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

Guide

Collet

Chuck

Accepts FR soft nylon.
Large retaining force.
Chuck bites tube and collet increases retaining force.

Release button (Green)

Light force for removal
When the fitting is removed from the tube, the chuck and collet are released, thus preventing them from biting into the tube excessively.

Seal

Can be used for a wide range of pressures from a low vacuum up to a pressure of 1.0 MPa
The use of a special profile ensures sealing and reduces resistance when the tube is inserted.

Tube

Body

O-ring

Stud

Effective when piping in a confined space.
The body and the threaded portion can rotate.

With thread seal

Pipe tape is not necessary.

PAT. PEND

| K□ |
| M□ |
| H□ |
| D□ |
| MS |
| T□ |
| VMG |

Applicable Tubing

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

Specifications

Fluid		Air/Water Note)
Maximum operating pressure		1.0 MPa
Proof pressure		3.0 MPa
Ambient and fluid temperature		–5 to 60°C (Water: 0 to 60°C) (No freezing)
Thread	Mounting section	JIS B 0203 (Taper thread for piping)
	Nut section	JIS B 0211 Class 2 (Metric fine thread)
Seal (Thread portion)		With seal (Standard)

Note) Applicable for general industrial water. Please consult with SMC if using for other kinds of fluid. Also, the surge pressure must be under the maximum operating pressure.

Principal Parts Material

Body	C3604BD, Flame resistant PBT (UL-94 standard V-0)
Stud	C3604BD (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
Cover (Option)	Flame resistant PBT, Flame resistant CR (UL-94 standard V-0)

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

Plug-in Reducer: KRR

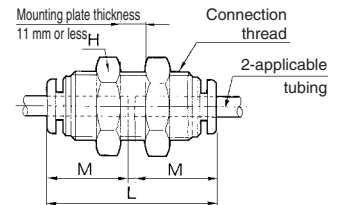| Applicable tubing O.D. (mm)	Applicable fitting size ød	Model	øD Note)	L	A	M	Effective area (mm²)		Weight (g)
							FR double layer	FR soft nylon	
6	8	**KRR06-08**	12.8	37	18.5	17	10.4	5.6	2.5
	10	**KRR06-10**		39.5					9.3
8	10	**KRR08-10**	15.2	41	18.5	18.5	26.1	18.0	4.0
	12	**KRR08-12**		42	20				4.6
10	12	**KRR10-12**	18.5	44.5	23	21	41.5	32.8	33

Note) øD: Max. diameter
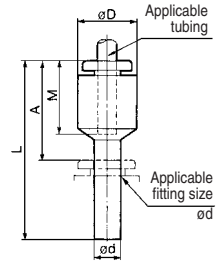
Bulkhead Union: KRE

Applicable tubing O.D. (mm)	Model	T (M)	H (width across flats)	L	Mounting hole	M	Effective area (mm²)		Weight (g)
							FR double layer	FR soft nylon	
6	**KRE06-00**	M14 x 1	17	34.5	15	17	10.4	5.6	33
8	**KRE08-00**	M16 x 1	19	38	17	18.5	26.1	18.0	52
10	**KRE10-00**	M20 x 1	24	42.5	21	21	41.5	29.5	70
12	**KRE12-00**	M22 x 1	27	44	23	22	58.3	46.1	90

Plug: KRP

Applicable fitting size ød	Model	øD	L	A	Weight (g)
6	**KRP-06**	8	35	16	1
8	**KRP-08**	10	39	18.5	2
10	**KRP-10**	12	43	20	3.5
12	**KRP-12**	14	46	22	5
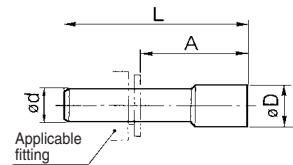
Spatter Cover 1: KR (Applicable tube: FR soft nylon)

Applicable fitting size	Model	øD	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.
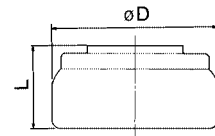
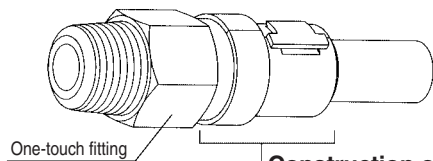## Spatter Cover 2: KR (Applicable tube: FR soft nylon, FR double layer)

Applicable fitting size	Model	L₁	L₂	øD
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

Installed

How to install

One-touch fitting
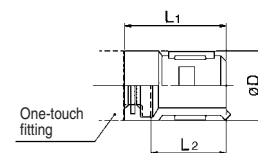
Construction of spatter cover

Install with matching Ⓐ and Ⓑ parts.

K☐ | M☐ | H☐ | D☐ | MS | T☐ | VMG