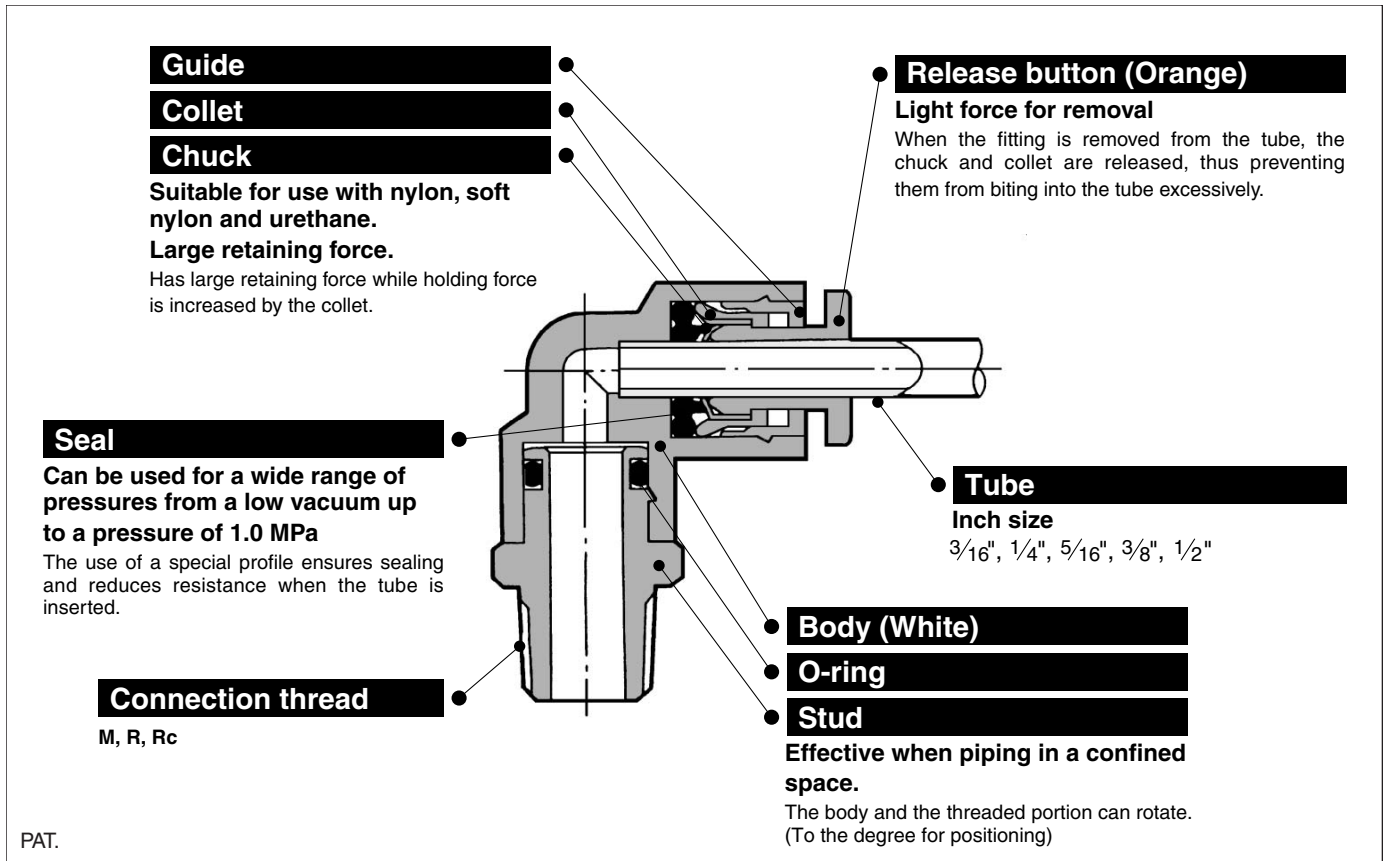


Inch-size One-touch Fittings

Series KQ2

Applicable Tubing: Inch Size
Connection Thread: M, R, Rc




Applicable Tubing

Tubing material	Nylon, Soft nylon, Polyurethane
Tubing O.D. (inch)	ø3/16, ø1/4, ø5/16, ø3/8, ø1/2

















Specifications

Fluid	Air/Water ^{Note)}	
Maximum operating pressure	1.0 MPa	
Proof pressure	3.0 MPa	
Ambient and fluid temperature	-5 to 60°C (Water: 0 to 40°C) (No freezing)	
Thread	Mounting section	JIS B 0203 (Taper thread for piping)
	Nut section	JIS B 0211, Class 2 (Metric fine thread)
Thread seal	With seal	

 Note) Applicable for general industrial water. Please consult with SMC if using for other kinds of fluid.
Also, the surge pressure must be under the maximum operating pressure.

Principal Parts Material

Body	C3604BD, PBT, PP
Stud	C3604BD (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304, C3604BD, POM
Collet	POM
Release button	POM
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR

Model		
<p>Male connector KQ2H P. 26</p>  <p>Use to pipe in the same direction from female thread. Most general style.</p>	<p>Extended male elbow KQ2W P. 27</p>  <p>Basically, it is used together with male elbow. Different point is that it is used for fittings to avoid from interfering with each other by making the piping two-level.</p>	<p>Plug-in "Y" KQ2U P. 29</p>  <p>Use to branch line in the same direction from One-touch fittings.</p>
<p>Straight union KQ2H P. 26</p>  <p>Use to connect tubes in the same direction.</p>	<p>Male branch tee KQ2T P. 27</p>  <p>Use to branch line from female thread in both 90° directions.</p>	<p>Branch "Y" KQ2U P. 29</p>  <p>Use to branch line in the same direction from female thread.</p>
<p>Male elbow KQ2L P. 26</p>  <p>Use to pipe at right angles to female thread. Most general style.</p>	<p>Union tee KQ2T P. 28</p>  <p>Use to connect tubes in both 90° directions.</p>	<p>Bulkhead union KQ2E P. 29</p>  <p>Use to connect male thread and tube through a panel.</p>
<p>Union elbow KQ2L P. 26</p>  <p>Use to connect tubes at the right angles.</p>	<p>Male run tee KQ2Y P. 28</p>  <p>Use to branch line in the same direction from female thread and 90° direction.</p>	<p>Bulkhead connector KQ2E P. 29</p>  <p>Use to connect male thread and tube through a panel.</p>
<p>Plug-in elbow KQ2L P. 27</p>  <p>Use to change by 90° in a tube fetching direction from One-touch fitting.</p>	<p>Plug-in reducer KQ2R P. 28</p>  <p>Use to size down One-touch fittings.</p>	<p>Gasket/Seal for M5 thread Part no. M-5G2 Material Stainless steel 304, NBR</p>
<p>Reducer elbow KQ2L P. 27</p>  <p>Use to change by 90° in a tube fetching direction from One-touch fitting and to size down.</p>	<p>Union "Y" KQ2U P. 28</p>  <p>Use to branch line in the same direction.</p>	

- K
- M
- H
- D
- MS
- T
- VMG

How to Order

One-touch fittings

KQ2

H

05

02

S

• **With thread seal**

Nil	Without seal
S	With thread seal

• **Model**

H	Male connector *
	Straight union
L	Male elbow *
	Union elbow
	Plug-in elbow
	Reducer elbow
W	Extended male elbow *
	Male branch tee *
T	Union tee
	Male run tee *
Y	Union "Y"
	Plug-in "Y"
U	Branch "Y" *
	Plug-in reducer
R	Bulkhead union
	Bulkhead connector

*mark: With seal is available.

• **Applicable tubing O.D.**

01	1/8
05	3/16
07	1/4
09	5/16
11	3/8
13	1/2

• **Port size**

M5	M5 x 0.8
01	1/8
02	1/4
03	3/8
04	1/2
00	Same dia. tubing
99	Same dia. rod

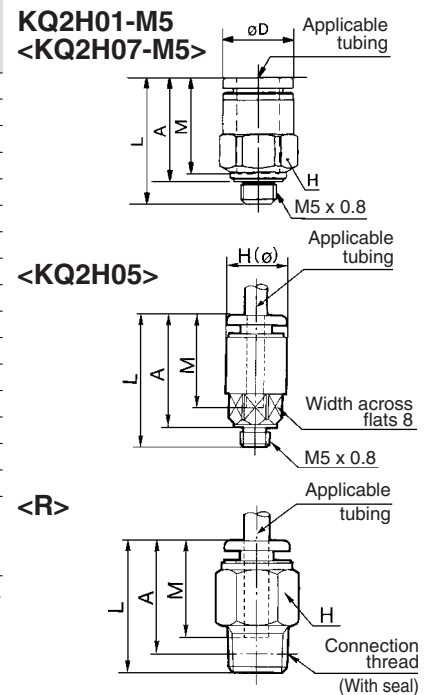
Series KQ2

Male Connector: KQ2H



Applicable tubing O.D. (inch)	Connection thread M R	Model	H (Width across flats)	Note) ϕD	L	A *	M	Min. port size	Weight (g)	
1/8	M5 x 0.8	KQ2H01-M5	7	—	16.7	13.6	12.7	2.5	2	
	1/8	KQ2H01-01S	10	—	22	18	15.5		9	
	1/4	KQ2H01-02S	14	—	19.5	13.5	16			
3/16	M5 x 0.8	KQ2H05-M5	10.7	—	24	20.5	16.5	2.5	6	
	1/8	KQ2H05-01S	11	—	22	18		3.5	11	
	1/4	KQ2H05-02S	14	—	21	15		12		
1/4	M5 x 0.8	KQ2H07-M5	11	10.3	18.4	15.3	13.6	2.5	3.3	
	1/8	KQ2H07-01S	14	—	22.5	18.5		17	4.6	10
	1/4	KQ2H07-02S		—	23	17			15	
5/16	1/8	KQ2H09-01S	14	—	28	24	18.5	6	15	
	1/4	KQ2H09-02S		—	26.5	20.5			16	
	3/8	KQ2H09-03S	17	—	22.5	15.5			24	
3/8	1/4	KQ2H11-02S	17	—	33.5	27.5	21	7	31	
	3/8	KQ2H11-03S		—	29	22.5			29	
	1/2	KQ2H11-04S	22	—	27	19			46	
1/2	1/4	KQ2H13-02S	22	—	34.5	28.5	22	9	44	
	3/8	KQ2H13-03S		—	33.5	27			9.6	
	1/2	KQ2H13-04S	—	30	22	9.6				

* Reference dimensions after R thread installation.
Note) ϕD : Max. diameter

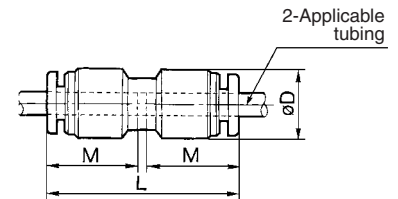


Straight Union: KQ2H



Applicable tubing O.D. (inch)	Model	Note) ϕD	L	M	Min. port size	Weight (g)
3/16	KQ2H05-00	11.4	34	16.5	3.5	4
1/4	KQ2H07-00	13.2	34.5	17	4.6	4
5/16	KQ2H09-00	15.2	38.5	18.5	6	6
3/8	KQ2H11-00	17.9	42.5	21	7	11
1/2	KQ2H13-00	21.7	44.5	22	9.6	16

Note) ϕD : Max. diameter

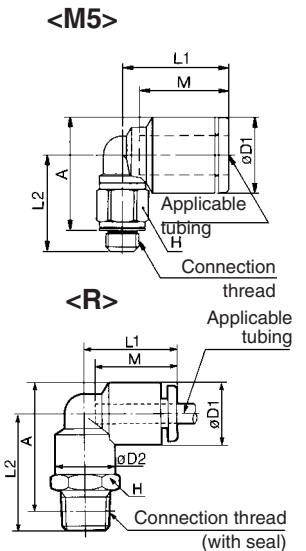


Male Elbow: KQ2L



Applicable tubing O.D. (inch)	Connection thread R	Model	H (Width across flats)	Note) $\phi D1$	$\phi D2$	L1	L2	A *	M	Min. port size	Weight (g)		
1/8	M5 x 0.8	KQ2L01-M5	7	8.4	—	15.3	13.2	14.3	12.7	2.3	2.5		
	1/8	KQ2L05-01S	10	11.4	10	19.5	22.5	24	16.5	3.5	10		
3/16	KQ2L05-02S	14	26.5									26	19
1/4	M5 x 0.8	KQ2L07-M5	7	12	—	16.1	15.1	18	13.6	2.3	3.2		
	1/8	KQ2L07-01S	10	13.2	10	20.5	23.5	26	17	4.6	10		
	1/4	KQ2L07-02S	14								27.5	28	20
	3/8	KQ2L07-03S	17								29.5	29.5	32
5/16	KQ2L09-01S	12	15.2								12	23.5	24.5
1/4	KQ2L09-02S	14		28.5	30	20							
3/8	KQ2L09-03S	17		30.5	31.5	28							
3/8	1/4	KQ2L11-02S	17	17.9	17	25.5	29.5	32.5	21	7	23		
	3/8	KQ2L11-03S									31.5	34	33
	1/2	KQ2L11-04S	22								35.5	36.5	59
1/2	1/4	KQ2L13-02S	17	21.7	17	28	31.5	36.5	22	9	28		
	3/8	KQ2L13-03S									33.5	38.5	36
	1/2	KQ2L13-04S	22								37.5	40	62

* Reference dimensions after R thread installation.
Note) $\phi D1$: Max. diameter



Union Elbow: KQ2L



Applicable tubing O.D. (inch)	Model	Note) ϕD	L	Q	M	Min. port size	Weight (g)
3/16	KQ2L05-00	11.4	19.5	4.8	16.5	3.5	5
1/4	KQ2L07-00	13.2	20.5	5.3	17	4.6	5
5/16	KQ2L09-00	15.2	23	6	18.5	6	7
3/8	KQ2L11-00	17.9	26	6.6	21	7	13
1/2	KQ2L13-00	21.7	29	7.8	22	9.6	18

Note) ϕD : Max. diameter

