

Clean One-Touch Fittings

Series KPQ/KPG

Clean

Features

- ➔ Wide range of port sizes of M5 to 1/2"
- ➔ Use of Polypropylene for resin parts.
- ➔ Tube size \varnothing 4mm - 12mm available.
- ➔ Low particle generation suitable for clean room application.



Series KPQ
Brass (electroless nickel plated)
Release button: Light gray

Series KPG
Stainless steel 304
Release button: Light blue

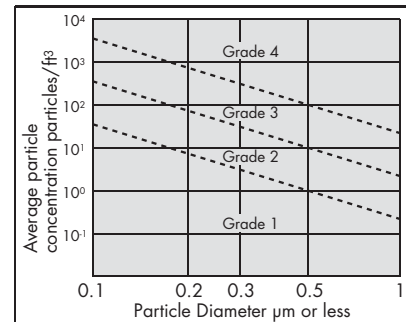
Specifications

Particle generation grade	Grade 1 Note 1)
Fluid	Air
Max. operating pressure (20°C)	1MPa Note 2)
Operating vacuum pressure	-100kPa
Proof pressure (20°C)	3MPa
Ambient and fluid temperature	-5 to 60°C (With no condensation)
Thread	JIS B0203 (Taper thread for piping)

Note 1) Refer to the particle generation grading chart.
Internal parts are not included in the grading because of greasing on sealant.
Note 2) The max. operating pressure is one at 20°C.

- Applicable tubing O.D.: Metric Size
- Connecting thread: M, R

Particle Generation Grading

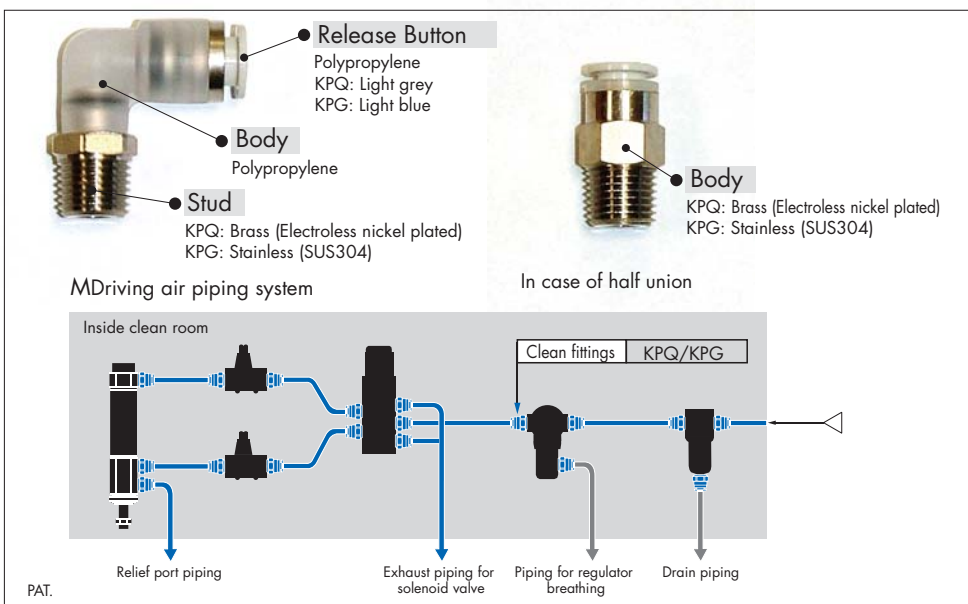


Principal Parts Material

Model	Series KPQ	Series KPG
Body	Polypropylene resin	
Stud	Brass (Electroless nickel plated)	Stainless steel 304
Chuck	Stainless steel 304	
Guide, Stopper	Brass (Electroless nickel plated)	Stainless steel 304
Collet, Release button	Polypropylene resin	
Seal, O-ring, Bumper	NBR	

Recommended Applicable Tubing

Tubing material	Polyurethane: Series 10-	Nylon tubing: Series T, Soft nylon tubing: Series T and Series TS soft nylon tubing can also be used through with lower degree of cleanliness.
Tubing O.D.	\varnothing 4, \varnothing 6, \varnothing 8, \varnothing 10, \varnothing 12	



Clean One-Touch Fittings
KPQH/KPGH Male Connector

Most common style used to pipe from female thread in the same direction.

Applicable tubing O.D. mm	Connecting thread	Model	
		KPQH	KPGH
4	M5	KPQH04-M5	KPGH04-M5
	R1/8	KPQH04-01	KPGH04-01
	R1/4	KPQH04-02	KPGH04-02
6	M5	KPQH06-M5	KPGH06-M5
	R1/8	KPQH06-01	KPGH06-01
	R1/4	KPQH06-02	KPGH06-02
8	R1/8	KPQH08-01	KPGH08-01
	R1/4	KPQH08-02	KPGH08-02
	R1/4	KPQH10-02	KPGH10-02
10	R3/8	KPQH10-03	KPGH10-03
	R3/8	KPQH12-03	KPGH12-03
12	R1/2	KPQH12-04	KPGH12-04

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KPQT/KPGT Union Tee

To branch a tubing into 2 directions each at 90° to the original one.

Applicable tubing O.D. mm	Connecting thread	Model	
		KPQT	KPGT
4	M5	KPQT04-M5	KPGT04-M5
	R1/8	KPQT04-01	KPGT04-01
	R1/4	KPQT04-02	KPGT04-02
6	M5	KPQT06-M5	KPGT06-M5
	R1/8	KPQT06-01	KPGT06-01
	R1/4	KPQT06-02	KPGT06-02
8	R1/8	KPQT08-01	KPGT08-01
	R1/4	KPQT08-02	KPGT08-02
	R1/4	KPQT10-02	KPGT10-02
10	R3/8	KPQT10-03	KPGT10-03
	R3/8	KPQT12-03	KPGT12-03
12	R1/2	KPQT12-04	KPGT12-04

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KPQL/KPGL Male Elbow

Most common style used to pipe from female thread at a right angle.

Applicable tubing O.D. mm	Connecting thread	Model	
		KPQL	KPGL
4	M5	KPQL04-M5	KPGL04-M5
	R1/8	KPQL04-01	KPGL04-01
	R1/4	KPQL04-02	KPGL04-02
6	M5	KPQL06-M5	KPGL06-M5
	R1/8	KPQL06-01	KPGL06-01
	R1/4	KPQL06-02	KPGL06-02
8	R1/8	KPQL08-01	KPGL08-01
	R1/4	KPQL08-02	KPGL08-02
	R1/4	KPQL10-02	KPGL10-02
10	R3/8	KPQL10-03	KPGL10-03
	R3/8	KPQL12-03	KPGL12-03
12	R1/2	KPQL12-04	KPGL12-04

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KPQY/KPGY Male Run Tee

To branch the line from the female thread in the same direction and at 90°.

Applicable tubing O.D. mm	Connecting thread	Model	
		KPQL	KPGL
4	M5	KPQY04-M5	KPGY04-M5
	R1/8	KPQY04-01	KPGY04-01
	R1/4	KPQY04-02	KPGY04-02
6	M5	KPQY06-M5	KPGY06-M5
	R1/8	KPQY06-01	KPGY06-01
	R1/4	KPQY06-02	KPGY06-02
8	R1/8	KPQY08-01	KPGY08-01
	R1/4	KPQY08-02	KPGY08-02
	R1/4	KPQY10-02	KPGY10-02
10	R3/8	KPQY10-03	KPGY10-03
	R3/8	KPQY12-03	KPGY12-03
12	R1/2	KPQY12-04	KPGY12-04

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Clean One-Touch Fittings

KPQU/KPGU Union "Y"

To branch tubing in the same direction.

Applicable tubing O.D. mm	Connecting thread	Model	
		KPQU	KPGU
4	M5	KPQU04-M5	KPGU04-M5
	R1/8	KPQU04-01	KPGU04-01
	R1/4	KPQU04-02	KPGU04-02
6	M5	KPQU06-M5	KPGU06-M5
	R1/8	KPQU06-01	KPGU06-01
	R1/4	KPQU06-02	KPGU06-02
8	R1/8	KPQU08-01	KPGU08-01
	R1/4	KPQU08-02	KPGU08-02
10	R1/4	KPQU10-02	KPGU10-02
	R3/8	KPQU10-03	KPGU10-03
12	R3/8	KPQU12-03	KPGU12-03
	R1/2	KPQU12-04	KPGU12-04



KPQT/KPGT Union Tee

To branch a tubing into 2 directions each at 90° to the original one.

Applicable tubing O.D. mm	Model	
	KPQT	KPGT
4	KPQT04-00	KPGT04-00
6	KPQT06-00	KPGT06-00
8	KPQT08-00	KPGT08-00
10	KPQT10-00	KPGT10-00
12	KPQT12-00	KPGT12-00



KPQU/KPGU Union "Y"

To branch tubing in the same direction.

Applicable tubing O.D. mm	Model	
	KPQU	KPGU
4	KPQU04-00	KPGU04-00
6	KPQU06-00	KPGU06-00
8	KPQU08-00	KPGU08-00
10	KPQU10-00	KPGU10-00
12	KPQU12-00	KPGU12-00



KPQH/KPGH Straight Union

To connect tubing in the same direction.

Applicable tubing O.D. mm	Model	
	KPQH	KPGH
4	KPQH04-00	KPGH04-00
6	KPQH06-00	KPGH06-00
8	KPQH08-00	KPGH08-00
10	KPQH10-00	KPGH10-00
12	KPQH12-00	KPGH12-00



KPQR/KPGR Plug In Reducer

To connect to a smaller one-touch fitting.

Applicable tubing O.D. mm	Fitting size	Model	
		KPQR	KPGR
4	6	KPQR04-06	KPGR04-06
	8	KPQR04-08	KPGR04-08
6	8	KPQR06-08	KPGR06-08
	10	KPQR06-10	KPGR06-10
8	10	KPQR08-10	KPGR08-10
	12	KPQR08-12	KPGR08-12
10	12	KPQR10-12	KPGR10-12



KPQL/KPGL Elbow

To connect tubing at right angles to each other.

Applicable tubing O.D. mm	Model	
	KPQL	KPGL
4	KPQL04-00	KPGL04-00
6	KPQL06-00	KPGL06-00
8	KPQL08-00	KPGL08-00
10	KPQL10-00	KPGL10-00
12	KPQL12-00	KPGL12-00



KPP Plug

To plug unused one-touch fittings.

Fitting size	Model
4	KPP-04
6	KPP-06
8	KPP-08
10	KPP-10
12	KPP-12

