

DK-LOK

Fittings & Valves

DK-Lok UHP Fittings

No.09-01(K)
May 2017





Safe Component Selection

The selection of component for any applications or system design must be considered to ensure safe performance. Component function, material compatibility, component ratings, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. DK-Lok accepts no liability for any improper selection, installation, operation or maintenance.



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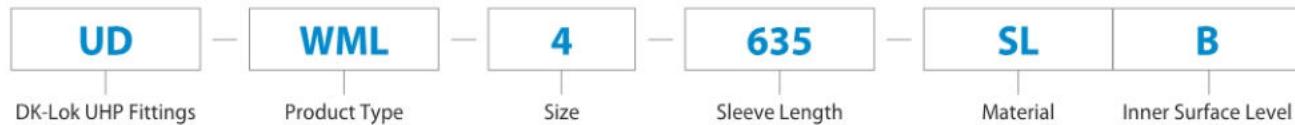
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Ordering Information

DK-Lok Weld Fittings and Metal Face Seal Fittings are ordered by product code shown below.



Size	Sleeve Length	Material	Inner Surface Level
4 : 1/4"	635 : 6.35mm	SL : 316L Stainless Steel	B : BA
6 : 3/8"	100 : 10.0mm	DL : 316L Stainless Steel VAR	P : EP
8 : 1/2"	190 : 19.05mm		
12 : 3/4"			
16 : 1"			

Product Type			
Micro Fittings		Face Seal Fittings	
WML	Micro 90° Elbow	FN	Female Nut
WMT	Micro Tee	MN	Male Nut
WMX	Micro Cross Tee	CP	Cap
WMTB	Micro Tribow	PG	Plug
WMHL	Micro 45° Elbow	GK	Gasket
WMRL	Micro Reducing Elbow	GKT	Gasket Retainer
WMRT	Micro Reducing Tee	GKB	Gasket Blind
WMR	Micro Reducer	MU	Double Male Union
Tube Butt Weld Fittings		BHU	Bulkhead Union
WL	Long Elbow	DC	DK-Lok Tube Fitting Connector
WRL	Long Reducing Elbow	DBHC	DK-Lok Bulkhead Tube Fitting Connector
WT	Long Tee	MC-N	Male NPT Connector
WRT	Long Reducing Tee	FC-N	Female NPT Connector
WX	Long Cross Tee	BHMC-N	Bulkhead Male NPT Connector
WR	Long Reducer	BHTW	TBW Bulkhead Connector
Face Seal Fittings		MC-UO	O-ring Seal Male Connector
SG	Female Gland	L	Union Elbow
LG	Male Gland	T	Union Tee
SGA	Automatic Female Gland	X	Union Cross Tee
LGA	Automatic Male Gland	C	Coupling
GM	Male Weld Gland	HG	High Flow Gland
GSL	Socket Weld Long Gland	HR	High Flow Reducer
GSR	Socket Weld Reducing Long Gland	HRA	Automatic High Flow Reducer
GSS	Socket Weld Short Gland	HFN	High Flow Female Nut
GT	Tube Adapter Gland	HMN	High Flow Male Nut
BG	Blind Gland	DATW	Tube Fitting to Auto Butt Weld Connector

Clean Weld Fittings

Pressure Rating

The pressure ratings provided in this catalogue are obtained by the calculation with the allowable stress of 20,000 psig (1,378 bar) of stainless steel 316 at -20°F (-28°C) to 100°F (37°C) according to ASME B31.3 and B31.1 code.

Pressure derating factors are driven by temperatures greater than 100°F (37°C). They are determined from these pressure code listed in the table 1 and in accordance with ASME B31.3 and B31.1 code. Multiply the applicable pressure rating in this catalogue by the factor in the table 1 to determine the working pressure.

Table 1. Derating Factor

Material	SS 316	SS 316L
Temperature °F (°C)	Derating Factor	
-20 (-28) ~ 100 (37)	1.00	1.00
~ 200 (93)	1.00	0.83
~ 400 (204)	0.96	0.77
~ 600 (315)	0.85	0.67
~ 800 (426)	0.79	0.62
~ 1000 (537)	0.76	0.56

Material

Material	Designation	Specification	
		Bar stock	Forging
316L Stainless Steel	SL	ASME SA479	ASME SA182
316L Stainless Steel VAR	DL	ASTM A479/A276	ASME A182

Cleaning & Packing

Passivation is done in accordance with ASTM A380, Ultra-sonic cleaning in a class 100 clean room environment, implemented with resistivity over 18MΩ D.I water after finishing the passivation for precision cleaning. After cleaning, the product receives double packaging in a clean room environment using anti-static polyethylene bags and high purity nitrogen inclusion.

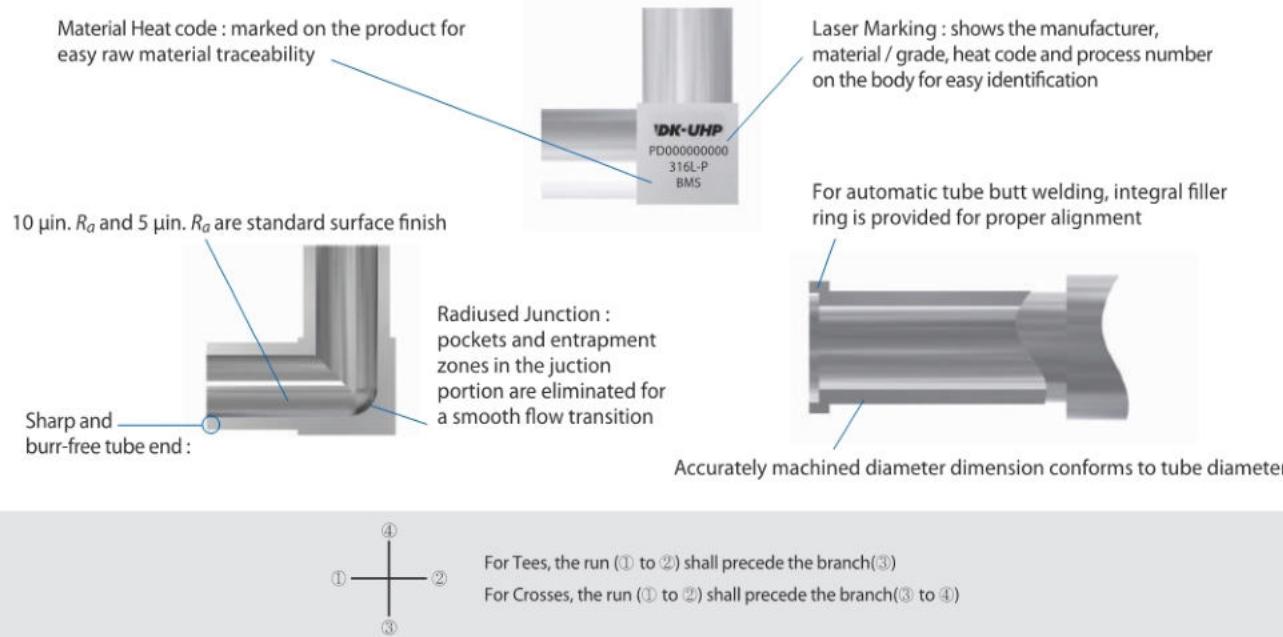
Surface Roughness

Grade	Designation	Surface Level	
BA	B	$R_a : 10 \mu\text{m}$	$R_y : 3.0 \mu\text{m}$
EP	P	$R_a : 5 \mu\text{m}$	$R_y : 0.7 \mu\text{m}$

Feature

- Accommodates the miniature tubing system
- Allows close parts spacing
- Flow capacity to be equivalent to the conventional big size wedging fitting

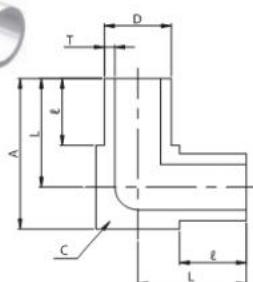
Rounded Edge : all edges of the product are rounded for safe handling and to help prevent damage to the other products



Clean Weld Fittings

Micro Elbow

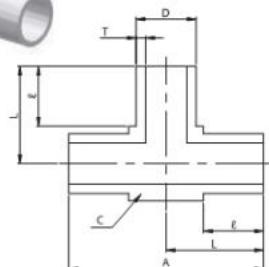
WML



Part No.	Size (D)		Thickness (Tube Wall) T(mm)	L (mm)	ℓ (mm)	A (mm)	C Body Cube (mm)
	in.	mm					
UD-WML-4	1/4	6.35	1.0	10.32	6.35	14.29	7.94
UD-WML-6	3/8	9.53		11.91		17.46	11.11
UD-WML-8	1/2	12.7		1.24		20.64	14.29
UD-WML-12	3/4	19.05		1.65		27.0	20.65

Micro Tee

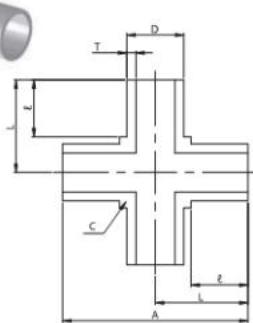
WMT



Part No.	Size (D)		Thickness (Tube Wall) T(mm)	L (mm)	ℓ (mm)	A (mm)	C Body Cube (mm)
	in.	mm					
UD-WMT-4	1/4	6.35	1.0	10.32	6.35	20.64	7.94
UD-WMT-6	3/8	9.53		11.91		23.81	11.11
UD-WMT-8	1/2	12.7		1.24		26.99	14.29
UD-WMT-12	3/4	19.05		1.65		33.35	20.65

Micro Cross Tee

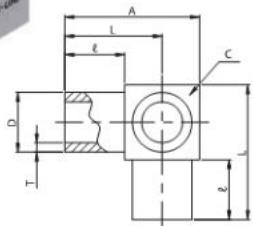
WMX



Part No.	Size (D)		Thickness (Tube Wall) T(mm)	L (mm)	ℓ (mm)	A (mm)	C Body Cube (mm)
	in.	mm					
UD-WMX-4	1/4	6.35	1.0	10.32	6.35	20.64	7.94
UD-WMX-6	3/8	9.53		11.91		23.81	11.11
UD-WMX-8	1/2	12.7		1.24		26.99	14.29
UD-WMX-12	3/4	19.05		1.65		33.35	20.65

Micro Tribow

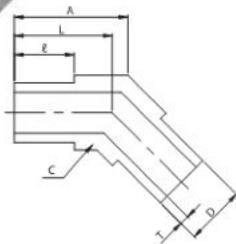
WMTB



Part No.	Size (D)		Thickness (Tube Wall) T(mm)	L (mm)	e (mm)	A (mm)	C Body Cube (mm)
	in.	mm					
UD-WMTB-4	1/4	6.35	1.0	10.32	6.35	14.29	7.94
UD-WMTB-6	3/8	9.53		11.91		17.46	11.11
UD-WMTB-8	1/2	12.7		13.5		20.64	14.29
UD-WMTB-12	3/4	19.05		16.68		27	20.65

Micro Half Elbow

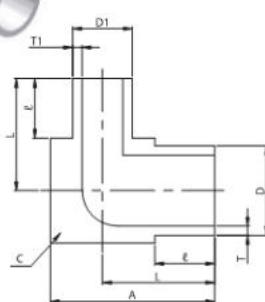
WMHL



Part No.	Size (D)		Thickness (Tube Wall) T(mm)	L (mm)	e (mm)	A (mm)	C Body Cube (mm)
	in.	mm					
UD-WMHL-4	1/4	6.35	1.0	10.4	6.35	12.04	7.94
UD-WMHL-6	3/8	9.53		11.91		14.21	11.11
UD-WMHL-8	1/2	12.7		13.5		16.46	14.29
UD-WMHL-12	3/4	19.05		16.68		20.95	20.65

Micro Reducing Elbow

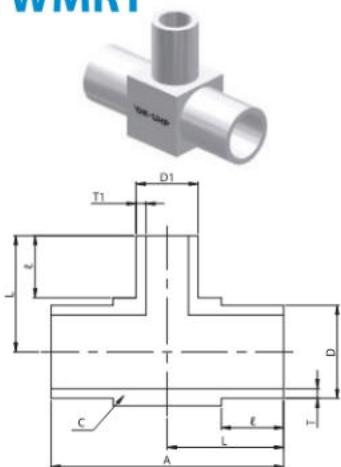
WMRL



Part No.	Size (D)		Size (D1)		Thickness (Tube Wall) T(mm)	Thickness (Tube Wall) T1(mm)	L (mm)	e (mm)	A (mm)	C Body Cube (mm)	
	in.	mm	in.	mm							
UD-WMRL-6X4	3/8	9.53	1/4	6.35	1.0	1.0	11.91	6.35	17.46	11.11	
UD-WMRL-8X4	1/2	12.7			1.24		13.5		20.64	14.29	
UD-WMRL-8X6		3/8	9.53	1.0	16.68		27		20.65		
UD-WMRL-12X4	3/4	19.05	1/4							6.35	
UD-WMRL-12X6			3/8							9.53	1.65
UD-WMRL-12X8			1/2							12.7	1.24

Micro Reducing Tee

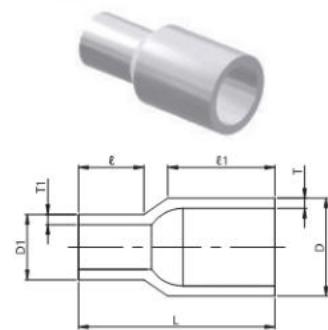
WMRT



Part No.	Size (D)		Size (D1)		Thickness (Tube Wall) T(mm)	Thickness (Tube Wall) T1(mm)	L (mm)	ℓ (mm)	A (mm)	C Body Cube (mm)
	in	mm	in	mm						
UD-WMRT-6X4	3/8	9.53	1/4	6.35	1.0		11.91		23.81	11.11
UD-WMRT-8X4	1/2	12.7	3/8	9.53	1.24		13.5		26.99	14.29
UD-WMRT-8X6			1/4	6.35						
UD-WMRT-12X4			3/8	9.53			1.0			
UD-WMRT-12X6	3/4	19.05	1/2	12.7	1.65		16.68		33.35	20.65
UD-WMRT-12X8			1/2	12.7			1.24			

Micro Reduer

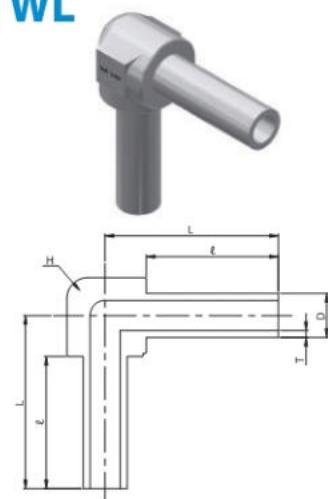
WMR



Part No.	Size (D)		Size (D1)		Thickness (Tube Wall) T(mm)	Thickness (Tube Wall) T1(mm)	L (mm)	ℓ (mm)	ℓ_1 (mm)
	in.	mm	in.	mm					
UD-WMR-6X4	3/8	9.53	1/4	6.35	1.0				
UD-WMR-8X4	1/2	12.7	3/8	9.53	1.24				
UD-WMR-8X6			1/4	6.35			1.0		
UD-WMR-12X4			3/8	9.53					
UD-WMR-12X6	3/4	19.05	1/2	12.7	1.65		19.1	6.35	10.4
UD-WMR-12X8			1/2	12.7			1.24		

Long Elbow

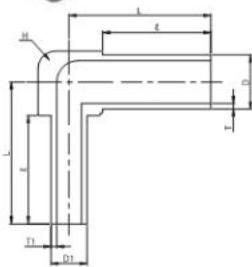
WL



Part No.	Size (D)		Thickness (Tube Wall) T(mm)	L (mm)	ℓ (mm)	H Body Hex (mm)
	in.	mm				
UD-WL-4-100	1/4	6.35	1.0	16.0	10.0	11.1
UD-WL-4-190				25.0	19.05	
UD-WL-6-100				16.0	10.0	
UD-WL-6-190				25.0	19.05	
UD-WL-8-100	1/2	12.7	1.24	20.0	10.0	17.0
UD-WL-8-190				29.0	19.05	
UD-WL-12-100				22.5	10.0	
UD-WL-12-190				31.5	19.05	
UD-WL-16-190	1	25.4	1.65	34.0	19.05	30.0

Long Reducing Elbow 90

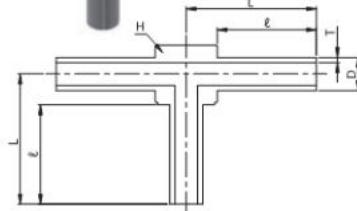
WRL



Part No.	Size (D)		Size (D1)		Thickness (Tube Wall) T(mm)	Thickness (Tube Wall) T1(mm)	L (mm)	ε (mm)	H Body Hex (mm)
	in.	mm	in.	mm					
UD-WRL-6X4-190	3/8	9.53	1/4	6.35	1.0		25.0		11.1
UD-WRL-8X4-190	1/2	12.7			1.24		29.0		17.0
UD-WRL-8X6-190			3/8	9.53		1.0			
UD-WRL-12X4-190			1/4	6.35					
UD-WRL-12X6-190	3/4	19.05	3/8	9.53	1.65		31.5		25.0
UD-WRL-12X8-190			1/2	12.7		1.24			
UD-WRL-16X8-190	1	25.4					34.0		30.0

Long Tee

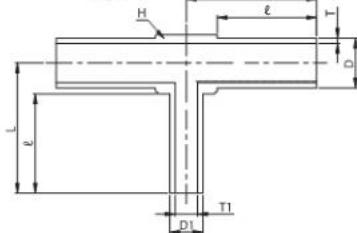
WT



Part No.	Size (D)		Thickness (Tube Wall) T(mm)	L (mm)	ε (mm)	H Body Hex (mm)
	in.	mm				
UD-WT-4-100	1/4	6.35		16.0	10.0	
UD-WT-4-190			1.0	25.0	19.05	
UD-WT-6-100	3/8	9.53		16.0	10.0	11.1
UD-WT-6-190				25.0	19.05	
UD-WT-8-100	1/2	12.7	1.24	20.0	10.0	
UD-WT-8-190				29.0	19.05	17.0
UD-WT-12-100	3/4	19.05		22.5	10.0	
UD-WT-12-190			1.65	31.5	19.05	25.0
UD-WT-16-190	1	25.4		34.0	19.05	30.0

Long Reducing Tee

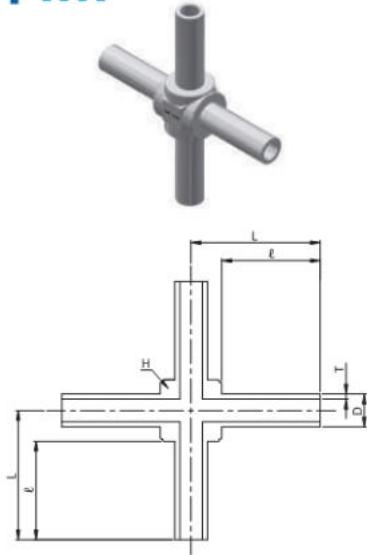
WRT



Part No.	Size (D)		Size (D1)		Thickness (Tube Wall) T(mm)	Thickness (Tube Wall) T1(mm)	L (mm)	ε (mm)	H Body Hex (mm)
	in.	mm	in.	mm					
UD-WRT-6X4-190	3/8	9.53	1/4	6.35	1.0		25.0		11.1
UD-WRT-8X4-190	1/2	12.7			1.24		29.0		17.0
UD-WRT-8X6-190			3/8	9.53		1.0			
UD-WRT-12X4-190			1/4	6.35					
UD-WRT-12X6-190	3/4	19.05	3/8	9.53					
UD-WRT-12X8-190			1/2	12.7	1.65		31.5		25.0
UD-WRT-16X4-190			1/4	6.35		1.24			
UD-WRT-16X8-190	1	25.4					34.0		30.0
			1/2	12.7		1.0			
						1.24			

Long Cross Tee

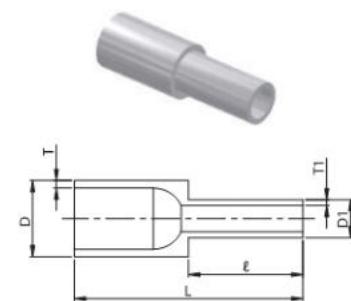
WX



Part No.	Size (D)		Thickness (Tube Wall) T(mm)	L (mm)	ℓ (mm)	H Body Hex (mm)
	in.	mm				
UD-WX-4-100	1/4	6.35	1.0	16.0	10.0	11.1
UD-WX-4-190				25.0	19.05	
UD-WX-6-100				16.0	10.0	
UD-WX-6-190				25.0	19.05	
UD-WX-8-100	1/2	12.7	1.24	20.0	10.0	17.0
UD-WX-8-190				29.0	19.05	
UD-WX-12-100	3/4	19.05	1.65	22.5	10.0	25.0
UD-WX-12-190				31.5	19.05	

Long Reducer

WR



Part No.	Size (D)		Size (D1)		Thickness (Tube Wall) T(mm)	Thickness (Tube Wall) T1(mm)	L (mm)	ℓ (mm)		
	in.	mm	in.	mm						
UD-WR-6X4-190	3/8	9.53	1/4	6.35	1.0	1.24	38.1	19.05		
UD-WR-8X4-190	1/2	12.7			1.24					
UD-WR-8X6-190		3/8	9.53	1.0						
UD-WR-12X4-190	3/4	19.05	1/4	6.35	1.65		42.9	19.05		
UD-WR-12X6-190			3/8	9.53						
UD-WR-12X8-190			1/2	12.7	1.24					

Pressure Rating

All pressure rating follow the calculation as to ASME B31.3 Process Pip-ing code and ASME B31.1 Power Piping code.

The working pressure rating at the room temperature is determined by the material of gasket and the allowable temperature range per the materials is listed in Table 2.

Table 2. Temperature range

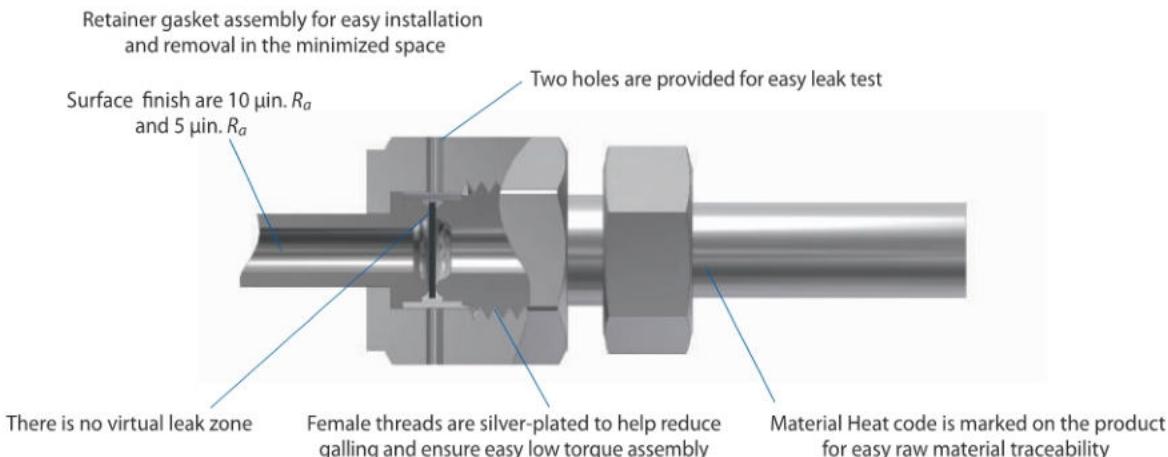
Part	Material	Temperature °F (°C)
Fitting	316L Stainless Steel	1000 (537)
	316L Stainless Steel VAR	
Gasket	316L Stainless Steel	1000 (537)
	Nickel	600 (315)

Material

Material	Designation	Specification	
		Bar stock	Forging
316L Stainless Steel	SL	ASME SA479	ASME SA182
316L Stainless Steel VAR	DL	ASTM A479/A276	ASTM A182
Gasket	316L Stainless Steel	S	ASTM A167
	Nickel	N	ASTM B162

Feature

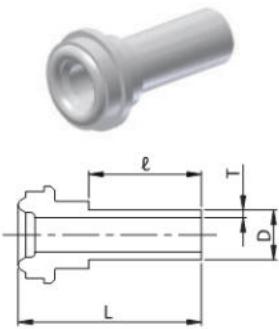
- Leak-tight service provided from vacuum to positive pressure application
- Minimized space is needed for installation and or removal



Metal Gasket Face-Seal Fittings

Short Gland

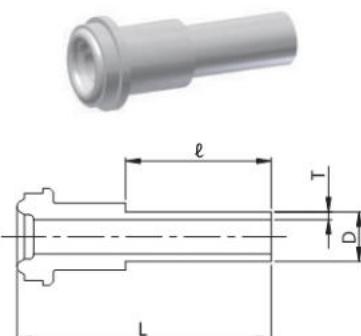
SG



Part No.	Tube Size (D)		Head Size (in.)	Thickness (Tube Wall) T(mm)	L (mm)	ℓ (mm)	
	in.	mm					
UD-SG-4-635	1/4	6.35	1/4	1.0	15.25	6.35	
UD-SG-4-100					18.9	10.0	
UD-SG-4-190					27.95	19.05	
UD-SG-6-635					15.75	6.35	
UD-SG-6-100					19.4	10.0	
UD-SG-6-190					28.45	19.05	
UD-SG-8-635					15.75	6.35	
UD-SG-8-100					19.4	10.0	
UD-SG-8-190					28.45	19.05	
UD-SG-12-190			3/4	1.65	34.5	19.05	
UD-SG-16-190	1	25.4			38.6	19.05	
UD-SG-8X4-635	1/4	6.35	1/2		15.75	6.35	
UD-SG-8X4-190					28.45	19.05	

Long Gland

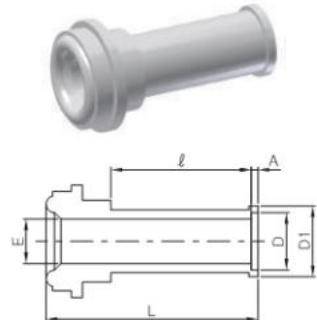
LG



Part No.	Head Size (in.)	Tube Size (D)		Thickness (Tube Wall) T(mm)	L (mm)	ℓ (mm)
		in.	mm			
UD-LG-4-635	1/4	1/4	6.35	1.0	30.5	6.35
UD-LG-4-100					34.0	10.0
UD-LG-4-190					43.2	19.05
UD-LG-6-635					32.8	6.35
UD-LG-6-100					36.4	10.0
UD-LG-6-190					45.5	19.05
UD-LG-8-635					32.8	6.35
UD-LG-8-100					36.4	10.0
UD-LG-8-190					45.5	19.05
UD-LG-12-190			3/4	1.65	51.6	19.05
UD-LG-16-190	1	25.4			58.9	19.05
UD-LG-8X4-635	1/2	1/4	6.35	1.0	32.8	6.35
UD-LG-8X4-190					45.5	19.05

Auto Butt Weld Short Gland

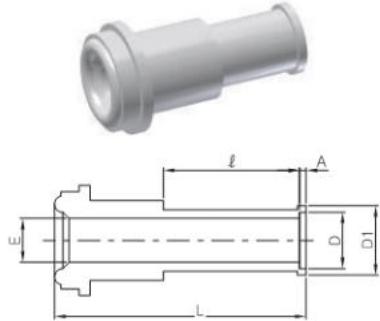
SGA



Part No.	Tube Size (D)		Head Size (in.)	D1 (mm)	E (mm)	A (mm)	L (mm)	ℓ (mm)
	in.	mm						
UD-SGA-4-635	1/4	6.35	1/4	7.4	4.6	0.5	15.7	6.35
UD-SGA-4-190							28.4	19.05
UD-SGA-6-635	3/8	9.53	1/2	10.4	7.9	0.8	16.6	6.35
UD-SGA-6-190							29.2	19.05
UD-SGA-8-635	1/2	12.7	1/2	14.0	10.2	1.0	16.8	6.35
UD-SGA-8-190							29.5	19.05

Auto Butt Weld Long Gland

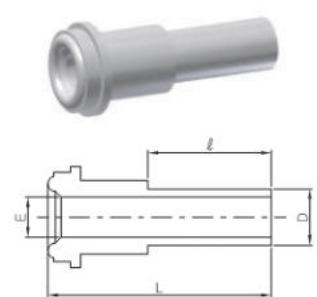
LGA



Part No.	Head Size (in.)	Tube Size (D)		D1 (mm)	E (mm)	A (mm)	L (mm)	ℓ (mm)
		in.	mm					
UD-LGA-4-190	1/4	1/4	6.35	7.4	4.6	0.5	43.7	19.05
UD-LGA-8X4-190							46.2	
UD-LGA-6-190	1/2	3/8	9.53	10.4	7.9	0.8	46.5	19.05
UD-LGA-8-190							52.6	
UD-LGA-12-190	3/4	3/4	19.05	20.3	16.5	1.0	65.3	24.4
UD-LGA-16-244	1	1	25.4	26.9	22.1			

Male Gland

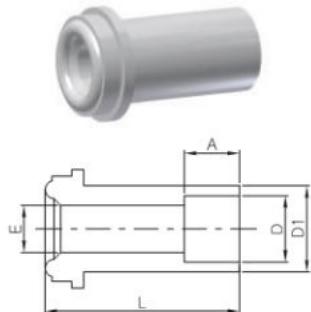
GM



Part No.	Head Size (in.)	Tube Size (D)		E (mm)	L (mm)	ℓ (mm)
		in.	mm			
UD-GM-2	1/8	1/8	3.17	1.5	17.8	7.1
UD-GM-4X2					33.3	
UD-GM-4	1/4	1/4	6.35	3.0	38.1	10.4
UD-GM-6						
UD-GM-8	1/2	1/2	12.7	10.2	50.8	12.7
UD-GM-8X4						
UD-GM-12	3/4	3/4	19.05	13.5	56.4	10.4
UD-GM-16	1	1	25.4	19.1		20.6

Socket Weld Long Gland

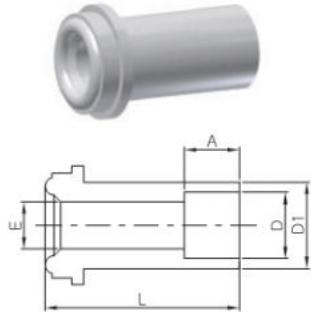
GSL



Part No.	Tube Size (D)		Head Size (in.)	D1 (mm)	E (mm)	L (mm)	A (mm)
	in.	mm					
UD-GSL-2	1/8	3.17	1/8	5.1	2.3	17.8	2.5
UD-GSL-4	1/4	6.35	1/4	8.9	4.6	33.3	7.1
UD-GSL-6	3/8	9.53			7.1		7.9
UD-GSL-8	1/2	12.7		15.2	10.2		9.6
UD-GSL-12	3/4	19.05	3/4	22.4	15.7	50.8	11.2
UD-GSL-16	1	25.4	1	30.2	22.1	56.4	15.7

Socket Weld Reducing Long Gland

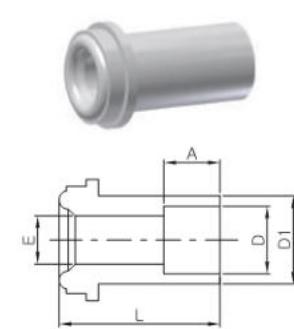
GSR



Part No.	Head Size (in.)	Tube Size (D)		D1 (mm)	E (mm)	L (mm)	A (mm)
		in.	mm				
UD-GSR-4X2	1/4	1/8	3.17	8.9	2.3	33.3	2.5
UD-GSR-8X4	1/2	1/4	6.35	15.2	4.6	38.1	7.1

Socket Weld Short Gland

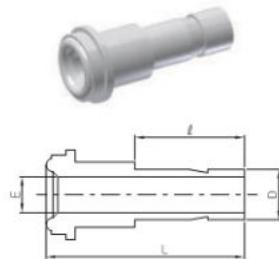
GSS



Part No.	Tube Size (D)		Head Size (in.)	D1 (mm)	E (mm)	L (mm)	A (mm)
	in.	mm					
UD-GSS-4	1/4	6.35	1/4	8.9	4.6	12.7	
UD-GSS-4-191						19.1	7.1

Tube Adapter Gland

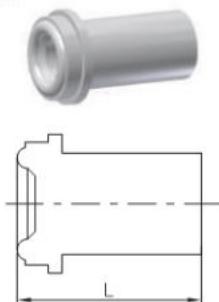
GT



Part No.	Tube Size (D)		Head Size (in.)	E (mm)	L (mm)	ℓ (mm)
	in.	mm				
UD-GT-4	1/4	6.35	1/4	4.3	41.0	16.2
UD-GT-6	3/8	9.53	1/2	6.8	46.0	17.8
UD-GT-8	1/2	12.7		9.4	49.3	24.4

Blind Gland

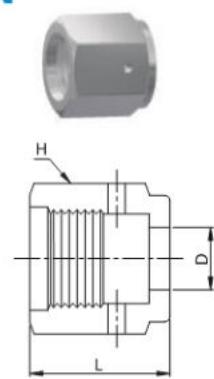
BG



Part No.	Tube Size (D)		Head Size (in.)	L (mm)
	in.	mm		
UD-BG-2	1/8	3.17	1/8	17.8
UD-BG-4	1/4	6.35	1/4	33.3
UD-BG-8	1/2	12.7	1/2	38.1
UD-BG-12	3/4	19.05	3/4	50.8
UD-BG-16	1	25.4	1	56.4

Female Nut

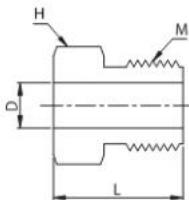
FN



Part No.	Size (in.)	L (mm)	D (mm)	H Hex (mm)
U-FN-2	1/8	13.5	5.3	11.11
U-FN-4	1/4	20.6	9.1	19.05
U-FN-8	1/2	22.4	15.5	26.99
U-FN-12	3/4	28.4	22.6	38.1
U-FN-16	1	34.0	30.5	44.45

Male Nut

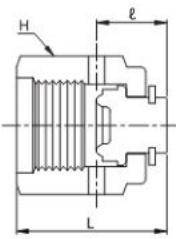
MN



Part No.	Size (in.)	L (mm)	D (mm)	H Hex (mm)	M
U-MN-2	1/8	12.7	5.3	9.52	5/16-24 UNF
U-MN-4	1/4	18.0	9.1	15.88	9/16-18 UNF
U-MN-8	1/2	20.6	15.5	23.81	7/8-14 UNF
U-MN-12	3/4	25.4	22.6	33.34	1 1/4-18 UNEF
U-MN-16	1	30.2	30.5	41.28	1 1/2-20 UN

Cap

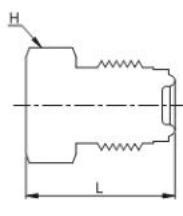
CP



Part No.	Size (in.)	L (mm)	l (mm)	H Hex (mm)
U-CP-2	1/8	16.0	7.6	11.11
U-CP-4	1/4	23.9	11.2	19.05
U-CP-8	1/2	25.6	11.4	26.99
U-CP-12	3/4	32.8	13.7	38.1
U-CP-16	1	39.1	16.0	44.45

Plug

PG

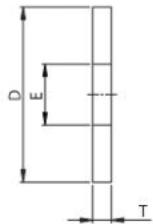


Part No.	Size (in.)	L (mm)	H Hex (mm)
U-PG-2	1/8	17.3	9.52
U-PG-4	1/4	23.4	15.88
U-PG-8	1/2	27.4	23.81
U-PG-12	3/4	36.3	33.34
U-PG-16	1	38.6	41.28

Metal Gasket Face-Seal Fittings

Gasket

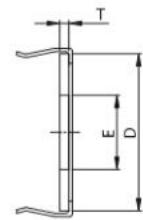
GK



Part No.	Size (in.)	T (mm)	D (mm)	E (mm)
U-GK-2	1/8	0.7	6.6	2.3
U-GK-4	1/4	0.7	12.7	5.6
U-GK-8	1/2	0.7	19.8	11.2
U-GK-12	3/4	0.7	29.0	16.7
U-GK-16	1	0.7	35.8	22.6

Gasket Retainer

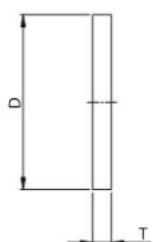
GKT



Part No.	Size (in.)	T (mm)	D (mm)	E (mm)
U-GKT-4	1/4	0.7	11.85	5.6
U-GKT-8	1/2	0.7	19.27	11.2
U-GKT-12	3/4	0.7	27.9	16.7
U-GKT-16	1	0.7	34.2	22.6

Gasket Blind

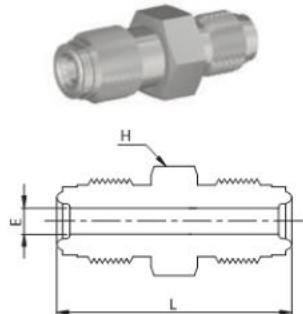
GKB



Part No.	Size (in.)	T (mm)	D (mm)
U-GKB-2	1/8	0.7	6.6
U-GKB-4	1/4	0.7	12.7
U-GKB-8	1/2	0.7	19.8
U-GKB-12	3/4	0.7	29.0
U-GKB-16	1	0.7	35.8

Double Male Union

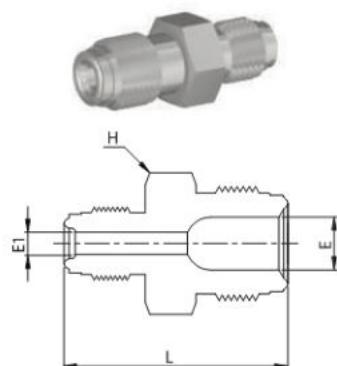
MU



Part No.	Head Size (in.)	L (mm)	E (mm)	H Hex (mm)
UD-MU-2	1/8	28.7	2.3	9.52
UD-MU-4	1/4	39.4	4.35	15.88
UD-MU-8	1/2	46.7	10.2	23.81
UD-MU-12	3/4	62.0	15.7	33.34
UD-MU-16	1	65.8	22.1	41.28

Double Male Reducing Union

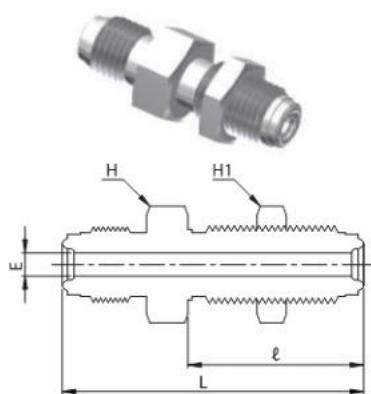
MRU



Part No.	Head Size (in.)	Head Size (in.)	L (mm)	E (mm)	E1 (mm)	H Hex (mm)
UD-MRU-4x2	1/4	1/8	34.8	4.35	2.3	15.88
UD-MRU-8x4	1/2	1/4	43.4	10.2	4.35	23.81

Bulkhead Union

BHU

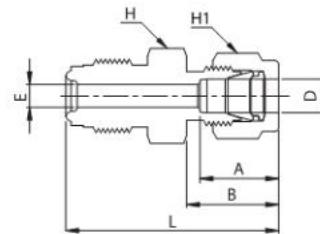


Part No.	Head Size (in.)	L (mm)	(ℓ) (mm)	E (mm)	H Hex (mm)	H1 Hex (mm)
UD-BHU-4	1/4	56.6	33.0	4.35	19.05	15.88
UD-BHU-8	1/2	65.3	37.6	10.2	26.9	23.81
UD-BHU-12	3/4	79.0	43.4	15.7	38.1	33.34
UD-BHU-16	1	86.0	47.1	22.1	44.4	41.28

Metal Gasket Face-Seal Fittings

Tube Fitting Connector

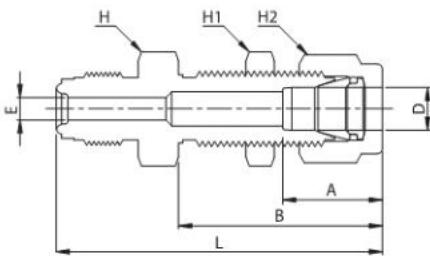
DC



Part No.	Head Size (in.)	Tube Size (D)	L (mm)	B (mm)	A (mm)	E (mm)	H Hex (mm)	H1 Hex (mm)
UD-DC-4X2	1/4	1/8	38.9	15.2	12.7	2.3	15.88	11.11
UD-DC-4	1/4	1/4	41.1	17.8	15.2	4.35	15.88	14.28
UD-DC-8X6	1/2	3/8	46.7	19.3	16.8	7.1	23.81	17.46
UD-DC-8	1/2	1/2	49.5	21.8	22.9	10.2	23.81	22.22

Tube Fitting Bulkhead Connector

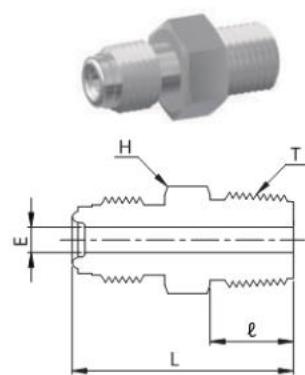
DBHC



Part No.	Head Size (in.)	Tube Size (D)	L (mm)	B (mm)	A (mm)	E (mm)	H Hex (mm)	H1 Hex (mm)	H2 Hex (mm)
UD-DBHC-4	1/4	1/4	57.2	33.5	15.2	4.6	15.88	15.88	14.28
UD-DBHC-8X6	1/2	3/8	64.5	36.8	16.8	7.1	23.81	19.05	17.46
UD-DBHC-8	1/2	1/2	69.6	41.9	22.9	10.2	23.81	23.81	22.22

Male NPT Connector

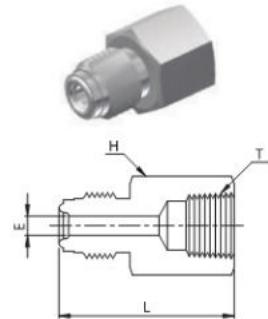
MC-N



Part No.	Head Size NPT T (in.)	Size NPT T	L (mm)	e (mm)	E (mm)	H Hex (mm)
UD-MC4-2N	1/4	1/8	33.3	9.6	4.35	15.88
UD-MC4-4N	1/4	1/4	37.8	14.2	4.35	15.88
UD-MC8-4N	1/2	1/4	41.9	14.2	7.1	23.81
UD-MC8-6N	1/2	3/8	41.9	14.2	9.6	23.81
UD-MC8-8N	1/2	1/2	46.7	19.1	10.2	23.81
UD-MC12-12N	3/4	3/4	55.6	19.1	15.7	33.34
UD-MC16-16N	1	1	62.7	23.9	22.1	41.28

Female NPT Connector

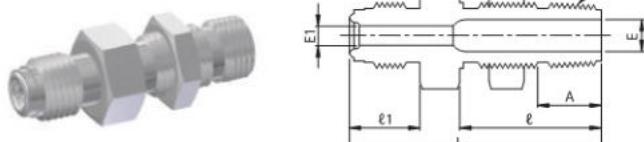
FC-N



Part No.	Head Size (in.)	Size NPT T	L (mm)	E (mm)	H Hex (mm)
UD-FC4-2N	1/4	1/8	35.8	4.35	15.88
UD-FC4-4N	1/4	1/4	39.1	4.35	19.05
UD-FC8-6N	1/2	3/8	44.7	10.2	23.81
UD-FC8-8N	1/2	1/2	50.5	10.2	26.98
UD-FC12-12N	3/4	3/4	59.9	15.7	33.34
UD-FC16-16N	1	1	63.8	22.1	41.28

Bulkhead Male NPT Connector

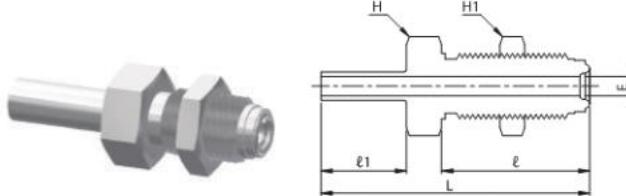
BHMC-N



Part No.	Head Size (in.)	Size NPT T	L (mm)	l1 (mm)	A (mm)	E (mm)	E1 (mm)	l (mm)	H Hex (mm)	H1 Hex (mm)
UD-BHMC4-4N	1/4	1/4	56.1	15.7	14.2	7.1	4.35	31.5	20.63	20.63
UD-BHMC8-4N	1/2	1/4	59.4	19.05	14.2	7.1	10.2	31.5	23.81	20.63

Tube Butt Weld Bulkhead Connector

BHTW

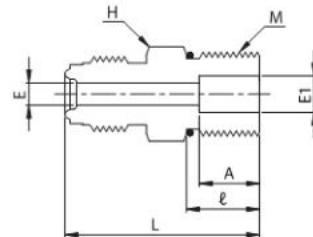


Part No.	Head Size (in.)	Tube Size (D)	L (mm)	l (mm)	l1 (mm)	E (mm)	H Hex (mm)	H1 Hex (mm)
UD-BHTW-4	1/4	6.35	59.85	33.0	19.05	4.35	19.05	15.88
UD-BHTW-8	1/2	12.7	65.25	37.6	19.05	10.2	26.9	23.81
UD-BHTW-12	3/4	19.05	71.30	43.25	19.05	15.7	38.1	33.34

Metal Gasket Face-Seal Fittings

Straight Thread O-Ring Seal Male Connector

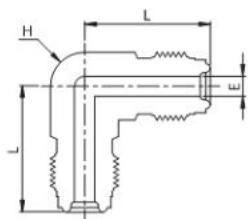
MC-UO



Part No.	Head Size (in.)	L (mm)	ℓ (mm)	A (mm)	E (mm)	E1 (mm)	H Hex (mm)	M
UD-MC4-6U	1/4	33.8	9.9	6.4	4.35	7.1	19.05	9/16-18 UNF
UD-MC8-6U	1/2	37.6	9.9	-	7.1	7.1	23.81	9/16-18 UNF
UD-MC8-10U	1/2	42.2	12.7	10.2	7.1	15	25.4	7/8-14 UNF

Union Elbow

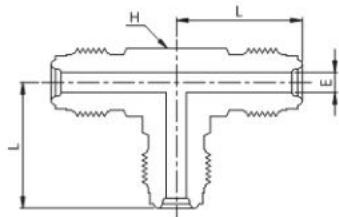
L



Part No.	Head Size (in.)	L (mm)	E (mm)	H Hex (mm)
UD-L-4	1/4	27.2	4.35	12.7
UD-L-8	1/2	36.8	10.2	20.63
UD-L-12	3/4	48.8	15.7	31.75
UD-L-16	1	50.8	22.1	42.86

Union Tee

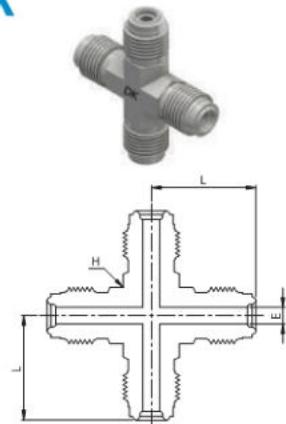
T



Part No.	Head Size (in.)	L (mm)	E (mm)	H Hex (mm)
UD-T-4	1/4	27.2	4.35	12.7
UD-T-8	1/2	36.8	10.2	20.63
UD-T-12	3/4	48.8	15.7	31.75
UD-T-16	1	50.8	22.1	42.86

Union Cross Tee

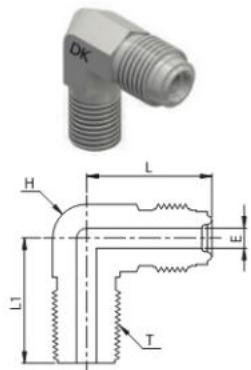
X



Part No.	Head Size (in.)	L (mm)	E (mm)	H Hex (mm)
UD-X-4	1/4	27.2	4.35	12.7
UD-X-8	1/2	36.8	10.2	20.63
UD-X-12	3/4	48.8	15.7	31.75
UD-X-16	1	50.8	22.1	42.86

Male NPT Elbow

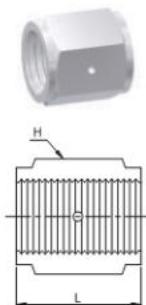
ML-N



Part No.	Head Size (in.)	Size NPT T	L (mm)	L1 (mm)	E (mm)	H Hex (mm)
UD-ML4-2N	1/4	1/8	27.2	22.1	4.35	12.7
UD-ML4-4N	1/4	1/4	27.2	26.7	4.35	12.7
UD-ML8-6N	1/2	3/8	36.8	32.0	10.2	20.63
UD-ML8-8N	1/2	1/2	36.8	36.8	10.2	20.63

Coupling

C

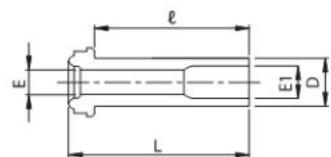


Part No.	Size (in.)	L (mm)	H Hex (mm)
U-C-2	1/8	16.8	11.11
U-C-4	1/4	30.2	19.05
U-C-8	1/2	33.3	26.99
U-C-12	3/4	42.7	38.1
U-C-16	1	51.8	44.45

High Flow Fittings

High Flow Gland

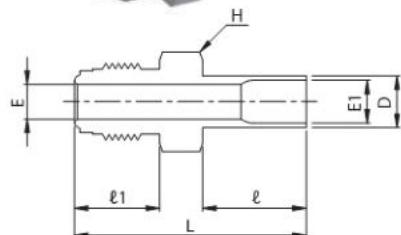
HG



Part No.	Head Size (in.)	Tube Size (D)	E1 (mm)	E (mm)	L (mm)	ℓ (mm)
U-HG-4X6	1/4	3/8	7.9	6.4	33.3	28.4

High Flow Reducer

HR



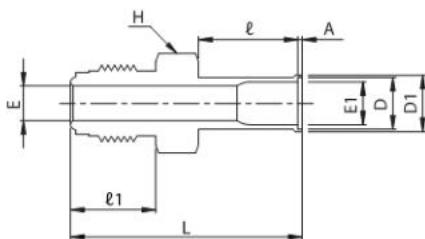
Part No.	Head Size (in.)	Tube Size (D)	L (mm)	ℓ (mm)	ℓ1 (mm)	E (mm)	E1 (mm)	H Hex (mm)
U-HR-4X6	1/4	3/8	42.7	19.1	15.7	6.4	7.9	15.87

Auto Butt Weld High Flow Reducer

HRA



Part No.	Head Size (in.)	Tube Size (D)	L (mm)	ℓ (mm)	ℓ1 (mm)	A (mm)	E (mm)	E1 (mm)	D1 (mm)	H Hex (mm)
U-HRA-4X6	1/4	3/8	43.4	19.1	15.7	0.8	6.4	7.9	10.4	15.87

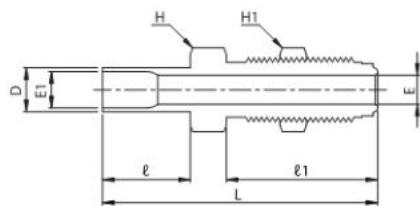


High Flow Bulkhead Reducer

HBR



Part No.	Head Size (in.)	Tube Size (D)	L (mm)	ℓ (mm)	ℓ1 (mm)	E (mm)	E1 (mm)	H Hex (mm)	H1 Hex (mm)
U-HBR-4X6	1/4	3/8	59.9	19.1	33.0	6.4	7.9	19.05	19.05

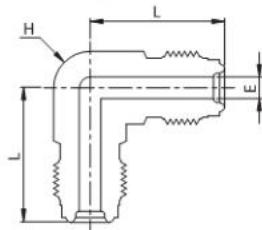


High Flow Union Elbow

HL



Part No.	Head Size (in.)	L (mm)	E (mm)	H Hex (mm)
U-HL-4	1/4	27.2	6.4	12.7

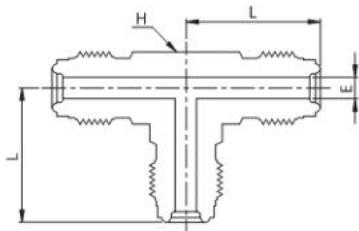


High Flow Union Tee

HT

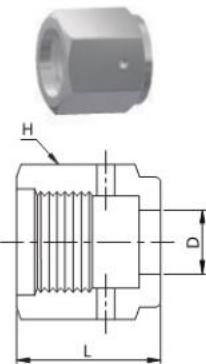


Part No.	Head Size (in.)	L (mm)	E (mm)	H Hex (mm)
U-HT-4	1/4	27.2	6.4	12.7



High Flow Female Nut

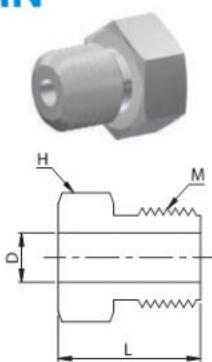
HFN



Part No.	Head Size (in.)	L (mm)	D (mm)	H Hex (mm)
U-HFN-4	1/4	20.6	9.9	19.05

High Flow Male Nut

HMN



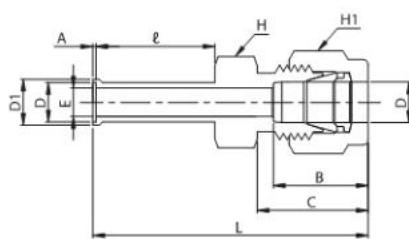
Part No.	Head Size (in.)	L (mm)	D (mm)	H Hex (mm)	M
U-HMN-4	1/4	18.0	9.9	15.87	9/16-18 UNF

Tube Fitting to Auto Butt Weld Connector

DATW



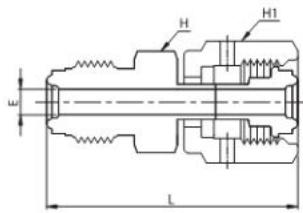
Part No.	Head Size (in.)	Tube Size (D)	D1 (mm)	L (mm)	ℓ (mm)	A (mm)	B (mm)	C (mm)	E (mm)	H Hex (mm)	H1 Hex (mm)
U-DATW-4X4	1/4	1/4	7.4	44.2	19.1	0.5	15.2	17.8	4.6	12.7	14.28
U-DATW-6X6	3/8	3/8	10.4	46.7	19.1	0.5	16.8	19.3	7.9	15.87	17.46



Welded Assembly Fittings

Swivel Female / Male Union

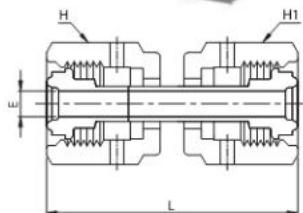
SFMU



Part No.	Head Size (in.)	L (mm)	E (mm)	H Hex (mm)	H1 Hex (mm)
U-SFMU-4	1/4	45.3	4.6	15.87	19.05

Swivel Female Union

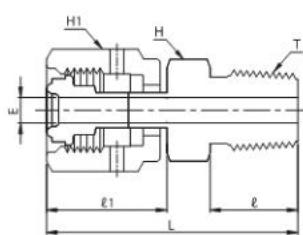
SFU



Part No.	Head Size (in.)	L (mm)	E (mm)	H Hex (mm)	H1 Hex (mm)
U-SFU-4	1/4	43.4	4.6	19.05	19.05
U-SFU-8	1/2	46.7	10.2	26.99	26.99

Swivel Male NPT Connector

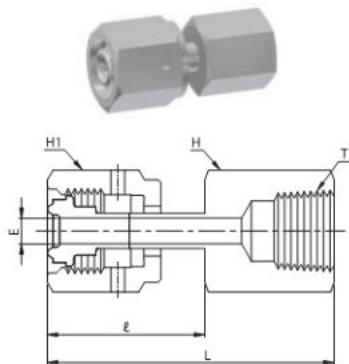
SMC-N



Part No.	Head Size (in.)	Size NPT T	L (mm)	l (mm)	l1 (mm)	E (mm)	H Hex (mm)	H1 Hex (mm)
U-SMC4-2N	1/4	1/8	40.1	9.6	24.1	4.6	11.11	19.05
U-SMC4-4N	1/4	1/4	45.5	14.2	23.4	4.6	14.28	19.05
U-SMC8-6N	1/2	3/8	48.0	14.2	25.4	10.2	17.46	26.99
U-SMC8-8N	1/2	1/2	53.1	19.1	25.6	10.2	22.22	26.99

Swivel Female NPT Connector

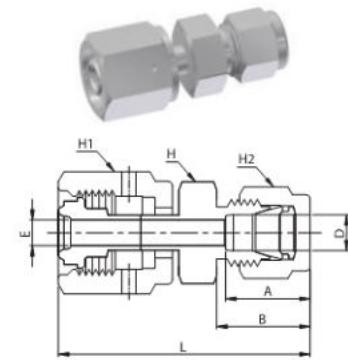
SFC-N



Part No.	Head Size (in.)	Size NPT T	L (mm)	ℓ (mm)	E (mm)	H Hex (mm)	H1 Hex (mm)
U-SFC4-4N	1/4	1/4	45.0	23.4	4.6	19.05	19.05
U-SFC8-6N	1/2	3/8	49.5	26.9	10.2	22.22	26.99
U-SFC8-8N	1/2	1/2	55.4	26.4	10.2	26.99	26.99

Swivel Tube Fitting Connector

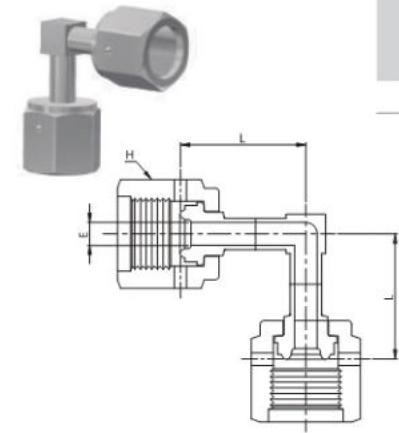
SDC-N



Part No.	Head Size (in.)	Tube Size (D)	L (mm)	A (mm)	B (mm)	E (mm)	H Hex (mm)	H1 Hex (mm)	H2 Hex (mm)
U-SDC-4	1/4	1/4	49.3	15.2	17.8	4.6	12.7	19.05	14.28

Swivel Elbow

SL



Part No.	Head Size (in.)	L (mm)	E (mm)	H Hex (mm)
U-SL-4	1/4	25.4	4.6	19.05

Swivel Tee

ST

Part No.	Head Size (in.)	L (mm)	E (mm)	H Hex (mm)
U-ST-4	1/4	25.4	4.6	19.05

