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Leak - Proof Flow & Control Solution Partner

The Best Partner
for Value Creation

S-LOK®

**Micro & Forged Weld Fittings
Metal Gasket Face Seal Fittings**

HanSun

한선엔지니어링(주)
HANSUN ENGINEERING CO., LTD.

Technical data of Weld Fittings

Features

- * Compact design for mainly gas line of Semiconductor, FPD and other Industries.
- * End Connection Type
 - TBW (Tube Butt Weld) by manual
 - ATW (Automatic Tube Butt Weld) (Option)
- * 1/4 to 1 inch and 6 to 18 mm available



Pressure Ratings

- * ASME B31.1 & B31.3
- * Pressure ratings are also determined by temperature derating factors up to 1000°F (537°C).

Inside Surface Finishes

Grade	Designator	Ra (μm/μin)	Material
BA	B	0.25/10	S316L (S6L)
EP	E	0.13/5	S316L VOD or VAR (S6LV)

Materials

Material	Designator	Bar Stock	Forged
S316L	S6L	ASTM A276 ASTM A479 ASME SA479	ASTM A182 ASME SA182
Single Melting S316L (VOD or VAR)	S6LV		

- * Detail. specifications are to be ordered based on SEMI F20-0706E (GP, HP, UHP).
- * S316L VIM/VAR (Double Melting) is also available.
- * 20% min elongation allowed

Cleaning & Packing

- * Maker standards are applied according to the application.

How to order

Ordering Number

Material Designator

Surface Finish Designator

- * S316L : S6L
- * S316L Simple Melt : S6LV (VOD or VAR)
- * S316L Double Melt : S6LVV (VIM/VAR)

- * BA : B
- * EP : E

Special Notice

- * When ordering, customers should notify the kinds of gas or chemical for proper selection of material type.

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Micro Weld Fittings



Micro 90°
Union Elbow
SMF-MUL 4



Micro 90° Reducing
Union Elbow
SMF-MULR 4



Micro 45° Union
Elbow
SMF-MULS 4



Micro Union Tee
SMF-MUT 4



Micro Reducing
Union Tee
SMF-MUTR 5



Micro Union Cross
SMF-MUX 5



Micro Union Tribow
SMF-MUTB 5



Micro Reducer
SMF-MUR 5

Forged Weld Fittings



90° Union Elbow
SMF-UL 6



90° Reducing Union
Elbow
SMF-ULR 6



Union Tee
SMF-UT 6



Reducing Union Tee
SMF-UTR 7



Union Cross
SMF-UTX 7

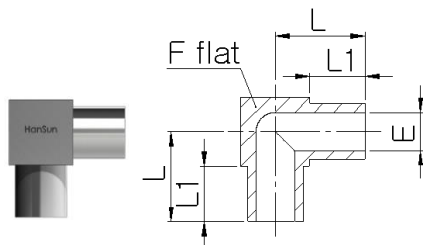


Reducer
SMF-UR 7

Micro Weld Fitting

► Micro 90° Union Elbow

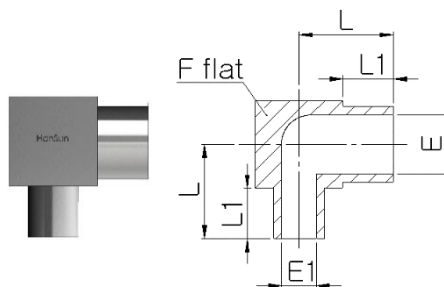
SMF-MUL



Ordering Number	Tube O.D.	E	L	L1	F
SMF-MUL-4T	1/4	4.35	10.32	6.35	7.94
SMF-MUL-6T	3/8	7.53	11.91	6.35	11.11
SMF-MUL-8T	1/2	10.22	13.5	6.35	14.29
SMF-MUL-12T	3/4	15.75	16.68	6.35	20.65

► Micro 90° Reducing Union Elbow

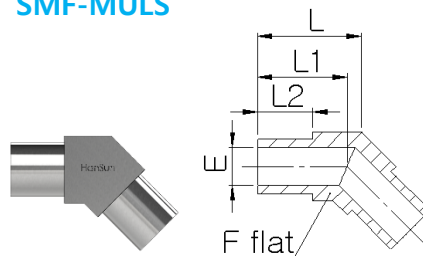
SMF-MULR



Ordering Number	Tube O.D.	Tube O.D.	E	E1	L	L1	F
SMF-MULR-6T-4T	3/8	1/4	7.53	4.35	11.91	6.35	11.11
SMF-MULR-8T-4T	1/2	1/4	10.22	4.35	13.5	6.35	14.29
SMF-MULR-8T-6T	1/2	3/8	10.22	7.53	13.5	6.35	14.29
SMF-MULR-12T-4T	3/4	1/4	15.75	4.35	16.68	6.35	20.65
SMF-MULR-12T-6T	3/4	3/8	15.75	7.53	16.68	6.35	20.65
SMF-MULR-12T-8T	3/4	1/2	15.75	10.22	16.68	6.35	20.65

► Micro 45° Union Elbow

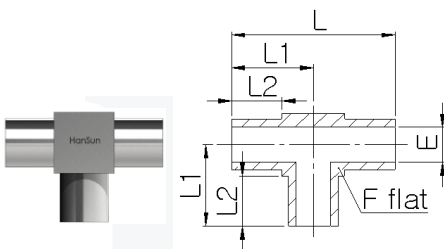
SMF-MULS



Ordering Number	Tube O.D.	E	L	L1	L2	F
SMF-MULS-4T	1/4	4.35	11.96	10.32	6.35	7.94
SMF-MULS-6T	3/8	7.53	14.21	11.91	6.35	11.11
SMF-MULS-8T	1/2	10.22	16.46	13.5	6.35	14.29
SMF-MULS-12T	3/4	15.75	20.95	16.68	6.35	20.65

► Micro Union Tee

SMF-MUT

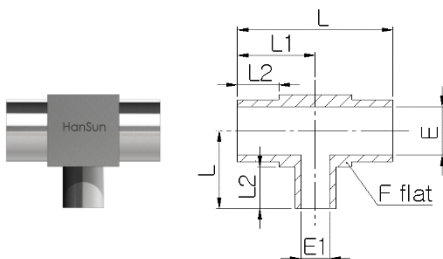


Ordering Number	Tube O.D.	E	L	L1	L2	F
SMF-MUT-4T	1/4	4.35	20.64	10.32	6.35	7.94
SMF-MUT-6T	3/8	7.53	23.81	11.91	6.35	11.11
SMF-MUT-8T	1/2	10.22	26.99	13.5	6.35	14.29
SMF-MUT-12T	3/4	15.75	33.35	16.68	6.35	20.65

Micro Weld Fitting

► Micro Reducing Union Tee

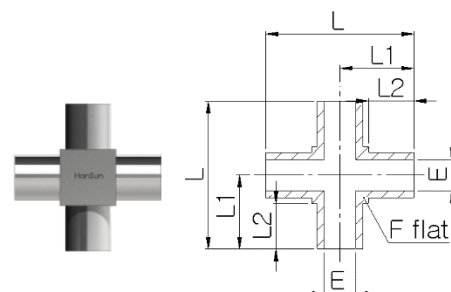
SMF-MUTR



Ordering Number	Tube O.D.	Tube O.D.	E	E1	L	L1	L2	F
SMF-MUTR-6T-4T	3/8	1/4	7.53	4.35	23.81	11.91	6.35	11.11
SMF-MUTR-8T-4T	1/2	1/4	10.22	4.35	26.99	13.5	6.35	14.29
SMF-MUTR-8T-6T	1/2	3/8	10.22	7.53	26.99	13.5	6.35	14.29
SMF-MUTR-12T-4T	3/4	1/4	15.75	4.35	27	16.68	6.35	20.65
SMF-MUTR-12T-6T	3/4	3/8	15.75	7.53	27	16.68	6.35	20.65
SMF-MUTR-12T-8T	3/4	1/2	15.75	10.22	27	16.68	6.35	20.65

► Micro Union Cross

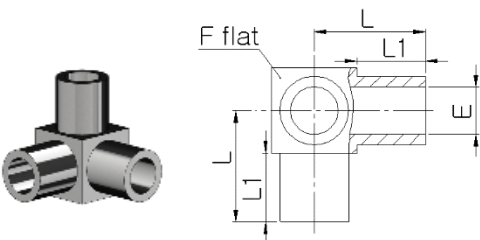
SMF-MUX



Ordering Number	Tube O.D.	E	L	L1	L2	F
SMF-MUX-4T	1/4	4.35	20.64	10.32	6.35	7.94
SMF-MUX-6T	3/8	7.53	23.81	11.91	6.35	11.11
SMF-MUX-8T	1/2	10.22	26.99	13.5	6.35	14.29
SMF-MUX-12T	3/4	15.75	33.35	16.68	6.35	20.65

► Micro Union Tribow

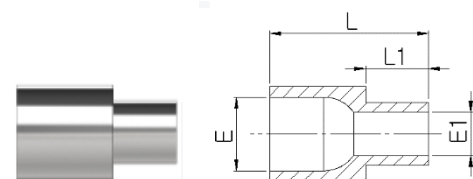
SMF-MUTB



Ordering Number	Tube O.D.	E	L	L1	F
SMF-MUTB-4T	1/4	4.35	10.32	6.35	7.94
SMF-MUTB-6T	3/8	7.53	11.91	6.35	11.11
SMF-MUTB-8T	1/2	10.22	13.5	6.35	14.29
SMF-MUTB-12T	3/4	15.75	16.68	6.35	20.65

► Micro Reducer

SMF-MUR

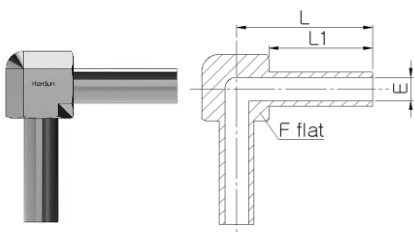


Ordering Number	Tube O.D.	Tube O.D.	E	E1	L	L1
SMF-MUR-6T-4T	3/8	1/4	7.53	4.35	19.1	6.35
SMF-MUR-8T-4T	1/2	1/4	10.22	4.35	19.1	6.35
SMF-MUR-8T-6T	1/2	3/8	10.22	7.53	19.1	6.35
SMF-MUR-12T-4T	3/4	1/4	15.75	4.35	19.1	6.35
SMF-MUR-12T-6T	3/4	3/8	15.75	7.53	19.1	6.35
SMF-MUR-12T-8T	3/4	1/2	15.75	10.22	19.1	6.35

Forged Weld Fitting

► 90° Union Elbow

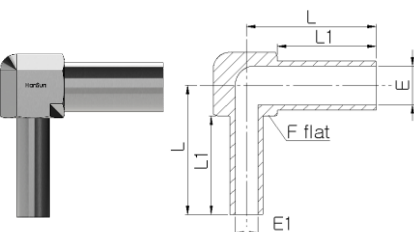
SMF-UL



Ordering Number	Tube O.D.	E	L	L1	F
SMF-UL-4T-250	1/4	4.35	25	19.05	11.1
SMF-UL-6T-250	3/8	7.53	25	19.05	11.1
SMF-UL-8T-290	1/2	10.22	29	19.05	17
SMF-UL-4T-159	1/4	4.35	15.9	10	11.1
SMF-UL-6T-159	3/8	7.53	15.9	10	11.1
SMF-UL-8T-199	1/2	10.22	19.9	10	17
SMF-UL-12T-224	3/4	15.75	22.4	10	25
SMF-UL-12T-335	3/4	15.75	33.5	22.5	25
SMF-UL-16T-385	1	22.1	38.5	23.3	30

► 90° Union Reducing Union Elbow

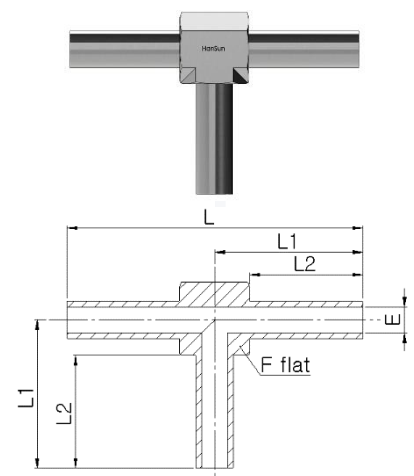
SMF-ULR



Ordering Number	Tube O.D.	Tube O.D.	E	E1	L	L1	F
SMF-ULR-6T-4T	3/8	1/4	7.53	4.35	25	19.05	11.1
SMF-ULR-8T-4T	1/2	1/4	10.22	4.35	29	19.05	17
SMF-ULR-8T-6T	1/2	3/8	10.22	7.53	29	19.05	17
SMF-ULR-12T-4T	3/4	1/4	15.75	4.35	34	22.5	25
SMF-ULR-16T-8T	1	1/2	22.1	10.22	38.3	23.3	30

► Union Tee

SMF-UT

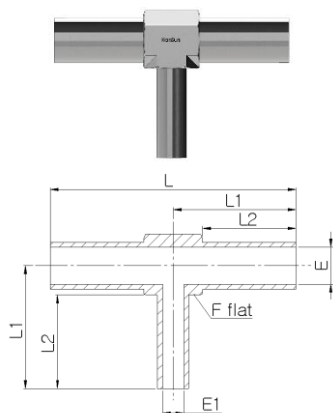


Ordering Number	Tube O.D.	E	L	L1	L2	F
SMF-UT-4T-500	1/4	4.35	50	25	19.05	11.1
SMF-UT-6T-500	3/8	7.53	50	25	19.05	17.2
SMF-UT-8T-580	1/2	10.22	58	29	19.05	17.2
SMF-UT-4T-318	1/4	4.35	31.8	15.9	10	11.1
SMF-UT-6T-318	3/8	7.53	31.8	15.9	10	17.2
SMF-UT-8T-398	1/2	10.22	39.8	19.9	10	17.2
SMF-UT-12T-448	3/4	15.75	44.8	22.4	10	25
SMF-UT-12T-670	3/4	15.75	67	33.5	22.5	25
SMF-UT-16T-766	1	22.1	76.6	38.3	23.3	30

Forged Weld Fitting

► Reducing Union Tee

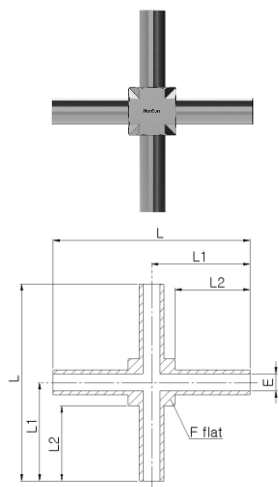
SMF-UTR



Ordering Number	Tube O.D.	Tube O.D.	E	E1	L	L1	L2	F
SMF-UTR-6T-4T-500	3/8	1/4	7.53	4.35	50	25	19.05	11.1
SMF-UTR-8T-4T-580	1/2	1/4	10.22	4.35	58	29	19.05	17.2
SMF-UTR-8T-6T-580	1/2	3/8	10.22	7.53	58	29	19.05	17.2
SMF-UTR-12T-4T-670	3/4	1/4	15.75	4.35	67	33.5	22.5	25
SMF-UTR-12T-6T-670	3/4	3/8	15.75	7.53	67	33.5	22.5	25
SMF-UTR-12T-8T-670	3/4	1/2	15.75	10.22	67	33.5	22.5	25
SMF-UTR-16T-4T-766	1	1/4	23.75	4.35	76.6	38.3	23.3	30
SMF-UTR-16T-8T-766	1	1/2	23.75	10.22	76.6	38.3	23.3	30
SMF-UTR-6T-4T-318	3/8	1/4	7.53	4.35	31.8	15.9	10	11.1
SMF-UTR-6T-4T-398	1/2	1/4	10.22	4.35	39.8	19.9	10	17
SMF-UTR-8T-4T-398	1/2	3/8	10.22	7.53	39.8	19.9	10	17
SMF-UTR-8T-6T-448	3/4	1/4	15.75	4.35	44.8	22.4	10	25
SMF-UTR-6T-4T-448	3/4	3/8	15.75	7.53	44.8	22.4	10	25

► Union Cross

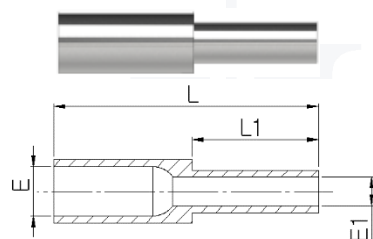
SMF-UTX



Ordering Number	Tube O.D.	E	L	L1	F
SMF-UTX-4T-250	1/4	4.35	25	19.05	11.1
SMF-UTX-6T-250	3/8	7.53	25	19.05	11.1
SMF-UTX-8T-290	1/2	10.22	29	19.05	17
SMF-UTX-12T-315	3/4	15.75	31.5	19.05	25
SMF-UTX-4T-159	1/4	4.35	15.9	10	11.1
SMF-UTX-6T-159	3/8	7.53	15.9	10	11.1
SMF-UTX-8T-199	1/2	10.22	19.9	10	17
SMF-UTX-12T-224	3/4	15.75	22.4	10	25

► Reducer

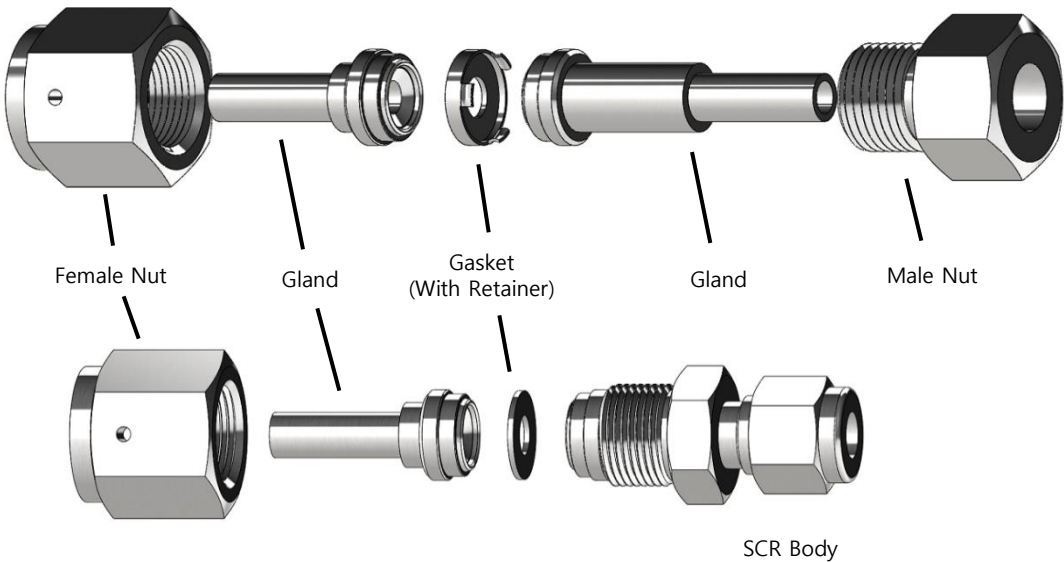
SMF-UR



Ordering Number	Tube O.D.	Tube O.D.	E	E1	L	L1
SMF-UR-6T-4T-381	3/8	1/4	7.53	4.35	38.1	19.05
SMF-UR-8T-4T-381	1/2	1/4	10.22	4.35	38.1	19.05
SMF-UR-8T-6T-381	1/2	3/8	10.22	7.53	38.1	19.05
SMF-UR-12T-4T-429	3/4	1/4	15.75	4.35	42.9	19.05
SMF-UR-12T-6T-429	3/4	3/8	15.75	7.53	42.9	19.05
SMF-UR-12T-8T-429	3/4	1/2	15.75	10.22	42.9	19.05
SMF-UR-6T-4T-200	3/8	1/4	7.53	4.35	20	10
SMF-UR-8T-4T-200	1/2	1/4	10.22	4.35	20	10
SMF-UR-8T-6T-200	1/2	3/8	10.22	7.53	20	10
SMF-UR-12T-4T-200	3/4	1/4	15.75	4.35	20	10
SMF-UR-12T-6T-200	3/4	3/8	15.75	7.53	20	10
SMF-UR-12T-8T-200	3/4	1/2	15.75	10.22	20	10

Technical data of SCR Fittings

Typical SCR Fittings Assemblies



Features

- * Leak tight from vacuum to positive pressure.
- * Standard inside surface finish is 10µin (0.25µm) Ra (Option : 5µin (0.13µm) Ra.)
- * 1/4 to 1inch and 6 to 8mm available.

Materials of Component

Components	Material (Designator)	Spec.
Glands, Bodies	S316L (S6L) - Single Melt S316L VOD or VAR (S6LV) - Double Melt S316L VIM/VAR (S6LVV)	* Bar Stock - ASTM A276 - ASTM A479 - ASME SA479 * Forged - ASTM A182 - ASME SA182 * SEMI F20-0706E for HP and UHP
Nuts, Plugs, Caps	S316L (S6L) or (S6LV)	
Gasket	Nickel (NI)	ASTM F3
	S316L (S6L)	ASTM A240
	Copper (CU)	ASTM B 152

* 20% Min elongation allowed.

Technical data of SCR Fittings

Pressure Ratings

* ASME B31.1 & B31.3

He Leak Testing

- * 4×10^{-9} sccs. (Std cm^3/s) : Silver plating & Copper.
- * 4×10^{-11} sccs. (Std cm^3/s) : Unplated Ni/SS.

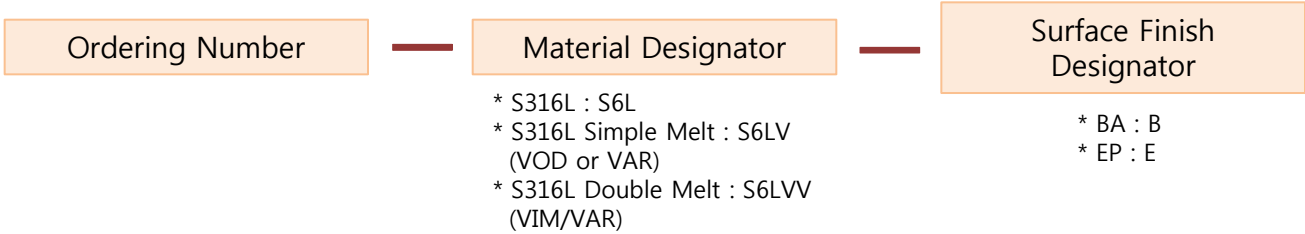
Inside Surface Finishes

Grade	Designator	Ra ($\mu\text{m}/\mu\text{in}$)	Material
BA	B	0.25/10	S316L (S6L)
EP	E	0.13/5	S316L VOD or VAR (S6LV)

Cleaning & Packing

- * Cleaning with 10M Ω DI wafer by Ultrasonic.
- * Packing at cleanroom (class 10 or 100).
- * Anti-Static bags with high purity N₂

How to order



Special Notice

* When ordering, customers should notify the kinds of gas or chemical for proper selection of material type.

Installation Procedure

- Step 1 Inspection of bead and Gasket surface.
- Step 2 Inserting short gland into the female nut at first and gasket on the surface of gland installed in the female nut
- Step 3 Finger tighten
- Step 4 Tighten the female nut with wrench when another wrench hold the male nut or body
 - 1/8 inch : S316L and Ni Gasket
 - 1/4 inch : Copper Gasket

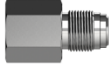
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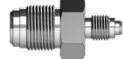
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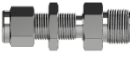
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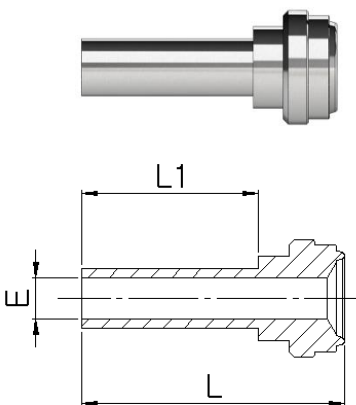
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Gland

► Female Gland

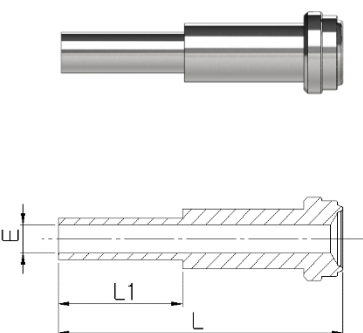
SCR-GFM



Ordering Number	SCR Size	Tube O.D.	E	L	L1
SCR-GFM-2-2T-190	1/8	1/8	1.78	27.4	19.05
SCR-GFM-4-4T-635	1/4	1/4	4.35	15.24	6.35
SCR-GFM-4-4T-100	1/4	1/4	4.35	18.89	10
SCR-GFM-4-4T-190	1/4	1/4	4.35	27.94	19.05
SCR-GFM-8-6T-635	1/2	3/8	7.53	15.75	6.35
SCR-GFM-8-6T-100	1/2	3/8	7.53	19.4	10
SCR-GFM-8-6T-190	1/2	3/8	7.53	28.45	19.05
SCR-GFM-8-8T-635	1/2	1/2	10.22	15.75	6.35
SCR-GFM-8-8T-100	1/2	1/2	10.22	19.4	10
SCR-GFM-8-8T-190	1/2	1/2	10.22	28.45	19.05
SCR-GFM-12-12T-190	3/4	3/4	15.75	34.5	19.05
SCR-GFM-16-16T-190	1	1	22.1	38.8	19.05
SCR-GFM-8-4T-635	1/2	1/4	4.35	15.75	6.35
SCR-GFM-8-4T-100	1/2	1/4	4.35	19.4	10
SCR-GFM-8-4T-190	1/2	1/4	4.35	28.45	19.05

► Male Gland

SCR-GM

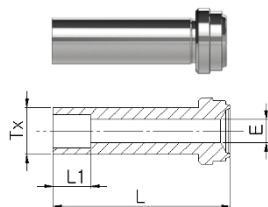


Ordering Number	SCR Size	Tube O.D.	E	L	L1
SCR-GM-2-2T-190	1/8	1/8	1.78	36	19.05
SCR-GM-4-4T-635	1/4	1/4	4.35	30.48	6.35
SCR-GM-4-4T-100	1/4	1/4	4.35	34.13	10
SCR-GM-4-4T-190	1/4	1/4	4.35	43.18	19.05
SCR-GM-8-6T-635	1/2	3/8	7.53	32.77	6.35
SCR-GM-8-6T-100	1/2	3/8	7.53	36.42	10
SCR-GM-8-6T-190	1/2	3/8	7.53	45.47	19.05
SCR-GM-8-8T-635	1/2	1/2	10.22	32.77	6.35
SCR-GM-8-8T-100	1/2	1/2	10.22	36.42	10
SCR-GM-8-8T-190	1/2	1/2	10.22	45.47	19.05
SCR-GM-12-12T-190	3/4	3/4	15.75	51.56	19.05
SCR-GM-16-16T-190	1	1	22.1	58.93	19.05
SCR-GM-8-4T-635	1/2	1/4	4.35	32.77	6.35
SCR-GM-8-4T-100	1/2	1/4	4.35	36.42	10
SCR-GM-8-4T-190	1/2	1/4	4.35	45.47	19.05

Gland

► Socket Weld Gland

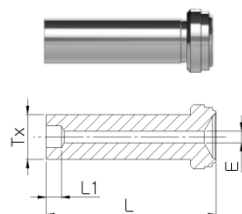
SCR-GSW



Ordering Number	SCR Size	Tube O.D.	E	L	L1	Tx
SCR-GSW-2-2T	1/8	1/8	2.3	17.8	2.5	5.1
SCR-GSW-4-4T	1/4	1/4	4.6	12.7	7.1	8.9
SCR-GSW-4-4T	1/4	1/4	4.6	33.3	7.1	8.9
SCR-GSW-8-6T	1/2	3/8	7.1	38.1	7.9	15.2
SCR-GSW-8-8T	1/2	1/2	10.2	38.1	9.6	15.2
SCR-GSW-12-12T	3/4	3/4	15.7	50.8	11.2	22.4
SCR-GSW-16-16T	1	1	22.1	56.4	15.7	30.2

► Socket Weld Reducing Gland

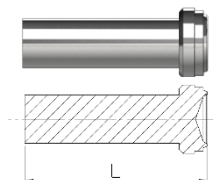
SCR-GSWR



Ordering Number	SCR Size	Tube O.D.	E	L	L1	Tx
SCR-GSWR-4-2T	1/4	1/8	2.3	33.3	2.5	8.9
SCR-GSWR-8-4T	1/2	1/4	4.6	38.1	7.1	15.2

► Blind Gland

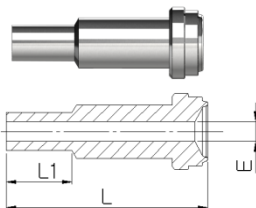
SCR-GB



Ordering Number	SCR Size	L	Ordering Number	SCR Size	L
SCR-GB-2	1/8	17.8	SCR-GB-12	3/4	50.8
SCR-GB-4	1/4	33.3	SCR-GB-16	1	56.4
SCR-GB-8	1/2	38.1			

► Male Weld Gland

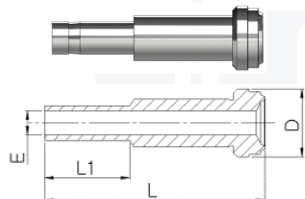
SCR-GMW



Ordering Number	SCR Size	Tube O.D.	E	L	L1
SCR-GMW-2-2T	1/8	1/8	1.5	17.8	7.1
SCR-GMW-4-4T	1/4	1/4	3	33.3	10.4
SCR-GMW-8-6T	1/2	3/8	7.1	38.1	10.4
SCR-GMW-8-8T	1/2	1/2	10.2	38.1	12.7

► Tube Adapter Gland

SCR-GA

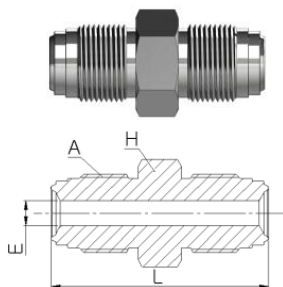


Ordering Number	SCR Size	Tube O.D.	E	L	L1
SCR-GA-4-4T	1/4	1/4	4.3	41	16.2
SCR-GA-6-6T	1/2	3/8	6.8	46	17.8
SCR-GA-6-8T	1/2	1/2	9.4	49.3	24.4

Bodies

► Straight Union Body

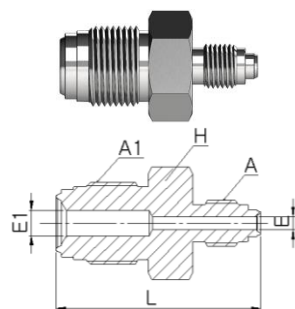
SCR-BU



Ordering Number	SCR Size	A	E	L	H
SCR-BU-2	1/8	5/16-24UNF	2.3	28.7	9.52
SCR-BU-4	1/4	9/16-18UNF	4.35	39.37	15.88
SCR-BU-8	1/2	7/8-14UNF	10.22	46.74	23.81
SCR-BU-12	3/4	1 1/4-18UNEF	15.75	61.98	33.34
SCR-BU-16	1	1 1/2-20UNF	22.1	65.79	41.28

► Reducing Straight Union Body

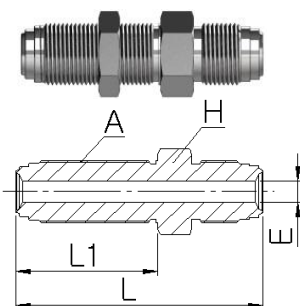
SCR-BUR



Ordering Number	SCR Size	SCR Size	A	A1	E	E1	L	H
SCR-BUR-4-2	1/4	1/8	9/16-18UNF	5/16-24UNF	2.3	4.35	34.8	15.88
SCR-BUR-8-4	1/2	1/4	7/8-14UNF	9/16-18UNF	4.35	10.2	43.4	23.81

► Bulkhead Union Body

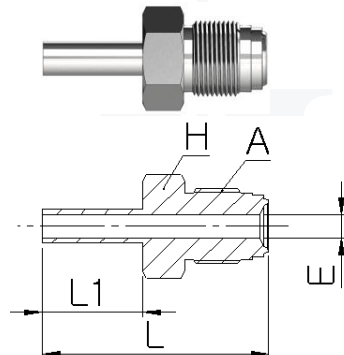
SCR-BBU



Ordering Number	SCR Size	A	E	L	L1	H
SCR-BBU-4	1/4	9/16-18UNF	4.35	56.6	33	19.05
SCR-BBU-8	1/2	7/8-14UNF	10.22	65.25	37.6	26.9
SCR-BBU-12	3/4	1 1/4-18UNEF	15.75	79	43.4	38.1
SCR-BBU-16	1	1 1/2-20UNF	22.1	86	47.1	44.4

► Tube Butt Weld Union Body

SCR-BTBW

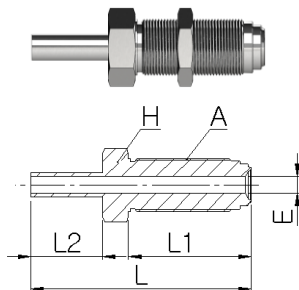


Ordering Number	SCR Size	Tube O.D.	A	E	L	L1	H
SCR-BTBW-4-4T	1/4	1/4	9/16-18UNF	4.35	42.65	19.05	15.88
SCR-BTBW-6-6T	3/8	3/8	7/8-14UNF	10.22	46.7	19.05	23.81
SCR-BTBW-8-8T	1/2	1/2	7/8-14UNF	10.22	46.7	19.05	23.81
SCR-BTBW-12-12T	3/4	3/4	1 1/4-18UNEF	15.75	55.55	19.05	33.34

Bodies

► Tube Butt Weld Bulkhead Union Body

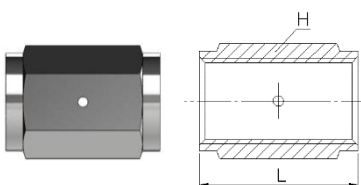
SCR-BTBWB



Ordering Number	SCR Size	Tube O.D.	A	E	L	L1	L2	H
SCR-BTBWB-4-4T	1/4	1/4	9/16-18UNF	4.35	59.85	33	19.05	19.05
SCR-BTBWB-8-8T	1/2	1/2	7/8-14UNF	10.22	65.25	37.6	19.05	26.9
SCR-BTBWB-12-12T	3/4	3/4	1 1/4-18UNEF	15.75	71.3	43.25	19.05	38.1

► Coupling

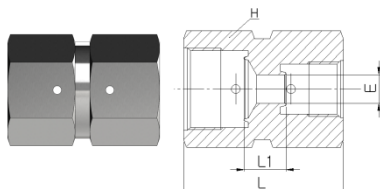
SCR-BCP



Ordering Number	SCR Size	L	H
SCR-BCP-2	1/8	16.8	11.11
SCR-BCP-4	1/4	30.2	19.05
SCR-BCP-8	1/2	33.3	26.98
SCR-BCP-12	3/4	38.1	38.1
SCR-BCP-16	1	44.45	44.45

► Female Reducing Union

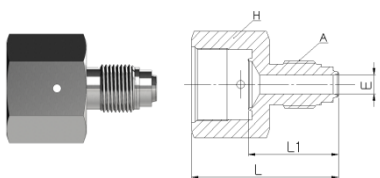
SCR-BFUR



Ordering Number	SCR Size	SCR Size	E	L	L1	F
SCR-BFUR-8-4	1/2	1/4	6.4	35.8	8.9	26.98

► Reducing Adapter

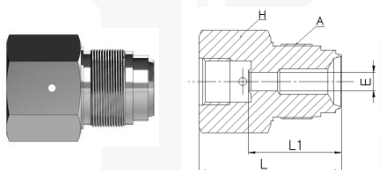
SCR-BAR



Ordering Number	SCR Size	SCR Size	A	E	L	L1	H
SCR-BAR-4-2	1/4	1/8	5/16-24UNF	2.3	30.2	17.5	19.05
SCR-BAR-8-4	1/2	1/4	9/16-18UNF	4.6	35.8	21.6	26.98

► Reducing Bushing

SCR-BBSR

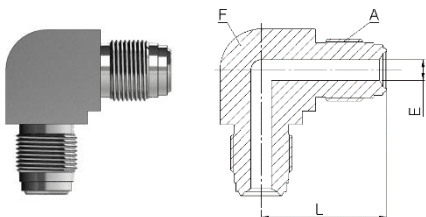


Ordering Number	SCR Size	SCR Size	A	E	L	L1	H
SCR-BAR-4-2	1/8	1/4	9/16-18UNF	3.3	26.9	19.3	19.05
SCR-BAR-8-4	1/4	1/2	7/8-14UNF	6.4	35.8	23.1	23.81

Bodies

► Male Elbow Union Body

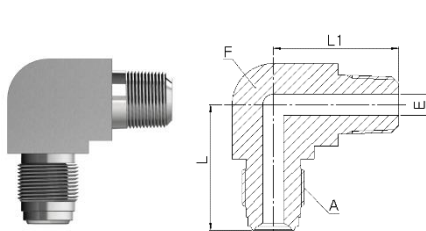
SCR-BL



Ordering Number	SCR Size	A	E	L	F
SCR-BL-4	1/4	9/16-18UNF	4.35	27.18	15.9
SCR-BL-8	1/2	7/8-14UNF	10.22	36.83	23.8
SCR-BL-12	3/4	1 1/4-18UNEF	15.75	48.77	33.3
SCR-BL-16	1	1 1/2-20UNF	22.1	50.8	42.2

► Male Elbow Union Body (PT & NPT Thread)

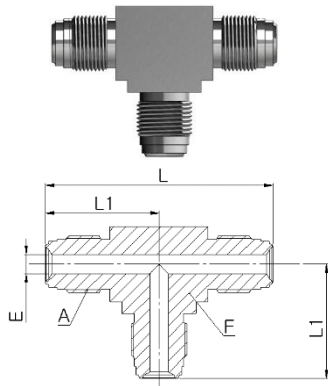
SCR-BLM



Ordering Number	SCR Size	Thread Size	A	E	L	L1	F
SCR-BLM-4-4R	1/4	1/4 PT	9/16-18UNF	4.35	27.18	27.18	15.9
SCR-BLM-8-6R	1/2	3/8 PT	7/8-14UNF	10.22	36.83	32	23.8
SCR-BLM-8-8R	1/2	1/2 PT	7/8-14UNF	10.22	36.83	36.83	23.8
SCR-BLM-12-12R	3/4	3/4 PT	1 1/4-18UNEF	15.75	45.8	43.5	33.3
SCR-BLM-4-4N	1/4	1/4 NPT	9/16-18UNF	4.35	27.18	27.18	15.9
SCR-BLM-8-6N	1/2	3/8 NPT	7/8-14UNF	10.22	36.83	32	23.8
SCR-BLM-8-8N	1/2	1/2 NPT	7/8-14UNF	10.22	36.83	36.83	23.8
SCR-BLM-12-12N	3/4	3/4 NPT	1 1/4-18UNEF	15.75	48.8	43.5	33.3

► Tee Union Body

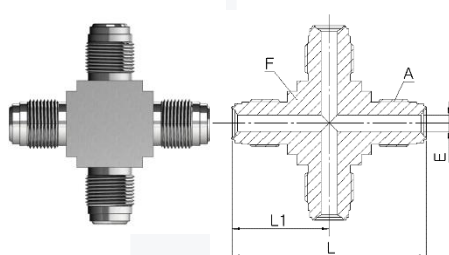
SCR-BT



Ordering Number	SCR Size	A	E	L	L1	F
SCR-BT-4	1/4	9/16-18UNF	4.35	54.36	27.18	15.9
SCR-BT-8	1/2	7/8-14UNF	10.22	73.66	36.83	23.8
SCR-BT-12	3/4	1 1/4-18UNEF	15.75	97.54	48.77	33.3
Scr-BT-16	1	1 1/2-20UNF	22.1	101.6	50.8	42.2

► Cross Union Body

SCR-BX

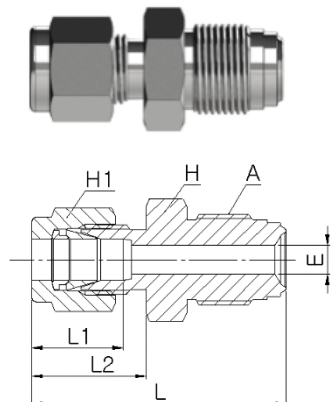


Ordering Number	SCR Size	A	E	L	L1	F
SCR-BX-4	1/4	9/16-18UNF	4.35	54.36	27.18	15.9
SCR-BX-8	1/2	7/8-14UNF	10.22	73.66	36.83	23.8
SCR-BX-12	3/4	1 1/4-18UNEF	15.75	97.54	48.77	33.3
SCR-BX-16	1	1 1/2-20UNF	22.1	101.6	50.8	42.2

Connector

► S-Lok Connector

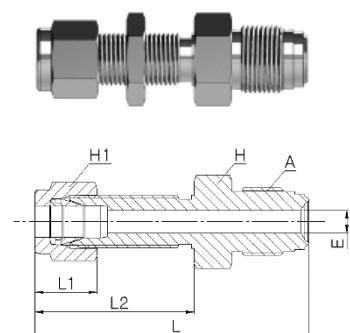
SCR-SMC



Ordering Number	SCR Size	Tube O.D.	A	E	L	L1	L2	H	H1
SCR-SMC-4-4T	1/4	1/4	9/16-18UNF	4.35	41.1	15.2	17.8	15.9	14.29
SCR-SMC-8-6T	1/2	3/8	7/8-14UNF	10.22	46.7	16.8	19.3	23.81	17.46
SCR-SMC-8-8T	1/2	1/2	7/8-14UNF	10.22	49.5	22.9	21.8	23.81	22.23

► S-Lok Bulkhead Connector

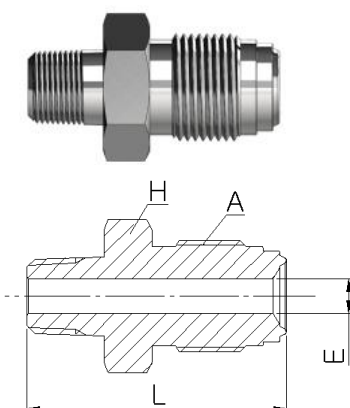
SCR-SMCB



Ordering Number	SCR Size	Tube O.D.	A	E	L	L1	L2	H	H1
SCR-SMCB-4-4T	1/4	1/4	9/16-18UNF	4.6	57.2	15.2	33.5	15.87	14.28
SCR-SMCB-6-6T	1/2	3/8	7/8-14UNF	7.1	64.5	16.8	36.8	23.81	17.46
SCR-SMCB-6-8T	1/2	1/2	7/8-14UNF	10.2	69.6	22.9	41.9	23.81	22.22

► Male Connector (PT & NPT Thread)

SCR-MC

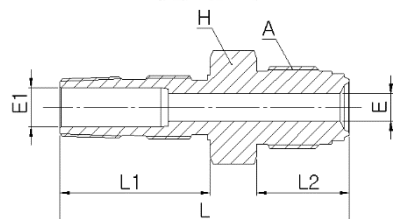


Ordering Number	SCR Size	Thread Size	A	E	L	H
SCR-MC-2-2R	1/8	1/8	5/16-24UNF	2.3	27.2	11.11
SCR-MC-4-4R	1/4	1/4	9/16-18UNF	4.35	37.84	15.9
SCR-MC-8-6R	1/2	3/8	7/8-14UNF	7.44	41.87	23.8
SCR-MC-8-8R	1/2	1/2	7/8-14UNF	10.55	46.74	23.8
SCR-MC-12-12R	3/4	3/4	1 1/4-18UNEF	15.75	55.63	33.3
SCR-MC-16-16R	1	1	1 1/2-20UNF	22.1	62.74	42.2
SCR-MC-2-2N	1/8	1/8	5/16-24UNF	2.3	27.2	11.11
SCR-MC-4-4N	1/4	1/4	9/16-18UNF	4.35	37.84	15.9
SCR-MC-8-6N	1/2	3/8	7/8-14UNF	7.44	41.87	23.8
SCR-MC-8-8N	1/2	1/2	7/8-14UNF	10.55	46.74	23.8
SCR-MC-12-12N	3/4	3/4	1 1/4-18UNEF	15.75	55.63	33.3
SCR-MC-16-16N	1	1	1 1/2-20UNF	22.1	62.74	42.2

Connector

► Male Bulkhead Connector (NPT Thread)

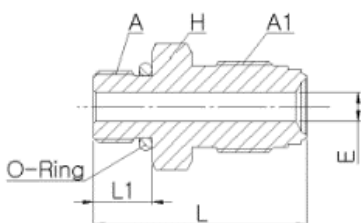
SCR-MBC



Ordering Number	SCR Size	NPT Size	A	E	E1	L	L1	L2	H
SCR-MBC-2-2R	1/4	1/4	9/16-18UNF	2.3	7.1	56.1	31.5	15.7	20.63
SCR-MBC-4-2R	1/2	1/8	7/8-14UNF	4.8	7.1	59.4	31.5	19.1	23.81

► SAE Male Connector (UNF Thread)

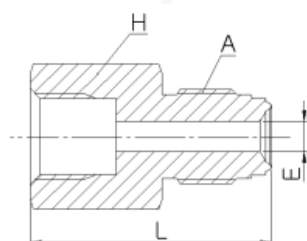
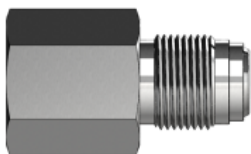
SCR-OMCS



Ordering Number	SCR Size	A (Straight Thread Size)	A1	E	L	L1	H	O-ring Number
SCR-OMCS-4-6U	1/4	9/16-18UNF	9/16-18UNF	4.35	33.8	9.9	19.05	906
SCR-OMCS-8-10U	1/2	7/8-14UNF	7/8-14UNF	10.22	42.2	12.7	25.4	910
SCR-OMCS-12-14U	3/4	1 3/16-12UNF	1 1/4-18UNEF	15.75	51.5	15	34.9	912

► Female Connector (PF & PT & NPT Thread)

SCR-FC

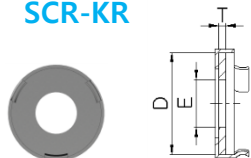


Ordering Number	SCR Size	Thread Size	A	E	L	H
SCR-FC-2-2R	1/8	1/8 PT	5/16-24UNF	2.3	30.2	14.28
SCR-FC-4-4R	1/4	1/4 PT	9/16-18UNF	4.35	39.1	19.05
SCR-FC-8-6R	1/2	3/8 PT	7/8-14UNF	7.44	44.7	23.81
SCR-FC-8-8R	1/2	1/2 PT	7/8-14UNF	10.22	50.5	26.98
SCR-FC-12-12R	3/4	3/4 PT	1 1/4-18UNEF	15.75	59.9	33.33
SCR-FC-16-16R	1	1 PT	1 1/2-20UNF	22.1	63.8	41.27
SCR-FC-2-2N	1/8	1/8 NPT	5/16-24UNF	2.3	30.2	14.28
SCR-FC-4-4N	1/4	1/4 NPT	9/16-18UNF	4.35	39.1	19.05
SCR-FC-8-6N	1/2	3/8 NPT	7/8-14UNF	7.44	44.7	23.81
SCR-FC-8-8N	1/2	1/2 NPT	7/8-14UNF	10.22	50.5	26.98
SCR-FC-12-12N	3/4	3/4 NPT	1 1/4-18UNEF	15.75	59.9	33.33
SCR-FC-16-16N	1	1 NPT	1 1/2-20UNF	22.1	63.8	41.27

E.T.C. Parts

► Gasket with Retainer

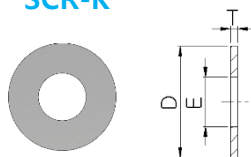
SCR-KR



Ordering Number	SCR Size	E	D	T
SCR-KR-4	1/4	5.6	11.85	0.8
SCR-KR-8	1/2	11.2	19.27	
SCR-KR-12	3/4	16.7	27.9	
SCR-KR-16	1	22.6	34.2	

► Gasket

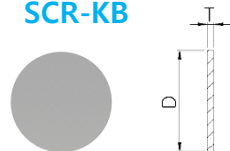
SCR-K



Ordering Number	SCR Size	E	D	T
SCR-K-2	1/8	2.3	6.6	0.8
SCR-K-4	1/4	5.6	12.7	
SCR-K-8	1/2	11.2	19.8	
SCR-K-12	3/4	16.7	29	
SCR-K-16	1	22.6	35.8	

► Blind Gasket

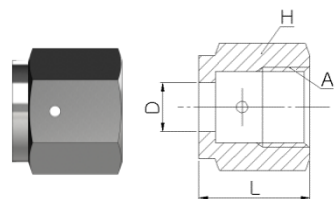
SCR-KB



Ordering Number	SCR Size	D	T
SCR-KB-4	1/4	11.9	0.8
SCR-KB-8	1/2	19.8	
SCR-KB-12	3/4	28.9	
SCR-KB-16	1	35.5	

► Female Nut

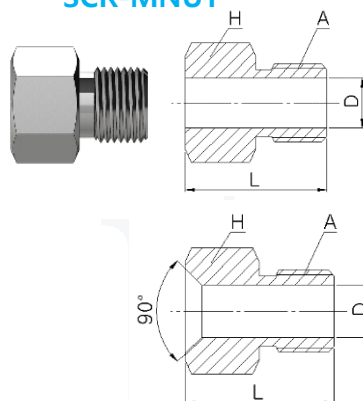
SCR-FNUT



Ordering Number	SCR Size	A	D	L	H
SCR-FNUT-2	1/8	5/16-24UNF	5.3	13.5	11.11
SCR-FNUT-4	1/4	9/16-18UNF	9.1	20.5	19.05
SCR-FNUT-8	1/2	7/8-14UNF	15.5	22.3	26.99
SCR-FNUT-12	3/4	1 1/4-18UNEF	22.6	28.4	38.1
SCR-FNUT-16	1	1 1/2-20UNF	30.5	34	44.45

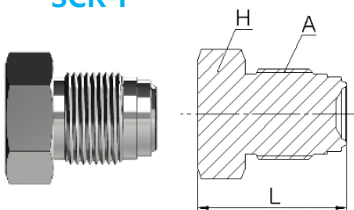
► Male Nut

SCR-MNUT

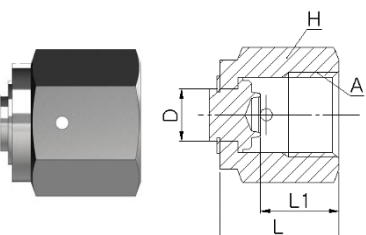


Ordering Number	SCR Size	A	D	L	L1	H
SCR-MNUT-2	1/8	5/16-24UNF	5.3	12.7	8.2	9.52
SCR-MNUT-4	1/4	9/16-18UNF	9.1	18	11	15.88
SCR-MNUTS-4	1/4	9/16-18UNF	9.1	13.7	11	15.88
SCR-MNUT-8	1/2	7/8-14UNF	15.5	20.5	12.7	23.81
SCR-MNUT-12	3/4	1 1/4-18UNEF	22.6	25.4	16	33.34
SCR-MNUT-16	1	1 1/2-20UNF	30.5	30.2	20	41.28

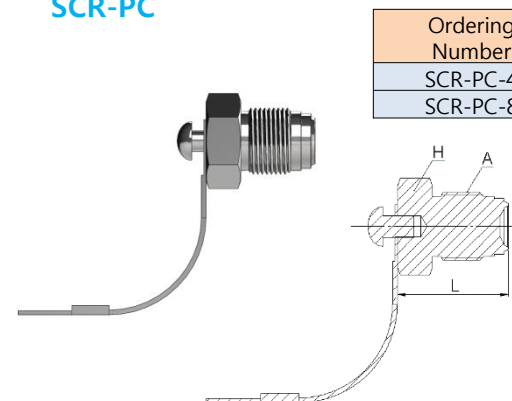
E.T.C. Parts

► Plug
SCR-P

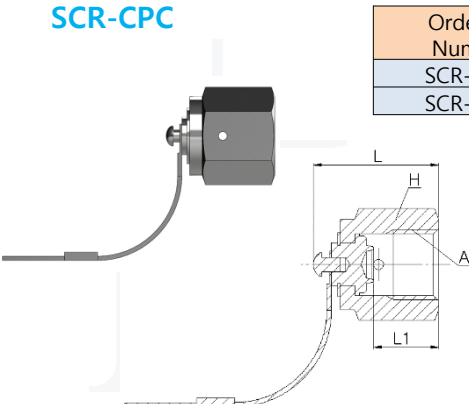
Ordering Number	SCR Size	A	L	H
SCR-P-2	1/8	5/16-24UNF	17.3	9.52
SCR-P-4	1/4	9/16-18UNF	23.37	15.88
SCR-P-8	1/2	7/8-14UNF	27.43	23.81
SCR-P-12	3/4	1 1/4-18UNEF	36.32	33.34
SCR-P-16	1	1 1/2-20UNF	38.61	41.28

► Cap
SCR-CP

Ordering Number	SCR Size	A	L	L1	H
SCR-CP-2	1/8	5/16-24UNF	16	7.6	11.11
SCR-CP-4	1/4	9/16-18UNF	24.2	11.18	19.05
SCR-CP-8	1/2	7/8-14UNF	25.5	11.43	26.99
SCR-CP-12	3/4	1 1/4-18UNEF	32.77	13.72	38.1
SCR-CP-16	1	1 1/2-20UNF	39.12	16	44.45

► Plug (Cable type)
SCR-PC

Ordering Number	SCR Size	A	L	H	Cable Length
SCR-PC-4	1/4	9/16-18UNF	23.37	15.88	260
SCR-PC-8	1/2	7/8-14UNF	27.43	23.81	260

► Cap (Cable type)
SCR-CPC

Ordering Number	SCR Size	A	L	L1	H	Cable Length
SCR-PC-4	1/4	9/16-18UNF	27.8	11.18	19.05	260
SCR-PC-8	1/2	7/8-14UNF	29	11.43	26.9	260



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