

Flame Resistant One-touch Fittings

(Equivalent to UL-94 Standards V-0)

Series KR



Splatter Resistant

■ Applicable Tube

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

■ Principal Element Material

Fitting are supplied without cover, order cover separately.

Two types of covers:

1. Single layer tubing
Cap-KR□□C
Tubing-TRS
2. Double layer tubing
Cap-KR□□C1
Tubing-TRB

Body	C3604BD, Flame resistance PBT (UL-94 standard V-0)
Stud (Thread)	C3604BD
Chuck	Stainless steel (SUS304)
Guide	C3604BD, Flame resistance PBT (UL-94 standard V-0)
Collet	Polycetal (POM)
Release button	Flame resistance PBT (UL-94 standard V-0)
Seal, O-ring	NBR
Cover	Flame resistance CR (UL-94 standard V-0)

■ Specifications

Operating fluid		Air, Water <small>Note1)</small>
Max. operating pressure		145psi (1.0MPa)
Proof pressure		435psi (3.0MPa)
Ambient and fluid temperature		Air: 23° to 140°F (-5° to 60°C) Water: 32° to 105°F (0° to 40°C) (With no freezing)
Thread	Mounting	JIS B0203 (Taper pipe thread)
	Nut	JIS B0211, Class 2 (Metric fine thread)
Sealant (Thread portion)		With sealant (Standard)

Note1) Applicable to general industrial water. Consult SMC if using other fluids.
Surge pressure must be under the maximum operating pressure.

Series KR: Black body.

Guide

Collet

Chuck

Accepts FR soft nylon.
Has high retaining force. Chuck certainly bites tube and collet increase retaining force.

Seal

Can be used for a wide range of pressure from a low vacuum up to a pressure of 145psi (1.0MPa).

The Use of a special profile ensures positive sealing and reduced resistance when the

With sealant

Seal tape unnecessary
PAT.

Cover (Option)

Prevention of tube releasing unconformity due to an inside intrusion or adhesion of the splatter
Refer to P148 for the cover.

Release button (Green)

Low disconnecting force
When the fitting is removed, the chuck and collet are released, thus preventing them from biting into the tube to an unnecessary degree.

Tube

Body

O-ring

Stud

Effective when piping in a confined space

The body and thread portion can turn.

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Series KR

Male Connector

KRH



Applicable tube O.D. Inch	Port size NPT	Model	Applicable tube O.D. mm	Port size R	Model
		KRH			KRH
1/4	1/8	KRH07-34S	6	1/8	KRH06-01S
	1/4	-35S		1/4	-02S
	3/8	-36S		3/8	-03S
3/8	1/4	KRH11-35S	8	1/8	KRH08-01S
	3/8	-36S		1/4	-02S
	1/2	-37S		3/8	-03S
1/2	1/4	KRH13-35S	10	1/8	KRH10-01S
	3/8	-36S		1/4	-02S
	1/2	-37S		3/8	-03S
			12	1/2	-04S
				1/4	KRH12-02S
				3/8	-03S
				1/2	-04S

Male Elbow

KRL



Applicable tube O.D. Inch	Port size NPT	Model	Applicable tube O.D. mm	Port size R	Model
		KRL			KRL
1/4	1/8	KRL07-34S	6	1/8	KRL06-01S
	1/4	-35S		1/4	-02S
	3/8	-36S		3/8	-03S
3/8	1/4	KRL11-35S	8	1/8	KRL08-01S
	3/8	-36S		1/4	-02S
	1/2	-37S		3/8	-03S
1/2	1/4	KRL13-35S	10	1/8	KRL10-01S
	3/8	-36S		1/4	-02S
	1/2	-37S		3/8	-03S
			12	1/2	-04S
				1/4	KRL12-02S
				3/8	-03S
				1/2	-04S

45° Male Elbow

KRK



Applicable tube O.D. mm	Port size R	Model
		KRK
6	1/8	KRK06-01S
	1/4	-02S
	3/8	-03S
8	1/8	KRK08-01S
	1/4	-02S
	3/8	-03S
10	1/8	KRK10-01S
	1/4	-02S
	3/8	-03S
12	1/2	-04S
	1/4	KRK12-02S
	3/8	-03S
	1/2	-04S

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Universal Male Elbow

KRV



Applicable tube O.D. mm	Port size R	Model
		KRV
6	1/8	KRV06-01S
	1/4	-02S
8	1/8	KRV08-01S
	1/4	-02S
	3/8	-03S
10	1/4	KRV10-02S
	3/8	-03S
12	3/8	KRV12-03S
	1/2	-04S

* Reference dimensions after R thread installation.

Branch "Y"

KRU



Applicable tube O.D. mm	Port size R	Model
		KRU
6	1/8	KRU06-01S
	1/4	-02S
	3/8	-03S
8	1/8	KRU08-01S
	1/4	-02S
	3/8	-03S
10	1/4	KRU10-02S
	3/8	-03S
	1/2	-04S
12	1/4	KRU12-02S
	3/8	-03S
	1/2	-04S

* Reference dimensions after R thread installation.

Union "Y"

KRU



Applicable tube O.D. mm	Model
	KRU
6	KRU06-00
8	KRU08-00
10	KRU10-00
12	KRU12-00

Plug-in "Y"

KRU



Applicable tube O.D. mm	Applicable fitting size ød	Model
		KRU
6	6	KRU06-99
8	8	KRU08-99
10	10	KRU10-99
12	12	KRU12-99

Flame Resistant One-touch Fittings

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Extended Male Elbow

KRW



Applicable tube O.D. mm	Port size R	Model
		KRW
6	1/8	KRW06-01S
	1/4	-02S
	3/8	-03S
8	1/8	KRW08-01S
	1/4	-02S
	3/8	-03S
10	1/4	KRW10-02S
	3/8	-03S
	1/2	-04S
12	1/4	KRW12-02S
	3/8	-03S
	1/2	-04S

Branch Tee

KRT



Applicable tube O.D. Inch	Port size NPT	Model	Applicable tube O.D. mm	Port size R	Model
		KRT			KRT
1/4	1/8	KRT07-34S	6	1/8	KRT06-01S
	1/4	-35S		1/4	-02S
	3/8	-36S		3/8	-03S
3/8	1/4	KRT11-35S	8	1/8	KRT08-01S
	3/8	-36S		1/4	-02S
	1/2	-37S		3/8	-03S
1/2	1/4	KRT13-35S	10	1/8	KRT10-01S
	3/8	-36S		1/4	-02S
	1/2	-37S		3/8	-03S
12	1/2	-37S	12	1/2	-04S
	1/4	KRT12-02S		1/4	KRT12-02S
	3/8	-03S		3/8	-03S
				1/2	-04S

Male Run Tee

KRY



Applicable tube O.D. Inch	Port size NPT	Model	Applicable tube O.D. mm	Port size R	Model
		KRY			KRY
1/4	1/8	KRY07-34S	6	1/8	KRY06-01S
	1/4	-35S		1/4	-02S
	3/8	-36S		3/8	-03S
3/8	1/4	KRY11-35S	8	1/8	KRY08-01S
	3/8	-36S		1/4	-02S
	1/2	-37S		3/8	-03S
1/2	1/4	KRY13-35S	10	1/8	KRY10-01S
	3/8	-36S		1/4	-02S
	1/2	-37S		3/8	-03S
12	1/2	-37S	12	1/2	-04S
	1/4	KRY12-02S		1/4	KRY12-02S
	3/8	-03S		3/8	-03S
				1/2	-04S

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Straight Union

KRH



Applicable tube O.D. mm	Model
	KRH
6	KRH06-00
8	KRH08-00
10	KRH10-00
12	KRH12-00

Bulkhead Union

KRE



Applicable tube O.D. Inch	Port size UNF	Model	Applicable tube O.D. mm	Model
		KRE		KRE
1/4	5/16-18	KRE07-00	6	KRE06-00
3/8	1/8-14	KRE11-00	8	KRE08-00
1/2	1-2	KRE13-00	10	KRE10-00
			12	KRE12-00

Union Elbow

KRL



Applicable tube O.D. Inch	Model	Applicable tube O.D. mm	Model
	KRL		KRL
1/4	KRL07-00	6	KRL06-00
3/8	KRL11-00	8	KRL08-00
1/2	KRL13-00	10	KRL10-00
		12	KRL12-00

Union Tee

KRT



Applicable tube O.D. Inch	Model	Applicable tube O.D. mm	Model
	KRT		KRT
1/4	KRT07-00	6	KRT06-00
3/8	KRT11-00	8	KRT08-00
1/2	KRT13-00	10	KRT10-00
		12	KRT12-00

Plug-in Reducer

KRR



Applicable tube O.D. Inch	Applicable fitting size	Model	Applicable tube O.D. mm	Applicable fitting size	Model
		KRR			KRR
1/4	3/8	KRR07-11	6	8	KRR06-08
	1/2	-13		10	-10
3/8	1/2	KRR11-13	8	10	KRR08-10
				12	-12
			10	12	KRR10-12

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Plug

KRP



Applicable fitting size Inch	Model
1/4	KRP-07
3/8	KRP-11
1/2	KRP-13

Applicable fitting size mm	Model
6	KRP-06
8	KRP-08
10	KRP-10
12	KRP-12

Spatter cover 1

KR



TIRS Tubing	
Applicable fitting size Inch	Model
1/4	KR-07C
3/8	KR-11C
1/2	KR-13C

TRS Tubing	
Applicable fitting size mm	Model
6	KR-06C
8	KR-08C
10	KR-10C
12	KR-12C

Spatter cover 2 (TRB Tubing)

KR



Applicable fitting size mm	Model
6	KR-06C1
8	KR-08C1
10	KR-10C1
12	KR-12C1

Made to Order

Made to Order

Electroless Nickel Plated on Brass Parts

X2

(Example) KRH06-02S-X2