

Fittings for General Purposes

One-touch Fittings **KQ2**

Applicable tubing: Metric size



Applicable tubing: Inch size



- Can be used in vacuum to -100 kPa
- 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 51 models
- Thread material/Surface treatment (Treated or Non-treated): 2 types
- Selectable surface treatments: Brass (No plating), Electroless nickel-plated brass

Series	Seal method	Size	Applicable tubing O.D.	Connection thread
KQ2	Sealant/ Gasket seal	Metric	ø2, ø3.2, ø4, ø6, ø8, ø10, ø12, ø16	M3 x 0.5, M5 x 0.8, M6 x 1.0 R, Rc 1/8, 1/4, 3/8, 1/2
KQ2	Sealant/ Gasket seal	Inch	ø1/8", ø5/32", ø3/16", ø1/4", ø5/16", ø3/8", ø1/2"	10-32UNF NPT 1/16, 1/8, 1/4, 3/8, 1/2
KQ2	Sealant/ Gasket seal	Inch	ø1/8", ø3/16", ø1/4", ø5/16", ø3/8", ø1/2"	M5 x 0.8 R, Rc 1/8, 1/4, 3/8, 1/2
KQ2	Face seal	Metric	ø4, ø6, ø8, ø10, ø12, ø16	G1/8, 1/4, 3/8, 1/2
KQ2	Face seal	Metric	ø3.2, ø4, ø6, ø8, ø10, ø12, ø16	R, Rc 1/8, 1/4, 3/8, 1/2
KQ2	Face seal	Inch	ø1/8", ø5/32", ø3/16", ø1/4", ø5/16", ø3/8", ø1/2"	NPT 1/16, 1/8, 1/4, 3/8, 1/2
KQ2	Face seal	Inch	ø1/8", ø5/32", ø3/16", ø1/4", ø5/16", ø3/8", ø1/2"	R1/8, 1/4, 3/8, 1/2
KQ2	Gasket seal	Metric	ø4, ø6, ø8, ø10, ø12, ø16	Uni 1/8, 1/4, 3/8, 1/2
KQ2	Gasket seal	Inch	ø1/8", ø5/32", ø3/16", ø1/4", ø5/16", ø3/8", ø1/2"	Uni 1/8, 1/4, 3/8, 1/2

Metal One-touch Fittings **KQB2**



- Compact and lightweight
- Fluid temperature: -5 to 150°C
- Brass parts: Electroless nickel-plated
- Grease-free

Series	Size	Applicable tubing O.D.	Connection thread
KQB2	Metric	ø3.2, ø4, ø6, ø8, ø10, ø12, ø16	M5 R, Rc, G 1/8, 1/4, 3/8, 1/2
KQB2	Inch	ø1/8", ø5/32", ø1/4", ø5/16", ø3/8", ø1/2"	UNF10-32 NPT1/8, 1/4, 3/8, 1/2

Rotary One-touch Fittings **KS/KX**

Applicable tubing: Metric size



- Applicable to use for oscillating and rotating sections in robots
- Low torque rotation type rotary One-touch fittings
- Copper-free (Electroless nickel-plated)

Series	Size	Applicable tubing O.D.	Connection thread
KS	Metric	ø4, ø6, ø8, ø10, ø12	M5 x 0.8, M6 x 1.0 1/8, 1/4, 3/8, 1/2
KX (High speed type)	Metric	ø4, ø6, ø8, ø10, ø12	M5 x 0.8, M6 x 1.0 1/8, 1/4, 3/8, 1/2

Rotary One-touch Fittings **KS**

Applicable tubing: Inch size



- Applicable to use for oscillating and rotating sections in robots
- Low torque rotation type rotary One-touch fittings
- Copper-free (Electroless nickel-plated)

Series	Size	Applicable tubing O.D.	Connection thread
KS	Inch	ø5/32, ø1/4, ø5/16, ø3/8	10-32UNF, 1/8, 1/4, 3/8

Fittings for General Purposes

One-touch Fittings Manifold **KM**

Applicable tubing: Metric size



Applicable tubing: Inch size



- Compact manifold piping is possible.

Series	Size	Applicable tubing O.D.	Connection thread
KM	Metric	ø4, ø6, ø8, ø10, ø12	1/8, 1/4, 3/8, 1/2
KM	Inch	ø5/32", ø1/4", ø5/16", ø3/8", ø1/2"	1/4, 3/8

Insert Fittings **KF**



- Vacuum 1.3×10^{-2} kPa applicable
- Piping can be done without removing the nut.
- Fluid temperature: -5 to 150°C (Brass sleeve)
-5 to 60°C (Resin sleeve)
- Steam can be used.
- Grease-free

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

Miniature Fittings **M**



- Compact and doesn't require tools for connection
- Compact piping space
- Hose nipple, Hose elbow, Barb

Series	Applicable tubing O.D.	Connection thread
M-□□-2	ø2	M3, M5
M	ø3.2, ø4, ø6	M3, M5, 1/8

Self-align Fittings **H/DL/L/LL**



- Applicable for use on soft copper steel pipes
- Flared ridge metal ferrule

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

Fittings for General Purposes

Self-seal Fittings **KC**



- One-touch installation and removal
- Built-in self-sealing mechanism
- Air does not exhaust after the removal of tubing.
- Copper-free (Electroless nickel-plated)

Series	Applicable tubing O.D.	Connection thread
KC	ø4, ø6, ø8, ø10, ø12	M5 x 0.8, 1/8, 1/4, 3/8, 1/2

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

S Couplers **KK/KKH**



- One-touch fitting type standardized (KK)
- Uses ultra high-impact PBT resin (KKH)

Series	Applicable tubing O.D.	Connection thread
KK	ø3.2, ø4, ø6, ø8, ø10, ø12, ø16	M5 x 0.8, 1/8, 1/4, 3/8, 1/2, 3/4
KKH	—	1/8, 1/4, 3/8, 1/2

S Couplers **KK130**



- Cv factor: Increased by 34%*
 - Plug insertion force: Reduced by 22% (20 N)*
 - Lightweight: Weight reduced by 14% (12 g)*
- * Compared to the current model

Series	Applicable tubing O.D.	Connection thread [R, NPT]
KK130	ø6, ø8, ø10, ø12 ø1/4", ø5/16", ø3/8", ø1/2"	1/8, 1/4, 3/8, 1/2

Multi-connector **DM**



- One-touch installation and removal of multi-tubes
- Prevents installation mistakes

Series	No. of connecting tubes	Applicable tubing O.D.
DM	6, 12	ø4, ø6

Multi-connector with One-touch Fittings **DMK**



- One-touch installation and removal of multi-tubes
- Prevents installation mistakes

Series	No. of connecting tubes	Applicable tubing O.D.
DMK	6, 12	ø3.2, ø4