/16	17.46	11/16	17.46	16.76	19.30	42.92	50.29
SR-6-12	3/8	9.52	3/4	19.05	7.11	13/16	20.64	11/16	17.46	16.76	19.30	42.92	50.29
SR-8-4	1/2	12.70	1/4	6.35	4.82	13/16	20.64	7/8	22.22	22.86	21.84	34.79	44.95
SR-8-6	1/2	12.70	1/2	12.70	7.11	13/16	20.64	7/8	22.22	22.86	21.84	36.57	46.73
SR-8-8	1/2	12.70	1/2	12.70	9.90	13/16	20.64	7/8	22.22	22.86	21.84	42.16	52.32
SR-8-10	1/2	12.70	5/8	15.87	10.41	13/16	20.64	7/8	22.22	22.86	21.84	43.68	53.84
SR-8-12	1/2	12.70	3/4	19.05	10.41	13/16	20.64	7/8	22.22	22.86	21.84	43.68	53.84
SR-8-16	1/2	12.70	1	25.40	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	50.03	60.19
SR-10-12	5/8	15.87	3/4	19.05	12.70	1-1/16	26.98	1	25.40	24.38	21.84	44.45	54.61
SR-10-14	5/8	15.87	5/8	15.87	12.70	15/16	23.81	1	25.40	24.38	21.84	45.97	56.13
SR-10-16	5/8	15.87	1	25.40	12.70	15/16	23.81	1	25.40	24.38	21.84	50.80	60.96
SR-12-8	3/4	19.05	1/2	12.70	9.90	1-1/16	26.98	1-1/8	28.58	24.38	21.84	44.45	54.61
SR-12-16	3/4	19.05	1	25.40	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	52.32	62.48
SR-16-20	1	25.40	1-1/4	31.75	22.35	1-3/8	34.93	1-1/2	38.10	31.24	26.41	68.32	80.51
SR-16-24	1	25.40	1-1/2	38.10	22.35	1-5/8	41.28	1-1/2	38.10	31.24	26.41	76.96	89.15
SR-16-32	1	25.40	2	50.80	22.35	2-1/8	53.98	1-1/2	38.10	31.24	26.41	100.33	112.52
SR-20-24	1-1/4	31.75	1-1/2	38.10	27.68	1-7/8	47.63	2-1/4	57.15	41.14	38.86	82.04	104.14
SR-20-32	1-1/4	31.75	2	50.80	27.68	2-1/8	53.98	2-1/4	57.15	41.14	38.86	103.12	125.22
SR-24-32	1-1/2	38.10	2	50.80	34.03	2-1/4	57.15	3	76.20	50.03	45.21	101.14	131.31

Reducer

SR





Connects metric tube to frational S-LOK port

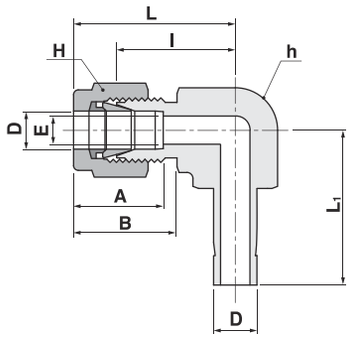
Part No.	Tube O.D D	Tube O.D D_1 in	Tube O.D D_1 mm	E Min.	Width across flat h	Width across flat H	A	B	l	L
SR-2M-2	2	1/8	3.17	1.7	12	12	12.9	15.3	26.9	33.5
SR-3M-2	3	1/8	3.17	2.0	12	12	12.9	15.3	26.9	33.5
SR-3M-4	3	1/4	6.35	2.4	12	12	12.9	15.3	39.5	36.1
SR-4M-4	4	1/4	6.35	2.4	12	12	13.7	16.1	30.5	37.1
SR-6M-2	6	1/8	3.17	2.0	14	14	15.3	17.7	29.5	36.9
SR-6M-4	6	1/4	6.35	4.8	14	14	15.3	17.7	31.8	39.2
SR-6M-5	6	1/4	6.35	4.8	14	14	15.3	17.7	32.5	39.9
SR-6M-6	6	3/8	9.52	4.8	14	14	15.3	17.7	33.3	40.7
SR-6M-8	6	1/2	12.70	4.8	14	14	15.3	17.7	38.9	46.3
SR-8M-6	8	3/8	9.52	6.4	15	16	16.2	18.6	34.5	42.0
SR-8M-8	8	5/16	7.93	6.4	15	16	16.2	18.6	40.1	47.6
SR-10M-6	10	3/8	9.52	7.1	18	19	17.2	19.5	36.6	44.2
SR-10M-8	10	1/2	12.70	7.9	18	19	17.2	19.5	42.2	49.8
SR-12M-8	12	1/2	12.70	9.5	22	22	22.8	22.0	42.2	52.3
SR-12M-12	12	3/4	19.05	9.5	22	22	22.8	22.0	43.7	53.8
SR-18M-12	18	3/4	19.05	15.1	27	30	24.4	22.0	46.0	56.1
SR-18M-16	18	1	25.40	15.1	27	30	24.4	22.0	52.3	62.4
SR-25M-16	25	1	25.40	20.2	35	38	31.3	26.5	57.2	69.5

Connects metric tube to metric S-LOK port

Part No.	Tube O.D D	Tube O.D D_1	E Min.	Width across flat h	Width across flat H	A	B	l	L
SR-2M-3M	2	3	1.7	12	12	12.9	15.3	26.9	35.3
SR-3M-4M	3	4	2.4	12	12	12.9	15.3	28.4	35.0
SR-3M-6M	3	6	2.4	12	12	12.9	15.3	29.5	36.1
SR-3M-10M	3	10	2.4	12	12	12.9	15.3	31.8	38.4
SR-4M-6M	4	6	2.4	12	12	13.7	16.1	30.5	37.1
SR-6M-3M	6	3	1.8	14	14	15.3	17.7	29.5	36.9
SR-6M-8M	6	8	4.8	14	14	15.3	17.7	32.5	39.9
SR-6M-10M	6	10	4.8	14	14	15.3	17.7	33.3	40.7
SR-6M-12M	6	12	4.8	14	14	15.3	17.7	38.9	46.3
SR-8M-6M	8	6	4.6	15	16	16.2	18.6	32.8	40.3
SR-8M-10M	8	10	6.4	15	16	16.2	18.6	34.5	42.0
SR-8M-12M	8	12	6.4	15	16	16.2	18.6	40.1	47.6
SR-10M-6M	10	6	4.6	18	19	17.2	19.5	34.8	42.4
SR-10M-12M	10	12	7.9	18	19	17.2	19.5	42.2	49.8
SR-10M-15M	10	15	7.9	18	19	17.2	19.5	43.7	51.3
SR-10M-18M	10	18	7.9	19	19	17.2	19.5	43.7	51.3
SR-12M-6M	12	6	4.6	22	22	22.8	22.0	34.8	44.9
SR-12M-10M	12	10	7.7	22	22	22.8	22.0	36.6	46.7
SR-12M-16M	12	16	9.5	22	22	22.8	22.0	43.7	53.8
SR-12M-18M	12	18	9.5	22	22	22.8	22.0	43.7	53.8
SR-12M-20M	12	20	9.5	22	22	22.8	22.0	46.0	56.1
SR-12M-22M	12	22	9.5	24	22	22.8	22.0	46.0	56.1
SR-12M-25M	12	25	9.5	27	22	22.8	22.0	52.3	62.4
SR-16M-12M	16	12	9.1	24	25	24.4	22.0	42.9	53.0
SR-18M-12M	18	12	9.1	27	30	24.4	22.0	44.5	54.6
SR-18M-16M	18	16	12.7	27	30	24.4	22.0	46.0	56.1
SR-18M-20M	18	20	15.1	27	30	24.4	22.0	47.5	57.6
SR-18M-22M	18	22	15.1	27	30	24.4	22.0	47.5	57.6
SR-18M-25M	18	25	15.1	27	30	24.4	22.0	52.3	62.4
SR-20M-16M	20	16	12.7	30	32	26.0	22.0	47.8	57.9
SR-20M-18M	20	18	13.9	30	32	26.0	22.0	47.8	57.9
SR-20M-22M	20	22	15.8	30	32	26.0	22.0	49.3	59.4
SR-20M-25M	20	25	15.8	30	32	26.0	22.0	54.1	64.2
SR-22M-18M	22	18	13.9	30	32	26.0	22.0	47.8	57.9
SR-22M-20M	22	20	15.1	30	32	26.0	22.0	49.3	59.4
SR-22M-25M	22	25	18.3	30	32	26.0	22.0	54.1	64.2
SR-25M-18M	25	18	13.9	35	38	31.3	26.5	50.8	63.1
SR-25M-20M	25	20	15.1	35	38	31.3	26.5	52.3	64.6

Elbow Adapter

SLA





Connects fractional tube to frational S-LOK port

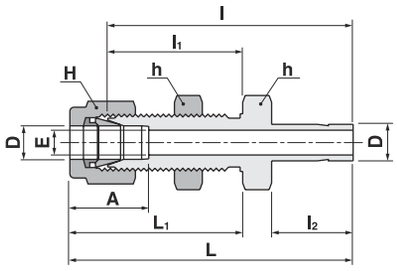
Part No.	Tube O.D D		E	Width across flat h		H		A	B	I	L	L_1
	in	mm	Min	in	mm	in	mm					
SLA-1	1/16	1.59	1.27	3/8	9.52	5/16	7.93	8.63	10.92	14.00	17.88	16.00
SLA-2	1/8	3.17	2.28	3/8	9.52	7/16	11.11	12.70	15.24	15.74	22.35	21.00
SLA-3	3/16	4.76	3.04	1/2	12.70	1/2	12.70	13.71	16.00	17.78	24.35	22.50
SLA-4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92	25.00
SLA-5	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70	27.10
SLA-6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48	28.80
SLA-8	1/2	12.70	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	37.30
SLA-10	5/8	15.87	12.70	15/16	23.81	1	25.40	24.38	21.84	28.70	38.80	41.80
SLA-12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	42.60
SLA-14	7/8	22.22	18.28	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70	49.40
SLA-16	12	25.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	54.00

Connects metric tube to metric S-LOK port

Part No.	Tube O.D	E	Width across flat		A	B	I	L	L_1
	D	Min	h	H					
SLA-2M	2	1.7	9.5	12	12.9	15.3	15.7	22.3	20.5
SLA-3M	3	2.4	9.5	12	12.9	15.3	15.7	22.3	20.5
SLA-4M	4	2.4	12.7	12	13.7	16.1	18.8	25.4	23.0
SLA-6M	6	4.8	12.7	14	15.3	17.7	19.6	27.0	25.1
SLA-8M	8	6.4	14.3	16	16.2	18.6	21.3	28.8	26.8
SLA-10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5	29.5
SLA-12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0	37.6
SLA-15M	15	11.9	23.8	25	24.4	22.0	28.7	38.8	42.6
SLA-16M	16	12.7	23.8	25	24.4	22.0	28.7	38.8	42.6
SLA-18M	18	15.1	27.0	30	24.4	22.0	29.7	39.8	42.6
SLA-20M	20	15.9	31.8	32	26.0	22.0	34.5	42.6	47.2
SLA-22M	22	18.3	31.8	32	26.0	22.0	34.5	42.6	47.2
SLA-25M	25	21.8	34.9	38	31.3	26.5	36.8	49.1	54.3
SLA-28M	28	21.8	41.0	46	36.6	36.6	43.2	64.0	65.0

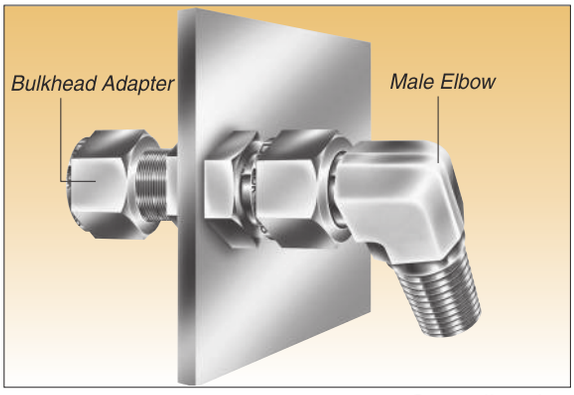
Bulkhead Adapter

SAB





The bulkhead adapter is useful for panel construction when you need to set a direction.



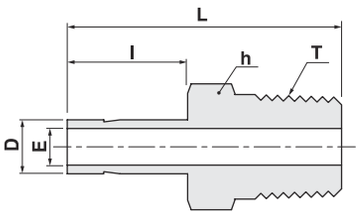
Set a direction

Connects fractional tube to frational S-LOK port

Part No.	Tube O.D				E	Width across flat				A	I	I_1	I_2	L	L_1	Panel Hole Drill Size	Panel Max. Thickness
	D		D_1			h		H									
	in	mm	in	mm	Min.	in	mm	in	mm								
SAB-2-2	1/8	3.17	1/8	3.17	2.03	1/2	12.70	7/16	11.11	12.70	42.92	24.63	13.45	49.53	31.24	8.33	12.70
SAB-4-4	1/4	6.35	1/4	6.35	4.82	5/8	15.87	9/16	14.28	15.24	48.51	26.16	15.74	55.88	33.52	11.50	10.16
SAB-6-6	3/8	9.52	3/8	9.52	7.11	3/4	19.05	11/16	17.46	16.76	53.84	29.46	17.50	61.21	36.83	14.68	11.17
SAB-8-8	1/2	12.70	1/2	12.70	10.41	15/16	23.81	7/8	22.22	22.86	62.73	31.75	23.11	72.89	41.91	19.44	12.70
SAB-10-10	5/8	15.87	5/8	15.87	12.70	1-1/16	26.98	1	25.40	24.38	65.02	32.51	24.70	75.18	42.67	22.62	12.70
SAB-16-16	1	25.40	1	25.40	20.32	1-5/8	41.28	1-1/2	38.10	31.24	88.13	45.21	31.70	100.33	57.40	33.73	19.05
SAB-20-20	1-1/4	31.75	1-1/4	31.75	27.68	1-7/8	47.63	1-7/8	47.63	41.14	102.07	47.75	42.00	124.17	69.85	41.67	19.05
SAB-24-24	1-1/2	38.10	1-1/2	38.10	34.03	2-1/4	57.15	2-1/4	57.15	50.03	118.33	49.27	51.50	145.51	76.45	49.61	19.05
SAB-32-32	2	50.80	2	50.80	45.97	2-3/4	69.85	3	76.20	57.56	148.79	56.38	68.40	185.82	93.71	57.94	19.05

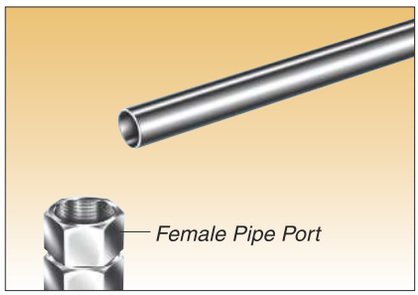
Male Adapter

SAM

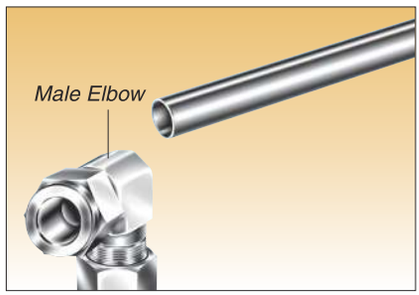




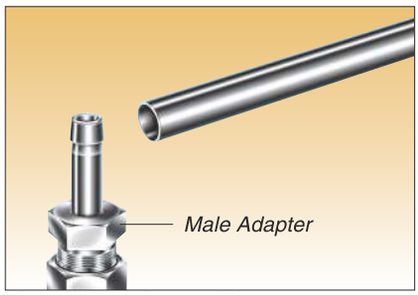
S-LOK Adapter eliminates alignment problems



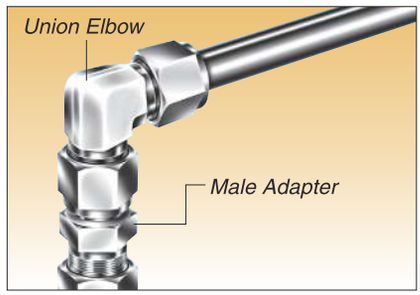
In the direction shown the female port is required to connect with tubing.



The male elbow is positioning in the wrong direction.



To eliminate the problem, use a male adapter into the female port.



Connect a union elbow to the adapter by tightening the S-LOK port with a wrench while holding the elbow wrench pad in the desired direction

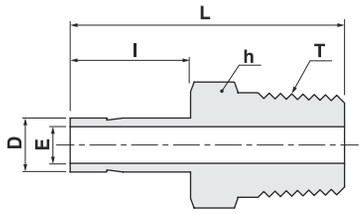
Connects metric tube to female ISO taper thread

These fittings may have a larger opening at the pipe / staight thread end.

Part No.	Tube O.D	T	E	Width across flat	l	L
	D	R(PT)	Min.	h		
SAM-3M-2R	3	1/8	1.9	12	13.15	29.4
SAM-6M-2R	6	1/8	4.1	12	15.75	32.8
SAM-6M-4R	6	1/4	4.1	14	15.75	38.1
SAM-8M-4R	8	1/4	5.6	14	16.50	39.1
SAM-10M-4R	10	1/4	7.1	14	17.50	39.9
SAM-10M-6R	10	3/8	7.1	17	17.50	40.6
SAM-10M-8R	10	1/2	7.1	22	17.50	46.2
SAM-12M-4R	12	1/4	8.8	14	23.50	46.5
SAM-12M-6R	12	3/8	8.8	17	23.50	46.5
SAM-12M-8R	12	1/2	8.8	22	23.50	51.8
SAM-18M-8R	18	1/2	13.9	22	24.90	53.2
SAM-18M-12R	18	3/4	13.9	27	24.90	53.2
SAM-28M-16R	28	1	22.5	35	31.70	74.7
SAM-28M-20R	28	1-1/4	22.5	46	31.70	76.2
SAM-32M-20R	32	1-1/4	26.5	46	40.00	81.0
SAM-32M-24R	32	1-1/2	31.6	55	51.50	92.2

Male Adapter

SAM



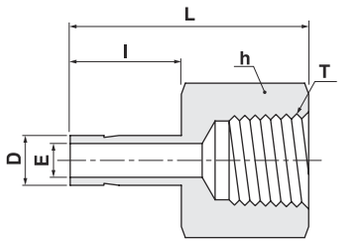


Connects fractional tube to female NPT thread

Part No.	Tube O.D D		T	E	Width across flat h		l	L
	in	mm	N(NPT)	Min.	in	mm		
SAM-2-2N	1/8	3.17	1/8	2.03	7/16	11.11	13.45	29.50
SAM-2-4N	1/8	3.17	1/4	2.03	9/16	14.28	13.45	34.80
SAM-3-2N	3/16	4.76	1/8	3.04	7/16	11.11	14.20	30.22
SAM-3-4N	3/16	4.76	1/4	3.04	9/16	14.28	14.20	35.56
SAM-4-2N	1/4	6.35	1/8	4.31	7/16	11.11	15.75	31.60
SAM-4-4N	1/4	6.35	1/4	4.31	9/16	14.28	15.75	37.08
SAM-4-6N	1/4	6.35	3/8	4.31	11/16	17.46	15.75	37.84
SAM-4-8N	1/4	6.35	1/2	4.31	7/8	22.22	15.75	43.43
SAM-5-2N	5/16	7.93	1/8	5.58	7/16	11.11	16.80	32.76
SAM-5-4N	5/16	7.93	1/4	5.58	9/16	14.28	16.80	38.10
SAM-6-2N	3/8	9.52	1/4	6.86	7/16	11.11	17.50	33.50
SAM-6-4N	3/8	9.52	1/4	6.86	9/16	14.28	17.50	38.90
SAM-6-6N	3/8	9.52	3/8	6.86	11/16	17.46	17.50	39.60
SAM-6-8N	3/8	9.52	1/2	6.86	7/8	22.22	17.50	45.20
SAM-8-4N	1/2	12.70	1/4	9.40	9/16	14.28	23.20	44.50
SAM-8-6N	1/2	12.70	3/8	9.40	11/16	17.46	23.20	45.20
SAM-8-8N	1/2	12.70	1/2	9.40	7/8	22.22	23.20	50.50
SAM-10-6N	5/8	15.87	3/8	11.90	11/16	17.46	24.70	47.40
SAM-10-8N	5/8	15.87	1/2	11.90	7/8	22.22	24.70	52.30
SAM-10-12N	5/8	15.87	3/4	11.90	1-1/16	26.98	24.70	52.30
SAM-12-8N	3/4	19.05	1/2	14.73	7/8	22.22	24.70	52.30
SAM-12-12N	3/4	19.05	3/4	14.73	1-1/16	26.98	24.70	52.30
SAM-12-16N	3/4	19.05	1	14.73	1-3/8	34.92	24.70	57.91
SAM-14-12N	7/8	22.22	3/4	17.27	1-1/16	26.98	26.70	54.30
SAM-16-12N	1	25.40	3/4	20.32	1-1/16	26.98	31.70	58.70
SAM-16-16N	1	25.40	1	20.32	1-3/8	34.92	31.70	66.00
SAM-20-20N	1-1/4	31.75	1-1/4	25.90	1-3/4	44.45	42.00	80.26
SAM-24-24N	1-1/2	38.10	1-1/2	31.75	2-1/8	53.98	51.50	94.48
SAM-32-32N	2	50.80	2	43.68	2-3/4	69.85	68.40	119.38

Female Adaper

SAF





Connects fractional tube to male NPT thread

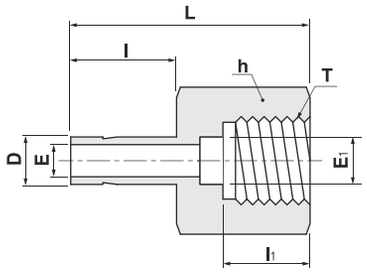
Part No.	Tube O.D D		T	E	Width across flat h		l	L
	in	mm	N(NPT)	Min.	in	mm		
SAF-2-2N	1/8	3.17	1/8	2.03	9/16	14.28	13.45	31.50
SAF-2-4N	1/8	3.17	1/4	2.03	3/4	19.05	13.45	35.30
SAF-3-2N	3/16	4.76	1/8	3.04	9/16	14.28	14.20	32.00
SAF-3-4N	3/16	4.76	1/4	3.04	3/4	19.05	14.20	35.81
SAF-4-2N	1/4	6.35	1/8	4.31	9/16	14.28	15.75	33.02
SAF-4-4N	1/4	6.35	1/4	4.31	3/4	19.05	15.75	37.10
SAF-4-6N	1/4	6.35	3/8	4.31	7/8	22.22	15.75	39.37
SAF-4-8N	1/4	6.35	1/2	4.31	1-1/16	26.98	15.75	45.50
SAF-5-2N	5/16	7.93	1/8	5.58	9/16	14.28	16.80	34.29
SAF-5-4N	5/16	7.93	1/4	5.58	3/4	19.05	16.80	37.59
SAF-6-2N	3/8	9.52	1/4	6.86	9/16	14.28	17.50	34.29
SAF-6-4N	3/8	9.52	1/4	6.86	3/4	19.05	17.50	38.10
SAF-6-6N	3/8	9.52	3/8	6.86	7/8	22.22	17.50	40.38
SAF-6-8N	3/8	9.52	1/2	6.86	1-1/16	26.98	17.50	46.73
SAF-8-4N	1/2	12.70	1/4	9.40	3/4	19.05	23.20	43.43
SAF-8-6N	1/2	12.70	3/8	9.40	7/8	22.22	23.20	45.46
SAF-8-8N	1/2	12.70	1/2	9.40	1-1/16	26.98	23.20	51.80
SAF-10-6N	5/8	15.87	3/8	11.90	7/8	22.22	24.70	48.26
SAF-10-8N	5/8	15.87	1/2	11.90	1-1/16	26.98	24.70	53.84
SAF-10-12N	5/8	15.87	3/4	11.90	1-5/16	33.33	24.70	55.37
SAF-12-8N	3/4	19.05	1/2	14.73	1-1/16	26.98	24.70	52.83
SAF-12-12N	3/4	19.05	3/4	14.73	1-5/16	33.33	24.70	54.86
SAF-12-16N	3/4	19.05	1	14.73	1-5/8	41.27	24.70	58.42
SAF-14-12N	7/8	22.22	3/4	17.27	1-5/16	33.33	26.70	57.15
SAF-16-12N	1	25.40	3/4	20.32	1-5/16	33.33	31.70	60.70
SAF-16-16N	1	25.40	1	20.32	1-5/8	41.27	31.70	64.26
SAF-20-20N	1-1/4	31.75	1-1/4	25.90	2-1/8	53.98	42.00	77.72
SAF-24-24N	1-1/2	38.10	1-1/2	31.75	2-3/8	60.33	51.50	88.90
SAF-32-32N	2	50.80	2	43.68	2-7/8	73.03	68.40	107.44

Connects metric tube to male ISO taper thread

Part No.	Tube O.D	T	E	Width across flat	l	L
	D	R(PT)	Min.	h		
SAF-3M-2R	3	1/8	1.9	14	13.15	31.15
SAF-6M-2R	6	1/8	4.1	14	15.75	32.50
SAF-6M-4R	6	1/4	4.1	19	15.75	37.10
SAF-8M-4R	8	1/4	5.6	19	16.50	37.60
SAF-10M-4R	10	1/4	7.1	19	17.50	38.10
SAF-10M-6R	10	3/8	7.1	22	17.50	40.10
SAF-10M-8R	10	1/2	7.1	27	17.50	46.50
SAF-12M-4R	12	1/4	8.8	19	23.50	43.70
SAF-12M-6R	12	3/8	8.8	22	23.50	46.00
SAF-12M-8R	12	1/2	8.8	27	23.50	52.30
SAF-18M-12R	18	3/4	13.9	35	24.90	54.80

Gauge Adapter

SAG





Connects fractional tube to male ISO parallel thread

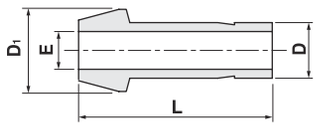
Part No.	Tube O.D D		T	E	E_1	Width across flat h		l	l_1	L
	in	mm	G(PF)	Min.		in	mm			
SAF-4-2G	1/4	6.35	1/8	4.31	4.57	9/16	14.28	15.75	12.0	32.00
SAF-4-4G	1/4	6.35	1/4	4.31	5.50	3/4	19.05	15.75	12.9	35.30
SAF-6-6G	3/8	9.52	3/8	6.50	6.50	7/8	22.22	17.50	16.0	39.37
SAF-8-8G	1/2	12.70	1/2	9.40	7.00	1-1/16	26.98	23.20	18.9	45.72

Connects metric tube to male ISO parallel thread

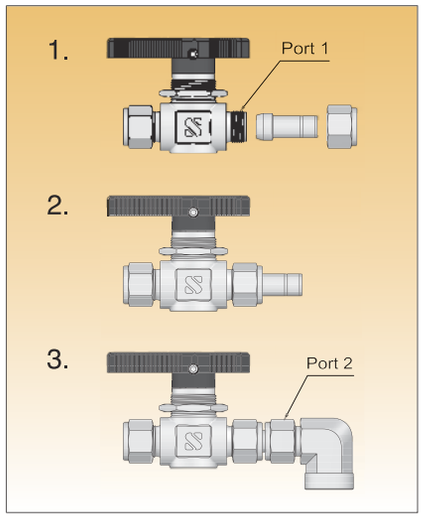
Part No.	Tube O.D	T	E	E_1	Width across flat	l	l_1	L
	D	G(PF)	Min.		h			
SAG-6M-2G	6	1/8	4.1	4.0	14	15.75	12.0	32.0
SAG-6M-4G	6	1/4	4.1	5.5	19	15.75	13.0	35.3
SAG-6M-6G	6	3/8	4.1	6.5	24	15.75	14.2	38.4
SAG-6M-8G	6	1/2	4.1	7.0	27	15.75	18.9	42.9
SAG-8M-4G	8	1/4	5.6	5.5	19	16.5	13.0	33.0
SAG-8M-6G	8	3/8	5.6	6.5	24	16.5	14.2	38.9
SAG-8M-8G	8	1/2	5.6	7.0	27	16.5	18.9	43.7
SAG-10M-4G	10	1/4	7.1	5.5	19	17.5	13.0	34.5
SAG-10M-6G	10	3/8	7.1	6.5	24	17.5	14.2	36.1
SAG-10M-8G	10	1/2	7.1	7.0	27	17.5	18.9	40.1
SAG-12M-4G	12	1/4	8.8	5.5	19	23.5	13.0	40.1
SAG-12M-6G	12	3/8	8.8	6.5	24	23.5	14.2	44.7
SAG-12M-8G	12	1/2	8.8	7.0	27	23.5	18.9	48.8
SAG-15M-8G	15	1/2	12.7	7.0	27	24.65	18.9	49.0
SAG-16M-8G	16	1/2	12.7	7.0	27	24.6	18.9	49.0
SAG-18M-8G	18	1/2	13.9	7.0	27	24.9	18.9	49.3
SAG-22M-8G	22	1/2	18.3	7.0	27	26.6	18.9	52.0
SAG-25M-8G	25	1/2	19.8	7.0	30	31.7	18.9	56.1

Port Connector

SCP







S-LOK port connector facilitates close connection to another port.

Installation Instructions

1. Remove the nut and ferrules from port 1 and set nut only(no ferrules) over the port connector
2. With a wrench, 1/4" turn from the finger-tight position. (1/8 turn for 1/8", 3/16" and 2mm, 3mm and 4mm)
3. Insert the other end of port connector into port 2 and tighten nut 1-1/4 turns with wrench. for 1/8", 3mm only 3/4 turn from finger tight.

Connects two fractional S-LOK ports

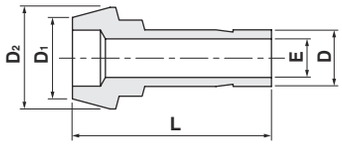
Part No.	Tube O.D D		E	D_1	L
	in	mm	Min		
SCP-1	1/16	1.59	1.00	3.30	13.72
SCP-2	1/8	3.17	2.03	6.09	22.35
SCP-4	1/4	6.35	4.31	9.39	24.64
SCP-5	5/16	7.93	5.58	10.92	25.90
SCP-6	3/8	9.52	6.86	12.70	26.16
SCP-8	1/2	12.70	9.40	15.74	35.81
SCP-12	3/4	19.05	14.73	22.09	37.33
SCP-16	1	25.40	20.32	28.44	48.00

Connects two metric S-LOK ports

Part No.	Tube O.D D	E Min	D_1	L
SCP-3M	3	1.9	6.0	22.2
SCP-4M	4	2.2	7.0	25.8
SCP-6M	6	4.1	9.0	24.6
SCP-8M	8	5.6	11.0	27.2
SCP-10M	10	7.1	13.1	26.1
SCP-12M	12	8.8	15.0	35.8
SCP-15M	15	11.2	19.0	37.4
SCP-16M	16	12.0	19.0	37.4
SCP-18M	18	13.9	21.0	37.4
SCP-20M	20	15.5	23.0	38.9
SCP-22M	22	17.9	25.0	39.2
SCP-25M	25	19.9	28.0	48.0
SCP-28M	28	22.5	34.3	63.5
SCP-32M	32	26.5	39.5	69.7
SCP-38M	38	31.6	47.1	81.9

Reducing
Port Connector

SCRP





Connects two fractional S-LOK ports

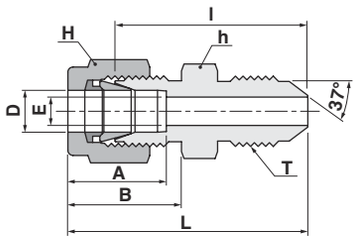
Part No.	Tube O.D				E	D_2	L
	D_1		D				
	in	mm	in	mm	Min		
SCRP-2-1	1/8	3.17	1/16	1.59	1.00	6.10	17.27
SCRP-4-2	1/4	6.35	1/8	3.17	2.00	9.39	22.60
SCRP-6-2	3/8	9.52	1/8	3.17	2.00	12.70	23.11
SCRP-6-4	3/8	9.52	1/4	6.35	4.31	12.70	24.89
SCRP-8-4	1/2	12.70	1/4	6.35	4.31	15.74	29.21
SCRP-8-6	1/2	12.70	3/8	9.52	6.86	15.74	30.48
SCRP-12-8	3/4	19.05	1/2	12.70	9.40	22.09	37.85
SCRP-16-8	1	25.40	1/2	12.70	9.40	28.40	42.67
SCRP-16-12	1	25.40	3/4	19.05	14.73	28.40	43.43

Connects two metric S-LOK ports

Part No.	Tube O.D		E	D_2	L
	D_1	D			
SCRP-6M-3M	6	3	1.9	9.0	22.6
SCRP-8M-6M	8	6	4.1	11.0	24.7
SCRP-10M-6M	10	6	4.1	13.1	25.0
SCRP-10M-8M	10	8	5.6	13.1	26.0
SCRP-12M-6M	12	6	4.1	15.0	29.1
SCRP-12M-8M	12	8	5.6	15.0	29.8
SCRP-12M-10M	12	10	7.1	15.0	30.4
SCRP-16M-6M	16	6	4.1	19.0	30.4
SCRP-16M-12M	16	12	8.8	19.0	36.2
SCRP-28M-25M	28	25	19.8	34.3	56.5
SCRP-32M-25M	32	25	19.8	39.5	60.3
SCRP-38M-25M	38	25	19.8	47.1	65.8

AN Union

SUA



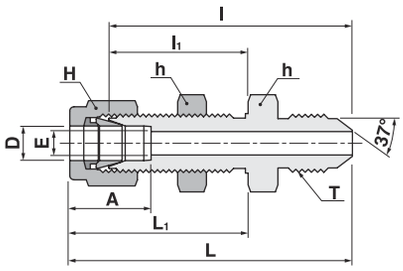


Connects fractional tube to AN flared tube

Part No.	Tube O.D D		AN Tube Flare Size		Straight Thread	E	Width across flat h		H		A	B	I	L
	in	mm	in	mm	T	Min.	in	mm	in	mm				
SUA-1-2	1/16	1.59	1/8	3.17	5/16-24	1.27	7/16	11.11	5/16	7.93	8.63	10.92	23.36	27.17
SUA-2-2	1/8	3.17	1/8	3.17	5/16-24	1.52	7/16	11.11	7/16	11.11	12.70	15.24	24.89	31.49
SUA-2-4	1/8	3.17	1/4	6.35	7/16-20	2.28	1/2	12.70	7/16	11.11	12.70	15.24	28.44	35.05
SUA-4-4	1/4	6.35	1/4	6.35	7/16-20	4.31	1/2	12.70	9/16	14.28	15.24	17.78	30.22	37.59
SUA-5-5	5/16	7.93	5/16	7.93	1/2-20	5.84	9/16	14.28	5/8	15.87	16.25	18.54	30.98	38.35
SUA-6-4	3/8	9.52	1/4	6.35	7/16-20	4.31	5/8	15.87	11/16	17.46	16.76	19.30	32.25	39.62
SUA-6-6	3/8	9.52	3/8	9.52	9/16-18	7.11	5/8	15.87	11/16	17.46	16.76	19.30	32.25	39.62
SUA-8-8	1/2	12.70	1/2	12.70	3/4-16	9.90	13/16	20.64	7/8	22.22	22.86	21.84	35.81	45.97
SUA-12-12	3/4	19.05	3/4	19.05	1-1/16-12	15.49	1-1/8	28.58	1-1/8	28.58	24.38	21.84	43.18	53.34
SUA-16-16	1	25.40	1	25.40	1-5/16-12	21.33	1-3/8	34.92	1-1/2	38.10	31.24	26.41	49.27	61.46
SUA-20-20	1-1/4	31.75	1-1/4	31.75	1-5/8-12	27.68	1-3/4	44.45	1-7/8	47.63	41.14	38.86	55.46	77.56
SUA-24-24	1-1/2	38.10	1-1/2	38.10	1-7/8-12	34.03	2-1/8	53.98	2-1/4	57.15	50.03	45.21	63.07	90.25
SUA-32-32	2	50.80	2	50.80	2-1/2-12	45.97	2-3/4	69.85	3	76.20	67.56	62.73	83.24	120.57

AN Bulkhead Union

SUBA



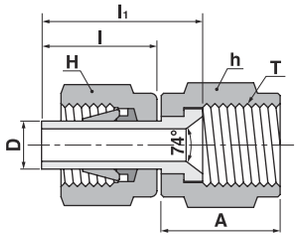


Connects fractional tube to AN flared tube

Part No.	Tube O.D D		AN Tube Flare Size		Straight Thread	E	Width across flat h		Width across flat H		A	l	l_1	L	L_1	Panel Hole Drill Size	Panel Max. Thickness
	in	mm	in	mm	T	Min.	in	mm	in	mm							
SUBA-2-2	1/8	3.17	1/8	3.17	5/16-24	1.52	1/2	12.70	7/16	11.11	12.70	40.85	24.63	47.45	31.23	8.33	12.70
SUBA-4-4	1/4	6.35	1/4	6.35	7/16-20	4.31	5/8	15.87	9/16	14.28	15.24	46.48	26.16	53.84	33.52	11.50	10.16
SUBA-6-6	3/8	9.52	3/8	9.52	9/16-18	7.11	3/4	19.05	11/16	17.46	16.76	49.78	29.46	57.15	36.83	14.68	11.17
SUBA-8-8	1/2	12.70	1/2	12.70	3/4-16	9.90	5/16	23.81	7/8	22.22	22.86	55.62	31.75	65.78	41.91	19.44	12.70
SUBA-12-12	3/4	19.05	3/4	19.05	1-1/16-12	15.49	1-3/16	30.16	1-1/8	28.58	24.38	68.83	37.33	78.99	47.49	25.79	16.76
SUBA-16-16	1	25.40	1	25.40	1-5/16-12	21.33	1-5/8	41.27	1-1/2	38.10	31.24	80.26	45.21	92.45	57.40	33.73	19.05
SUBA-20-20	1-1/4	31.75	1-1/4	31.75	1-5/8-12	27.68	1-7/8	47.36	1-7/8	47.63	41.14	86.37	47.75	108.47	69.85	41.67	19.05
SUBA-24-24	1-1/2	38.10	1-1/2	38.10	1-7/8-12	34.03	2-1/4	57.15	2-1/4	57.15	50.03	94.33	49.27	121.51	76.45	49.61	19.05
SUBA-32-32	2	50.80	2	50.80	2-1/2-12	45.97	2-3/4	69.85	3	76.20	67.56	114.29	56.38	151.62	93.71	16.27	19.05

AN Adapter

SAA





Connects fractional S-LOK port to male AN

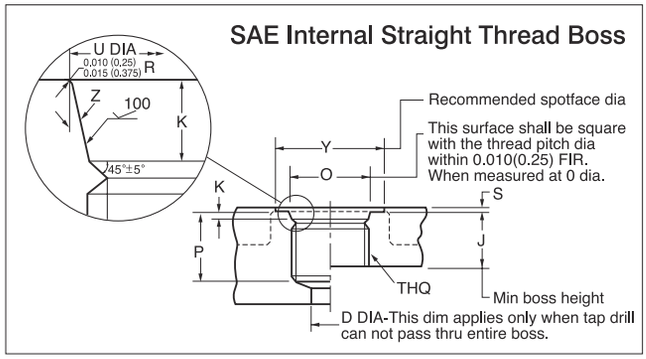
Part No.	Tube O.D D		AN Tube Flare Size		Straight Thread	Width across flat h		Width across flat H		A	l	l_1
	in	mm	in	mm	T	in	mm	in	mm			
SAA-2-2	1/8	3.17	1/8	3.17	5/16-24	3/8	9.52	7/16	11.11	13.71	13.46	18.54
SAA-2-4	1/8	3.17	1/4	6.35	7/16-20	9/16	14.28	7/16	11.11	15.74	13.46	19.05
SAA-4-4	1/4	6.35	1/4	6.35	7/16-20	9/16	14.28	9/16	14.28	15.74	15.74	21.33
SAA-6-6	3/8	9.52	3/8	9.52	9/16-18	11/16	17.46	11/16	17.46	18.28	17.52	24.89
SAA-8-8	1/2	12.70	1/2	12.70	3/4-16	7/8	22.22	7/8	22.22	21.59	23.11	31.75

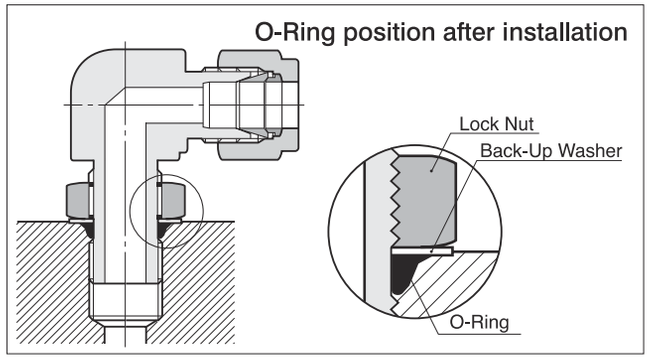
SAE Fittings

S-LOK SAE straight O-Ring seal fittings are of positionable feature and provide connection tube to straight thread boss. Further this has an advantage of eliminating welding and brazing process when used as bulkhead fitting on thin wall tanks or vessels.

These fittings are designed and manufactured to SAE stnadards as below:

Male or external fitting end dimensions to SAE J514
Straight thread to SAE J475(equivalent to ANSI B1,1 or ISO R725)
Female or internal straight thread boss to SAEJ1926.See diagram below.





Details of SAE Internal Straight Thread Boss

Nominal Tube O.D	Thread Size	D	J	K	O	P[d]	U[a]	Y[c]	S[bc]	Z
		Min.	Min.	(±0.2)	Min.	Min.	( )		Max	(±1°)
1/8	5/16-24	1.6	10.0	1.9	11.0	12.0	9.1	17.0	1.6	12°
3/16	3/8-24	3.2	10.0	1.9	13.0	12.0	10.7	19.0	1.6	12°
1/4	7/16-20	4.4	11.5	2.4	15.0	14.0	12.4	21.0	1.6	12°
5/16	1/2-20	6.0	11.5	2.4	16.0	14.0	14.0	23.0	1.6	12°
3/8	9/16-18	7.5	12.7	2.5	18.0	15.5	15.6	25.0	1.6	12°
1/2	3/4-16	10.0	14.3	2.5	22.0	17.5	20.6	30.0	2.4	15°
5/8	7/8-14	12.5	16.7	2.5	26.0	20.0	23.9	34.0	2.4	15°
3/4	1-1/16-12	16.0	19.0	3.2	32.0	23.0	29.2	41.0	2.4	15°
7/8	1-3/16-12	18.0	19.0	3.2	35.0	23.0	32.3	45.0	2.4	15°
1	1-5/16-12	21.0	19.0	3.2	38.0	23.0	35.5	49.0	3.2	15°
1-1/4	1-5/8-12	27.0	19.0	3.2	48.0	23.0	43.5	58.0	3.2	15°
1-1/2	1-7/8-12	33.0	19.0	3.2	54.0	23.0	49.8	65.0	3.2	15°
2	2-1/2-12	70.0	19.0	3.2	70.0	23.0	65.7	88.0	3.2	15°

a. Diameter U shall be concentric with the thread pitch diameter within 0.13 full indicator reading(FIR) and shall be free from longitudinal and spiral tool marks. Annular tool marks up to 2.5 micro meters max. shall be permissble.
b. This is the maximum recommended spotface depth to permit sufficient wrench grip for the proper tightening of the fitting or locknut.
c. If the face of the boss is on a machined surface, dimensions Y and S need not apply as long as R 0.25/ 0.375 is maintained to avoid damage to the O-Ring during installation.
d. Tap drill depths given require the use of bottoming taps to produce the specified full thread lengths. Where standard taps are used, the tap drill depths must be increased accordingly.

O-ring and straight thread size for SAE fitting bosses

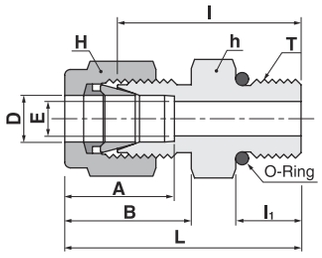
Nominal Tube O.D	Port Size	Thread Size	O-ring		
			Size No.	I.D in	Cross Section in
1/8	2	5/16-24	902	0.239	0.064
3/16	3	3/8-24	903	0.301	0.064
1/4	4	7/16-20	904	0.351	0.072
5/16	5	1/2-20	905	0.414	0.072
3/8	6	9/16-18	906	0.468	0.078
1/2	8	3/4-16	908	0.644	0.087
5/8	10	7/8-14	910	0.755	0.097
3/4	12	1-1/16-12	912	0.924	0.116
7/8	14	1-3/16-12	914	1.048	0.116
1	16	1-5/16-12	916	1.171	0.116
1-1/4	20	1-5/8-12	920	1.475	0.118
1-1/2	24	1-7/8-12	924	1.720	0.118
2	32	2-1/2-12	932	2.337	0.118

Installation Instruction

Step 1. Ensure the locknut is fully raisesd.
Step 2. Lubricate the O-Ring with a light oil or petroleum and turn the fitting into the straight thread boss until the metal washer is in contact with the boss.
Step 3. Position the fitting by backing it out(not more than 1turn counter-clockwise)until the S-LOK fitting is oriented in the desired direction.
Step 4. With a back up wrech, hold the wrech pad and tighten the locknut until the washer is set against the face of the boss.

SAE Male Connector

SMCS





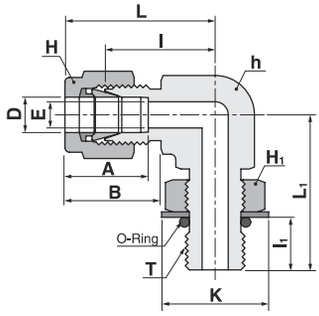
Connects fractional tube to SAE straight thread boss

These fittings may have a larger opening at the pipe / staight thread end.

Part No.	Tube O.D D		Straight Thread	E	Width across flat h		H		A	B	I	l_1	L	O-Ring Unifom Size No.
	in	mm	T	Min.	in	mm	in	mm						
SMCS-2-2U	1/8	3.17	5/16-24	2.28	7/16	11.11	7/16	11.11	12.70	15.24	23.26	7.62	29.97	-902
SMCS-4-4U	1/4	6.35	7/16-20	4.82	9/16	14.28	9/16	14.28	15.24	17.78	26.67	9.14	34.03	-904
SMCS-4-6U	1/4	6.35	9/16-18	4.82	11/16	17.46	9/16	14.28	15.24	17.78	28.19	9.90	35.56	-906
SMCS-4-8U	1/4	6.35	3/4-16	4.82	7/8	22.22	9/16	14.28	15.24	17.78	30.22	11.17	37.59	-908
SMCS-4-10U	1/4	6.35	7/8-14	4.82	1	25.40	9/16	14.28	15.24	17.78	33.27	12.70	40.64	-910
SMCS-5-5U	5/16	7.93	1/2-20	5.84	5/8	15.87	5/8	15.87	16.25	18.54	27.43	9.14	34.79	-905
SMCS-6-4U	3/8	9.52	7/16-20	5.08	5/8	15.87	11/16	17.46	16.76	19.30	28.19	9.14	35.56	-904
SMCS-6-6U	3/8	9.52	9/16-18	7.11	11/16	17.46	11/16	17.46	16.76	19.30	29.71	9.90	37.08	-906
SMCS-6-8U	3/8	9.52	3/4-16	7.11	7/8	22.22	11/16	17.46	16.76	19.30	31.75	11.17	39.11	-908
SMCS-6-10U	3/8	9.52	7/8-14	7.11	1	25.40	11/16	17.46	16.76	19.30	34.79	12.70	42.16	-910
SMCS-8-6U	1/2	12.70	9/16-18	7.11	13/16	20.64	7/8	22.22	22.86	21.84	28.95	9.90	39.11	-906
SMCS-8-8U	1/2	12.70	3/4-16	10.41	7/8	22.22	7/8	22.22	22.86	21.84	31.75	11.17	41.91	-908
SMCS-8-10U	1/2	12.70	7/8-14	10.41	1	25.40	7/8	22.22	22.86	21.84	34.79	12.70	44.95	-910
SMCS-8-12U	1/2	12.70	1-1/16-12	10.41	1-1/4	31.75	7/8	22.22	22.86	21.84	38.86	14.98	49.02	-912
SMCS-10-8U	5/8	15.87	3/4-16	10.66	15/16	23.81	1	25.40	24.38	21.84	31.75	11.17	41.91	-908
SMCS-10-10U	5/8	15.87	7/8-14	12.70	1	25.40	1	25.40	24.38	21.84	35.05	12.70	45.21	-910
SMCS-12-8U	3/4	19.05	3/4-16	10.66	1-1/16	26.98	1-1/8	28.58	24.38	21.84	35.81	11.17	45.97	-908
SMCS-12-12U	3/4	19.05	1-1/16-12	15.74	1-1/4	31.75	1-1/8	28.58	24.38	21.84	38.86	14.98	49.02	-912
SMCS-14-14U	7/8	22.22	1-3/16-12	18.28	1-3/8	34.92	1-1/4	31.75	25.90	21.84	38.86	14.98	49.02	-914
SMCS-16-12U	1	25.40	1-1/16-12	16.76	1-3/8	34.92	1-1/2	38.10	31.24	26.41	41.14	14.98	53.34	-912
SMCS-16-16U	1	25.40	1-5/16-12	22.35	1-1/2	38.10	1-1/2	38.10	31.24	26.41	42.16	14.98	54.35	-916
SMCS-20-20U	1-1/4	31.75	1-5/8-12	27.68	1-7/8	47.63	1-7/8	47.63	41.14	38.86	46.22	14.98	68.32	-920
SMCS-24-24U	1-1/2	38.10	1-7/8-12	34.03	2-1/8	53.98	2-1/4	57.15	50.03	45.21	50.54	14.98	77.72	-924
SMCS-32-32U	2	50.80	2-1/2-12	45.97	2-3/4	69.85	3	76.20	67.56	62.73	64.26	14.98	101.60	-932

Positiopnable
SAE Male Elbow

SLS



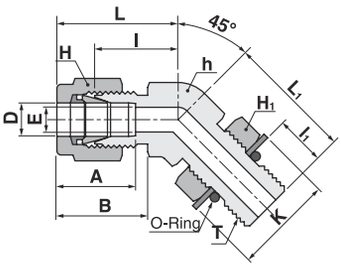


Connects fractional tube to SAE straight thread boss
These fittings may have a larger opening at the pipe / staight thread end.

Part No.	Tube O.D D		Straight Thread	E	Width across flat h		H		H_1		A	B	l	l_1	L	L_1	K	O-Ring Uniform Size No.
	in	mm	T	Min.	in	mm	in	mm	in	mm								
SLS-4-4U	1/4	6.35	7/16-20	4.82	1/2	12.00	9/16	14.28	9/16	14.28	15.24	17.78	21.08	9.90	28.44	28.44	16.51	-904
SLS-5-5U	5/16	7.93	1/2-20	5.84	9/16	14.28	5/8	15.87	5/8	15.87	16.25	18.54	22.86	9.90	30.22	29.46	18.28	-905
SLS-6-6U	3/8	9.52	9/16-18	7.11	5/8	15.87	11/16	17.46	11/16	17.46	16.76	19.30	24.63	11.17	32.00	32.25	20.06	-906
SLS-6-8U	3/8	9.52	3/4-16	7.11	13/16	20.64	11/16	17.46	7/8	22.22	16.76	19.30	27.43	12.70	34.79	37.84	25.65	-908
SLS-8-8U	1/2	12.70	3/4-16	10.41	13/16	20.64	7/8	22.22	7/8	22.22	22.86	21.84	27.43	12.70	37.59	37.84	25.65	-908
SLS-10-10U	5/8	15.87	7/8-14	12.70	1	25.40	1	25.40	1	25.40	24.38	21.84	29.46	14.22	39.62	43.43	29.46	-910
SLS-12-12U	3/4	19.05	1-1/16-12	15.74	1-1/16	26.98	1-1/8	28.58	1-1/4	31.75	24.38	21.84	31.24	16.76	41.40	48.76	36.57	-912
SLS-14-14U	7/8	22.22	1-3/16-12	18.28	1-1/4	31.75	1-1/4	31.75	1-3/8	34.92	25.90	21.84	33.02	16.76	43.18	50.54	40.38	-914
SLS-16-16U	1	25.40	1-5/16-12	22.35	1-3/8	34.92	1-1/2	38.10	1-1/2	38.10	31.24	26.41	38.35	16.76	50.54	53.59	43.94	-916
SLS-20-20U	1-1/4	31.75	1-5/8-12	27.68	1-11/16	42.76	1-7/8	47.63	1-7/8	47.63	41.14	38.86	45.72	16.76	67.81	58.16	54.86	-920
SLS-24-24U	1-1/2	38.10	1-7/8-12	34.03	2	50.80	2-1/4	57.15	2-1/8	53.98	50.03	45.21	50.80	16.76	77.97	60.45	62.23	-924
SLS-32-32U	2	50.80	2-1/2-12	45.97	2-3/4	69.85	3	76.20	2-3/4	69.85	67.56	62.73	69.85	16.76	107.18	71.62	80.26	-932

Positiopnable
45° SAE Male Elbow

SLBS



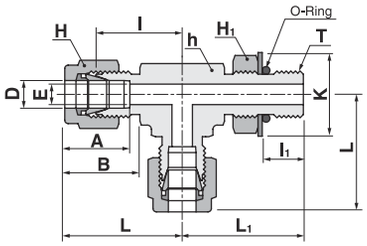


Connects fractional tube to SAE straight thread boss
These fittings may have a larger opening at the pipe / staight thread end.

Part No.	Tube O.D D		Straight Thread	E	Width across flat h		H		H_1		A	B	l	l_1	L	L_1	K	O-Ring Uniform Size No.
	in	mm	T	Min.	in	mm	in	mm	in	mm								
SLBS-4-4U	1/4	6.35	7/16-20	4.82	1/2	12.70	9/16	14.28	9/16	14.28	15.24	17.78	21.08	9.90	28.44	28.44	16.51	-904
SLBS-6-6U	3/8	9.52	9/16-18	7.11	5/8	15.87	11/16	17.46	11/16	17.46	16.76	19.30	24.63	11.17	32.00	32.25	20.06	-906
SLBS-8-8U	1/2	12.70	3/4-16	10.41	13/16	20.64	7/8	22.22	7/8	22.22	22.86	21.84	27.43	12.70	37.59	37.84	25.65	-908
SLBS-12-12U	3/4	19.05	1-1/16-12	15.74	1-1/16	26.98	1-1/8	28.58	1-1/4	31.75	24.38	21.84	31.24	16.76	41.40	48.76	36.57	-912
SLBS-16-16U	1	25.40	1-5/16-12	22.35	1-3/8	34.92	1-1/2	38.10	1-1/2	38.10	31.24	26.41	38.35	16.76	50.54	53.59	43.94	-916

Positiopnable
SAE Male Run Tee

STRS



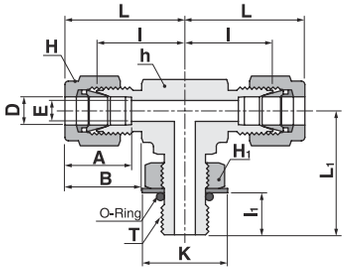


Connects fractional tube to SAE straight thread boss
These fittings may have a larger opening at the pipe / staight thread end.

Part No.	Tube O.D D		Straight Thread	E	Width across flat h		H		H_1		A	B	I	I_1	L	L_1	K	O-Ring Unifom Size No.
	in	mm	T	Min.	in	mm	in	mm	in	mm								
STRS-4-4U	1/4	6.35	7/16-20	4.82	1/2	12.70	9/16	14.28	9/16	14.28	15.24	17.78	21.08	9.90	28.44	28.44	16.51	-904
STRS-6-6U	3/8	9.52	9/16-18	7.11	5/8	15.87	11/16	17.46	11/16	17.46	16.76	19.30	24.63	11.17	32.00	32.25	20.06	-906
STRS-8-8U	1/2	12.70	3/4-16	10.41	13/16	20.64	7/8	22.22	7/8	22.22	22.86	21.84	27.43	12.70	37.59	37.84	25.65	-908
STRS-12-12U	3/4	19.05	1-1/16-12	15.74	1-1/16	26.98	1-1/8	28.58	1-1/4	31.75	24.38	21.84	31.24	16.76	41.40	48.76	36.57	-912
STRS-16-16U	1	25.40	1-5/16-12	22.35	1-3/8	34.92	1-1/2	38.10	1-1/2	38.10	31.24	26.41	38.35	16.76	50.54	53.59	43.94	-916
STRS-20-20U	1-1/4	31.75	1-5/8-12	27.68	1-11/16	42.76	1-7/8	47.63	1-7/8	47.63	41.14	38.86	45.72	16.76	67.81	58.16	54.86	-920
STRS-24-24U	1-1/2	38.10	1-7/8-12	34.03	2	50.80	2-1/4	57.15	2-1/8	53.98	50.03	45.21	50.80	16.76	77.97	60.45	62.23	-924
STRS-32-32U	2	50.80	2-1/2-12	45.97	2-3/4	69.85	3	76.20	2-3/4	69.85	67.56	62.73	69.85	16.76	107.18	71.62	80.26	-932

Positionable
SAE Male Branch Tee

STBS





Connects fractional tube to SAE straight thread boss
These fittings may have a larger opening at the pipe / staight thread end.

Part No.	Tube O.D D		Straight Thread	E	Width across flat h		H		H_1		A	B	I	I_1	L	L_1	K	O-Ring Unifom Size No.
	in	mm	T	Min.	in	mm	in	mm	in	mm								
STBS-4-4U	1/4	6.35	7/16-20	4.82	1/2	12.70	9/16	14.28	9/16	14.28	15.24	17.78	21.08	9.90	28.44	28.44	16.51	-904
STBS-6-6U	3/8	9.52	9/16-18	7.11	5/8	15.87	11/16	17.46	11/16	17.46	16.76	19.30	24.63	11.17	32.00	32.25	20.06	-906
STBS-8-8U	1/2	12.70	3/4-16	10.41	13/16	20.64	7/8	22.22	7/8	22.22	22.86	21.84	27.43	12.70	37.59	37.84	25.65	-908
STBS-12-12U	3/4	19.05	1-1/16-12	15.74	1-1/16	26.98	1-1/8	28.58	1-1/4	31.75	24.38	21.84	31.24	16.76	41.40	48.76	36.57	-912
STBS-16-16U	1	25.40	1-5/16-12	22.35	1-3/8	34.92	1-1/2	38.10	1-1/2	38.10	31.24	26.41	38.35	16.76	50.54	53.59	43.94	-916
STBS-20-20U	1-1/4	31.75	1-5/8-12	27.68	1-11/16	42.76	1-7/8	47.63	1-7/8	47.63	41.14	38.86	45.72	16.76	67.81	58.16	54.86	-920
STBS-24-24U	1-1/2	38.10	1-7/8-12	34.03	2	50.80	2-1/4	57.15	2-1/8	53.98	50.03	45.21	50.80	16.76	77.97	60.45	62.23	-924
STBS-32-32U	2	50.80	2-1/2-12	45.97	2-3/4	69.85	3	76.20	2-3/4	69.85	67.56	62.73	69.85	16.76	107.18	71.62	80.26	-932

O-Seal Connector

S-LOK O-Ring seal fittings provide leak-tight sealing on both vacuum and high pressure with a smooth & flat surface perpendicular to the threaded port to ensure metal to metal contact.
The standard Buna N O-Ring is contained in a precision groove to prevent O-Ring extrusion at high pressure and for a controlled squeeze in a vacuum service.

Raised Port

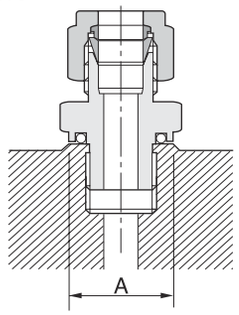


Fig. 1

Counterbored Port

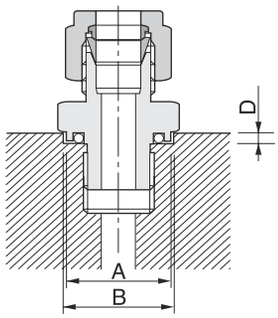


Fig. 2

Recessed Port

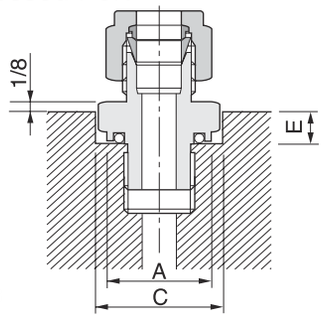


Fig. 3

MountingDimensions for O-seal connectors

S-LOK Part No.	Straight Thread	Pipe Thread	Diameter A Min. in	Diameter A Min. mm	Diameter B Min. in	Diameter B Min. mm	Diameter C Min. in	Diameter C Min. mm	Depth D Max. in	Depth D Max. mm	Depth E Max. in	Depth E Max. mm
SCOS-2-2U	5/16-24	-	0.50	12.7	0.59	15.0	0.66	16.8	0.09	2.3	0.16	5.6
SCOS-3-3U	3/8-24	-	0.56	14.2	0.66	16.8	0.75	19.1	0.09	2.3	0.22	5.6
SCOS-4-4U	7/16-20	-	0.69	17.5	0.78	19.8	0.88	22.4	0.16	4.1	0.28	7.1
SCOS-5-5U	1/2-20	-	0.75	19.1	0.91	23.1	1.03	26.2	0.16	4.1	0.31	7.9
SCOS-6-6U	9/16-18	-	0.81	20.6	0.97	24.6	1.09	27.7	0.16	4.1	0.31	7.9
SCOS-8-8U	3/4-16	-	1.00	25.4	1.16	29.5	1.31	33.3	0.16	4.1	0.34	8.6
SCOS-12-12U	1-1/16-12	-	1.41	35.8	1.53	38.9	1.75	44.5	0.22	5.6	0.50	12.7
SCOS-16-16U	1-5/16-12	-	1.69	42.9	1.78	45.2	2.03	51.6	0.22	5.6	0.56	14.2
SCOP-2-2N	-	1/8	0.69	17.5	0.78	19.8	0.88	22.4	0.16	4.1	0.28	7.1
SCOP-4-2N	-	1/8	0.69	17.5	0.78	19.8	0.88	22.4	0.16	4.1	0.28	7.1
SCOP-4-4N	-	1/4	0.87	22.1	0.97	24.6	1.09	27.7	0.16	4.1	0.31	7.9
SCOP-6-6N	-	3/8	1.00	25.4	1.16	29.5	1.31	33.3	0.16	4.1	0.34	8.6
SCOP-6-8N	-	1/2	1.22	31.0	1.34	34.0	1.53	38.9	0.22	5.6	0.44	11.2
SCOP-8-8N	-	1/2	1.22	31.0	1.34	34.0	1.53	38.9	0.22	5.6	0.44	11.2

When installing an O-Ring seal fitting:

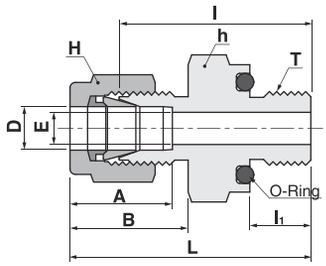
1. Hand-tighten it until the squeeze on the O-Ring can be felt during the last 1/4 turn
2. Snug the fitting lightly with a wrench

When connecting & disconnecting the tubing to the O-Ring fitting:

1. Use a back-up wrench on the fitting hex so it does not turn while the nut is being tightened at the tubing connection.
2. When disconnecting the tubing also use a back-up wrench so the fitting does not turn
3. For a recessed port, use a thin back-up wrench(1/8") to hold the fitting hex (Fig. 3).

O-Seal Straight
Thread Connector

SCOS



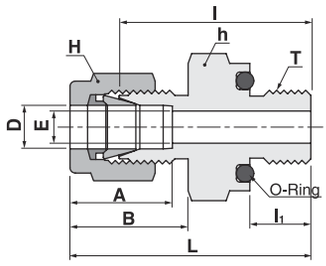


Connects fractional tube to straight thread
These fittings may have a larger opening at the pipe / staight thread end.

Part No.	Tube O.D D		Straight Thread	E	Width across flat h		H		A	B	I	l_1	L	O-Ring Unifom Size No.
	in	mm	T	Min.	in	mm	in	mm						
SCOS-2-2U	1/8	3.17	5/16-24	2.28	9/16	14.28	7/16	11.11	12.70	15.24	26.16	8.63	32.76	-011
SCOS-3-3U	3/16	4.76	3/8-24	3.04	5/8	15.87	1/2	12.70	13.71	16.00	27.68	9.65	34.29	-012
SCOS-4-4U	1/4	6.35	7/16-20	4.82	3/4	19.05	9/16	14.28	15.24	17.78	30.98	10.41	38.35	-111
SCOS-5-5U	5/16	7.93	1/2-20	6.35	7/8	22.22	5/8	15.87	16.25	18.54	33.27	11.17	40.64	-112
SCOS-6-6U	3/8	9.52	9/16-18	7.11	15/16	23.81	11/16	17.46	16.76	19.30	35.05	11.93	42.41	-113
SCOS-8-8U	1/2	12.70	3/4-16	10.41	1-1/8	28.57	7/8	22.22	22.86	21.84	35.81	11.93	45.97	-116
SCOS-12-12U	3/4	19.05	1-1/16-12	15.74	1-1/2	38.10	1-1/8	28.58	24.38	21.84	42.16	14.22	52.32	-215
SCOS-16-16U	1	25.40	1-5/16-12	22.35	1-3/4	44.45	1-1/2	38.10	31.24	26.41	45.97	14.22	58.16	-219

O-Seal Pipe
Thread Connector

SCOP





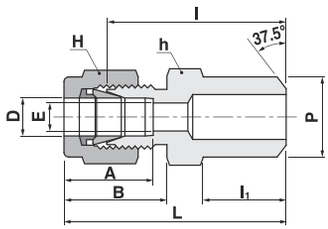
Connects fractional tube to NPT thread
These fittings may have a larger opening at the pipe / staight thread end.

Part No.	Tube O.D D		T	E	Width across flat h		H		A	B	I	l_1	L	O-Ring Unifom Size No.
	in	mm	*(NPT)	Min.	in	mm	in	mm						
SCOP-2-2N	1/8	3.17	1/8	2.28	3/4	19.05	7/16	11.11	12.70	15.24	26.16	7.11	32.76	-111
SCOP-4-2N	1/4	6.35	1/8	4.82	3/4	19.05	9/16	14.28	15.24	17.78	27.68	7.11	35.05	-111
SCOP-4-4N	1/4	6.35	1/4	4.82	15/16	23.81	9/16	14.28	15.24	17.78	30.98	9.65	38.35	-113
SCOP-6-4N	3/8	9.52	1/4	7.11	15/16	23.81	11/16	17.46	16.76	19.30	32.51	9.65	39.87	-113
SCOP-6-6N	3/8	9.52	3/8	7.11	1-1/8	28.58	11/16	17.46	16.76	19.30	34.03	10.41	41.40	-116
SCOP-6-8N	3/8	9.52	1/2	7.11	1-5/16	33.33	11/16	17.46	16.76	19.30	39.62	13.46	46.99	-212
SCOP-8-8N	1/2	12.70	1/2	10.41	1-5/16	33.33	7/8	22.22	22.86	21.84	39.62	13.46	49.78	-212

** ISO paralled threads ard available upon request.*

Male Pipe
Weld Connector

SCW





Connects fractional tube to pipe

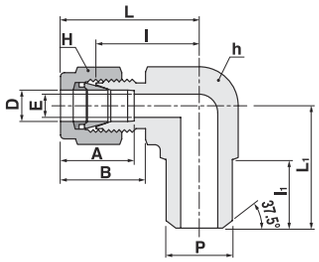
Part No.	Tube O.D		Male Pipe Size		E	Width across flat				A	B	I	I_1	L
	D		P			h		H						
	in	mm	NPS	O.D	Min.	in	mm	in	mm					
SCW-2-2P	1/8	3.17	1/8	10.29	2.28	7/16	11.11	7/16	11.11	12.70	15.24	23.20	9.65	31.24
SCW-3-2P	3/16	4.76	1/8	10.29	3.04	7/16	11.11	1/2	12.70	13.71	16.00	24.63	9.65	31.24
SCW-4-2P	1/4	6.35	1/8	10.29	4.82	1/2	12.70	9/16	14.28	15.24	17.78	25.40	9.65	32.76
SCW-4-4P	1/4	6.35	1/4	13.72	4.82	9/16	14.28	9/16	14.28	15.24	17.78	30.48	14.22	37.84
SCW-5-2P	5/16	7.93	1/8	10.29	5.08	9/16	14.28	5/8	15.87	16.25	18.54	26.67	9.65	34.03
SCW-5-4P	5/16	7.93	1/4	13.72	6.35	9/16	14.28	5/8	15.87	16.25	18.54	31.24	14.22	38.60
SCW-6-4P	3/8	9.52	1/4	13.72	7.11	5/8	15.87	11/16	17.46	16.76	19.30	32.51	14.22	39.87
SCW-6-6P	3/8	9.52	3/8	17.15	7.11	11/16	17.46	11/16	17.46	16.76	19.30	32.51	14.22	39.87
SCW-6-8P	3/8	9.52	1/2	21.34	7.11	7/8	22.22	11/16	17.46	16.76	19.30	38.86	19.05	46.26
SCW-8-6P	1/2	12.70	3/8	17.15	10.41	13/16	20.64	7/8	22.22	22.86	21.84	33.27	14.22	43.43
SCW-8-8P	1/2	12.70	1/2	21.34	10.41	7/8	22.22	7/8	22.22	22.86	21.84	38.86	19.05	49.02
SCW-8-12P	1/2	12.70	3/4	26.67	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	40.38	19.05	50.54
SCW-10-8P	5/8	15.87	1/2	21.34	12.70	15/16	23.81	1	25.40	24.38	21.84	38.86	19.05	49.02
SCW-12-12P	3/4	19.05	3/4	26.67	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	40.38	19.05	50.54
SCW-16-16P	1	25.40	1	33.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	50.03	23.87	62.23
SCW-20-20P	1-1/4	31.75	1-1/4	42.16	27.68	1-3/4	44.45	1-7/8	47.63	41.14	38.86	55.11	23.87	77.21
SCW-24-24P	1-1/2	38.10	1-1/2	48.26	34.03	2-1/8	53.98	2-1/4	57.15	50.03	45.21	61.72	26.16	88.90
SCW-32-32P	2	50.80	2	60.33	45.97	2-3/4	69.85	3	76.20	67.56	62.73	76.20	26.92	113.53

Connects metric tube to pipe

Part No.	Tube O.D	Male Pipe Size		E	Width across flat		A	B	I	I	L
	D	P									
		NPS	O.D	Min.	h	H					
SCW-3M-2P	3	1/8	10.29	2.4	12	12	12.9	15.3	23.1	9.7	29.7
SCW-4M-2P	4	1/8	10.29	2.4	12	12	13.7	16.1	24.1	9.7	30.7
SCW-6M-2P	6	1/8	10.29	4.8	14	14	15.3	17.7	25.4	9.7	32.8
SCW-6M-4P	6	1/4	13.72	4.8	14	14	15.3	17.7	30.2	14.2	37.6
SCW-8M-2P	8	1/8	10.29	5.1	15	16	16.2	18.6	26.7	9.7	34.2
SCW-8M-4P	8	1/4	13.72	6.4	15	16	16.2	18.6	31.2	14.2	38.7
SCW-8M-8P	8	1/2	21.34	6.4	22	16	16.2	18.6	37.3	19.0	44.8
SCW-10M-4P	10	1/4	13.72	7.1	18	19	17.2	19.5	33.3	14.2	40.9
SCW-10M-6P	10	3/8	17.15	7.9	18	19	17.2	19.5	32.5	14.2	40.1
SCW-10M-8P	10	1/2	21.34	7.9	22	19	17.2	19.5	38.1	19.0	45.7
SCW-12M-4P	12	1/4	13.72	7.1	22	22	22.8	22.0	33.3	14.2	43.4
SCW-12M-6P	12	3/8	17.15	9.5	22	22	22.8	22.0	33.3	14.2	43.4
SCW-12M-8P	12	1/2	21.34	9.5	22	22	22.8	22.0	38.1	19.0	48.2
SCW-14M-6P	14	3/8	17.15	10.3	24	25	24.4	22.0	34.0	14.2	44.1
SCW-15M-8P	15	1/2	21.34	11.9	24	25	24.4	22.0	38.9	19.0	49.0
SCW-18M-8P	18	1/2	21.34	12.7	24	25	24.4	22.0	38.9	19.0	49.0
SCW-18M-8P	18	1/2	21.34	13.5	27	30	24.4	22.0	40.4	19.0	50.5
SCW-32M-20P	32	1-1/4	42.16	28.6	46	50	42.0	41.6	56.6	23.9	49.6
SCW-38M-24P	38	1-1/2	48.26	33.7	55	60	49.4	47.9	64.0	26.2	91.6

Male Pipe
Weld Elbow

SLW



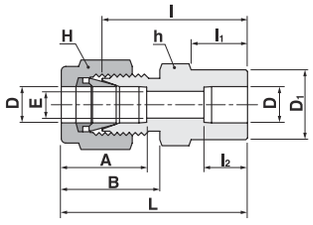


Connects fractional tube to pipe

Part No.	Tube O.D D		Male Pipe Size P		E	Width across flat h		H		A	B	I	I_1	L	L_1
	in	mm	NPS	O.D	Min.	in	mm	in	mm						
SLW-2-2P	1/8	3.17	1/8	10.29	2.28	1/2	12.70	7/16	11.11	12.70	15.24	19.55	9.65	26.92	18.79
SLW-4-4P	1/4	6.35	1/4	13.72	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	14.22	26.92	23.36
SLW-6-4P	3/8	9.52	1/4	13.72	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	14.22	30.48	25.40
SLW-8-8P	1/2	12.70	1/2	21.34	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	19.05	36.06	33.02
SLW-12-12P	3/4	19.05	3/4	26.67	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	19.05	39.87	36.83

Tube Socket
Weld Connector

SCSW



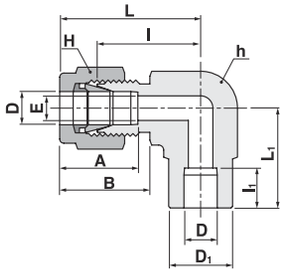


Connects fractional tubes

Part No.	Tube O.D D		E	D_1	Width across flat h		H		A	B	I	I_1	I_2	L
	in	mm	Min.		in	mm	in	mm						
SCSW-2-2	1/8	3.17	2.28	7.87	7/16	11.11	7/16	11.11	12.70	15.24	22.35	8.63	6.35	28.95
SCSW-4-4	1/4	6.35	4.82	11.17	1/2	12.70	9/16	14.28	15.24	17.78	26.16	10.41	7.87	33.52
SCSW-6-6	3/8	9.52	7.11	15.74	5/8	15.87	11/16	17.46	16.76	19.30	30.22	11.93	9.65	37.59
SCSW-8-8	1/2	12.70	10.41	19.05	13/16	20.64	7/8	22.22	22.86	21.84	30.98	11.93	12.70	41.14
SCSW-12-12	3/4	19.05	15.74	26.67	1-1/16	26.98	1-1/8	28.58	24.38	21.84	33.27	11.93	14.22	43.43
SCSW-16-16	1	25.40	22.35	33.27	1-3/8	34.92	1-1/2	38.10	31.24	26.41	40.38	14.22	19.05	52.57

Tube Socket
Weld Elbow

SLSW



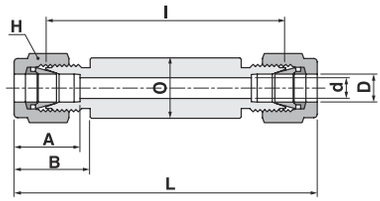


Connects fractional tubes

Part No.	Tube O.D D		E	D_1	Width across flat h		H		A	B	I	I_1	L	L_1
	in	mm	Min.		in	mm	in	mm						
SLSW-4-4	1/4	6.35	4.82	11.17	1/2	12.70	9/16	14.28	15.24	17.78	19.55	7.87	26.92	19.55
SLSW-6-6	3/8	9.52	7.11	15.74	5/8	15.87	11/16	17.46	16.76	19.30	23.11	9.65	30.48	23.11
SLSW-8-8	1/2	12.70	10.41	19.05	13/16	20.64	7/8	22.22	22.86	21.84	25.90	12.70	36.06	25.90
SLSW-12-12	3/4	19.05	15.74	26.67	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	14.22	39.87	29.71
SLSW-16-16	1	25.40	22.35	33.27	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	19.05	49.02	36.83

Welding
Bulkhead Union

SBUW





Connects fractional Tubes

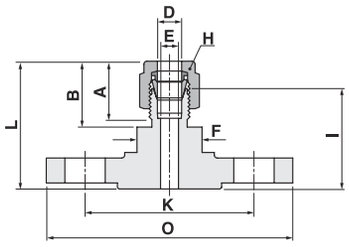
Part No.	Tube O.D. D		d	H		A	B	I	L	O
	in	mm	mm	in	mm					
SBUW-1	1/16	1.59	1.27	5/16	7.93	8.63	10.92	64.2	71.85	10
SBUW-2	1/8	3.17	2.28	7/16	11.11	12.7	15.24	67.2	80.41	12
SBUW-3	3/16	4.76	3.04	1/2	12.70	13.71	16	69	82.2	12
SBUW-4	1/4	6.35	4.82	9/16	14.28	15.24	17.78	70.4	85.13	14
SBUW-5	5/16	7.93	6.35	5/8	15.87	16.25	18.54	73.7	88.43	16
SBUW-6	3/8	9.52	7.11	11/16	17.46	16.76	19.3	73.7	88.43	19
SBUW-8	1/2	12.7	10.41	7/8	22.22	22.86	21.84	73.7	94.02	22
SBUW-10	5/8	15.87	12.7	1	25.40	24.38	21.84	73.7	94.02	28
SBUW-12	3/4	19.05	15.74	1-1/8	28.58	24.38	21.84	73.7	94.02	32
SBUW-14	7/8	22.22	18.28	1-1/4	31.75	25.9	21.84	73.7	94.02	32
SBUW-16	1	25.4	22.35	1-1/2	38.10	31.24	26.41	78.5	102.89	35
SBUW-20	1-1/4	31.75	27.68	1-7/8	47.63	41.14	38.86	83.9	128.1	50
SBUW-24	1-1/2	38.1	34.03	2-1/4	57.15	50.03	45.21	86.1	140.45	55
SBUW-32	2	50.8	45.97	3	76.20	67.56	62.73	100.9	175.55	80

Connects Metric Tubes

Part No.	Tube O.D. D	d	H	A	B	I	L	O
		mm						
SBUW-2M	2	1.7	12	12.9	15.3	67.3	80.5	12
SBUW-3M	3	2.4	12	12.9	15.3	67.3	80.5	12
SBUW4M	4	2.4	12	13.7	16.1	69	82.2	12
SBUW-6M	6	4.8	14	15.3	17.7	70.4	85.2	14
SBUW-8M	8	6.4	16	16.2	18.6	74	89	16
SBUW-10M	10	7.9	19	17.2	19.5	74	89.2	19
SBUW-12M	12	9.5	22	22.8	22	74	94.2	22
SBUW-15M	15	11.9	25	24.4	22	74	94.2	25
SBUW-16M	16	12.7	25	24.4	22	74	94.2	28
SBUW-18M	18	15.1	30	24.4	22	74	94.2	28
SBUW-20M	20	15.9	32	26	22	74	94.2	32
SBUW-22M	22	18.3	32	26	22	74	94.2	32
SBUW-25M	25	21.8	38	31.3	26.5	78.6	103.2	38
SBUW-28M	28	21.8	46	36.6	36.6	81.7	116.3	45
SBUW-30M	30	26.2	50	39.6	39.2	74	117.2	50
SBUW-32M	32	28.6	50	42	41.6	87.1	133.1	50
SBUW-38M	38	33.7	60	49.4	47.9	90.9	146.1	60
SBUW-42M	42	36.5	65	49.4	47.9	90.9	146.1	60

Flange Adapter

SF





Connects fractional Tube to ANSI Flanges

Part No,	Tube O.D. D		ANSI Flange		E	H		A	B	F	L	I	K	O
	in	mm	NPS	Class	min	in	mm							
SF-8R-4T-150	1/4	6.35	1/2	150	4.82	9/16	14.28	15.24	17.78	20.64	40.89	33.53	60.3	90
SF-8R-6T-300	3/8	9.52	1/2	300	7.11	11/16	17.46	16.76	19.3	20.64	45.47	38.1	66.7	95
SF-8R-8T-150	1/2	12.7	1/2	150	10.41	7/8	22.22	22.86	21.84	20.64	45.21	35.05	60.3	90
SF-16R-8T-150	1/2	12.7	1	150	10.41	7/8	22.22	22.86	21.84	20.64	48.26	38.1	79.4	110
SF-32R-8T-150	1/2	12.7	2	150	10.41	7/8	22.22	22.86	21.84	20.64	53.09	42.93	120.7	150
SF-16R-12T-150	3/4	19.05	1	150	15.74	1-1/8	28.58	24.38	21.84	31.75	50.29	40.13	79.4	110
SF-16R-16T-150	1	25.4	1	150	22.35	1-1/2	38.1	31.24	26.41	34.93	60.45	48.26	79.4	110
SF-32R-24T-150	1-1/2	38.1	2	150	34.03	1-7/8	47.63	50.03	45.21	53.98	86.36	59.18	120.7	150
SF-32R-32T-150	2	50.8	2	150	45.97	3	76.2	67.56	62.73	69.85	101.39	67.06	120.7	150

Connects Metric Tube to DIN PN40 Flanges

Part No,	Tube O.D. D	DIN Flange DN	E min	H	A	B	F	L	I	K	O
SF-25R-6M-PN40	6	25	4.8	14	15.3	17.7	20	47.5	40.1	85	115
SF-15R-12M-PN40	12	15	9.5	22	22.8	22	20	48.5	38.4	65	95
SF-25R-12M-PN40	12	25	9.5	22	22.8	22	20	50.5	40.4	85	115
SF-50R-12M-PN40	12	50	9.5	22	22.8	22	20	55.3	45.2	125	165
SF-15R-18M-PN40	18	15	15.1	30	24.4	22	32	51.8	41.7	65	95
SF-25R-18M-PN40	18	25	15.1	30	24.4	22	32	53.8	43.7	85	115
SF-25R-25M-PN40	25	25	21.8	38	31.3	26.5	35	64	51.8	85	115
SF-50R-38M-PN40	38	50	33.7	60	49.4	47.9	55	90.4	62.7	125	165

Connects fractional Tube to JIS10K Flanges

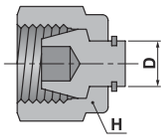
Part No,	Tube O.D. D		JIS Flange	E	H		A	B	F	L	I	K	O
	in	mm	DN	min	in	mm							
SF-15R-4T-10K	1/4	6.35	15	4.82	9/16	14.28	15.24	17.78	20.64	42.16	34.8	70	95
SF-15R-6T-10K	3/8	9.52	15	7.11	11/16	17.46	16.76	19.3	20.64	43.69	36.32	70	95
SF-15R-8T-10K	1/2	12.7	15	10.41	7/8	22.22	22.86	21.84	20.64	46.49	36.32	70	95
SF-15R-12T-10K	3/4	19.05	15	15.74	1-1/8	28.58	24.38	21.84	31.75	48.51	38.35	70	95
SF-25R-16T-10K	1	25.4	25	22.35	1-1/2	38.1	31.24	26.41	34.93	60.96	48.77	90	125
SF-50R-32T-10K	2	50.8	50	45.97	3	76.2	67.56	62.73	69.85	101.85	64.52	120	155

Connects Metric Tube to JIS10K Flanges

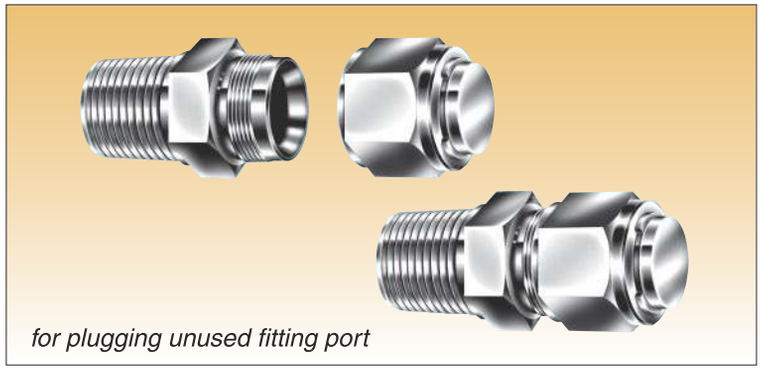
Part No,	Tube O.D. D	JIS Flange DN	E min	H	A	B	F	L	I	K	O
SF-15R-12M-10K	12	15	9.5	22	22.8	22	20	46.5	36.3	70	95
SF-15R-18M-10K	18	15	15.1	30	24.4	22	32	48.5	38.4	70	95
SF-25R-25M-10K	25	25	21.8	38	31.3	26.5	35	61.0	48.8	90	125

Plug

SP







for plugging unused fitting port

Installation Instructions

1. Remove the nut and ferrules from the body
2. With a wrench, 1/4 turn from the finger-tight position, (1/8 turn for 1/8", 3/16" and 2mm, 3mm and 4mm)

fractional

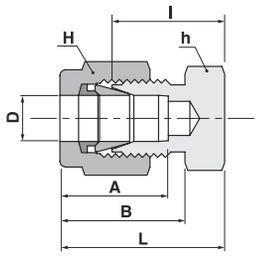
Part No.	Tube O.D. D		Width across flat H	
	in	mm	in	mm
SP-1	1/16	1.59	5/16	7.93
SP-2	1/8	3.17	7/16	11.11
SP-3	3/16	4.76	1/2	12.70
SP-4	1/4	6.35	9/16	14.28
SP-5	5/16	7.93	5/8	15.87
SP-6	3/8	9.52	11/16	17.46
SP-8	1/2	12.70	7/8	22.22
SP-10	5/8	15.87	1	25.40
SP-12	3/4	19.05	1-1/8	28.58
SP-14	7/8	22.22	1-1/4	31.75
SP-16	1	25.40	1-1/2	38.10
SP-20	1-1/4	31.75	1-7/8	47.63
SP-24	1-1/2	38.10	2-1/4	57.15
SP-32	2	50.80	3	76.20

metric

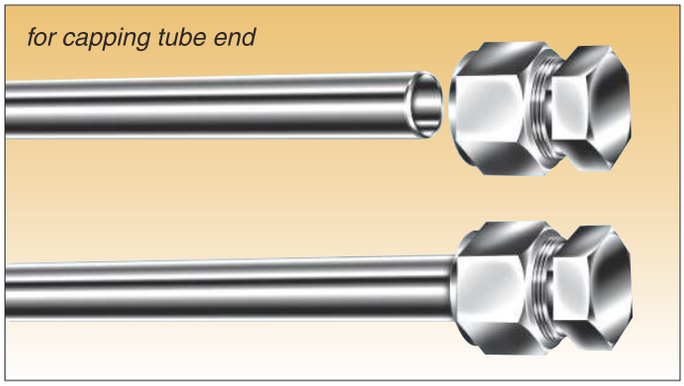
Part No.	Tube O.D. D	Width across flat H
SP-2M	2	12
SP-3M	3	12
SP-4M	4	12
SP-6M	6	14
SP-8M	8	16
SP-10M	10	19
SP-12M	12	22
SP-15M	15	25
SP-16M	16	25
SP-18M	18	30
SP-20M	20	32
SP-22M	22	32
SP-25M	25	38
SP-28M	28	46
SP-32M	32	50
SP-38M	38	60

Cap

SC







Installation Instructions

1. Insert the tube end into the Cap
2. With a wrench, 1-1/4 turns from the finger-tight position, (3/4 turn for 1/8", 3/16" 3mm and 4mm)

Cap end of fractional tube

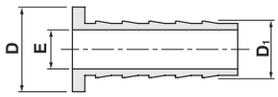
Part No.	Tube O.D. D		Width across flat h		Width across flat H		A	B	I	L
	in	mm	in	mm	in	mm				
SC-1	1/16	1.59	5/16	7.93	5/16	7.93	8.63	10.92	11.20	14.18
SC-2	1/8	3.17	7/16	11.11	7/16	11.11	12.70	15.24	13.46	20.06
SC-3	3/16	4.76	7/16	11.11	1/2	12.70	13.71	16.00	14.73	21.33
SC-4	1/4	6.35	1/2	12.70	9/16	14.28	15.24	17.78	16.00	23.26
SC-5	5/16	7.93	9/16	14.28	5/8	15.87	16.25	18.54	17.01	24.38
SC-6	3/8	9.52	5/8	15.87	11/16	17.46	16.76	19.30	18.28	25.65
SC-8	1/2	12.70	13/16	20.63	7/8	22.22	22.86	21.84	19.05	29.21
SC-10	5/8	15.87	15/16	23.81	1	25.40	24.38	21.84	19.81	29.97
SC-12	3/4	19.05	1-1/16	26.98	1-1/8	28.57	24.38	21.84	21.33	31.49
SC-14	7/8	22.22	1-3/16	30.16	1-1/4	31.75	25.90	21.84	23.87	34.03
SC-16	1	25.40	1-3/8	34.92	1-1/2	38.10	31.24	26.41	26.16	38.35
SC-20	1-1/4	31.75	1-3/4	44.45	1-7/8	47.63	41.14	38.86	31.24	53.34
SC-24	1-1/2	38.10	2-1/8	53.98	2-1/4	57.15	50.15	45.21	37.33	64.51
SC-32	2	50.80	2-3/4	69.85	3	76.20	67.56	62.73	49.27	86.61

Cap end of metric tube

Part No.	Tube O.D. D	Width across flat h	Width across flat H	A	B	I	L
SC-2M	2	12	12	12.9	15.3	13.5	20.1
SC-3M	3	12	12	12.9	15.3	13.5	20.1
SC-4M	4	12	12	13.7	16.1	14.7	21.3
SC-6M	6	14	14	15.3	17.7	15.7	23.1
SC-8M	8	15	16	16.2	18.6	17.0	24.5
SC-10M	10	18	19	17.2	19.5	19.0	26.6
SC-12M	12	22	22	22.8	22.0	19.0	29.1
SC-15M	15	24	25	24.4	22.0	19.8	29.9
SC-16M	16	24	25	24.4	22.0	19.8	29.9
SC-18M	18	27	30	24.4	22.0	21.3	31.4
SC-20M	20	30	32	26.0	22.0	23.9	34.0
SC-22M	22	30	32	26.0	22.0	23.9	34.0
SC-25M	25	35	38	31.3	26.5	26.2	38.5
SC-28M	28	41	46	36.6	36.6	27.7	48.5
SC-32M	32	46	50	42.0	41.6	32.8	55.8
SC-38M	38	55	60	49.4	47.9	37.8	65.4

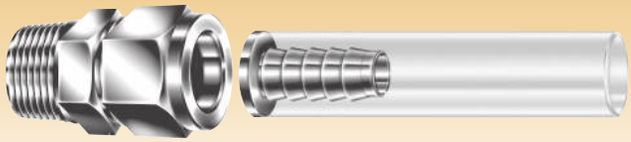
Tube Insert

SI





for Nylon or Soft Plastic Tubing



Installation Instructions

The S-LOK Tube Insert supports the soft plastic tubing, thus the tubing does not collapse when the ferrules deform it.
When you select a size of Tube Insert, check if the tubing O.D and I.D conform to those of the tube insert.

fractional

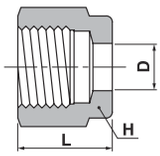
Part No.	Tube O.D. D		Tube I.D. D_1		E
	in	mm	in	mm	
SI-3-2	3/16	4.76	1/8	3.17	2.28
SI-4-2	1/4	6.35	1/8	3.17	2.28
SI-4-3	1/4	6.35	3/16	4.76	3.55
SI-5-2	5/16	7.93	1/8	3.17	2.28
SI-5-3	5/16	7.93	3/16	4.76	3.04
SI-5-4	5/16	7.93	1/4	6.35	4.82
SI-6-3	3/8	9.52	3/16	4.76	3.04
SI-6-4	3/8	9.52	1/4	6.35	4.82
SI-8-4	1/2	12.70	1/4	6.35	4.82
SI-8-6	1/2	12.70	3/8	9.52	7.87
SI-10-6	5/8	15.87	3/8	9.52	7.87
SI-10-8	5/8	15.87	1/2	12.70	11.17
SI-12-8	3/4	19.05	1/2	12.70	11.17
SI-12-10	3/4	19.05	5/8	15.87	14.22
SI-16-12	1	25.40	3/4	19.05	17.52

metric

Part No.	Tube O.D. D	Tube I.D. D_1	E
SI-6M-4M	6	4	2.8
SI-8M-6M	8	6	4.4
SI-10M-8M	10	8	6.4
SI-12M-8M	12	8	6.4
SI-12M-10M	12	10	8.3

Nut

SN





fractional

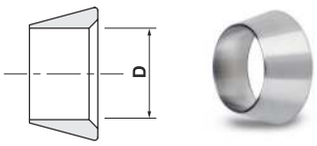
Part No.	Tube O.D. D		Width across flat H		L
	in	mm	in	mm	
SN-1	1/16	1.59	5/16	7.93	7.90
SN-2	1/8	3.17	7/16	11.11	11.93
SN-3	3/16	4.76	1/2	12.70	11.93
SN-4	1/4	6.35	9/16	14.28	12.70
SN-5	5/16	7.93	5/8	15.87	13.46
SN-6	3/8	9.52	11/16	17.46	14.22
SN-8	1/2	12.70	7/8	22.22	17.52
SN-10	5/8	15.87	1	25.40	17.52
SN-12	3/4	19.05	1-1/8	28.58	17.52
SN-14	7/8	22.22	1-1/4	31.75	17.52
SN-16	1	25.40	1-1/2	38.10	20.57
SN-20	1-1/4	31.75	1-7/8	47.63	31.75
SN-24	1-1/2	38.10	2-1/4	57.15	38.10
SN-32	2	50.80	3	76.20	52.32

metric

Part No.	Tube O.D. D	Width across flat H	L
SN-2M	2	12	11.8
SN-3M	3	12	11.8
SN-4M	4	12	12.0
SN-6M	6	14	12.7
SN-8M	8	16	13.5
SN-10M	10	19	13.1
SN-12M	12	22	17.5
SN-15M	15	25	17.5
SN-16M	16	25	17.4
SN-18M	18	30	17.5
SN-20M	20	32	17.5
SN-22M	22	32	17.5
SN-25M	25	38	20.6
SN-28M	28	46	30.6
SN-32M	32	50	34.4
SN-38M	38	60	40.6

Front Ferrule

SFF



fractional

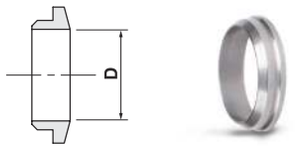
Part No.	Tube O.D. D	
	in	mm
SFF-1	1/16	1.59
SFF-2	1/8	3.17
SFF-3	3/16	4.76
SFF-4	1/4	6.35
SFF-5	5/16	7.93
SFF-6	3/8	9.52
SFF-8	1/2	12.70
SFF-10	5/8	15.87
SFF-12	3/4	19.05
SFF-14	7/8	22.22
SFF-16	1	25.40
SFF-20	1-1/4	31.75
SFF-24	1-1/2	38.10
SFF-32	2	50.80

metric

Part No.	Tube O.D. D
SFF-2M	2
SFF-3M	3
SFF-4M	4
SFF-6M	6
SFF-8M	8
SFF-10M	10
SFF-12M	12
SFF-15M	15
SFF-16M	16
SFF-18M	18
SFF-20M	20
SFF-22M	22
SFF-25M	25
SFF-28M	28
SFF-32M	32
SFF-38M	38

Back Ferrule

SFB



fractional

Part No.	Tube O.D. D	
	in	mm
SFB-1	1/16	1.59
SFB-2	1/8	3.17
SFB-3	3/16	4.76
SFB-4	1/4	6.35
SFB-5	5/16	7.93
SFB-6	3/8	9.52
SFB-8	1/2	12.70
SFB-10	5/8	15.87
SFB-12	3/4	19.05
SFB-14	7/8	22.22
SFB-16	1	25.40
SFB-20	1-1/4	31.75
SFB-24	1-1/2	38.10
SFB-32	2	50.80

metric

Part No.	Tube O.D. D
SFB-2M	2
SFB-3M	3
SFB-4M	4
SFB-6M	6
SFB-8M	8
SFB-10M	10
SFB-12M	12
SFB-15M	15
SFB-16M	16
SFB-18M	18
SFB-20M	20
SFB-22M	22
SFB-25M	25
SFB-28M	28
SFB-32M	32
SFB-38M	38

Ferrule Set

SFS10



fractional

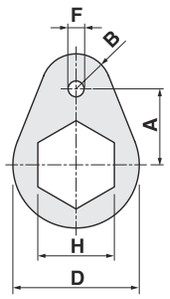
Part No.	Tube O.D.	
	in	mm
SFS10-1	1/16	1.59
SFS10-2	1/8	3.17
SFS10-3	3/16	4.76
SFS10-4	1/4	6.35
SFS10-5	5/16	7.93
SFS10-6	3/8	9.52
SFS10-8	1/2	12.70
SFS10-10	5/8	15.87
SFS10-12	3/4	19.05
SFS10-14	7/8	22.22
SFS10-16	1	25.40

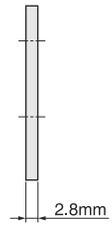
metric

Part No.	Tube O.D.
SFS10-2M	2
SFS10-3M	3
SFS10-4M	4
SFS10-6M	6
SFS10-8M	8
SFS10-10M	10
SFS10-12M	12
SFS10-15M	15
SFS10-16M	16
SFS10-18M	18
SFS10-20M	20
SFS10-22M	22
SFS10-25M	25

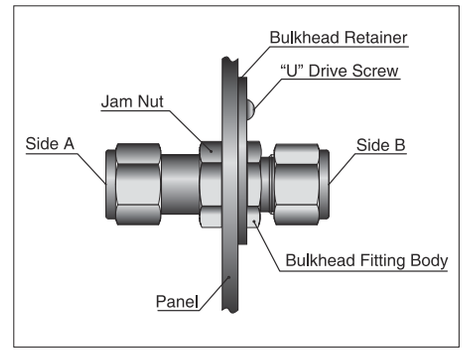
Bulkhead Retainer

SBR







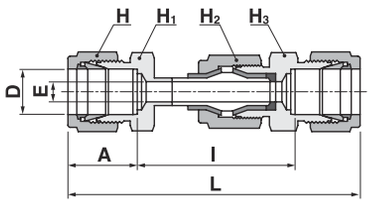


Connects fractional Tube

Part No,	S-LOK Fitting Size		A	B	D	H	F	Drill Hole Dia.	"U" Drive Screw	Drill No.
	In	mm								
SBR-1	1/16	-	9.52	3.97	15.9	7.93	3.97	3.05	6-3/8	31
SBR-2	1/8	-	12.7	5.56	20.6	12.7	3.97	3.05	6-3/8	31
SBR-3	3/16	3, 4	14.28	6.35	23.8	14.28	3.97	3.05	6-3/8	31
SBR-4	1/4	6	15.87	7.14	25.4	15.87	3.97	3.05	6-3/8	31
SBR-5	5/16	-	17.46	7.93	28.6	17.46	3.97	3.05	6-3/8	31
SBR-8M	-	8	17.46	7.93	28.6	18.0	3.97	3.05	6-3/8	31
SBR-6	3/8	-	19.05	8.73	31.8	19.05	3.97	3.05	6-3/8	31
SBR-10M	-	10	23.81	10.32	38.1	22.0	5.56	3.66	10-1/2	27
SBR-8	1/2	12	23.81	10.32	38.1	23.81	5.56	3.66	10-1/2	27
SBR-10	5/8	15, 16	25.4	10.32	41.2	26.98	5.56	3.66	10-1/2	27
SBR-12	3/4	18	26.98	11.91	46.0	30.16	5.56	3.66	10-1/2	27
SBR-14	7/8	-	30.2	13.49	52.4	34.93	5.56	3.66	10-1/2	27
SBR-16	1	-	32.54	13.49	58.7	41.27	5.56	3.66	10-1/2	27

Dielectric Fitting

SEU





Connects fractional Tube or Pipe

Part No,	Tube O.D. D		Pipe Thread NPT	E	A	L	ℓ	H		H_1		H_2		H_3	
	in	mm		min				in	mm	in	mm	in	mm	in	mm
SEU-4	1/4	6.35	-	4.8	15.24	95.8	65.3	9/16	14.28	1/2	12.7	7/8	22.22	13/16	30.16
SEU-6	3/8	9.52	-	7.1	16.76	99.7	65.9	11/16	17.46	5/8	15.87	7/8	22.22	13/16	30.16
SEU-6-4N	3/8	9.52	1/4	7.1	16.76	94.5	-	11/16	17.46	5/8	15.87	7/8	22.22	13/16	30.16
SEU-8	1/2	12.7	-	7.1	22.86	106	60.3	7/8	22.22	13/16	20.64	7/8	22.22	13/16	30.16
SEU-10M	-	10	-	7.1	17.2	101.5	67.3	-	19	-	18	-	22	-	22
SEU-12M	-	12	-	7.1	22.8	106.3	60.4	-	22	-	22	-	22	-	22

Technical Data & Dimensions

- Electronical resistance of insulators at 70°F (20°C): 10 x 10^6 at 10V (dc)
- Pressure Rating : 5,000psig (344 barg)
- Temperature Rating : –40 to 200°F (–40 to 93°C)

Hydraulic Swaging Unit SWG-MNL

S-LOK Hydraulic Swaging Units preswage the ferrules to the tubing before assembly.

Features

- Reduce assembly and installation time.
- Does not cause deformation on the sealing surface of the fitting body and the fitting body thread.
- Supplied in a portable rugged plastic bag.

Part No.	Case Dimensions (L x W x D)	
	in.	cm
SWG-SMNL	19.78 x 15.77 x 7.41	50.2 x 40.1 x 18.8
SWG-LMNL	24.84 x 19.68 x 11.89	63.1 x 50 x 30.2

- Available Size - Fractional Tubing : 1/2 ~ 2 in.
  - Metric Tubing: 12 ~ 38 mm
- Can be preswage all available sizes by replacing the jig and die.

Unit Assembly and Set up

1. Open the vent valve of the hand pump by turning it counterclockwise.
2. Connect the hose to the hand pump and swaging head.
3. Turn the jig and die you want to use on the swaging head clockwise to fasten.
4. Tighten the die to the swaging head with Y wrench.
5. Tighten the bolt tightly with L wrench to fix the jig and complete the assembly.

Swaging Unit Operating

1. Align the front ferrule, back ferrule, nut and tubing of the size you want to swage, and fasten them to the jig and die.
2. Turn the vent valve of the hand pump clockwise to close it.
3. Pump the handle of the hand pump up and down.
4. Pump the hook on the back of the swaging head until it facing downward.
5. Open the vent valve of the hand pump by turning it counterclockwise while keeping the hook downward.
6. Disassemble preswaged ferrule, nut, tubing from jig and die.

Assembly with Fitting Body

1. Insert the pre-swaged ferrule, nut and tubing into the fitting body.
2. Tighten the nut clockwise by hand.
3. Fix the fitting body with a vise or spanner.
4. Tighten the nut 1/4 turn clockwise with spanner.



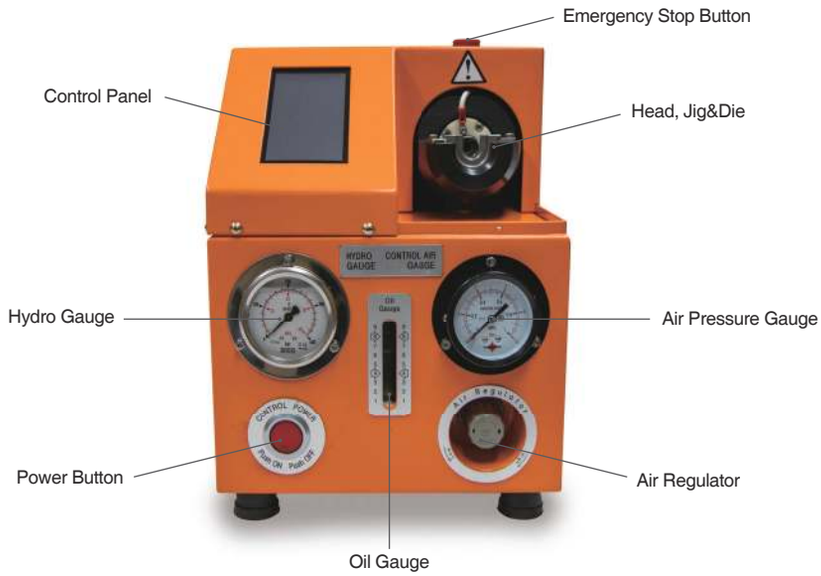
Swaging Unit - SWG-MNL Component

No.	Part Name
1	Hand Pump
2	Swaging Head
3	Pressure Gauge
4	Y Wrench
5	L Wrench
6	Bolt
7	Jig
8	Die

Recommended Minimum Wall Thickness of Tubing

Size	Tubing Wall Thickness	
	Stainless Steel	SWG-JD Part No.
1/2″	0.065	SWG-JD8-S630
5/8″	0.065	SWG-JD10-S630
3/4″	0.065	SWG-JD12-S630
7/8″	0.065	SWG-JD14-S630
1″	0.083	SWG-JD16-S630
1-1/4″	0.095	SWG-JD20-S630
1-1/2″	0.095	SWG-JD24-S630
2″	0.109	SWG-JD32-S630
12mm	1.5	SWG-JD12M-S630
15mm	1.5	SWG-JD15M-S630
16mm	1.8	SWG-JD16M-S630
18mm	1.8	SWG-JD18M-S630
20mm	2.0	SWG-JD20M-S630
22mm	2.0	SWG-JD22M-S630
25mm	2.0	SWG-JD25M-S630
28mm	2.2	SWG-JD28M-S630
32mm	2.2	SWG-JD32M-S630
38mm	2.5	SWG-JD38M-S630

Air-Actuated Hydraulic Swaging Unit – SWG-PAT

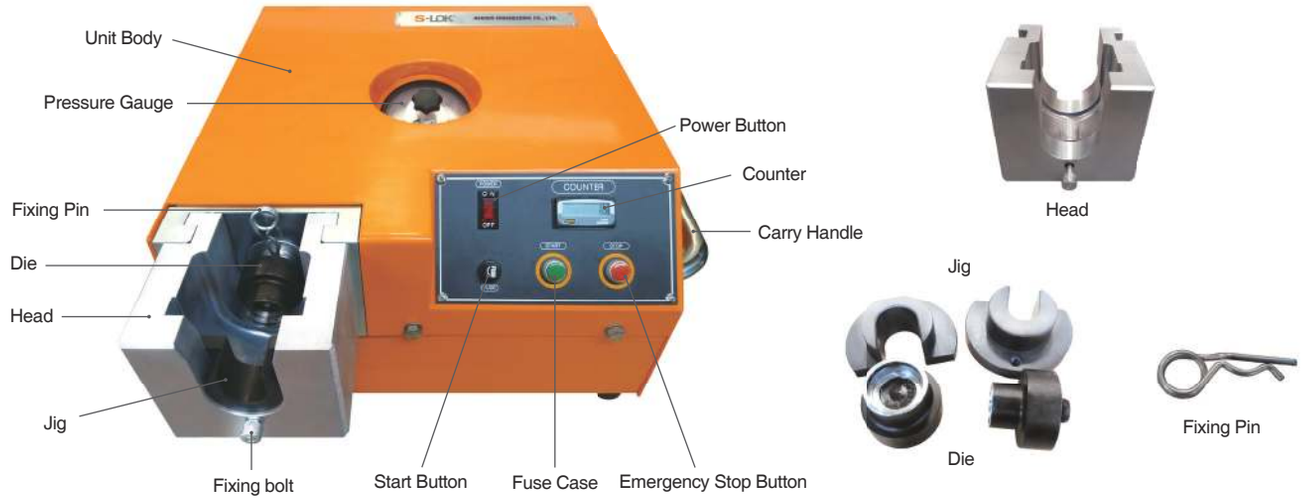


Features

- Easily preswage S-LOK nut, ferrule to stainless steel tubing
- Pneumatic drive & improve process control
- An electronically controlled semi-automatic device starts and stops the preswaging process.
- Automatically starts when tubing is inserted and bottomed
- Available size – Metric Tubing : 6, 8, 10, 12mm
  – Fractional Tubing : 1/4, 3/8, 1/2 inch
- Easily replace jigs and dies for available tubing sizes

Electric Swaging Unit – SWG-AT

S-LOK Electric Swaging Units pre-assemble the sleeve of bite type fitting to the tubing before installation.



Features

- Reduce assembly and installation time.
- Does not cause deformation on the sealing surface of the fitting body and the fitting body thread.
- Easy replacement of jig and die.
- Can be assembly all available sizes by replacing the jig and die.
- Available size – Metric Tubing : 12 ~ 42 mm
  – Fractional Tubing : 1/2 ~ 2 in.
- 220V version is standard and 110V version is available upon request.

Hydraulic pump	0.35 kW • 2.0 L/min
Operating pressure	0 ~ 600 bar
Connection	220V • 1Ø • 50 / 60Hz • 2.5A
Dimension	400 x 410 x 230 mm
Weight	44 kg

Tubing preparation

- Make sure that the outer diameter, wall thickness, circularity and tolerance of the tubing are appropriate for your application.
- Make sure the surface is free of scratches.
- Tubing should be cut to length with a square cut.
- Deburr the inside and outside edge of the tubing.

Unit Set Up

- Install the head on the swaging unit.
- Insert the die of the size you want to use into the swaging unit and fix it with the fixing pin.
- Install the jig of the size you want to use on the head and fix it with the fixing bolt.

Unit Set Up

- Turn on the unit.
- Set up the swaging pressure.
- Align the sleeve, nut on tubing of size you want to pre-assemble,
  and insert the tubing to the die.
  (The sleeve and nut are positioned between the die and the jig,
  Aligned with the tubing.)
- Press the start button and the die will slide toward the jig to complete pre-assemble.
  In case of emergency, press the red stop button. the unit stops immediately.
- Remove pre-assembled tubing from the unit.

Assembly on Fitting Body

- Insert the pre-assembled sleeve, nut and tubing into the fitting body.
- Tighten the nut clockwise by hand.
- Fix the fitting body with a vise or spanner.
- Tighten the nut 1/4 ~ 1/3 turn clockwise with spanner.

Gap Gauge for Pull-up Inspection

SIG

S-LOK maintains unbelievably tight tolerance on its each and every part.
S-LOK tube fittings are monitored and gauged throughout process.
This assures S-LOK consistency and makes S-LOK fittings gaugable.
This no-go gauge is the useful tool to inspect if the fittings are pulled up 1-1/4 turns from the finger-tight position. When the gauge doesn't fit the gap between the nut and body hex, the fitting is tightened 1-1/4 turns from the finger-tight position.
If the gauge fits the gap, the fittings is not fully tightened.



Multiple Size Gap Gauge

Part No.	Applicable S-LOK Tube O.D.
SIG-468	1/4", 3/8", 1/2", 6mm, 10mm, 12mm

Liquid Gas Leak Detectors

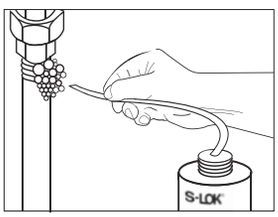
S·detec

- S·detec liquid gas leak detectors detect gas leaks in hard-to-reach areas.
- Flexible tube extends for hard-to-reach areas.
- Detects even on very small leaks and vertical surfaces.
- Easy to use, non-toxic, non-corrisive, non-fammable and free of chlorine.
- S·detec liquid evaporates cleanly after testing.
- Composition : Distilled water, glycerine and others
- Temperature range : -2˚C to 93˚C (28˚F to 200˚F)

⚠ Use S-detec liquid gas leak detectors only on external surfaces.



Instructions



M-SLD-02
Hold S-detec tube end at a pressurized connection. Squeeze upright bottle to apply a stream of S-detec liquid leak detector. Seek for bubbles which indicates leakage.

Product Comparison



Ordering Information

Ordering Number	Container Size	Flexible Tube Length
M-SLD-01	3.8 L (1 gal)	-
M-SLD-02	240 mL (8 oz)	30 cm (12 inch)

S·detec	Detergent
Non-corrosive	Corrosion
Dry clean without stains.	Stains and clots are formed.