

Fittings for General Purposes (S Couplers/Multi-connectors)

Rectangular Multi-connector **KDM**

Applicable tubing: Metric size



Applicable tubing: Inch size



- One-touch installation and removal of multi-tubes
- Prevents installation mistakes
- Built-in One-touch fittings

Series	No. of connecting tubes	Size	Applicable tubing O.D.
KDM6 (-X955)	6	Metric	ø2
KDM	10, 20	Metric	ø3.2, ø4, ø6, ø8
KDM	10, 20	Inch	ø1/8, ø5/32, ø1/4, ø5/16
KDM (-X1053)	6, 10, 20	Metric	ø10, ø12

Piping Module **KB**



- Centralized distribution of supply air
- One-touch installation and removal without the use of tools
- 360° air output is possible.

Series	Applicable tubing O.D.	Connection thread
KB	ø4, ø6, ø8, ø10, ø12, ø16	1/8, 1/4, 3/8, 1/2

Fittings for Special Environments

FR One-touch Fittings **KR-W2**



- For use where weld spatter is generated/Flame resistant (Equivalent to UL-94 Standard V-0)

Series	Applicable tubing O.D.	Connection thread
KR-W2	ø6, ø8, ø10, ø12	1/8, 1/4, 3/8, 1/2

FR One-touch Fittings Manifold **KRM**



- For use where weld spatter is generated/Flame resistant (Equivalent to UL-94 Standard V-0)

Series	Applicable tubing O.D.	Connection thread
KRM	ø6, ø8, ø10, ø12	1/4, 3/8

Fittings for Special Environments

Antistatic One-touch Fittings **KA**



- Surface resistance: $10^4\Omega$ to $10^7\Omega$
- For preventing static electricity
- Body: Conductive resin used for seal parts
- Copper-free (Electroless nickel-plated)
- Uni-thread

Series	Applicable tubing O.D.	Connection thread
KA	$\phi 3.2, \phi 4, \phi 6, \phi 8, \phi 10, \phi 12$	M5 x 0.8, M6 x 1.0, Standard Uni thread 1/8, 1/4, 3/8, 1/2

Stainless Steel 316 One-touch Fittings **KQG2**



- Compact and lightweight
 - Fluid temperature: -5 to 150°C
 - Materials: Metal parts stainless steel 316, seal parts special FKM
 - Grease-free/Can be used with steam
- Certified to meet current Food Sanitation Law standards

Series	Size	Applicable tubing O.D.	Connection thread
KQG2	Metric	$\phi 3.2, \phi 4, \phi 6, \phi 8, \phi 10, \phi 12, \phi 16$	M5 R, Rc 1/8, 1/4, 3/8, 1/2
KQG2	Inch	$\phi 1/8", \phi 5/32", \phi 1/4", \phi 5/16", \phi 3/8", \phi 1/2"$	UNF10-32 NPT1/8, 1/4, 3/8, 1/2

Stainless Steel One-touch Fittings **KQ2-G**



- Metal material: Stainless steel 303
 - Improved tube insertion/removal: Insertion force reduced by up to 30%, Removal force reduced by up to 20%
 - Compact and lightweight
- Dimensions: Height 24% shorter, Length 23% shorter, Weight 57% lighter
- Body types: Total of 27 models

Series	Size	Applicable tubing O.D.	Connection thread
KQ2-G	Metric	$\phi 4, \phi 6, \phi 8, \phi 10, \phi 12, \phi 16$	M5 R, Rc 1/8, 1/4, 3/8, 1/2

Stainless Steel One-touch Fittings **KG**



- Can be used in corrosive conditions
- Metal parts: Stainless steel 303

Series	Applicable tubing O.D.	Connection thread
KG	$\phi 4, \phi 6, \phi 8, \phi 10, \phi 12, \phi 16$	M5 x 0.8, M6 x 1.0 1/8, 1/4, 3/8, 1/2

Stainless Steel 316 Insert Fittings **KFG2**



- Compact and lightweight
 - Fluid temperature: -65 to 260°C (Swivel elbow: -5 to 150°C)
 - Material: Stainless steel 316
- Rubber materials are not used. (Excluding the swivel elbow)
- Grease-free/Can be used with steam
- Certified to meet current Food Sanitation Act standards

Series	Size	Applicable tubing O.D.	Connection thread
KFG2	Metric	$\phi 4, \phi 6, \phi 8, \phi 10, \phi 12, \phi 16$	R, Rc 1/8, 1/4, 3/8, 1/2
KFG2	Inch	$\phi 1/8", \phi 5/32", \phi 1/4", \phi 5/16", \phi 3/8", \phi 1/2"$	NPT1/8, 1/4, 3/8, 1/2

Fittings for Special Environments

Miniature Fittings Stainless Steel 316 MS



- Can be used in corrosive conditions
- Compact piping space
- Hose nipple, Hose elbow, Barb

Series	Applicable tubing O.D.	Connection thread
MS	ø3.2, ø4, ø6	M5

S Couplers Stainless Steel Type KKA



- Body material: Stainless steel 304
- Seal material: Fluoropolymer (Special FKM) is employed.
- Grease-free
- Check valve built in to both plug and socket

Series	Connection thread
KKA	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2

Low Torque Rotary Joint MQR



- Metal seal type
- Supplies air to the rotary/pivot shafts of turntables and robot arms
- Low rotational torque: 0.003 to 0.50 N·m or less
- Operating temperature: -10 to 80°C
- Allowable rpm: 200 to 3000 min⁻¹ (rpm)

Series	Number of circuits	Port size	Operating pressure
MQR	1, 2, 4, 8, 12, 16	M5 x 0.8	-100 kPa to 1 MPa

Rubber Seal Rotary Joint MQR-X229



- Rubber seal
- Oldham coupling
- Operating pressure range: -100 kPa to 0.7 MPa
- Allowable rpm: 200 min⁻¹ (rpm)*1
- Max. start-up rotation torque: 0.50 N·m*2 or less
- Service life: 10 million rotations*3
- Number of circuits: 8 circuits

- *1 Reference value
- *2 When no pressure is applied
- *3 Under SMC's life test conditions

Series	Number of circuits	Port size	Operating pressure
MQR-X229	8	M5 x 0.8	-100 kPa to 0.7 MPa

Fittings for Special Environments (Clean/Fluoropolymer)

Clean One-touch Fittings for Blowing **KP**



- One-touch fittings for clean room blowing systems
- Completely oil-free (Fluoro-coated rubber portions)
- Wetted parts are non-metallic.
- Parts washed and assembled in a clean room, Packed in double packaging.
- Can be used in a vacuum (-100 kPa)

Series	Applicable tubing O.D.	Connection thread
KP	ø4, ø6, ø8, ø10, ø12	1/8, 1/4, 3/8, 1/2

Clean One-touch Fittings for Driving Air Piping **KPQ/KPG**

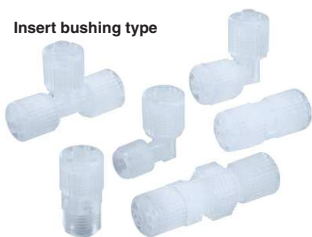


- One-touch fittings suitable for driveline air systems in clean room environments
- Resin parts: Polypropylene
- All metal portions: Brass (Electroless nickel-plated) KPQ
Stainless steel (Stainless steel 304) KPG

Series	Applicable tubing O.D.	Connection thread
KPQ	ø4, ø6, ø8, ø10, ø12	M5, 1/8, 1/4, 3/8, 1/2
KPG	ø4, ø6, ø8, ø10, ø12	M5, 1/8, 1/4, 3/8, 1/2

Fluoropolymer Fittings Hyper Fittings **LQ1**

Insert bushing type



- Material: New PFA
- Quadruple-seal construction
- The reducer method allows for tubing size changes without replacing the body

Series	Max. operating pressure	Operating temperature
LQ1	1.0 MPa	0 to 200°C

Fluoropolymer Fittings Hyper Fittings **LQ3**

Flare type



- Material: New PFA
- Triple-seal construction
- Easy installation

Series	Max. operating pressure	Operating temperature
LQ3	1.0 MPa	Nut material PVDF: 0 to 150°C Nut material PFA: 0 to 200°C

Fluoropolymer Bore Through Connector **LQHB**



- It is possible to freely choose the tube positioning. As the tube runs through the fitting itself, a setting is available for any desired position.
- Can be used in the pressure feed of chemicals, etc., during the production process of semiconductors
- Applicable to chemicals such as acid, alkali, and deionized water
- Materials: New PFA (Body, nut), PTFE (Collet)

Series	Applicable tubing O.D.		Operating temperature [°C]
	Metric size	Inch size	
LQHB	ø3 to ø25	ø1/8" to ø1"	0 to 200