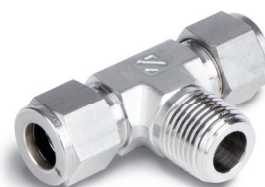
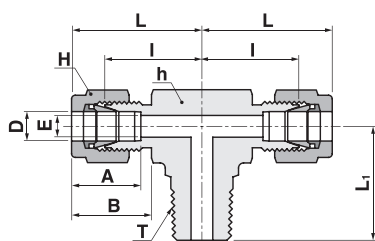


Male Branch Tee

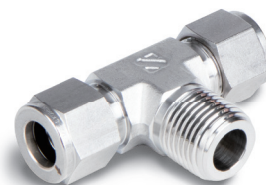
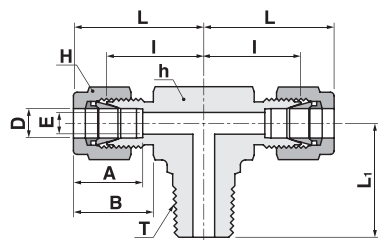
STBM

Connects fractional tube to female NPT thread

Part No.	Tube O.D		T	E	Width across flat				A	B	I	L	L ₁
	D				h		H						
	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

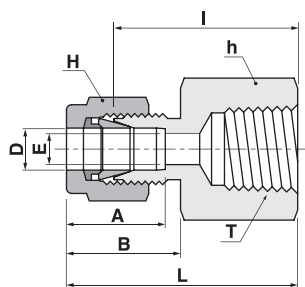


Connects metric tube to female ISO taper thread

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

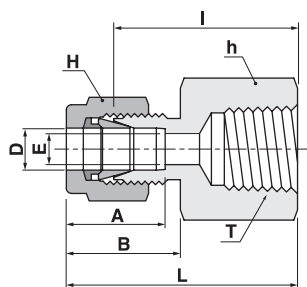


Connects fractional tube to male NPT thread

Part No.	Tube O.D		T	E	Width across flat				A	B	I	L
	D				h		H					
	in	mm			N(NPT)	Min.	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



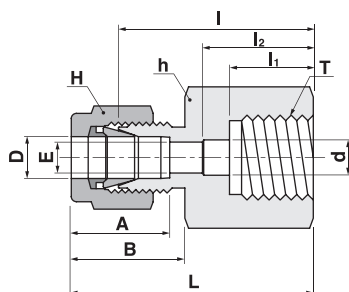
Connects metric tube to male ISO taper thread

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)

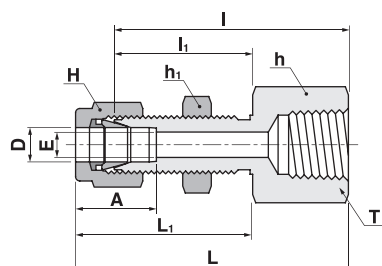
Part No.	Tube O.D		T	E	Width across flat				A	B	I	I ₁	I ₂	d	L
	D				h		H								
	in	mm			G(PF)	Min.	in	mm							
SCG-4-2G	1/4	6.35	1/8	4.82	9/16	14.28	9/16	14.28	15.24	17.78	26.30	12.00	17.00	5.60	33.55
SCG-4-4G	1/4	6.35	1/4	4.82	3/4	19.05	9/16	14.28	15.24	17.78	30.22	12.95	17.00	5.60	37.59
SCG-4-6G	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	T	E	Width across flat		A	B	I	I ₁	I ₂	d	L
	D	G(PF)	Min.	h	H							
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

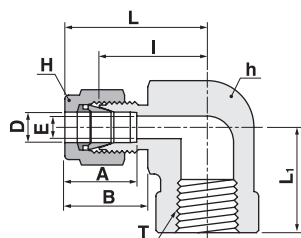
Part No.	Tube O.D		T	E	Width across flat						A	I	I ₁	L	L ₁	Panel Hole Drill Size	Panel Max. Thickness
	D				h		h ₁		H								
	in	mm			N(NPT)	Min.	in	mm	in	mm							
SCBF-2-2N	1/8	3.17	1/8	2.28	9/16	14.28	1/2	12.70	7/16	11.11	12.70	38.10	24.63	44.70	31.24	8.33	12.70
SCBF-4-2N	1/4	6.35	1/8	4.82	5/8	15.87	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	I ₁	L	L ₁	Panel Hole Drill Size	Panel Max. Thickness
	D	N(NPT)	Min.	h	h ₁	H							
SCBF-6M-2N	6	1/8	4.8	15.8	15.8	14	15.3	39.6	26.2	46.9	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

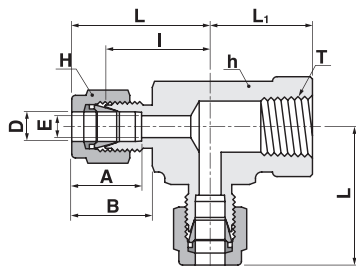
Part No.	Tube O.D		T	E	Width across flat				A	B	I	L	L ₁
	in	mm			h	mm	in	H					
SLF-2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.03	24.63	19.05
SLF-2-4N	1/8	3.17	1/4	2.28	11/16	17.46	7/16	11.11	12.70	15.24	20.82	27.43	22.35
SLF-3-2N	3/16	4.76	1/8	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	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	I	L	L ₁
	D	mm			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



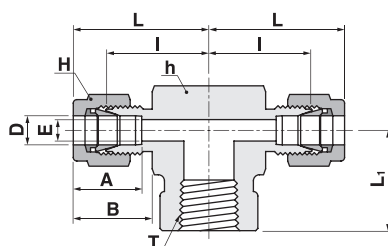
Connects fractional tube to male NPT thread

Part No.	Tube O.D		T	E	Width across flat				A	B	I	L	L ₁
	in	mm			h	mm	in	H					
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	mm			h	H					
STRF-6M-2N	6	15.87	1/8	4.8	12.70	14	15.3	17.7	19.6	27.0	19.00
STRF-6M-4N	6	15.87	1/4	4.8	17.46	14	15.3	17.7	22.4	29.8	22.40
STRF-6M-6N	6	15.87	3/8	4.8	20.64	14	15.3	17.7	24.4	31.7	22.40
STRF-6M-8N	6	15.87	1/2	4.8	25.40	14	15.3	17.7	27.2	34.6	28.40
STRF-8M-2N	8	20.64	1/8	6.4	15.87	16	16.2	18.6	23.1	29.9	19.00
STRF-8M-4N	8	20.64	1/4	6.4	17.46	16	16.2	18.6	23.1	30.6	22.40
STRF-8M-6N	8	20.64	1/4	6.4	20.64	16	16.2	18.6	25.2	32.4	22.40
STRF-8M-8N	8	20.64	1/2	6.4	25.40	16	16.2	18.6	28.0	35.2	28.40
STRF-10M-2N	10	25.40	1/8	7.9	17.46	19	17.2	19.5	23.9	31.5	19.00
STRF-10M-4N	10	25.40	1/4	7.9	20.64	19	17.2	19.5	25.9	33.5	22.40
STRF-10M-6N	10	25.40	3/8	7.9	20.64	19	17.2	19.5	25.9	33.5	22.40
STRF-10M-8N	10	25.40	1/2	7.9	25.40	19	17.2	19.5	28.7	36.1	28.40
STRF-12M-4N	12	30.48	1/4	9.5	20.64	22	22.8	22.0	25.9	36.0	22.40
STRF-12M-6N	12	30.48	3/8	9.5	20.64	22	22.8	22.0	25.9	36.2	22.35
STRF-12M-8N	12	30.48	1/2	9.5	25.40	22	22.8	22.0	28.7	38.8	28.40
STRF-16M-8N	16	40.64	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

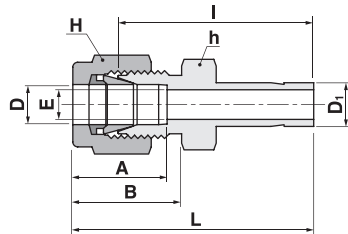
Part No.	Tube O.D		T	E	Width across flat				A	B	I	L	L ₁
	D				h		H						
	in	mm	N(NPT)	Min.	in	mm	in	mm					
STBF-2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.03	24.63	19.05
STBF-2-4N	1/8	3.17	1/4	2.28	11/16	17.46	7/16	11.11	12.70	15.24	20.82	27.43	22.35
STBF-3-2N	3/16	4.76	1/8	3.04	1/2	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	T	E	Width across flat		A	B	I	L	L ₁
	D	N(NPT)	Min.	h	H					
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



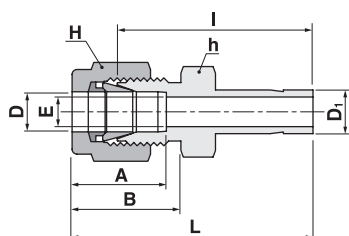
Connects fractional tube to fractional S-LOK port

Part No.	Tube O.D				E	Width across flat				A	B	I	L
	D		D ₁			h		H					
	in	mm	in	mm		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 fractional S-LOK port



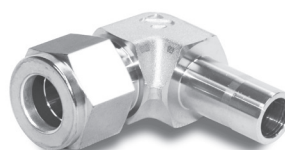
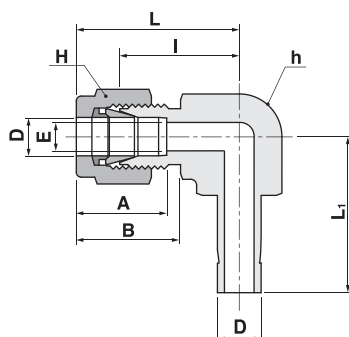
Part No.	Tube O.D			E	Width across flat		A	B	I	L
	D	D ₁			h	H				
		in	mm							
SR-2M-2	2	1/8	3.17	1.7	12	12	12.9	15.3	26.9	33.5
SR-3M-2	3	1/8	3.17	2.0	12	12	12.9	15.3	26.9	33.5
SR-3M-4	3	1/4	6.35	2.4	12	12	12.9	15.3	39.5	36.1
SR-4M-4	4	1/4	6.35	2.4	12	12	13.7	16.1	30.5	37.1
SR-6M-2	6	1/8	3.17	2.0	14	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		E Min.	Width across flat		A	B	I	L
	D	D ₁		h	H				
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



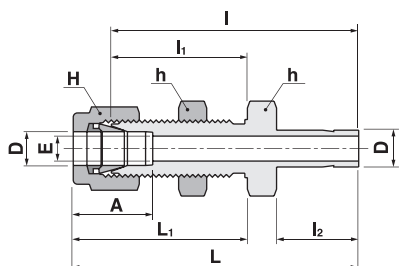
Connects fractional tube to fractional S-LOK port

Part No.	Tube O.D		E	Width across flat				A	B	I	L	L ₁
	D			h		H						
	in	mm		Min	in	mm	in					
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

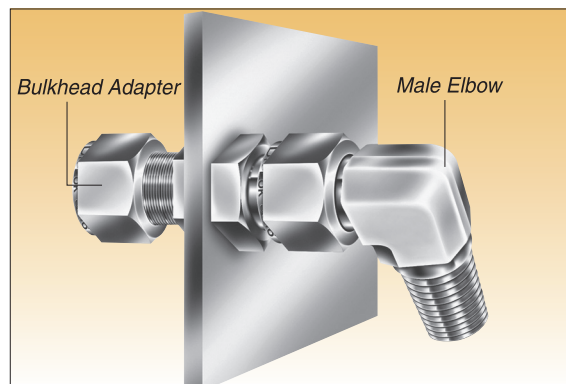
Connects metric tube to metric S-LOK port

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

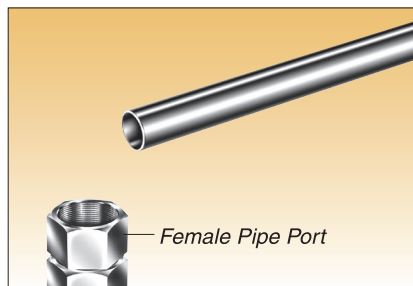
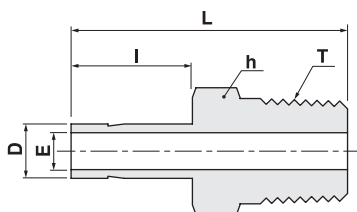
Connects fractional tube to fractional S-LOK port

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

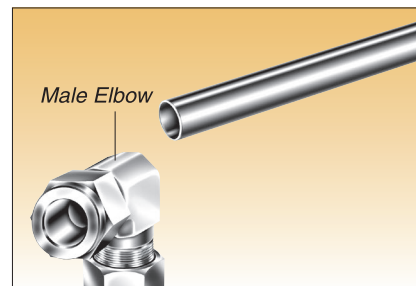
Male Adapter

SAM

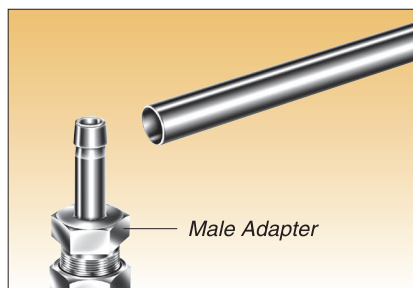
S-LOK Adapter eliminates alignment problems



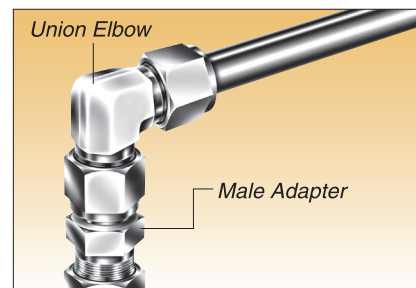
In the direction shown the female port is required to connect with tubing.



The male elbow is positioning in the wrong direction.



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

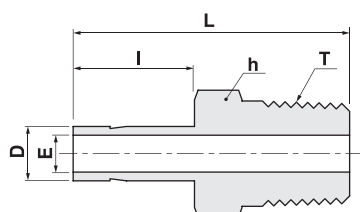


Connect a union elbow to the adapter by tightening the S-LOK port with a wrench while holding the elbow wrench pad in the desired direction

Connects metric tube to female ISO taper thread

Part No.	Tube O.D	T	E	Width across flat	I	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

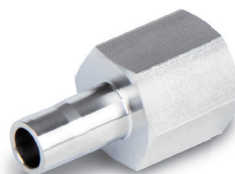
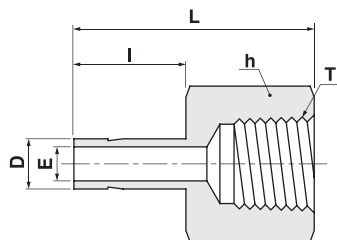
SAM

Connects fractional tube to female NPT thread

Part No.	Tube O.D		T	E	Width across flat		I	L
	D				h			
	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 Adapter

SAF



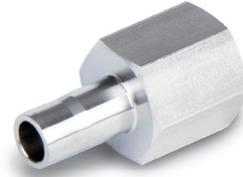
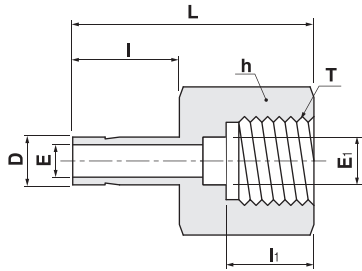
Connects fractional tube to male NPT thread

Part No.	Tube O.D		T	E	Width across flat		I	L
	in	mm			h	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		I	L
	D	R(PT)			h	mm		
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

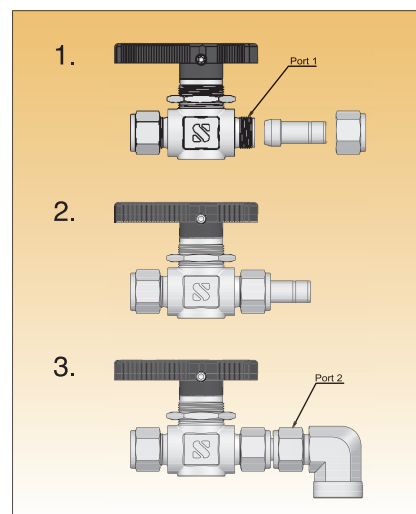
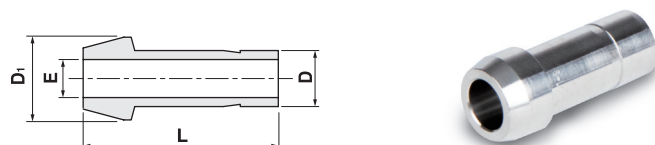
Part No.	Tube O.D		T	E	E ₁	Width across flat		I	I ₁	L
	D					h				
	in	mm		G(PF)			Min.			
SAF-4-2G	1/4	6.35	1/8	4.31	4.57	9/16	14.28	15.75	12.0	32.00
SAF-4-4G	1/4	6.35	1/4	4.31	5.50	3/4	19.05	15.75	12.9	35.30
SAF-6-6G	3/8	9.52	3/8	6.50	6.50	7/8	22.22	17.50	16.0	39.37
SAF-8-8G	1/2	12.70	1/2	9.40	7.00	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	I	I 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 S-LOK port 1 and set nut only(no ferrules) over the port connector
2. Tighten the nut with wrench until sharp rise in torque is felt
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

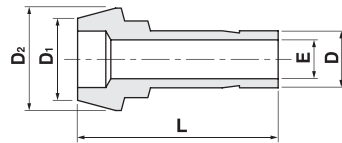
Part No.	Tube O.D		E	D ₁	L
	D				
	in	mm	Min		
SCP-1	1/16	1.59	1.00	3.30	13.72
SCP-2	1/8	3.17	2.03	6.09	22.35
SCP-4	1/4	6.35	4.31	9.39	24.64
SCP-5	5/16	7.93	5.58	10.92	25.90
SCP-6	3/8	9.52	6.86	12.70	26.16
SCP-8	1/2	12.70	9.40	15.74	35.81
SCP-12	3/4	19.05	14.73	22.09	37.33
SCP-16	1	25.40	20.32	28.44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

Connects two metric S-LOK ports

Part No.	Tube O.D		E	D ₁	L
	D				
			Min		
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



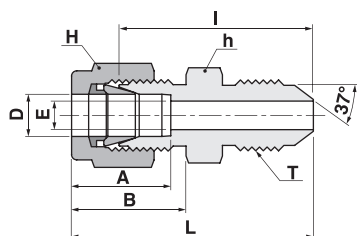
Connects two fractional S-LOK ports

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	D ₁			
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

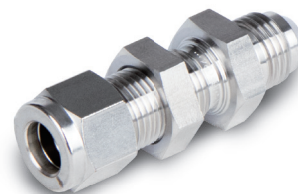
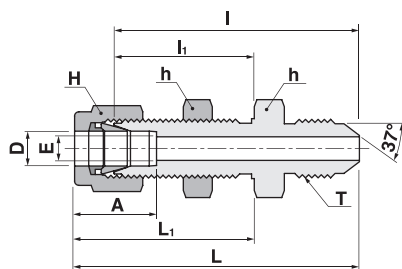
AN Union
SUA



Connects fractional tube to AN flared tube

Part No.	Tube O.D		AN Tube Flare Size		Straight Thread	E	Width across flat				A	B	I	L
	D						h		H					
	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

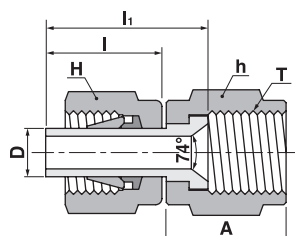
AN Bulkhead Union

SUBA

Connects fractional tube to AN flared tube

Part No.	Tube O.D		AN Tube Flare Size		Straight Thread	E	Width across flat				A	I	I ₁	L	L ₁	Panel Hole Drill Size	Panel Max. Thickness
	D						h		H								
	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		AN Tube Flare Size		Straight Thread	Width across flat				A	I	I ₁
	D					h		H				
	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

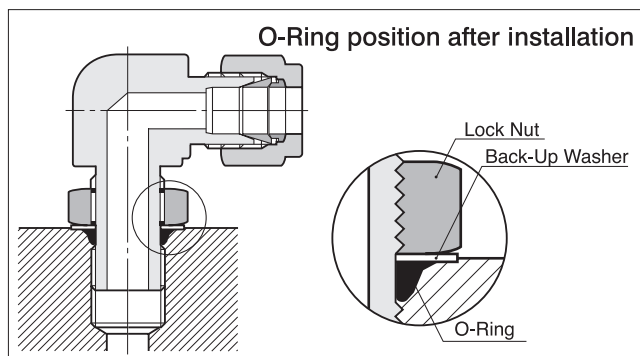
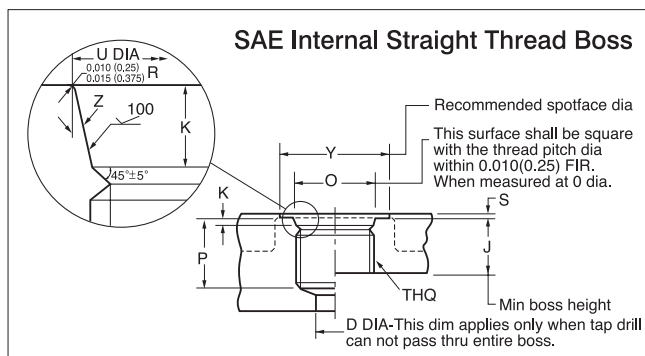
S-LOK SAE straight O-Ring seal fittings are of positionable feature and provide connection tube to straight thread boss. Further this has an advantage of eliminating welding and brazing process when used as bulkhead fitting on thin wall tanks or vessels.

These fittings are designed and manufactured to SAE standards 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 SAE J1926. See diagram below.



Details of SAE Internal Straight Thread Boss

Nominal Tube O.D	Thread Size	D Min.	J Min.	K (±0.2)	O Min.	P ^d Min.	U ^a ()	Y ^c	S ^{bc} Max	Z (±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°

- 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 permissible.
- This is the maximum recommended spotface depth to permit sufficient wrench grip for the proper tightening of the fitting or locknut.
- 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.
- 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.

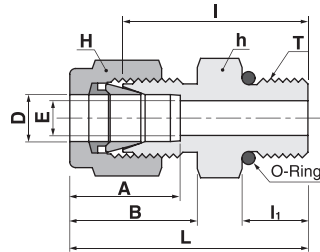
O-ring and straight thread size for SAE fitting bosses

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 raised.
- 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 wrench, hold the wrench pad and tighten the locknut until the washer is set against the face of the boss.

SAE Male Connector

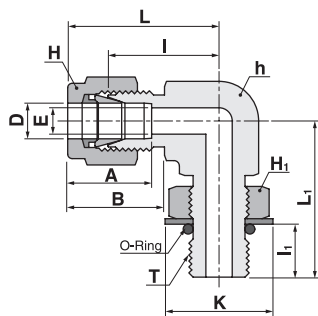
SMCS

Connects fractional tube to SAE straight thread boss

Part No.	Tube O.D		Straight Thread	E	Width across flat				A	B	I	I ₁	L	O-Ring Uniform Size No.
	D				h		H							
	in	mm			T	Min.	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

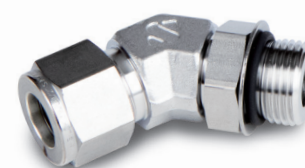
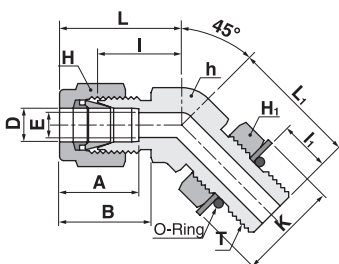


Connects fractional tube to SAE straight thread boss

Part No.	Tube O.D		Straight Thread	E	Width across flat						A	B	I	I ₁	L	L ₁	K	O-Ring Uniform Size No.
	D				h		H		H ₁									
	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

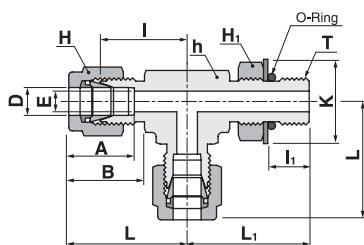


Connects fractional tube to SAE straight thread boss

Part No.	Tube O.D		Straight Thread	E	Width across flat						A	B	I	I ₁	L	L ₁	K	O-Ring Uniform Size No.
	D				h		H		H ₁									
	in	mm			T	Min.	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

Positionable
SAE Male Run Tee

STRS

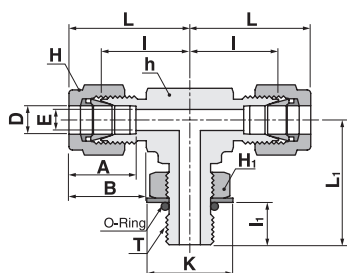


Connects fractional tube to SAE straight thread boss

Part No.	Tube O.D		Straight Thread	E	Width across flat						A	B	I	I ₁	L	L ₁	K	O-Ring Uniform Size No.
	D				h		H		H ₁									
	in	mm			T	Min.	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



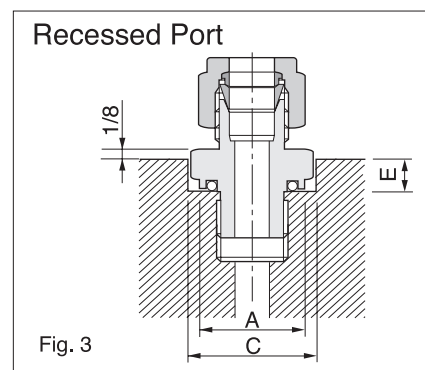
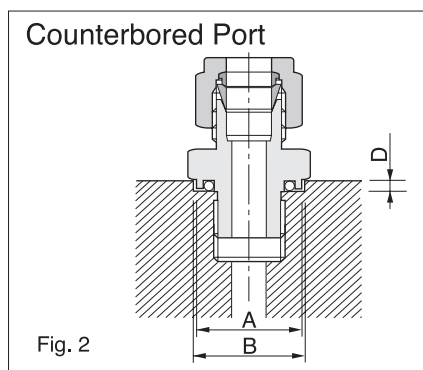
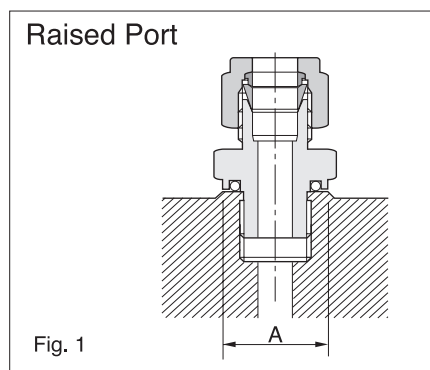
Connects fractional tube to SAE straight thread boss

Part No.	Tube O.D		Straight Thread	E	Width across flat						A	B	I	I ₁	L	L ₁	K	O-Ring Uniform Size No.
	D				h		H		H ₁									
	in	mm			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.



Mounting Dimensions for O-seal connectors

S-LOK Part No.	Straight Thread	Pipe Thread	Diameter						Depth			
			A		B		C		D		E	
			Min.	Min.	Min.	Min.	Min.	Min.	Max.	Max.	Max.	Max.
			in	mm	in	mm	in	mm	in	mm	in	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:

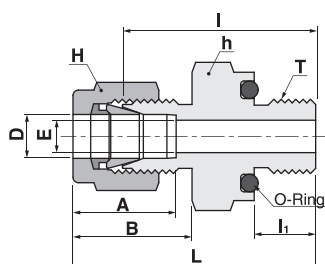
1. Hand-tighten it until the squeeze on the O-Ring can be felt during the last 1/4 turn
2. Snug the fitting lightly with a wrench

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

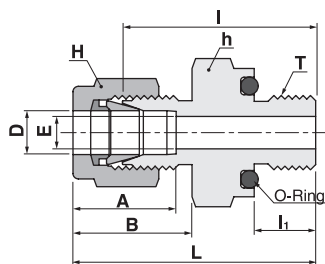


Connects fractional tube to straight thread

Part No.	Tube O.D		Straight Thread	E	Width across flat				A	B	I	I ₁	L	O-Ring Unifom Size No.
	D				h		H							
	in	mm			T	Min.	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



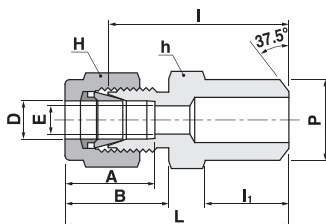
Connects fractional tube to NPT thread

Part No.	Tube O.D		T	E	Width across flat				A	B	I	I ₁	L	O-Ring Uniform Size No.
	D				h		H							
	in	mm			*(NPT)	Min.	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 paralld threads are available upon request.

**Male Pipe
Weld Connector**

SCW

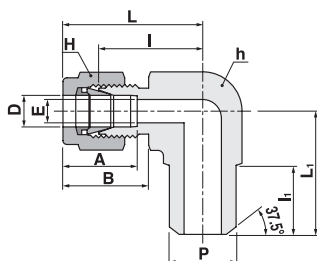


Connects fractional tube to pipe

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		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

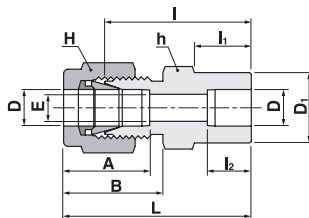
Connects metric tube to pipe

Part No.	Tube O.D	Male Pipe Size		E	Width across flat			A	B	I	I	L
	D	P			h	H						
		NPS	O.D				Min.					
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**

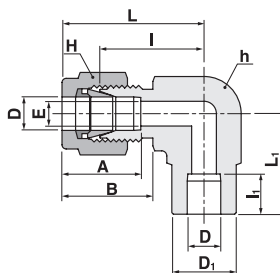
Connects fractional tube to pipe

Part No.	Tube O.D		Male Pipe Size		E	Width across flat				A	B	I	I ₁	L	L ₁
	D		P			h		H							
	in	mm	NPS	O.D		Min.	in	mm	in						
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

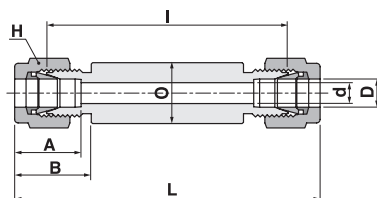
Part No.	Tube O.D		E	D ₁	Width across flat				A	B	I	I ₁	I ₂	L
	D				h		H							
	in	mm			Min.	in	mm	in						
SCSW-2-2	1/8	3.17	2.28	7.87	7/16	11.11	7/16	11.11	12.70	15.24	22.35	8.63	6.35	28.95
SCSW-4-4	1/4	6.35	4.82	11.17	1/2	12.70	9/16	14.28	15.24	17.78	26.16	10.41	7.87	33.52
SCSW-6-6	3/8	9.52	7.11	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		E	D _i	Width across flat				A	B	I	I _i	L	L _i
	D				h		H							
	in	mm			Min.	in	mm	in						
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**



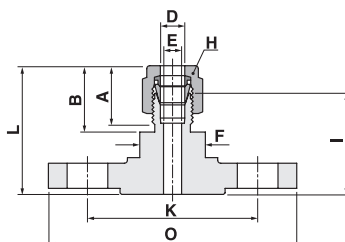
Connects fractional Tubes

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
SBUW-4M	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.		ANSI Flange		E	H		A	B	F	L	I	K	O
	in	mm	NPS	Class		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.		DIN Flange		E	H	A	B	F	L	I	K	O
	D	DN	min										
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		

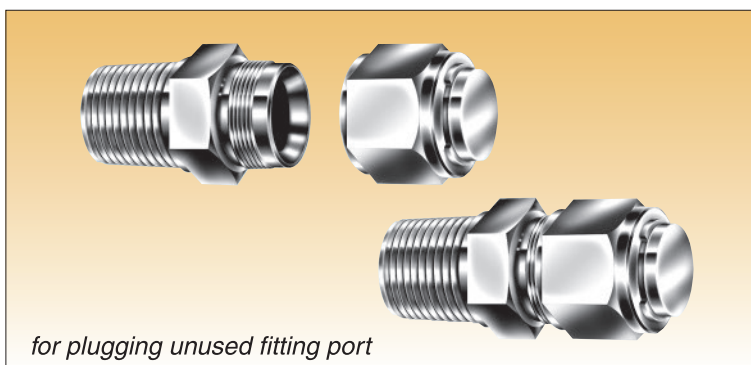
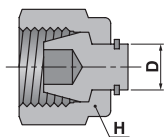
Connects fractional Tube to JIS10K Flanges

Part No,	Tube O.D.		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.		JIS Flange		E	H	A	B	F	L	I	K	O
	D	DN	min										
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



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)

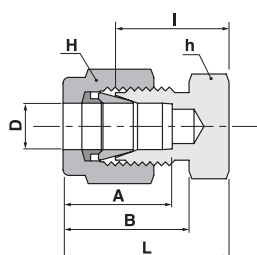
fractional

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

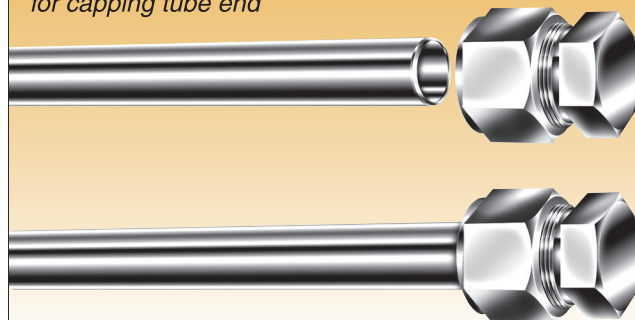
metric

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



for capping tube end



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

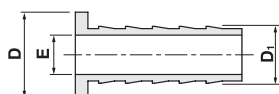
Part No.	Tube O.D.		Width across flat				A	B	I	L
	D		h		H					
	in	mm	in	mm	in	mm				
SC-1	1/16	1.59	5/16	7.93	5/16	7.93	8.63	10.92	11.20	14.18
SC-2	1/8	3.17	7/16	11.11	7/16	11.11	12.70	15.24	13.46	20.06
SC-3	3/16	4.76	7/16	11.11	1/2	12.70	13.71	16.00	14.73	21.33
SC-4	1/4	6.35	1/2	12.70	9/16	14.28	15.24	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

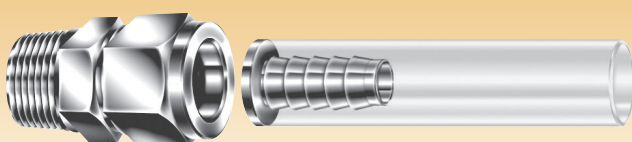
Part No.	Tube O.D. D	Width across flat		A	B	I	L
		h	H				
SC-2M	2	12	12	12.9	15.3	13.5	20.1
SC-3M	3	12	12	12.9	15.3	13.5	20.1
SC-4M	4	12	12	13.7	16.1	14.7	21.3
SC-6M	6	14	14	15.3	17.7	15.7	23.1
SC-8M	8	15	16	16.2	18.6	17.0	24.5
SC-10M	10	18	19	17.2	19.5	19.0	26.6
SC-12M	12	22	22	22.8	22.0	19.0	29.1
SC-15M	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

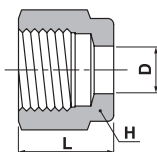
Part No.	Tube O.D.		Tube I.D.		E
	D		D _i		
	in	mm	in	mm	
SI-3-2	3/16	4.76	1/8	3.17	2.28
SI-4-2	1/4	6.35	1/8	3.17	2.28
SI-4-3	1/4	6.35	3/16	4.76	3.55
SI-5-2	5/16	7.93	1/8	3.17	2.28
SI-5-3	5/16	7.93	3/16	4.76	3.04
SI-5-4	5/16	7.93	1/4	6.35	4.82
SI-6-3	3/8	9.52	3/16	4.76	3.04
SI-6-4	3/8	9.52	1/4	6.35	4.82
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.	Tube I.D.	E
	D	D ₁	
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



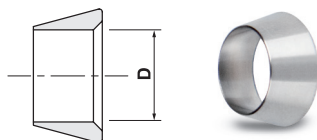
fractional

Part No.	Tube O.D.		Width across flat		L
	D		H		
	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.	Width across flat	L
	D	H	
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

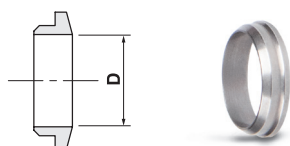
SFF*fractional*

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*

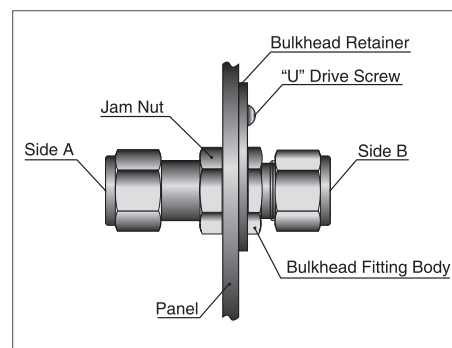
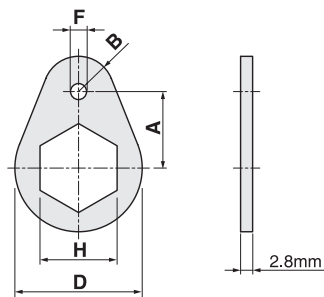
Part No.	Tube O.D.	
	in	mm
SFS10-1	1/16	1.59
SFS10-2	1/8	3.17
SFS10-3	3/16	4.76
SFS10-4	1/4	6.35
SFS10-5	5/16	7.93
SFS10-6	3/8	9.52
SFS10-8	1/2	12.70
SFS10-10	5/8	15.87
SFS10-12	3/4	19.05
SFS10-14	7/8	22.22
SFS10-16	1	25.40

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

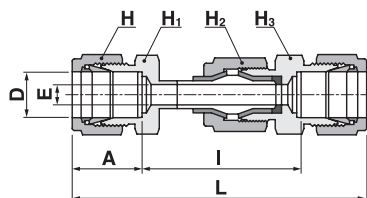


Connects fractional Tube

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 min	A	L	ℓ	H		H ₁		H ₂		H ₃	
	in	mm						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

- Electrical resistance of insulators at 70°F (20°C): 10 x 10⁶ 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

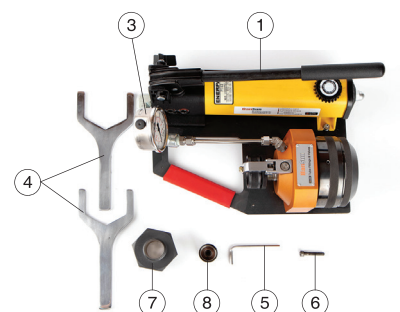
1. Open the vent valve of the hand pump by turning it counterclockwise.
2. Connect the hose to the hand pump and swaging head.
3. Turn the jig and die you want to use on the swaging head clockwise to fasten.
4. Tighten the die to the swaging head with Y wrench.
5. Tighten the bolt tightly with L wrench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

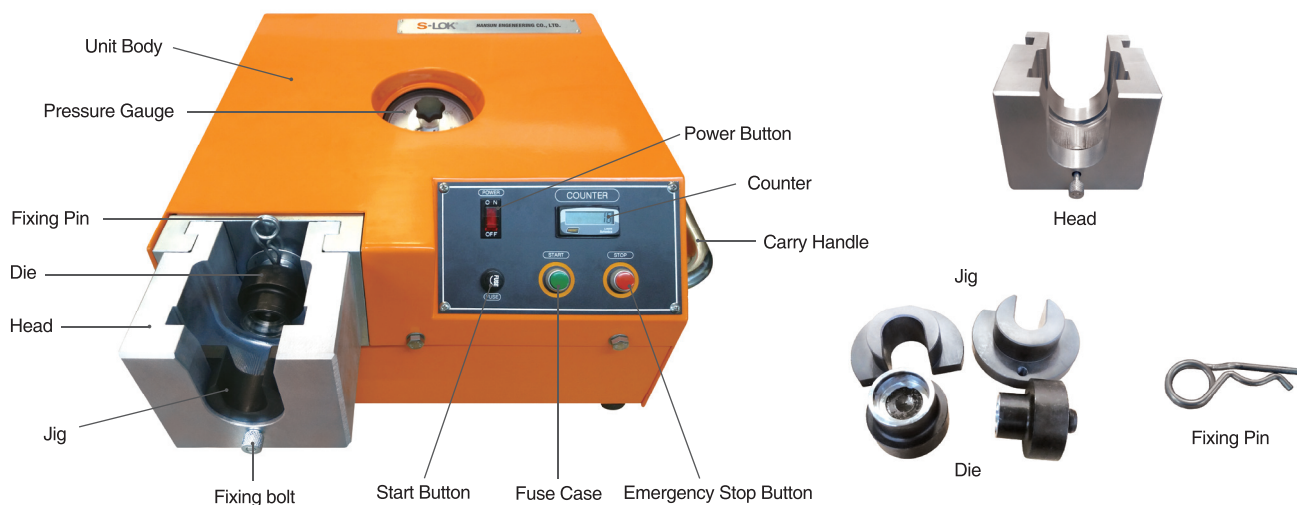
No.	Part Name
1	Hand Pump
2	Swaging Head
3	Pressure Gauge
4	Y Wrench
5	L Wrench
6	Bolt
7	Jig
8	Die

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

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

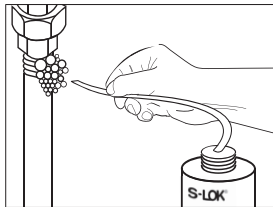
S-detec

- **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-corrosive, non-flammable 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.

S-LOK[®]