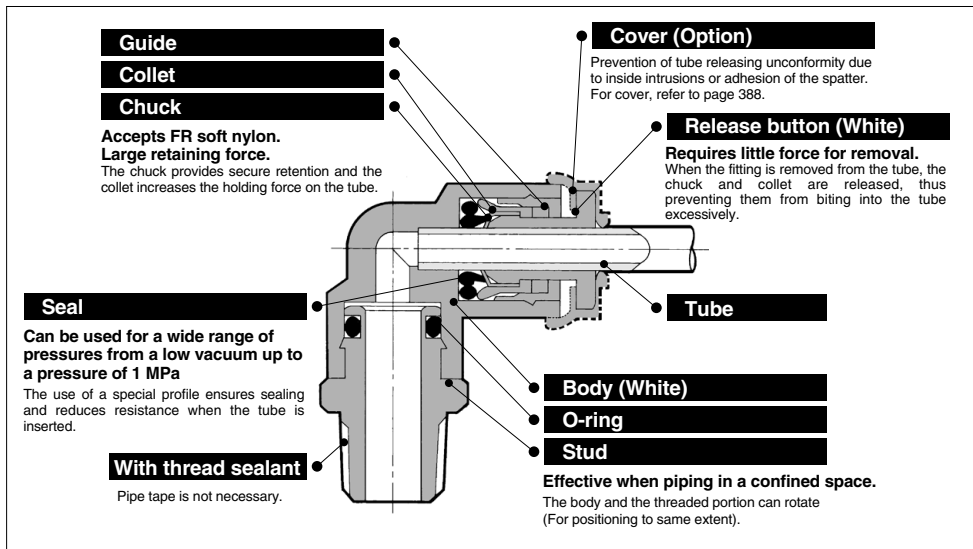


# Flame Resistant (Equivalent to UL-94 Standard V-0) FR One-touch Fittings **KR-W2 Series**



## Applicable Tubing

Tube material	FR double layer, FR soft nylon
Tube O.D.	FR double layer polyurethane, FR three-layer polyurethane ø6, ø8, ø10, ø12

## Specifications

<b>Fluid</b>		Air/Water (1, 2)
<b>Operating pressure range (3)</b>		-100 kPa to 1 MPa
<b>Proof pressure (at 23°C)</b>		3 MPa
<b>Ambient and fluid temperature</b>		-5 to 60°C (Water: 0 to 60°C) (No freezing)
<b>Thread</b>	<b>Mounting section</b>	JIS B 0203 (Taper thread for piping) JIS B 0205 (Metric coarse thread)
	<b>Nut section</b>	JIS B 0205 (Metric fine thread)
<b>Seal on the threads</b>		With sealant
<b>Flame resistance</b>		The external resin parts are equivalent to UL-94 standard V-0.

Note 1) The surge pressure must be under the maximum operating pressure.  
 Note 2) Deionized water is not recommended for use as it may affect the material used in the fittings.  
 In addition, it is known to degrade the water quality.  
 Note 3) Do not use the fittings with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.

## Principal Parts Material

Body	C3604, Flame resistant PBT (UL-94 standard V-0)
Stud	C3604 (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304, Flame resistant PBT (UL-94 standard V-0)
Collet	POM
Release button	Flame resistant PBT (UL-94 standard V-0)
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR
Cover (Option)	Flame resistant PBT, Flame resistant CR (UL-94 standard V-0)



Made to Order

Symbol	Specifications
X2	Copper-free (With electroless nickel plated)

Suffix "-X2" to the end of part number.  
 Example) KRH06-01SW2-X2

**Model**

**Male connector**

**KRH-W2** P.384



Use to pipe in the same direction from female thread. Most general type.

**Union elbow**

**KRL-W2** P.385



Use to connect tubes at right angles.

**Plug-in reducer**

**KRR-W2** P.387



Use to size down One-touch fittings.

**Straight union**

**KRH-W2** P.384



Use to connect tubes in the same direction.

**Extended male elbow**

**KRW-W2** P.385



Basically, it is used together with male elbow. Different point is that it is used for fittings to avoid from interfering with each other by making the piping two-level.

**Union "Y"**

**KRU-W2** P.386



Use to branch line in the same direction.

**Male elbow**

**KRL-W2** P.384



Use to pipe at right angles to female thread. Most general type.

**Extended plug-in elbow**

**KRW-W2** P.387



Use to change by 90° in a tube fetching direction from One-touch fittings. Can be used with the plug-in elbow for three-dimensional pipe arrangement.

**Plug-in "Y"**

**KRU-W2** P.386



Use to branch line in the same direction from One-touch fittings.

**45° male elbow**

**KRK-W2** P.384



Use to pipe in 45° angle direction from female thread. Model in-between of male connector and male elbow.

**Male branch tee**

**KRT-W2** P.385



Use to branch line from female thread in both 90° directions.

**Branch**

**KRU-W2** P.386



Use to branch line in the same direction from female thread.

**Universal male elbow**

**KRV-W2** P.385



Universal male elbow allows thread connection by using a socket wrench for confined spaces.

**Union tee**

**KRT-W2** P.385



Use to connect tubes in both 90° directions.

**Bulkhead union**

**KRE-W2** P.387



Use to connect tubes through a panel.

**Plug-in elbow**

**KRL-W2** P.387



Use to change by 90° in a tube fetching direction from One-touch fittings.

**Male run tee**

**KRY-W2** P.386



Use to branch line in the same direction from female thread and in 90° direction.

**Bulkhead Connector**

**KRE-W2** P.387



Use to connect male thread and tube through a panel.

**Spatter cover**

**KR** P.388



Prevention of tube releasing unconformity due to an inside intrusion or adhesion of the spatter.

**Spatter cover**

**KR-□C1** P.388



Prevention of tube releasing unconformity due to an inside intrusion or adhesion of the spatter.

**Plug**

**KRP** P.388



Use to plug unused One-touch fittings.

# KR-W2 Series

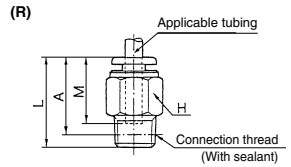
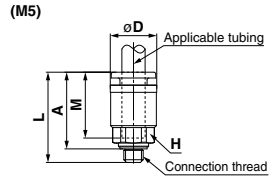
## Dimensions

### Male Connector: KRH-W2



Applicable tubing O.D. (mm)	Connection thread M, R	Model	H (width across flats)	L	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)
							FR double layer	FR soft nylon	
6	M5 x 0.8	KRH06-M5W2	10	23.3	19.8	17	4	4	6
	1/8	KRH06-01SW2	12	21.6	18.5				
	1/4	KRH06-02SW2	14	22.5	17				
	3/8	KRH06-03SW2	17	20.9	15.5				
8	1/8	KRH08-01SW2	14	27.1	24	18.5	26.1	18.0	21
	1/4	KRH08-02SW2							
	3/8	KRH08-03SW2							
	1/2	KRH10-01SW2							
10	1/4	KRH10-02SW2	17	33	27.5	21	41.5	29.5	30
	3/8	KRH10-03SW2							
	1/2	KRH10-04SW2							
	3/4	KRH12-02SW2							
12	1/4	KRH12-02SW2	19	34	28.5	22	58.3	46.1	34
	3/8	KRH12-03SW2							
	1/2	KRH12-04SW2							
	3/4	KRH12-04SW2							

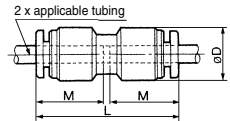
\* Reference dimensions after R thread installation.



### Straight Union: KRH-W2



Applicable tubing O.D. (mm)	Model	øD	L	M	Effective area (mm <sup>2</sup> )		Weight (g)
					FR double layer	FR soft nylon	
6	KRH06-00W2	12.8	34.5	17	10.4	5.6	4
8	KRH08-00W2	15.2	38.5	18.5	26.1	18.0	6
10	KRH10-00W2	18.5	42.5	21	41.5	29.5	11
12	KRH12-00W2	20.9	44.5	22	58.3	46.1	14

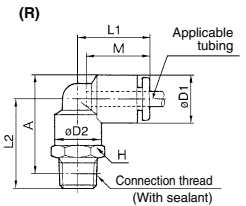
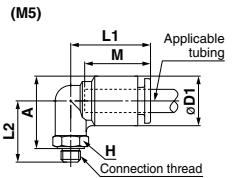


### Male Elbow: KRL-W2



Applicable tubing O.D. (mm)	Connection thread M, R	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)			
										FR double layer	FR soft nylon				
6	M5 x 0.8	KRL06-M5W2	8	12.8	8	20.5	15.8	18.7	17	3.5	3.5	5			
	1/8	KRL06-01SW2											10	22.1	25.5
	1/4	KRL06-02SW2											14	26.5	27.5
	3/8	KRL06-03SW2											17	27.9	29
8	1/8	KRL08-01SW2	12	15.2	12	23	28	30	18.5	21.6	14.9	21			
	1/4	KRL08-02SW2											14	29.4	31.5
	3/8	KRL08-03SW2											17	26.1	32
	1/2	KRL10-01SW2											17	29.5	33
10	1/4	KRL10-02SW2	17	18.5	17	26.5	30.9	34.5	21	35.2	25.0	36			
	3/8	KRL10-03SW2											22	35.1	37
	1/2	KRL10-04SW2											22	30.5	35.5
	3/4	KRL12-02SW2											17	31.9	37
12	1/4	KRL12-02SW2	17	20.9	17	28.5	30.5	35.5	22	50.2	39.7	28			
	3/8	KRL12-03SW2											22	36.1	39.5
	1/2	KRL12-04SW2											22	36.1	39.5
	3/4	KRL12-04SW2											22	36.1	39.5

\* Reference dimensions after R thread installation.

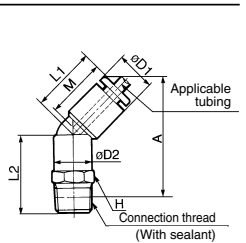


### 45° Male Elbow: KRK-W2



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)				
										FR double layer	FR soft nylon					
6	1/8	KRK06-01SW2	10	12.8	10	18	19.6	33	17	6.9	3.4	12				
	1/4	KRK06-02SW2											14	24	35	
	3/8	KRK06-03SW2											17	25.4	36.5	
	1/2	KRK08-01SW2											12	21.1	37	
8	1/4	KRK08-02SW2	14	15.2	12	20.5	25.5	39	18.5	19.7	13	21				
	3/8	KRK08-03SW2											17	26.9	41	
	1/2	KRK10-01SW2											17	24	23.1	42
	3/4	KRK10-02SW2											17	26.5	43.5	
10	1/4	KRK10-03SW2	17	18.5	17	24	27.9	45	21	30.9	23.2	26				
	3/8	KRK10-04SW2											22	32.1	47.5	
	1/2	KRK12-02SW2											17	27	45.5	
	3/4	KRK12-03SW2											17	28.4	47.5	
12	1/2	KRK12-04SW2	22	20.9	17	25	32.6	49.5	22	44.5	35.1	38				
	3/4	KRK12-04SW2											22	32.6	49.5	

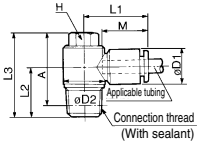
\* Reference dimensions after R thread installation.



**Universal Male Elbow: KRV-W2**



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	øD1	øD2	L1	L2	L3	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)					
											FR double layer	FR soft nylon						
6	1/8	KRV06-01SW2	8	12.8	13.4	24	13.6	25.6	22.5	17	5.9	2.9	15					
	1/4	KRV06-02SW2	10										15.4	23.5	18	30.5	25	26
	3/8	KRV06-03SW2	12										17.6	28.5	14.6	27.6	24.5	24
8	1/8	KRV08-01SW2	12	15.2	17.6	28.5	18	31	25.5	18.5	16	11.2	30					
	1/4	KRV08-02SW2	14										20.6	27.5	19.4	35.4	30	47
	3/8	KRV08-03SW2	17										23.8	30.5	21.3	38.5	33	63
10	1/4	KRV10-02SW2	14	18.5	20.6	31	19	35	29.5	21	27	20.3	49					
	3/8	KRV10-03SW2	17										23.8	37.4	21	35.2	30	63
	1/2	KRV10-04SW2	22										29.9	40.6	22	33.5	33.5	80

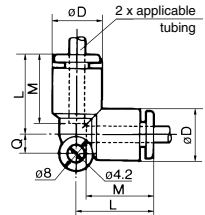


\* Reference dimensions after R thread installation.

**Union Elbow: KRL-W2**



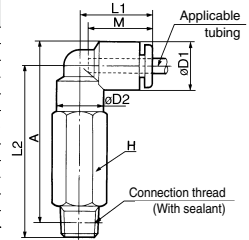
Applicable tubing O.D. (mm)	Model	øD	L	Q	M	Effective area (mm <sup>2</sup> )		Weight (g)
						FR double layer	FR soft nylon	
6	KRL06-00W2	12.8	20	5.3	17	9.0	4.2	6
8	KRL08-00W2	15.2	23	6	18.5	21.6	14.9	10
10	KRL10-00W2	18.5	26.5	6.8	21	35.2	25.0	17
12	KRL12-00W2	20.9	28.5	7.5	22	50.2	39.7	21



**Extended Male Elbow: KRW-W2**



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)				
										FR double layer	FR soft nylon					
6	1/8	KRW06-01SW2	10	12.8	10	20	39.1	42.5	17	8.6	4.0	26				
	1/4	KRW06-02SW2	14									45.5	46.5	46.9	48	41
	3/8	KRW06-03SW2	17									46.9	48	42.6	47	67
8	1/8	KRW08-01SW2	12	15.2	12	23	49	51	18.5	20.5	14.2	47				
	1/4	KRW08-02SW2	14									50.4	52.5	56	59.5	74
	3/8	KRW08-03SW2	17									57.4	61	61	61	145
10	1/4	KRW10-02SW2	17	18.5	17	26.5	64.1	66	21	33.5	23.8	76				
	3/8	KRW10-03SW2	22									64.1	66	57	62	145
	1/2	KRW10-04SW2	22									65.1	68.5	65.1	68.5	178

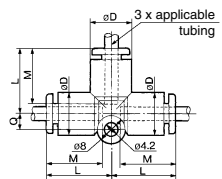


\* Reference dimensions after R thread installation.

**Union Tee: KRT-W2**



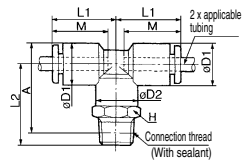
Applicable tubing O.D. (mm)	Model	øD	L	Q	M	Effective area (mm <sup>2</sup> )		Weight (g)
						FR double layer	FR soft nylon	
6	KRT06-00W2	12.8	20	5.3	17	10.6	6.4	10
8	KRT08-00W2	15.2	23	6	18.5	25.6	17.7	15
10	KRT10-00W2	18.5	26.5	6.8	21	40	28.4	25
12	KRT12-00W2	20.9	28.5	7.5	22	57.4	45.4	29



**Male Branch Tee: KRT-W2**



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	øD1	øD2	L1	L2	A*	M	Effective area (mm <sup>2</sup> )		Weight (g)				
										FR double layer	FR soft nylon					
6	1/8	KRT06-01SW2	10	12.8	10	20	22.1	25.5	17	11.0	6.0	12				
	1/4	KRT06-02SW2	14									26.5	27.5	27.9	29	34
	3/8	KRT06-03SW2	17									27.9	29	23.6	28	22
8	1/8	KRT08-01SW2	12	15.2	12	23	28	30	18.5	26.3	18.2	22				
	1/4	KRT08-02SW2	14									29.4	31.5	29.4	31.5	36
	3/8	KRT08-03SW2	17									26.1	32	26.1	32	31
10	1/4	KRT10-02SW2	17	18.5	17	26.5	29.5	33	21	40.8	29.0	29				
	3/8	KRT10-03SW2	22									30.9	34.5	35.1	37	39
	1/2	KRT10-04SW2	22									35.1	37	30.5	35.5	66
12	1/4	KRT12-02SW2	17	20.9	17	28.5	31.9	37	22	57.2	45.2	41				
	3/8	KRT12-03SW2	22									36.1	39.5	36.1	39.5	68
	1/2	KRT12-04SW2	22									36.1	39.5	36.1	39.5	68



\* Reference dimensions after R thread installation.

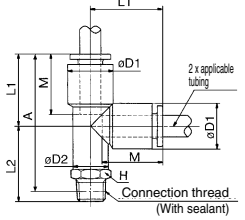
# KR-W2 Series

## Male Run Tee: KRY-W2



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	øD1	øD2	L1	L2	A *	M	Effective area (mm <sup>2</sup> )		Weight (g)
										FR double layer	FR soft nylon	
6	1/8	KRY06-01SW2	10	12.8	10	20	22.1	39	17	10.6	6.4	12
	1/4	KRY06-02SW2	14				26.5	41				20
	3/8	KRY06-03SW2	17				27.9	42.5				34
8	1/8	KRY08-01SW2	12	15.2	12	23	23.6	43.5	18.5	25.6	17.7	22
	1/4	KRY08-02SW2	14				28	44.5				34
	3/8	KRY08-03SW2	17				29.4	47				36
10	1/8	KRY10-01SW2	17	18.5	17	26.5	26.1	49.5	21	40.0	28.4	31
	1/4	KRY10-02SW2					29.5	50.5				29
	3/8	KRY10-03SW2					30.9	52				39
	1/2	KRY10-04SW2					35.1	54.5				66
	3/8	KRY12-03SW2					30.5	53.5				31
12	3/8	KRY12-03SW2	17	20.9	17	28.5	31.9	55	22	57.4	45.4	41
	1/2	KRY12-04SW2	22				36.1	57.5				68

\* Reference dimensions after R thread installation.

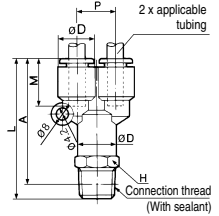


## Branch: KRU-W2



Applicable tubing O.D. (mm)	Connection thread R	Model	H (width across flats)	øD	L	P	A *	M	Effective area (mm <sup>2</sup> )		Weight (g)
									FR double layer	FR soft nylon	
6	1/8	KRU06-01SW2	13	12.8	44.6	12.8	41.5	17	10.4	4.2	12
	1/4	KRU06-02SW2	14		48.5		43				22
	3/8	KRU06-03SW2	17		49.9		44.5				35
8	1/8	KRU08-01SW2	15	15.2	51.6	15.2	48.5	18.5	25.6	17.7	16
	1/4	KRU08-02SW2	17		55		49.5				24
	3/8	KRU08-03SW2	19		55.4		50				36
10	1/4	KRU10-02SW2	19	18.5	60.5	18.5	55	21	40	28.4	40
	3/8	KRU10-03SW2	22		60.9		55.5				40
	1/2	KRU10-04SW2	22		64.1		57				65
12	1/4	KRU12-02SW2	17	20.9	64	20.9	58.5	22	57.4	45.4	40
	3/8	KRU12-03SW2	22		64.4		59				40
	1/2	KRU12-04SW2	22		67.6		60.5				65

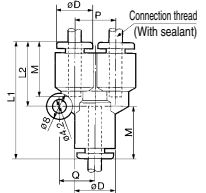
\* Reference dimensions after R thread installation.



## Union "Y": KRU-W2



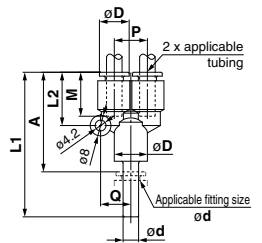
Applicable tubing O.D. (mm)	Model	øD	L1	L2	P	Q	M	Effective area (mm <sup>2</sup> )		Weight (g)
								FR double layer	FR soft nylon	
6	KRU06-00W2	12.8	37	20	12.8	11.7	17	10.4	4.2	10
8	KRU08-00W2	15.2	42.5	24.5	15.2	13.7	18.5	25.6	17.7	12
10	KRU10-00W2	18.5	48	27.5	18.5	16.1	21	40	28.4	16
12	KRU12-00W2	20.9	51	30	20.9	18.1	22	57.4	45.4	23



## Plug-in "Y": KRU-W2



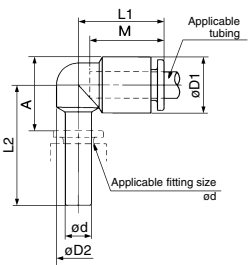
Applicable tubing O.D. (mm)	Applicable fitting size ød	Model	øD	L1	L2	P	Q	A	M	Effective area (mm <sup>2</sup> )		Weight (g)
										FR double layer	FR soft nylon	
6	6	KRU06-99W2	12.8	55.5	20	12.8	11.7	38.5	17	10.4	4.2	8
8	8	KRU08-99W2	15.2	64.5	24.5	15.2	13.7	46	18.5	25.6	17.7	12
10	10	KRU10-99W2	18.5	71.5	27.5	18.5	16.1	50.5	21	40	28.4	18
12	12	KRU12-99W2	20.9	75.5	30	20.9	18.1	53.5	22	57.4	45.4	24



## Plug-in Elbow: KRL-W2



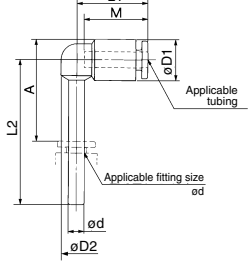
Applicable tubing O.D. (mm)	Applicable fitting size $\phi d$	Model	$\phi D1$	$\phi D2$	L1	L2	A	M	Effective area (mm <sup>2</sup> )		Weight (g)
									FR double layer	FR soft nylon	
6	6	KRL06-99W2	12.8	10	20	27.5	17	17	9.0	4.2	3
8	8	KRL08-99W2	15.2	12	22.5	31.5	21	18.5	21.6	14.9	5
10	10	KRL10-99W2	18.5	14	25.5	35.5	23.5	21	35.2	25.0	9
12	12	KRL12-99W2	20.9	16	27	37.5	26	22	50.2	39.7	10



## Extended Plug-in Elbow: KRW-W2



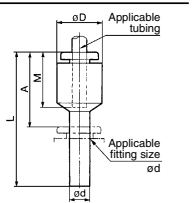
Applicable tubing O.D. (mm)	Applicable fitting size $\phi d$	Model	$\phi D1$	$\phi D2$	L1	L2	A	M	Effective area (mm <sup>2</sup> )		Weight (g)
									FR double layer	FR soft nylon	
6	6	KRW06-99W2	12.8	10	20	41.5	31	17	9.0	4.2	4
8	8	KRW08-99W2	15.2	12	22.5	48	37	18.5	21.6	14.9	6
10	10	KRW10-99W2	18.5	14	25.5	55	43.5	21	35.2	25.0	9
12	12	KRW12-99W2	20.9	16	27	59.5	48	22	50.2	39.7	13



## Plug-in Reducer: KRR-W2



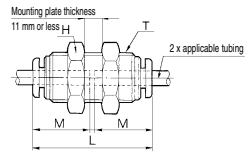
Applicable tubing O.D. (mm)	Applicable fitting size $\phi d$	Model	$\phi D1$	L	A	M	Effective area (mm <sup>2</sup> )		Weight (g)
							FR double layer	FR soft nylon	
6	8	KRR06-08W2	12.8	37	18.5	17	10.4	5.6	2.5
	10	KRR06-10W2		39.5					9.3
8	10	KRR08-10W2	15.2	41	20	18.5	26.1	18.0	4.0
	12	KRR08-12W2		42					4.6
10	12	KRR10-12W2	18.5	44.5	23	21	41.5	32.8	33



## Bulkhead Union: KRE-W2



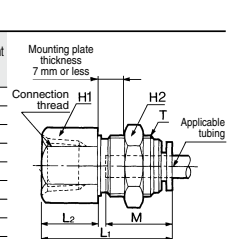
Applicable tubing O.D. (mm)	Model	T (M)	H (width across flats)	L	Mounting hole	M	Effective area (mm <sup>2</sup> )		Weight (g)
							FR double layer	FR soft nylon	
6	KRE06-00W2	M14 x 1	17	34.5	15	17	10.4	5.6	33
8	KRE08-00W2	M16 x 1	19	38	17	18.5	26.1	18.0	50
10	KRE10-00W2	M20 x 1	24	42.5	21	21	41.5	29.5	70
12	KRE12-00W2	M22 x 1	27	44	23	22	58.3	46.1	90



## Bulkhead Connector: KRE-W2



Applicable tubing O.D. (mm)	Connection thread Rc	Model	T (M)	H1 (width across flats)	H2 (width across flats)	L1	L2	Mounting hole	M	Effective area (mm <sup>2</sup> )		Weight (g)
										FR double layer	FR soft nylon	
6	1/8	KRE06-01W2	M14 x 1	17	17	28	11	15	17	10.4	5.6	25
	1/4	KRE06-02W2				31.5	15					40
	3/8	KRE06-03W2				33.5	17					29
8	1/4	KRE08-01W2	M16 x 1	17	19	27.5	7.5	17	18.5	26.1	18.0	28
	3/8	KRE08-02W2				33	13					27
	1/2	KRE08-03W2				35	15					48
10	1/4	KRE10-02W2	M20 x 1	22	24	34.5	12.5	21	21	41.5	29.5	53
	3/8	KRE10-03W2				36.5	15					67
	1/2	KRE10-04W2				37	14					92
12	3/8	KRE12-03W2	M22 x 1	24	27	37	14	23	22	58.3	46.1	92
	1/2	KRE12-04W2				41	18					59



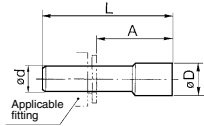
# KR-W2 Series

## Plug: KRP



Applicable fitting size $\phi D$	Model	$\phi D$	L	A	Weight (g)
6	KRP-06	8	35	18	1
8	KRP-08	10	39	20.5	2
10	KRP-10	12	43	22	3.5
12	KRP-12	14	45.5	24	5

\* Color: Green



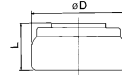
## Spatter Cover 1: KR (Applicable tube: FR soft nylon)



Applicable fitting size	Model	$\phi D$	L	Weight (g)
6	KR-06C	15.5	9	0.9
8	KR-08C	17	9	1.0
10	KR-10C	20.8	10.5	1.5
12	KR-12C	22.8	10.5	1.6

\* When tube insert parts are in line as KQU Union "Y", use KR-□□C1.

\* Color: Gray

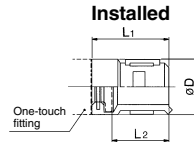


## Spatter Cover 2: KR (Applicable tube: FR soft nylon, FR double layer)

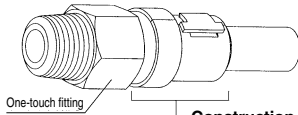


Applicable fitting size	Model	L <sub>1</sub>	L <sub>2</sub>	$\phi D$
6	KR-06C1	18	13.7	12.8
8	KR-08C1	20	15.7	15
10	KR-10C1	22	17.2	18
12	KR-12C1	22	17.2	20

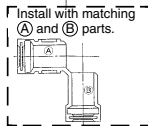
\* Color: Gray



## How to install



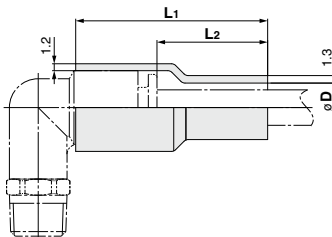
Construction of spatter cover



## Related Equipment

### Flame Resistant (Equivalent to UL-94 Standard V-0) Spatter Cover

(Applicable tubing: FR double layer/TRB, TRBU FR three layer/TRTU)



Model	Applicable tubing O.D.	$\phi D$	L <sub>1</sub>	L <sub>2</sub>	(mm)
KR-06C-X1807	6	8.5	33.3	19.2	
KR-08C-X1807	8	10.5	34.5	19.3	
KR-10C-X1807	10	12.5	37.2	20.2	
KR-12C-X1807	12	14.5	37.9	20.2	

Note 1) This product cannot be used with fittings such as KRU (union "Y") that have tube insertion parts close to each other.

For KRH (male connector) and KRE (bulkhead union) fittings, this product can only protect the release button and resin component parts.

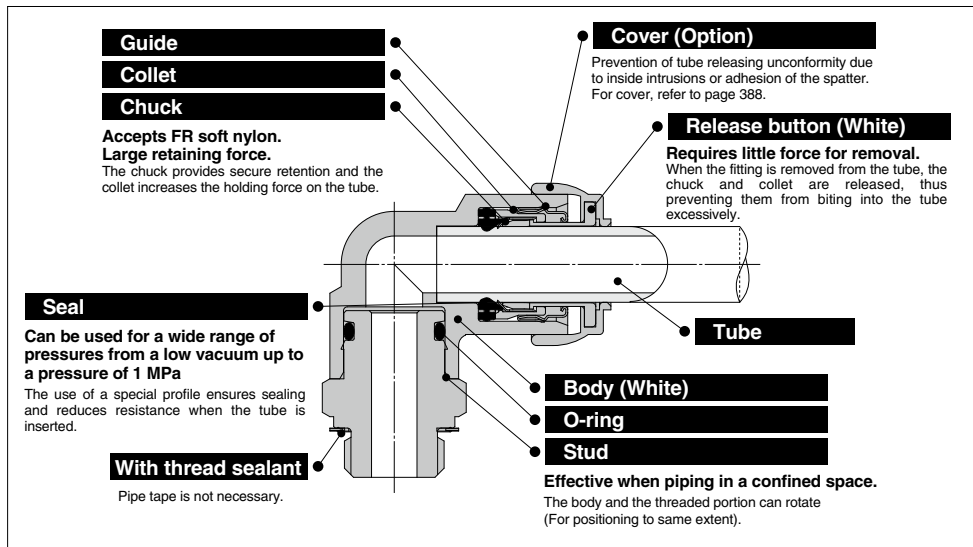
Note 2) Sales unit: 10 pcs.

# Flame Resistant (Equivalent to UL-94 Standard V-0) FR One-touch Fittings

Applicable Tubing: Metric Size, Connection Thread: G

## KR-W2 Series

RoHS



### Applicable Tubing

Tubing material	FR double layer, FR soft nylon FR double layer polyurethane, FR three-layer polyurethane
Tubing O.D.	ø6, ø8, ø10, ø12

### Specifications

<b>Fluid</b>	Air/Water <sup>(1, 2)</sup>
<b>Operating pressure range <sup>(3)</sup></b>	-100 kPa to 1 MPa
<b>Proof pressure (at 23°C)</b>	3 MPa
<b>Ambient and fluid temperature</b>	-5 to 60°C (Water: 0 to 60°C) (No freezing)
<b>Thread</b>	ISO 16030 (Parallel pipe thread)
<b>Mounting section</b>	
<b>Seal on the threads</b>	Gasket seal
<b>Flame resistance</b>	The external resin parts are equivalent to UL-94 standard V-0.

Note 1) The surge pressure must be under the maximum operating pressure.

Note 2) Deionized water is not recommended for use as it may affect the material used in the fittings.  
In addition, it is known to degrade the water quality.

Note 3) Do not use the fittings with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.

### Principal Parts Material

Body	C3604, Flame resistant PBT (UL-94 standard V-0)
Stud	C3604 (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304, Flame resistant PBT (UL-94 standard V-0)
Collet	POM
Release button	Flame resistant PBT (UL-94 standard V-0)
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR
Cover (Option)	Flame resistant PBT, Flame resistant CR (UL-94 standard V-0)



# KR-W2 Series

## Model

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### Male connector

KRH-W2 p. 388-3



Use to pipe in the same direction from female thread. Most general type.

### Male elbow

KRL-W2 p. 388-3



Use to pipe at right angles to female thread. Most general type.

### Male branch tee

KRT-W2 p. 388-4



Use to branch line from female thread in both 90° directions.

### Male run tee

KRY-W2 p. 388-4



Use to branch line in the same direction from female thread and in 90° direction.

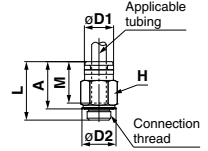
**Dimensions**

**Male Connector: KRH-W2**



Applicable tubing O.D. (mm)	Connection thread G	Model	H (width across flats)	øD1	øD2*		L	A	M	Effective area (mm <sup>2</sup> )		Weight (g)
					FR double layer	FR soft nylon				FR double layer	FR soft nylon	
ø6	1/8	KRH06-G01W2	13	12	14	24	19.4	17	17	10.4	5.6	12
	1/4	KRH06-G02W2	16		17	23	16.9					21
	3/8	KRH06-G03W2	20		21	19.7	13.6					27
ø8	1/8	KRH08-G01W2	14	14	14	27.5	22.9	18.5	21	14.4	14.3	16
	1/4	KRH08-G02W2	16		17	23.5	17.4					16
	3/8	KRH08-G03W2	20		21	23.5	17.4					34
ø10	1/8	KRH10-G01W2	17	17	14	30	25.4	21	21	14.5	14.4	23
	1/4	KRH10-G02W2	17		17	31	24.9					24
	3/8	KRH10-G03W2	20		21	25.5	19.4					26
	1/2	KRH10-G04W2	24		25	27.5	18.9					56
ø12	1/4	KRH12-G02W2	19	19	17	32	25.9	22	22	44.0	43.4	28
	3/8	KRH12-G03W2	20		21	32	25.9					36
	1/2	KRH12-G04W2	24		25	28	19.4					48

\* Indicates the outside diameter of the gasket

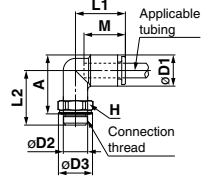


**Male Elbow: KRL-W2**



Applicable tubing O.D. (mm)	Connection thread G	Model	H (width across flats)	øD1	øD2	øD3*	L1	L2	A	M	Effective area (mm <sup>2</sup> )		Weight (g)
											FR double layer	FR soft nylon	
ø6	1/8	KRL06-G01W2	13	12.8	10	14	20.5	22.4	24.2	17	9.0	4.2	12
	1/4	KRL06-G02W2	16			17		25.4	25.7				21
	3/8	KRL06-G03W2	20			21		27.4	27.7				37
ø8	1/8	KRL08-G01W2	13	15.2	12	14	23.1	23.6	26.6	18.5	14.5	13.8	14
	1/4	KRL08-G02W2	16			17		26.6	28.1				22
	3/8	KRL08-G03W2	20			21		28.1	29.6				36
ø10	1/8	KRL10-G01W2	17	18.5	17	14	26.6	25.1	29.8	21	14.6	14.4	26
	1/4	KRL10-G02W2	17			17		28.1	31.3				31
	3/8	KRL10-G03W2	20			21		29.6	32.8				36
	1/2	KRL10-G04W2	24			25		34.4	35.1				65
ø12	1/4	KRL12-G02W2	17	20.9	17	17	28.6	29.3	33.7	22	43.7	43.5	33
	3/8	KRL12-G03W2	20			21		30.8	35.2				38
	1/2	KRL12-G04W2	24			25		35.6	37.5				67

\* Indicates the outside diameter of the gasket

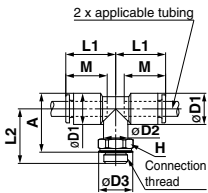


**Male Branch Tee: KRT-W2**



Applicable tubing O.D. (mm)	Connection thread G	Model	H (width across flats)	øD1	øD2	øD3*	L1	L2	A	M	Effective area (mm <sup>2</sup> )		Weight (g)
											FR double layer	FR soft nylon	
ø6	1/8	KRT06-G01W2	13	12.8	10	14	20.5	22.4	24.2	17	11.0	6.0	14
	1/4	KRT06-G02W2	16			17		25.4	25.7				23
	3/8	KRT06-G03W2	20			21		27.4	27.7				39
ø8	1/8	KRT08-G01W2	13	15.2	12	14	23.1	23.6	26.6	18.5	14.3	14.2	17
	1/4	KRT08-G02W2	16			17		26.6	28.1				25
	3/8	KRT08-G03W2	20			21		28.1	29.6				39
ø10	1/8	KRT10-G01W2	17	18.5	17	14	26.6	25.1	29.8	21	14.4	14.4	30
	1/4	KRT10-G02W2	17			17		28.1	31.3				35
	3/8	KRT10-G03W2	20			21		29.6	32.8				40
	1/2	KRT10-G04W2	24			25		34.4	35.1				69
ø12	1/4	KRT12-G02W2	17	20.9	17	17	28.6	29.3	33.7	22	43.3	43.2	39
	3/8	KRT12-G03W2	20			21		30.8	35.2				44
	1/2	KRT12-G04W2	24			25		35.6	37.5				72

\* Indicates the outside diameter of the gasket



# KR-W2 Series

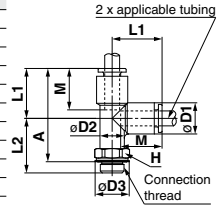
## Dimensions

### Male Run Tee: KRY-W2



Applicable tubing O.D. (mm)	Connection thread G	Model	H (width across flats)	øD1	øD2	øD3*	L1	L2	A	M	Effective area (mm <sup>2</sup> )		Weight (g)
											FR double layer	FR soft nylon	
ø6	1/8	KRY06-G01W2	13	12.8	10	14	20.5	22.4	38.3	17	10.6	6.4	14
	1/4	KRY06-G02W2	16			17		25.4	39.8				23
	3/8	KRY06-G03W2	20			21		27.4	41.8				39
ø8	1/8	KRY08-G01W2	13	15.2	12	14	23.1	23.6	42.1	18.5	14.6	14.3	17
	1/4	KRY08-G02W2	16			17		26.6	43.6				25
	3/8	KRY08-G03W2	20			21		28.1	45.1				39
ø10	1/8	KRY10-G01W2	17	18.5	17	14	26.6	25.1	47.1	21	14.5	14.0	30
	1/4	KRY10-G02W2	17			17		28.1	48.6				41
	3/8	KRY10-G03W2	20			21		29.6	50.1				69
	1/2	KRY10-G04W2	24			25		34.4	52.4				69
ø12	1/4	KRY12-G02W2	17	20.9	17	17	28.6	29.3	51.8	22	43.7	43.6	39
	3/8	KRY12-G03W2	20			21		30.8	53.3				44
	1/2	KRY12-G04W2	24			25		35.6	55.6				72

\* Indicates the outside diameter of the gasket





## KR-W2 Series

# Specific Product Precautions

Be sure to read this before handling the products. Refer to page 11 for safety instructions and pages 14 to 18 for fittings & tubing precautions.

### Proper Tightening Torque of Fittings

#### Caution

1. Tighten fittings with sealant using the proper tightening torques in the table below.

If tightened using a torque exceeding the proper torque level, this may cause the fitting to break.

#### G Thread Proper Tightening Torque

Connection thread size	Proper tightening torque [N·m]
G1/8	2 to 4
G1/4	5 to 7
G3/8	9 to 11
G1/2	14 to 16