Instrument

Fittings

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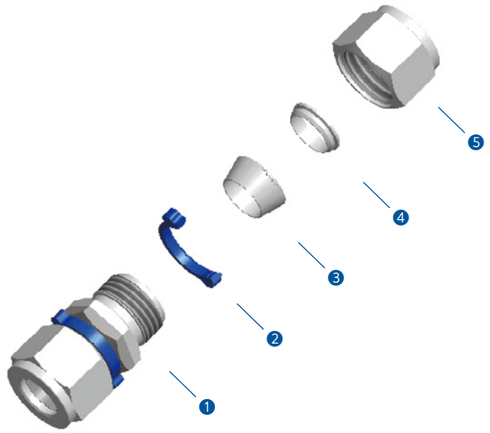
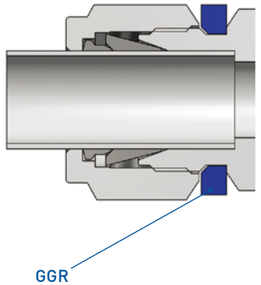
GGR
(Gap Gauge Ring)

Local Patent Number : 10-2015-0059416
Global Patent : US, JAPAN, CHINA, GERMANY

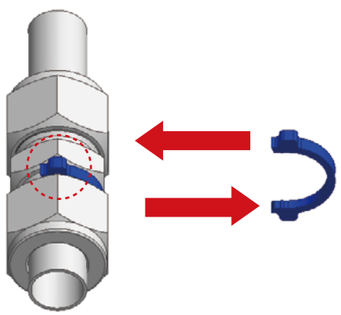
Features

- GGR(GAP GAUGE RING) is designed for perfect installation of piping and tubing. With the UNILOK`s GGR, no more GAP GAUGE is needed.
- GGR ensures sufficient tightening and protects over-tightening.
- assure visually inspected your process lines.
- Repeatable assembly
- GGR is prepared with various color for identifying your process lines.
- Fabricated in precision process for smooth tightening.
- Easy, Fast &Economical installation for your facility.





Prevent over and less tightening.



Easy to insert

Material Standards

No.	Description	Materials
1	Body	316 SS
2	GGR	304 SS
3	Front Ferrule	316 SS
4	Back Ferrule	316 SS
5	Nut	316 SS

GGR Color Coding

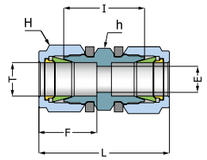
Color	Designator
Blue	S
Red	R
Black	B
Yellow	Y

Tubing Information

Instruction for installation of fitting is not need any more.
Just touch the GGR, for checking proper installation of fitting.
When tighten of nut enough, GGR is not turned around body.
GGR do not mix fitting components from various manufacturers.

UU-G

Union

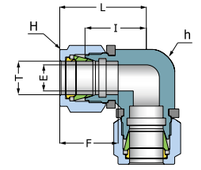


Connects Fractional(Inch) Tube

Part No.	Tube OD T		Dimensions (mm)							
			E Min.	h		H		F	I	L
	inch	mm		inch	mm	inch	mm			
UU-04-G	1/4	6.35	4.8	1/2	12.70	9/16	14.28	15.2	26.2	40.9
UU-06-G	3/8	9.52	7.1	5/8	15.87	11/16	17.46	16.8	30.2	45.0
UU-08-G	182	12.70	10.4	13/16	20.63	7/8	22.22	22.9	31.0	51.3
UU-12-G	3/4	19.05	15.7	1-1/16	26.98	1-1/8	28.57	24.4	33.3	53.6
UU-16-G	1	25.40	22.4	1-3/8	34.92	1-1/2	38.10	31.2	40.4	64.8

UEU-G

Union Elbow

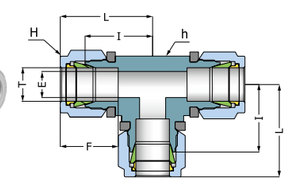


Connects Fractional(Inch) Tube

Part No.	Tube OD T		Dimensions (mm)							
			E Min.	h		H		F	I	L
	inch	mm		inch	mm	inch	mm			
UEU-04-G	1/4	6.35	4.8	1/2	12.70	9/16	14.28	15.2	19.6	26.9
UEU-06-G	3/8	9.52	7.1	5/8	15.87	11/16	17.46	16.8	23.1	30.5
UEU-08-G	1/2	12.70	10.4	13/16	20.63	7/8	22.22	22.9	25.9	36.1
UEU-12-G	3/4	19.05	15.7	1-1/16	26.98	1-1/8	28.57	24.4	29.7	39.9
UEU-16-G	1	25.40	22.4	1-3/8	34.92	1-1/2	38.10	31.2	36.8	49.0

UUT-G

Union Tee

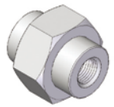


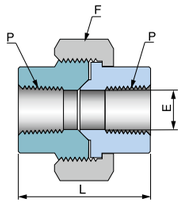
Connects Fractional(Inch) Tube

Part No.	Tube OD T		Dimensions (mm)							
			E Min.	h		H		F	I	L
	inch	mm		inch	mm	inch	mm			
UUT-04-G	1/4	6.35	4.8	1/2	12.70	9/16	14.28	15.2	19.6	26.9
UUT-06-G	3/8	9.52	7.1	5/8	15.87	11/16	17.46	16.8	23.1	30.5
UUT-08-G	1/2	12.70	10.4	13/16	20.63	7/8	22.22	22.9	25.9	36.1
UUT-12-G	3/4	19.05	15.7	1-1/16	26.98	1-1/8	28.57	24.4	29.7	39.9
UUT-16-G	1	25.40	22.4	1-3/8	34.92	1-1/2	38.10	31.2	36.8	49.0

Dimensions are for reference only and are subject to change without prior notice.
E is minimum opening. F and L are typical finger tight.

PU
Pipe Union

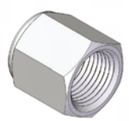


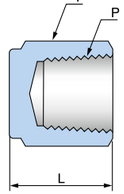


Female NPT to Female NPT

Part No.	P NPT	Dimensions (mm)		
		L	E	F
Pressure Rating, 3000psig				
PU-08N	1/2	49.2	17.2	46
PU-12N	3/4	57.2	21.5	54
PU-16N	1	62.2	27.5	63
Pressure Rating, 6000psig				
PU-08N-6K	1/2	58.3	17.2	54
PU-12N-6K	3/4	64.3	21.5	63
PU-16N-6K	1	72.4	27.5	82

PCP
Pipe Cap

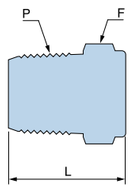




Female NPT

Part No.	P NPT	Dimensions (mm)		
		L	F	
			inch	mm
PCP-02N	1/8	19.1	9/16	14.28
PCP-04N	1/4	23.1	3/4	19.05
PCP-06N	3/8	26.2	7/8	22.22
PCP-08N	1/2	34.0	1-1/16	26.98
PCP-12N	3/4	36.6	1-5/16	31.75
PCP-16N	1	41.1	1-5/8	41.27

PPG
Pipe Plug



Male NPT

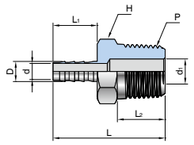
Part No.	P NPT	Dimensions (mm)		
		L	F	
			inch	mm
PPG-02N	1/8	19.1	7/16	11.11
PPG-04N	1/4	24.4	9/16	14.28
PPG-06N	3/8	25.1	11/16	17.46
PPG-08N	1/2	30.7	7/8	22.22
PPG-12N	3/4	30.7	1-1/16	26.98
PPG-16N	1	38.1	1-3/8	34.92

ISO Tapered threads are available for all fractional PCP, PPG. To order, add "R" as a suffix instead of "N".
Dimensions are for reference only and are subject to change without prior notice

INSTRUMENT

Hose Connectors

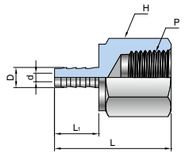
UHMC
Hose Male Connector



Connects Hose to Female Pipe

Part No.	Hose I.D.	P	Dimensions (mm)						
			D	d	d_1	H	L	L_1	L_2
UHMC-02H02N	1/8	1/8	0.15	0.08	0.19	7/16	1.08	0.40	0.38
UHMC-02H04N	1/8	1/4	0.15	0.08	0.28	9/16	1.26	0.40	0.56
UHMC-03H02N	3/16	1/8	0.23	0.12	0.12	7/16	1.27	0.59	0.38
UHMC-03H04N	3/16	1/4	0.23	0.12	0.28	9/16	1.45	0.59	0.56
UHMC-04H02N	1/4	1/8	0.30	0.19	0.19	7/16	1.47	0.79	0.38
UHMC-04H04N	1/4	1/4	0.30	0.19	0.19	9/16	1.65	0.79	0.56
UHMC-04H06N	1/4	3/8	0.30	0.19	0.19	11/16	1.66	0.79	0.56
UHMC-04H08N	1/4	1/2	0.30	0.19	0.49	7/8	1.85	0.79	0.75
UHMC-05H02N	5/16	1/8	0.38	0.19	0.19	7/16	1.55	0.87	0.38
UHMC-05H04N	5/16	1/4	0.38	0.19	0.19	9/16	1.73	0.87	0.56
UHMC-05H06N	5/16	3/8	0.38	0.19	0.19	11/16	1.74	0.87	0.56
UHMC-05H08N	5/16	1/2	0.38	0.19	0.47	7/8	1.96	0.87	0.75
UHMC-06H04N	3/8	1/4	0.45	0.30	0.30	9/16	1.73	0.87	0.56
UHMC-06H06N	3/8	3/8	0.45	0.30	0.30	11/16	1.74	0.87	0.56
UHMC-06H08N	3/8	1/2	0.45	0.30	0.30	7/8	1.96	0.87	0.75
UHMC-08H04N	1/2	1/4	0.60	0.38	0.28	11/16	1.80	0.94	0.56
UHMC-08H06N	1/2	3/8	0.60	0.38	0.38	11/16	1.81	0.94	0.56
UHMC-08H08N	1/2	1/2	0.60	0.38	0.38	7/8	2.03	0.94	0.75
UHMC-10H08N	5/8	1/2	0.75	0.47	0.47	1-1/16	2.07	0.98	0.75
UHMC-10H12N	5/8	3/4	0.75	0.50	0.63	1-1/16	2.07	0.98	0.75
UHMC-12H08N	3/4	1/2	0.90	0.63	0.47	1-1/16	2.14	1.05	0.75
UHMC-12H12N	3/4	3/4	0.90	0.63	0.63	1-1/16	2.14	1.05	0.75
UHMC-12H16N	3/4	1	0.90	0.63	0.88	1-3/8	2.43	1.05	0.94
UHMC-16H12N	1	3/4	1.20	0.88	0.63	1-3/8	2.38	1.19	0.75
UHMC-16H16N	1	1	1.20	0.88	0.88	1-3/8	2.57	1.19	0.94

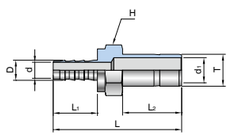
UHFC
Hose Female Connector



Connects Hose to Male Pipe

Part No.	Hose I.D.	P	Dimensions (mm)				
			D	d	H	L	L_1
UHFC-02H02N	1/8	1/8	0.15	0.08	9/16	1.11	0.40
UHFC-02H04N	1/8	1/4	0.15	0.08	3/4	1.26	0.40
UHFC-03H02N	3/16	1/8	0.23	0.12	9/16	1.29	0.59
UHFC-03H04N	3/16	1/4	0.23	0.12	3/4	1.44	0.59
UHFC-04H02N	1/4	1/8	0.30	0.19	9/16	1.47	0.79
UHFC-04H04N	1/4	1/4	0.30	0.19	3/4	1.64	0.79
UHFC-04H06N	1/4	3/8	0.30	0.19	7/8	1.71	0.79
UHFC-05H04N	5/16	1/4	0.38	0.19	3/4	1.73	0.87
UHFC-05H06N	5/16	3/8	0.38	0.19	7/8	1.82	0.87
UHFC-06H04N	3/8	1/4	0.45	0.30	3/4	1.69	0.87
UHFC-06H06N	3/8	3/8	0.45	0.30	7/8	1.78	0.87
UHFC-06H08N	3/8	1/2	0.45	0.30	1-1/16	2.03	0.87
UHFC-08H08N	1/2	1/2	0.60	0.38	1-1/16	2.13	0.94

UHTA
Hose Tube Adapter



Connects Hose to UNILOK Tube Fitting

Part No.	Hose I.D.	Tube O.D. T	Dimensions (mm)						
			D	d	d_1	H	L	L_1	L_2
UHTA-02H02T	1/8	1/8	0.15	0.08	0.09	5/16	1.35	0.40	0.53
UHTA-02H04T	1/8	1/4	0.15	0.08	0.19	3/8	1.44	0.40	0.62
UHTA-04H04T	1/4	1/4	0.30	0.19	0.19	7/16	1.83	0.79	0.62
UHTA-04HM06T	1/4	6mm	0.30	0.19	0.18	7/16	1.86	0.79	0.62
UHTA-04H06T	1/4	3/8	0.30	0.19	0.28	7/16	1.90	0.79	0.69
UHTA-05H04T	5/16	1/4	0.37	0.19	0.19	7/16	1.91	0.87	0.62
UHTA-06H06T	3/8	3/8	0.45	0.30	0.28	9/16	1.98	0.87	0.69
UHTA-06H08T	3/8	1/2	0.45	0.30	0.39	5/8	2.20	0.87	0.91
UHTA-08H06T	1/2	3/8	0.60	0.38	0.28	11/16	2.05	0.94	0.69
UHTA-08H08T	1/2	1/2	0.60	0.38	0.39	11/16	2.27	0.94	0.91
UHTA-12H12T	3/4	3/4	0.90	0.63	0.59	1-1/16	2.44	1.05	0.97

How To Order

Standard materials is 316SS. To order, add - SS to the end of part number.

Example: *UHMC-08H08N-SS*

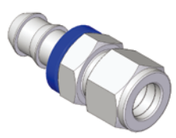
Cleaning

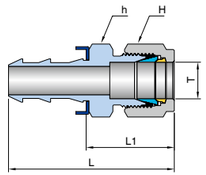
UNILOK fittings are free from machine oils, loose particles and grease throughout the close cleaning process.

Dimensions are for reference only and are subject to change without prior notice.

Easy and quick installation
for soft plastic or rubber hose

UHPTFA
Push-On Hose Tube Fitting Adapter

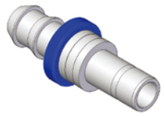


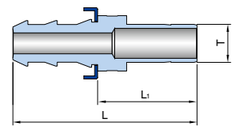


Connects Hose to Tube

Part No.	Hose I.D.	Tube O.D. T	Dimensions (mm)			
			H	h	L	L_1
UHPTFA-04H04	1/4	1/4	9/16	9/16	50.0	30.7
UHPTFA-06H06	3/8	3/8	11/16	11/16	53.6	31.5
UHPTFA-08H08	1/2	1/2	7/8	7/8	62.7	36.1

UHPTA
Push-On Hose Tube Adapter

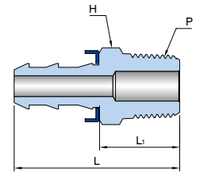




Connects Hose to UNILOK Tube Fitting

Part No.	Hose I.D.	Tube O.D. T	Dimensions (mm)	
			L	L_1
UHPTA-04H04T	1/4	1/4	49.0	29.7
UHPTA-06H06T	3/8	3/8	51.6	29.5
UHPTA-08H08T	1/2	1/2	62.7	36.1
UHPTA-12H12T	3/4	3/4	79.8	37.3

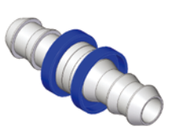
UHPMC
Push-On Hose Male Connector

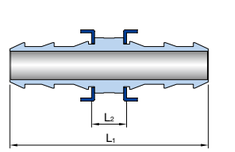


Connects Hose to Male Pipe

Part No.	Hose I.D.	P	Dimensions (mm)		
			H	L	L_1
UHPMC-04H04	1/4	1/4	9/16	42.7	23.4
UHPMC-06H04	3/8	1/4	11/16	45.7	23.6
UHPMC-06H06	3/8	3/8	11/16	45.7	23.6
UHPMC-08H08	1/2	1/2	7/8	55.6	29.0
UHPMC-12H12	3/4	3/4	1-1/16	71.4	28.9

UHPSU
Push-On Hose Straight Union





Connects Hose

Part No.	Hose I.D.	Tube O.D. T	Dimensions (mm)	
			L_1	L_2
UHPSU-04H04H	1/4	1/4	52.6	14.0
UHPSU-06H06H	3/8	3/8	57.2	13.0
UHPSU-08H08H	1/2	1/2	69.4	13.0
UHPSU-12H12H	3/4	3/4	100.8	13.0

How To Order

Standard materials is 316SS. To order, add - SS to the end of part number.

Example: *UHPTFA-08H08T-SS*

Cleaning

UNILOK fittings are free from machine oils, loose particles and grease throughout the close cleaning process.

Dimensions are for reference only and are subject to change without prior notice.

Hose Fittings

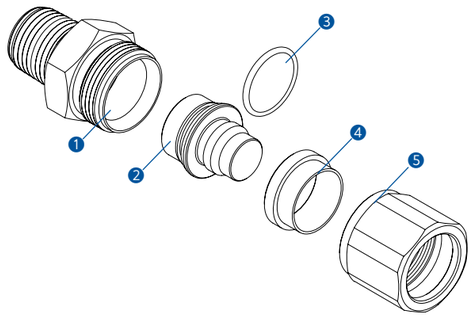
Features

- UHFM the structure and assembly is simple.
- To prevent separation of the hose.
- The Body can be replaced with UMC or UME.
  (UMC = Male Connector, UME = Male Elbow)
- It can be disassembled and reassembled.

Assembly Method

- Cut the hose surface evenly.
- Insert the nut and sleeve on the hose.
- Insert the hose in the insert parts.
  (The surface of the hose should touch the wall at the end of insert parts.)
- Insert the nut and sleeve on the hose.
- The nut is assembled to touch the body wall.

Materials of Construction



No.	Description	Materials
1	BODY	316SS
2	INSERT	304SS
3	O-RING	FKM
4	SLEEVE	POLYCETAL
5	FEMALE NUT	316SS

Working Pressure

Hose Size (mm) I.D.*O.D.	Working Pressure (MPa)
6*11-10*16	0-1.0
12*18-15*22	0-0.8
19*26-25*33	0-0.6
32*41	0-0.4

- Available Hose : Soft PVC
- Use the hose size indicated in the catalog.
- Working pressure is can be changed by used hose.

Cleaning

UNIOK Hose fittings are free from machine oils, loose particles and grease throughout the close cleaning process.

Important Notification

Proper installation, materials compatibility, operation and maintenance of these valves are the responsibility of the user. The total system design must be taken into consideration to ensure optimal Performance and safety.

thread is applied depends on the body.

How To order

UNIOK UHFM series Hose Fitting are ordered by part number as shown below.

Example: The following part number, ***UHFMC-H0915-04R-SS*** is designated for UHFM series Hose Fitting, Body Type UMC, Hose Size(I.D*O.D) 09*15, Body thread 1/4"PT, 316SS.

U	HFMC	-	H0915	-	04	R	-	SS
UNILOK	Fitting Type		Hose Size		Pipe Size	Thread Type		Body Materials

Fitting Type	
Male Connector	HFMC
Male Elbow	HFME

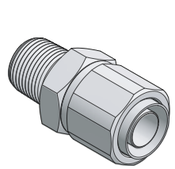
Hose Size							
Hose Size (I.D.*O.D.)	mm	8*13.5	9*15	10*16	12*18	15*22	19*26	25*33
Designator		H0813	H0915	H1016	H1218	H1522	H1926	H2533

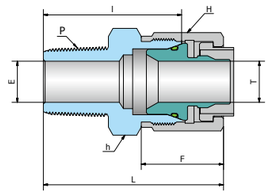
Pipe Size Designation (NPT or ISO7/1-PT)						
Pipe Size	1/8	1/4	3/8	1/2	3/4	1
Designator	02	04	06	08	12	16

Thread Type Designation		
Designator	Thread Type	
N	NPT	National Standard Pipe Thread
R	ISO 7/1	Taper Pipe Thread

Body Materials	
Designator	SS
Materials	316SS

UHFMC



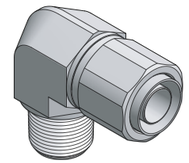


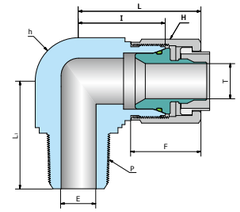
Part No.	P ISO7/1	Dimensions (mm)								
		E Min.	H		h		L	F	I	T
			inch	mm	inch	mm				
UHFMC-H0611-02R	1/8	4.8	15/16	23.81	13/16	20.63	39.1	22.0	28.7	6.0
UHFMC-H0611-04R	1/4	7.1	15/16	23.81	13/16	20.63	43.7	22.0	33.3	6.0
UHFMC-H0611-06R	3/8	9.7	15/16	23.81	13/16	20.63	43.7	22.0	33.3	6.0
UHFMC-H0611-08R	1/2	10.4	15/16	23.81	7/8	22.22	49.3	22.0	38.9	6.0
UHFMC-H0611-12R	3/4	10.4	15/16	23.81	1-1/16	26.98	50.8	22.0	40.4	6.0
UHFMC-H0611-16R	1	10.4	15/16	23.81	1-3/8	34.92	57.4	22.0	47.0	6.0
UHFMC-H0813-02R	1/8	4.8	15/16	23.81	13/16	20.63	39.1	22.0	28.7	8.0
UHFMC-H0813-04R	1/4	7.1	15/16	23.81	13/16	20.63	43.7	22.0	33.3	8.0
UHFMC-H0813-06R	3/8	9.7	15/16	23.81	13/16	20.63	43.7	22.0	33.3	8.0
UHFMC-H0813-08R	1/2	10.4	15/16	23.81	7/8	22.22	49.3	22.0	38.9	8.0
UHFMC-H0813-12R	3/4	10.4	15/16	23.81	1-1/16	26.98	50.8	22.0	40.4	8.0
UHFMC-H0813-16R	1	10.4	15/16	23.81	1-3/8	34.92	57.4	22.0	47.0	8.0
UHFMC-H0915-04R	1/4	7.1	15/16	23.81	15/16	23.81	44.7	22.5	34.0	9.0
UHFMC-H0915-06R	3/8	9.7	15/16	23.81	15/16	23.81	44.7	22.5	34.0	9.0
UHFMC-H0915-08R	1/2	11.9	15/16	23.81	15/16	23.81	49.6	22.5	38.9	9.0
UHFMC-H0915-12R	3/4	12.7	15/16	23.81	1-1/16	26.98	51.1	22.5	40.4	9.0
UHFMC-H1016-04R	1/4	7.1	15/16	23.81	15/16	23.81	44.7	22.5	34.0	10.0
UHFMC-H1016-06R	3/8	9.7	15/16	23.81	15/16	23.81	44.7	22.5	34.0	10.0
UHFMC-H1016-08R	1/2	11.9	15/16	23.81	15/16	23.81	49.6	22.5	38.9	10.0
UHFMC-H1016-12R	3/4	12.7	15/16	23.81	1-1/16	26.98	51.1	22.5	40.4	10.0
UHFMC-H1218-06R	3/8	10.4	1-1/16	26.98	1-1/16	26.98	47.6	24.0	35.4	12.0
UHFMC-H1218-08R	1/2	11.9	1-1/16	26.98	1-1/16	26.98	52.6	24.0	40.4	12.0
UHFMC-H1218-12R	3/4	15.7	1-1/16	26.98	1-1/16	26.98	52.6	24.0	40.4	12.0
UHFMC-H1218-16R	1	15.7	1-1/16	26.98	1-3/8	34.92	59.2	24.0	47.0	12.0
UHFMC-H1522-12R	3/4	15.7	1-1/4	31.75	1-3/16	30.16	53.6	25.0	40.4	15.0
UHFMC-H1522-16R	1	18.3	1-1/4	31.75	1-3/8	34.92	60.2	25.0	47.0	15.0
UHFMC-H1926-08R	1/2	11.9	1-1/2	38.10	1-3/8	34.92	58.2	27.0	45.2	19.0
UHFMC-H1926-12R	3/4	15.7	1-1/2	38.10	1-3/8	34.92	58.2	27.0	45.2	19.0
UHFMC-H1926-16R	1	22.4	1-1/2	38.10	1-3/8	34.92	63.0	27.0	50.0	19.0
UHFMC-H2533-16R	1	22.4	1-1/4	44.45	1-3/4	44.45	75.9	37.5	55.1	25.0
UHFMC-H2533-20R	1-1/4	27.7	1-1/4	44.45	1-3/4	44.45	75.9	37.5	55.1	25.0

NPT threads are available for all metric UHFMC. To order, add "N" as a suffix instead of "R".

Dimensions are for reference only and are subject to change without prior notice.

UHFME





Part No.	P ISO7/1	Dimensions (mm)									
		E Min.	H		h		L	L_1	F	I	T
			inch	mm	inch	mm					
UHFME-H0611-04R	1/4	7.1	15/16	23.81	13/16	20.63	36.3	28.3	22.0	25.9	6.0
UHFME-H0611-06R	3/8	9.7	15/16	23.81	13/16	20.63	36.3	28.3	22.0	25.9	6.0
UHFME-H0611-08R	1/2	10.4	15/16	23.81	13/16	20.63	36.3	33.0	22.0	25.9	6.0
UHFME-H0813-02R	1/8	4.8	15/16	23.81	13/16	20.63	36.3	23.3	22.0	25.9	8.0
UHFME-H0813-04R	1/4	7.1	15/16	23.81	13/16	20.63	36.3	28.3	22.0	25.9	8.0
UHFME-H0813-06R	3/8	9.7	15/16	23.81	13/16	20.63	36.3	28.3	22.0	25.9	8.0
UHFME-H0813-08R	1/2	10.4	15/16	23.81	13/16	20.63	36.3	33.0	22.0	25.9	8.0
UHFME-H0915-04R	1/4	7.1	15/16	23.81	15/16	23.81	37.6	30.2	22.5	26.9	9.0
UHFME-H0915-06R	3/8	9.7	15/16	23.81	15/16	23.81	37.6	30.2	22.5	27.9	9.0
UHFME-H1016-04R	1/4	7.1	15/16	23.81	15/16	23.81	37.6	30.2	22.5	26.9	10.0
UHFME-H1016-06R	3/8	9.7	15/16	23.81	15/16	23.81	37.6	30.2	22.5	27.9	10.0
UHFME-H1016-08R	1/2	11.9	15/16	23.81	15/16	23.81	37.6	35.1	22.5	27.9	10.0
UHFME-H1218-04R	1/4	7.1	1-1/16	26.98	1-1/16	26.98	41.9	31.9	24.0	29.7	12.0
UHFME-H1218-06R	3/8	9.7	1-1/16	26.98	1-1/16	26.98	41.9	31.9	24.0	29.7	12.0
UHFME-H1218-08R	1/2	11.9	1-1/16	26.98	1-1/16	26.98	41.9	36.8	24.0	29.7	12.0
UHFME-H1218-12R	3/4	15.7	1-1/16	26.98	1-1/16	26.98	41.9	36.8	24.0	29.7	12.0
UHFME-H1926-12R	3/4	15.7	1-1/2	38.10	1-3/8	34.92	49.8	41.7	27.0	36.8	19.0
UHFME-H1926-16R	1	22.4	1-1/2	38.10	1-3/8	34.92	49.8	46.5	27.0	36.8	19.0
UHFME-H2533-16R	1	22.4	1-3/4	44.45	1-11/16	42.86	64.8	51.3	37.5	44.0	25.0
UHFME-H2533-20R	1-1/4	27.7	1-3/4	44.45	1-11/16	42.86	64.8	51.1	37.5	44.0	25.0

NPT threads are available for all metric UHFME. To order, add "N" as a suffix instead of "R".

Dimensions are for reference only and are subject to change without prior notice.

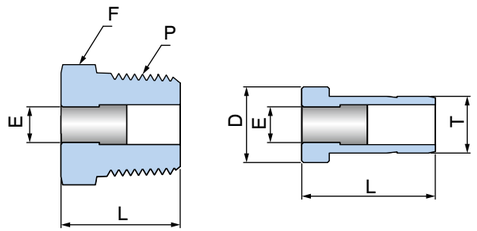
Fusible Fittings

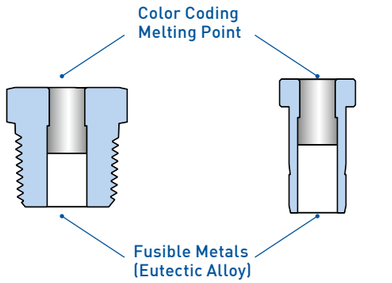
Features

Temperature rating from 71°C(160°F) to 138°C (281°F) with 4 temperature ranges
Two types of fittings - Tube Adapters and Pipe Plugs with 316SS body

Application

When the fitting is exposed to the temperature at or above the melting point of fusible metals, the fusible metal will be melt and the inside pressure of fitting will be released toprotect the systems.





UFPG
Pipe Plug Type

UFTA
Tube Adapter Type

Fusible Metal Option

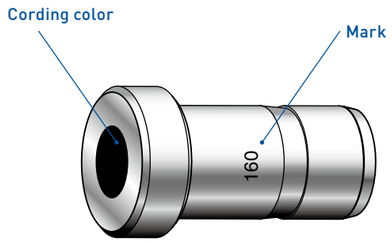
Designator	Mark	Color Cording	Melting Point	
			℉	℃
160	160	Black	160	71
211	211	Orange	211	100
255	255	Green	255	124
281	281	Red	281	138

Ordering Information & Dimensions

Part No.	Tube O.D. T	Dimensions (mm)		
		E	L	D
UFTA-04T	1/4	4.3	20.6	9.53
UFTA-06T	3/8	6.4	22.4	12.70
UFTA-08T	1/2	6.4	28.4	15.90

Part No.	Pipe Size P	Dimensions (mm)		
		E	L	F (Hex.)
UFPG-04N	1/4	6.4	24.1	14.28
UFPG-06N	3/8	6.4	26.9	17.46
UFPG-08N	1/2	8.7	30.5	22.22

ISO 7/1 Tapered Threads (PT) are available for all fractional sizes of UFPG. Add "R" as a suffix instead of "N".



How To Order

Part number for fusible fitting which is tube adapter type, 3/8"OD, 316SS body, 160F melting point is
UFTA-06T-SS-160

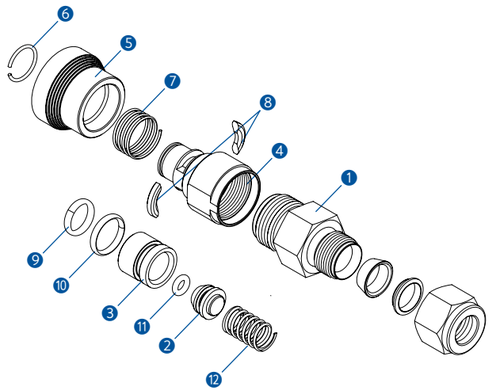
Dimensions are for reference only and are subject to change without prior notice.

INSTRUMENT

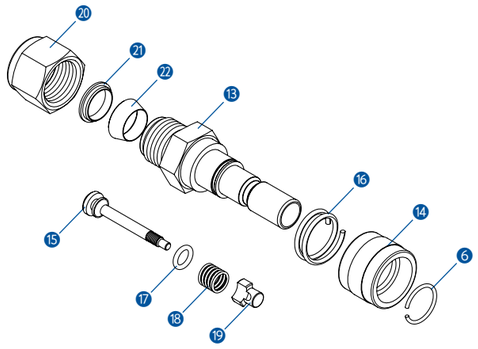
Quick Connectors

Features

- It was designed to flow in both directions.
- Coupling and uncoupling enables quick, easy operation.
- Simply push and pull the line can be connected and disconnected.
- No tools needed was a compact and lightweight design.
- There are two kinds of stems.
- Single type stems have no valve.
- Double type stem have valve.



BODY



STEM

Operation

- When coupling and uncoupling, Should not be used to exceed the pressure of 250 psi (17.2 bar).
- Coupling
  Placed on the stem and the body straight.
  Connect by inserting the stem in the body.
- Uncoupling
  Pull the body sleeve to the stem direction.
  Remove the stem inserted in the body.

Materials of Construction

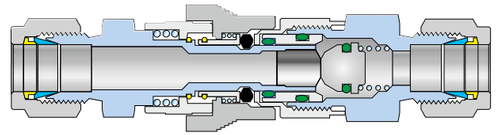
BODY

No.	Description	Materials
1	BODY	316SS
2	BODY POPPET	316SS
3	BODY INSERT	316SS
4	HOUSING	316SS
5	BODY SLEEVE	316SS
6	C-RING	304SS
7	SPRING	304SS
8	LOCKING DOGS	316SS Powdered metal
9	O-RING	FKM
10	O-RING	FKM
11	O-RING	FKM
12	SPRING	304SS

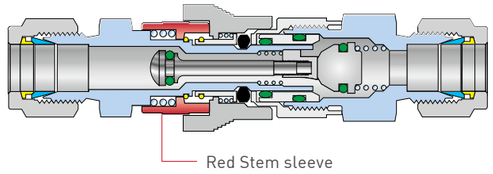
STEM

No.	Description	Materials
13	STEM	316SS
14	STEM SLEEVE	316SS
15	STEM VALVE	316SS
16	SPRING	304SS
17	O-RING	FKM
18	SPRING	304SS
19	VALVE INSERT	316SS
20	NUT	316SS
21	BACK FERRULE	316SS
22	FRONT FERRULE	316SS

SEC : Single End Coupled



DEC : Double End Coupled



FLOW

Pressure-Temperature Ratings

UQ Stem and Body	316SS FKM O-rings			Brass NBR O-rings		
	UQ1	UQ2	UQ3	UQ1	UQ2	UQ3
	psi (bar) @ °F (°C)					
Coupled	3000 (206) @70 (21)	1500 (103) @70 (21)	750 (51.6) @70 (21)	2000 (137) @70 (21)	1000 (68.9) @70 (21)	500 (34.4) @70 (21)
	250 (17.2)@400 (204)			250 (17.2)@250 (121)		
Uncoupled	250 (17.2) @ 70 (21) Do not couple or uncouple at pressures exceeding 250 psig (17.2 bar).					
When coupling and uncoupling						

Spillage and Air Inclusion

UQ Series	Spillage (cm³)	Air Inclusion (cm³)
UQ1	0.3	0.3
UQ2	1.0	1.0
UQ3	3.0	3.0

- Spillage is the volume of system fluid that escapes while a quick connector is uncoupled. (Only double)
- Air inclusion is the volume of air trapped that comes in while a quick connector is coupled. (Only double)

Insertion depth

UQ Series	Depth mm (in)	
	SEC	DEC
UQ1	27.7(1.09)	29.2(1.15)
UQ2	30.0(1.18)	33.0(1.30)
UQ3	37.6(1.48)	42.7(1.68)

Insertion depth and Overall Length

- To obtain a combined length and add the length of the body and stem, subtract the insertion depth.

Cleaning

UNIOK quick connectors are free machine oil, loose particles and grease throughout the close cleaning process.

Testing

Every UQ series quick connector is 100% factory tested for proper functionality.

Important Notification

Proper installation, materials compatibility, operation and maintenance of these valves are the responsibility of the user. The total system design must be taken into consideration to ensure optimal Performance and safety.

Do not couple or uncouple at pressures exceeding 250 psig (17.2 bar).

Prohibit the together use with quick connectors of other companies.

How To order

UNIOK UQ series Quick Connectors are ordered by part number as shown below.

Example: The following part number, ***UQB3U-08T-SS*** is designated for UQB3 series Quick Connector with both 1/2" UNILOK tube fitting, 316SS.

U	QB3	U	-	08T	-	SS	-	
UNILOK	Valve tType	Connection Type		Connection Size		Body Materials		Option

Valve Type		
Body	Body	QB
Stem	Single	QS
	Double	QD
Set	Single	QBS
	Double	QBD
Bulkhead-Body	Bulkhead-Body	BQB
Bulkhead -Stem	Single	BQS
	Double	BQD
Bulkhead -Set	Single	BQBS
	Double	BQBD

Connection Type	
U	UNILOK Tube Fitting
F	Female NPT or ISO7/1(PT)
M	Male NPT or ISO7/1(PT)

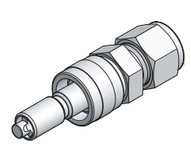
Connection Size					
Fractional(Inch) Tube O.D. Designation					
Tube O.D.	inch	1/8	1/4	3/8	1/2
	mm	3.17	6.35	9.52	12.7
Designator		02T	04T	06T	08T

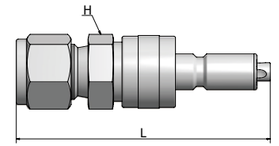
Metric Tube O.D. Designation				
Tube O.D.	mm	6	10	12
Designator		M06T	M10T	M12T

Pipe Size Designation (NPT or ISO7/1-PT)			
Pipe Size	1/4	3/8	1/2
Designator	04N/R	06N/R	08N/R

Body Materials	
SS	316SS
BS	Brass

Ordering Information & Dimensions Stems (UQD)





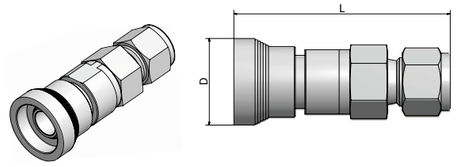
SEC : There's no a valve in the stem.
DEC: There's a valve in the stem.

Part Number Series (* = S or D)		End Connection		Cv			Dimensions (mm)			
		Inlet	Outlet	SEC	DEC	Full Flow	L		H	
							SEC	DEC	inch	mm
UQ*1	U-02T-	1/8" UNILOK		0.08	0.08	0.08	58.9	70.4	9/16	14.28
	U-04T-	1/4" UNILOK		0.3	0.2	0.4	59.9	61.5	9/16	14.28
	U-M06T-	6 mm UNILOK		0.3	0.2	0.4	59.9	61.5	9/16	14.28
	M-02N-	1/8" Male NPT		0.3	0.2	0.4	52.6	54.1	9/16	14.28
	M-04N-	1/4" Male NPT		0.3	0.2	0.4	56.4	57.9	9/16	14.28
	F-02N-	1/8" Female NPT		0.3	0.2	0.4	51.1	52.6	9/16	14.28
	F-04N-	1/4" Female NPT		0.3	0.2	0.4	57.4	58.9	3/4	19.05
UQ*2	U-06T-	3/8" UNILOK		1.0	0.5	1.5	64.0	67.1	3/4	19.05
	U-M10T-	10 mm UNILOK		1.0	0.5	1.5	67.3	70.4	3/4	19.05
	M-04N-	1/4" Male NPT		0.9	0.5	1.5	58.9	61.9	3/4	19.05
	M-06N-	3/8" Male NPT		0.8	0.5	1.6	59.7	62.7	3/4	19.05
	F-04N-	1/4" Female NPT		0.9	0.5	1.5	59.7	62.7	3/4	19.05
	F-06N-	3/8" Female NPT		0.8	0.5	1.6	59.7	62.7	7/8	22.22
UQ*3	U-08T-	1/2" UNILOK		2.4	1.5	3.3	75.2	80.3	15/16	23.81
	U-M12T-	12mm UNILOK		2.4	1.5	3.3	75.2	80.3	15/16	23.81
	M-08N-	1/2" Male NPT		2.0	1.3	3.1	72.1	77.2	15/16	23.81
	F-08N-	1/2" Female NPT		2.0	1.3	3.1	71.6	76.7	1-1/16	26.98

NPT threads are available for all STEM. To order, add "R" as a suffix instead of "N"

Dimensions are for reference only and are subject to change without prior notice.

Ordering Information & Dimensions Bodies (UQB)



Part Number		End Connection		Dimensions (mm)	
		Inlet	Outlet	L	D
UQ*1	U-02T-	1/8" UNILOK		57.4	23.1
	U-04T-	1/4" UNILOK		56.4	23.1
	U-M06T-	6mm UNILOK		58.4	23.1
	M-02N-	1/8" Male NPT		51.1	23.1
	M-04N-	1/4" Male NPT		54.9	23.1
	F-02N-	1/8" Female NPT		54.9	23.1
	F-04N-	1/4" Female NPT		61.5	23.1
UQ*2	U-06T-	3/8" UNILOK		65.5	26.2
	U-M10T-	10mm UNILOK		68.1	26.2
	M-04N-	1/4" Male NPT		60.5	26.2
	M-06N-	3/8" Male NPT		60.5	26.2
	F-04N-	1/4" Female NPT		64.5	26.2
	F-06N-	3/8" Female NPT		65.3	26.2
UQ*3	U-08T-	1/2" UNILOK		78.5	30.7
	U-M12T-	12mm UNILOK		78.5	30.7
	M-08N-	1/2" Male NPT		75.4	30.7
	F-08N-	1/2" Female NPT		81.8	30.7

NPT threads are available for all BODY. To order, add "R" as a suffix instead of "N"

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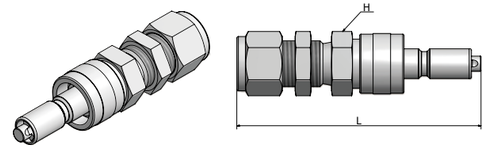
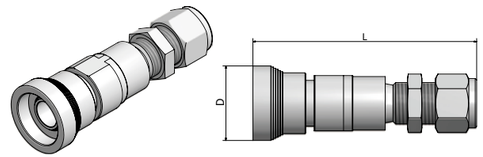
Ordering Information & Dimensions Stems-Bulkhead



SEC : There's no a valve in the stem.
DEC: There's a valve in the stem.

Part Number Series (* = S or D)		End Connection		Dimensions (mm)					
		Inlet	Outlet	Panel Thickness Max.	Panel Hole Dia Min.	L		H	
						SEC	DEC	inch	mm
UBQ*1	U-04T-	1/4" UNILOK		6.4	11.9	69.6	71.1	5/8	15.88
	U-M06T-	6mm UNILOK		6.4	11.5	69.6	71.1	11/16	17.46
UBQ*2	U-06T-	3/8" UNILOK		6.9	15.1	74.2	78	3/4	19.05
	U-M10T-	10mm UNILOK		6.9	16.7	77.7	78.7	7/8	22.22
UBQ*3	U-08T-	1/2" UNILOK		6.6	19.8	87.1	92.2	15/16	23.81
	U-M12T-	12mm UNILOK		6.6	19.4	87.1	92.2	1	25.40

Ordering Information & Dimensions Bodies-Bulkhead



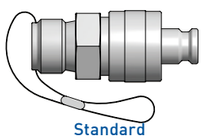
Part Number		End Connection		Dimensions (mm)			
		Inlet	Outlet	Panel Thickness Max.	Panel Hole Dia Min.	L	D
UBQB1	U-04T-	1/4" UNILOK		6.4	11.9	67.8	23.1
	U-M06T-	6mm UNILOK		6.4	11.9	67.8	23.1
UBQB2	U-06T-	3/8" UNILOK		6.9	15.1	75.7	26.2
	U-M10T-	10mm UNILOK		6.9	16.7	75.9	26.2
UBQB3	U-08T-	1/2" UNILOK		6.6	19.8	90.4	30.7
	U-M12T-	12mm UNILOK		6.6	19.4	90.4	30.7

Dimensions are for reference only and are subject to change without prior notice

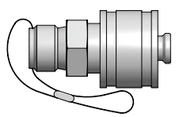
Stem and Body Protectors

Features

- The protectors protect the uncoupling body and stem from contaminants and damage.
- Protectors are not a device for maintaining the pressure.

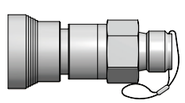


Standard

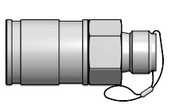


Keyed

Stem Protectors



Standard



Keyed

Body Protectors

Materials

Component	Materials
Protector	316SS or Brass
Lanyard	316SS
Lanyard clamps	316SS

How to order

Part Number			* = Materials
Series	Basic Ordering Numbers		
	Stem Protector	Body Protector	
UQ1	SP-*	BP-*	316SS=SS Brass=BS
UQ2			
UQ3			

Protectors
Example: *UQ1SP-SS*

Keyed Protectors
Add a key number from the table under table to the key number.
Example: *UQ1SP-SS-KB*

UQ color coded “Keyed” Quick Connectorst

Features

- UQ Keyed quick connectors provide a positive mechanical lockout system.
- A product to prevent the connection lines of different systems.
- This is useful when many lines in the system.

Ordering Information & Dimensions

Key Number	Key Color	UQ1				UQ2				UQ3			
		Body Sleeve		Stem Sleeve		Body Sleeve		Stem Sleeve		Body Sleeve		Stem Sleeve	
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
KB	Black	0.96	24.5	0.82	20.9	1.13	28.7	0.99	25.1	1.26	32.0	1.10	27.9
KO	Orange	0.99	25.0	0.85	21.6	1.16	29.5	1.02	25.8	1.29	32.8	1.14	28.9
KG	Green	1.02	26.0	0.88	22.4	1.19	30.2	1.05	26.6	1.32	33.6	1.17	29.7
KY	Yellow	1.05	26.8	0.91	23.2	1.22	31.0	1.08	27.4	1.35	34.3	1.20	30.4
KS	Blue	1.08	27.5	0.94	23.9	1.24	31.5	1.11	28.1	1.38	35.1	1.23	31.2
KW	White	1.11	28.3	0.97	24.7	1.28	32.5	1.14	28.9	1.41	35.8	1.26	32.0
KP	Purple	1.14	29.1	1.00	25.4	1.31	33.3	1.17	29.7	1.44	36.6	1.29	32.7
KN	Brown	1.17	29.8	1.03	26.2	1.34	34.0	1.20	30.4	1.47	37.4	1.32	33.5
Standard UQ Body Sleeve Dia.		0.91	23.1			1.03	26.2			1.21	30.7		

Dimensions are for reference only and are subject to change without prior notice.

INSTRUMENT

PTFE Fittings

Features

Maximum working pressure - 125 psi (8.6bar)
Maximum working temperature - 100℃(212℉)
Standard type fitting with simple structure and compact design
Easy Assembly taper swaging sealing system
Applicable sizes
- 1/4"~1/2" O.D., 6mm~12mm O.D.

Cleaning

UNILOK PTFE fittings are free from machine oils, loose particles and grease throughout the close cleaning process.
The special cleaning for high purity application is available upon request.

Applications

Ultrapure or corrosive chemical applications

How To order

UNILOK PTFE fittings are ordered by part number as shown below.

Example: The following part number, ***UMC-0404N-TF*** is designated for Male Connector, 1/4"O.D. x 1/4" M-NPT, PTFE.

U	MC	-	04	04	N	-	TF
UNILOK Tube Fittings	Fitting Type		Tube O.D.	Pipe Size	Thread Type		PTFE Materials

Fractional(Inch) Tube O.D. Designation				
Tube O.D.	inch	1/4	3/8	1/2
	mm	6.35	9.52	12.70
Designator		04	06	08

Pipe Size Designation (NPT or ISO7/1-PT)			
Pipe Size	1/4	3/8	1/2
Designator	04	06	08

Metric Tube O.D. Designation					
Tube O.D.	mm	6	8	10	12
Designator		M06	M08	M10	M12

Thread Type Designation		
Thread Type		Designator
NPT	National Standard Pipe Thread	N
ISO 7/1	Taper Pipe Thread	R

Visual Index

UU 111
Union

UEU 111
Union Elbow

UMC 112
Male Connector

URU 111
Reducing Union

UUT 112
Union Tee

UME 112
Male Elbow

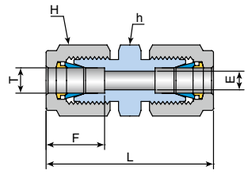
Nuts, Front Ferrules and Back Ferrule as ordered by part number separately .

UN
Nut

UFF
Front Ferrule

UBF
Back Ferrule

UU
Union



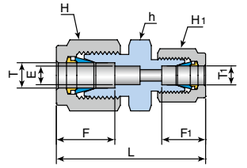
Connects Fractional Tube

Part No.	Tube O.D. T(inch)	Dimensions (mm)				
		E (Min)	h	H	F	L
UU-04-TF	1/4	4.8	15.87	15.87	15.2	43.2
UU-06-TF	3/8	7.0	20.63	20.63	17.0	45.7
UU-08-TF	1/2	10.0	25.40	25.40	22.9	52.1

Connects Metric Tube

Part No.	Tube O.D. T	Dimensions (mm)				
		E (Min)	h	H	F	L
UU-M06-TF	6	4.8	15.87	15.87	15.2	43.2
UU-M08-TF	8	6.4	17.46	17.46	16.2	43.5
UU-M10-TF	10	8.0	19.05	19.05	17.2	46.5
UU-M12-TF	12	9.5	25.40	25.40	22.9	52.1

URU
Reducing Union



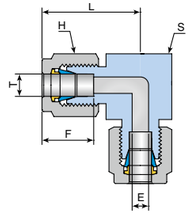
Connects Fractional Tube

Part No.	Tube O.D.		Dimensions (mm)						
	T_1	T_2	E (Min)	h	H	H_1	F	F_1	L
URU-0604-TF	3/8	1/4	4.8	20.63	20.63	15.87	17.0	15.2	45.0
URU-0804-TF	1/2	1/4	4.8	25.4	25.40	15.87	22.9	15.2	48.5
URU-0806-TF	1/2	3/8	7.0	25.4	25.40	20.63	22.9	17.0	49.3

Connects Metric Tube

Part No.	Tube O.D.		Dimensions (mm)						
	T_1	T_2	E (Min)	h	H	H_1	F	F_1	L
URU-M10M06-TF	10	6	4.8	19.05	19.05	15.87	17.20	15.2	45.4
URU-M12M06-TF	12	6	4.8	25.40	25.40	15.87	22.90	15.2	48.5
URU-M12M10-TF	12	10	7.0	25.40	25.40	19.05	22.90	17.2	49.7

UEU
Union Elbow



Connects Fractional Tube

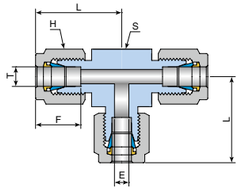
Part No.	Tube O.D. T	Dimensions (mm)				
		E (Min)	S	H	F	L
UEU-04-TF	1/4	4.8	15.87	15.87	15.2	28.7
UEU-06-TF	3/8	7.0	20.63	20.63	17.0	31.2
UEU-08-TF	1/2	10.0	25.40	25.40	22.9	36.8

Connects Metric Tube

Part No.	Tube O.D. T	Dimensions (mm)				
		E (Min)	S	H	F	L
UEU-M06-TF	6	4.8	15.87	15.87	15.2	28.7
UEU-M08-TF	8	6.4	17.46	17.46	16.2	31.1
UEU-M10-TF	10	8.0	19.05	19.05	17.2	31.6
UEU-M12-TF	12	9.5	25.40	25.40	22.9	36.8

Dimensions are for reference only and are subject to change without prior notice.

UUT
Union Tee



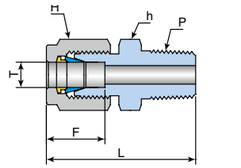
Connects Fractional Tube

Part No.	Tube O.D. T(inch)	Dimensions (mm)				
		E (Min)	h	H	F	L
UUT-04-TF	1/4	4.8	15.87	15.87	15.2	28.7
UUT-06-TF	3/8	7.0	20.63	20.63	17.0	31.2
UUT-08-TF	1/2	10.0	25.40	25.40	22.9	36.8

Connects Metric Tube

Part No.	Tube O.D. T	Dimensions (mm)				
		E (Min)	h	H	F	L
UUT-M06-TF	6	4.8	15.87	15.87	15.2	28.7
UUT-M08-TF	8	6.4	17.46	17.46	16.2	31.1
UUT-M10-TF	10	8.0	19.05	19.05	17.2	31.6
UUT-M12-TF	12	9.5	25.40	25.40	22.9	36.8

UMC
Male Connector



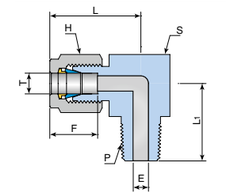
Connects Fractional Tube to Female Pipe

Part No.	Tube O.D. T(inch)	P (inch)	Dimensions (mm)				
			E (Min)	h	H	F	L
UMC-0404N-TF	1/4	1/4	4.8	15.87	15.87	15.2	39.1
UMC-0606N-TF	3/8	3/8	7.0	20.63	20.63	17.0	40.6
UMC-0808N-TF	1/2	1/2	10.0	25.40	25.40	22.9	49.0

Connects Metric Tube to Female Pipe

Part No.	Tube O.D. T	P (inch)	Dimensions (mm)				
			E (Min)	h	H	F	L
UMC-M0604N-TF	6	1/4	4.8	15.87	15.87	15.2	39.1
UMC-M0804N-TF	8	1/4	6.4	17.46	17.46	16.2	39.5
UMC-M1006N-TF	10	3/8	8.0	19.05	19.05	17.2	41.0
UMC-M1208N-TF	12	1/2	9.5	25.40	25.40	22.9	49.0

UME
Male Elbow



Connects Fractional Tube to Female Pipe

Part No.	Tube O.D. (inch)	P (inch)	Dimensions (mm)					
			E (Min)	h	H	F	L	L_1
UME-0404N-TF	1/4	1/4	4.8	15.87	15.87	15.2	28.7	24.4
UME-0606N-TF	3/8	3/8	7.0	20.63	20.63	17.0	31.2	26.2
UME-0808N-TF	1/2	1/2	10.0	25.40	25.40	22.9	36.8	33.8

Connects Metric Tube to Female Pipe

Part No.	Tube O.D. T	P (inch)	Dimensions (mm)					
			E (Min)	h	H	F	L	L_1
UME-M0604N-TF	6	1/4	4.8	15.87	15.87	15.2	28.7	24.4
UME-M0804N-TF	8	1/4	6.4	17.46	17.46	16.2	30.1	25.1
UME-M1006N-TF	10	3/8	8.0	19.05	19.05	17.2	31.6	26.6
UME-M1208N-TF	12	1/2	9.5	25.40	25.40	22.9	36.8	33.8

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