

Clean One-touch Fittings For Drive System Air Piping Series *KPQ/KPG*



Series KPQ

Brass (electroless nickel plated)
Release button: Light gray



Series KPG

Stainless steel 304
Release button: Light blue

Recommended Applicable Tubing

Tubing material	Polyurethane: 10-series
Tubing O.D.	ø4, ø6, ø8, ø10, ø12

Polyurethane tubing: Series TU, Nylon tubing: Series T, and Soft nylon tubing: Series TS can also be used. However, the degree of clean performance will be reduced.

Specifications

Particulate generation grade	Grade 1 Note 1)
Fluid	Air
Maximum operating pressure (20°C)	1MPa Note 2)
Operating vacuum pressure	-100kPa
Proof pressure (20°C)	3MPa
Ambient and fluid temperature	-5°C to 60°C
Threads	JIS B0203 (Taper thread for piping)

Note 1) Refer to particulate generation grade classifications

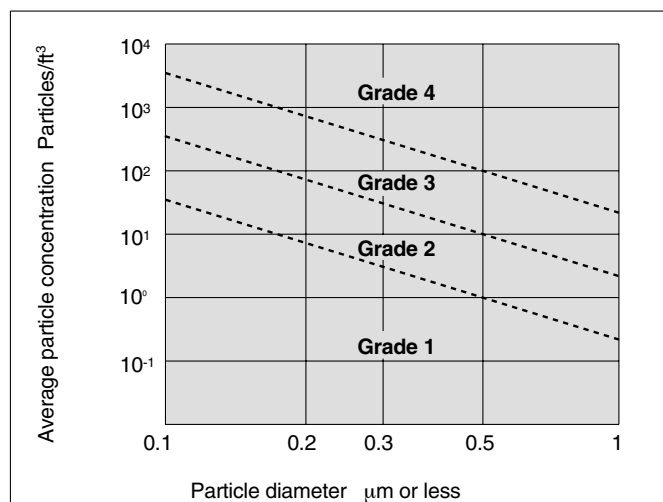
This falls outside of the grade because grease is applied to the internal seal materials.

Note 2) The maximum operating pressure is the value at 20°C. Refer to the operating pressure curve for other temperatures.

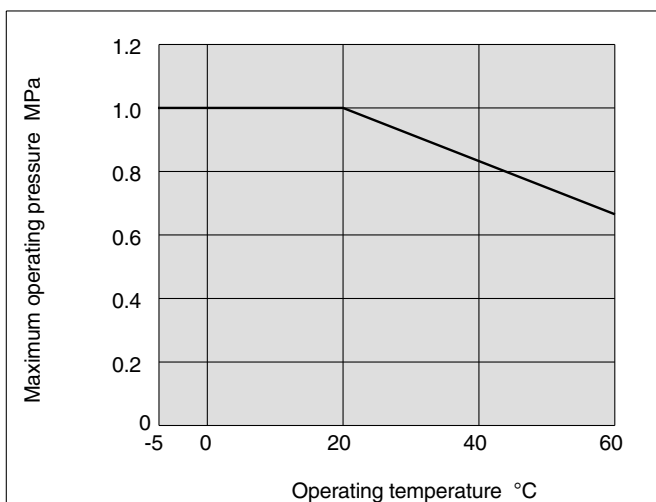
Principal Parts Material

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	

Particulate Generation Grade Classifications



Relation between Operating Temperature and Maximum Operating Pressure



Series KP/KPG

Dimensions

Male Connector: KPQH, KPGH

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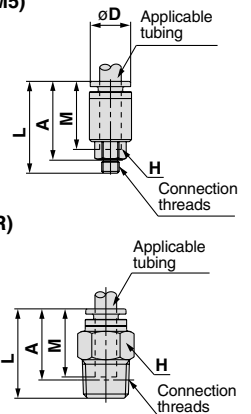


Applicable tubing O.D. mm	Connection thread R	Model		H (width across flats)	øD	L	A*	M	Effective area mm ²		Weight g
									TPH	TPS	
4	M5	KPQH04-M5	—	8	10	25.4	22.5	18	4	4	4
		—	KPGH04-M5			25.9					7
		1/8 KPQH04-01	KPGH04-01	10	—	25.4	19.5				12
6	M5	KPQH06-M5	—	8	12	26.3	23	19.5	10	10	5
		—	KPGH06-M5			26.8					7
		1/8 KPQH06-01	KPGH06-01	12	—	25.6	19.5				14
8	1/4	KPQH08-02	KPGH08-02	14	—	26.1	20	21.5	26	18	14
		1/8 KPQH08-01	KPGH08-01	12	—	32.6	26.5				13
		1/4 KPQH08-02	KPGH08-02	14	—	30.6	24.5				24
10	3/8	KPQH10-02	KPGH10-02	17	—	37.6	31.5	24	41	29	23
		3/8 KPQH10-03	KPGH10-03	17	—	33	26.5				23
		3/8 KPQH12-03	KPGH12-03	19	—	34.1	27.5	25	58	46	23
12	1/2	KPQH12-04	KPGH12-04	22	—	34.1	26				46

* Reference dimension for R threads after installation

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Male Elbow: KPQL, KPGL

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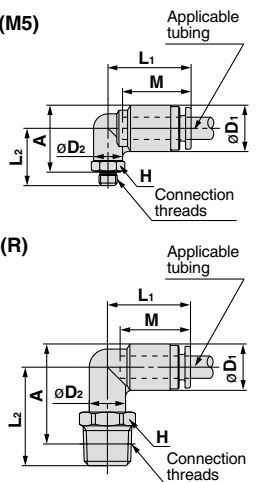


Applicable tubing O.D. mm	Connection thread R	Model		H (width across flats)	Note 1) øD ₁	øD ₂	L ₁	L ₂	A*	M	Effective area mm ²		Weight g
											TPH	TPS	
4	M5	KPQL04-M5	KPGL04-M5	8	10.4	8	20.7	15.3	17	18	4	4	4
		1/8 KPQL04-01	KPGL04-01	10		10		22	21				10
		1/4 KPQL04-02	KPGL04-02	14		10		26	25				19
6	M5	KPQL06-M5	KPGL06-M5	8	12.8	8	22.8	15.8	18.5	19.5	10	10	6
		1/8 KPQL06-01	KPGL06-01	10		10		23.2	23.5				12
		1/4 KPQL06-02	KPGL06-02	14		10		27.2	27.5				20
8	1/4	KPQL08-01	KPGL08-01	12	15.2	12	26.3	24.4	26	21.5	26	18	13
		1/4 KPQL08-02	KPGL08-02	14		12		28.4	30				21
		1/4 KPQL10-02	KPGL10-02	17		17		29.9	33				26
10	3/8	KPQL10-03	KPGL10-03	17	20.9	17	31.4	31.9	34.5	24	41	29	36
		3/8 KPQL12-03	KPGL12-03	17		17		33.1	37				38
		1/2 KPQL12-04	KPGL12-04	22		17		37.1	39.5				65

* Reference dimension for R threads after installation Note 1) øD₁ indicates the maximum diameter.

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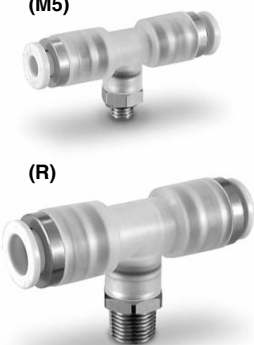
(R)



Union Tee: KPQT, KPGT

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(R)



Applicable tubing O.D. mm	Connection thread R	Model		H (width across flats)	Note 1) øD ₁	øD ₂	L ₁	L ₂	A*	M	Effective area mm ²		Weight g
											TPH	TPS	
4	M5	KPQT04-M5	KPGT04-M5	8	10.4	8	20.7	15.3	17	18	4	4	6
		1/8 KPQT04-01	KPGT04-01	10		10		22	21				13
		1/4 KPQT04-02	KPGT04-02	14		10		26	25				19
6	M5	KPQT06-M5	KPGT06-M5	8	12.8	8	22.8	15.8	18.5	19.5	10	10	7
		1/8 KPQT06-01	KPGT06-01	10		10		23.2	23.5				14
		1/4 KPQT06-02	KPGT06-02	14		10		27.2	27.5				20
8	1/4	KPQT08-01	KPGT08-01	12	15.2	12	26.3	24.4	26	21.5	26	18	14
		1/4 KPQT08-02	KPGT08-02	14		12		28.4	30				22
		1/4 KPQT10-02	KPGT10-02	17		17		29.9	33				29
10	3/8	KPQT10-03	KPGT10-03	17	20.9	17	31.4	31.9	34.5	24	41	29	39
		3/8 KPQT12-03	KPGT12-03	17		17		33.1	37				41
		1/2 KPQT12-04	KPGT12-04	22		17		37.1	39.5				38

* Reference dimension for R threads after installation Note 1) øD₁ indicates the maximum diameter.

(M5)

(R)

