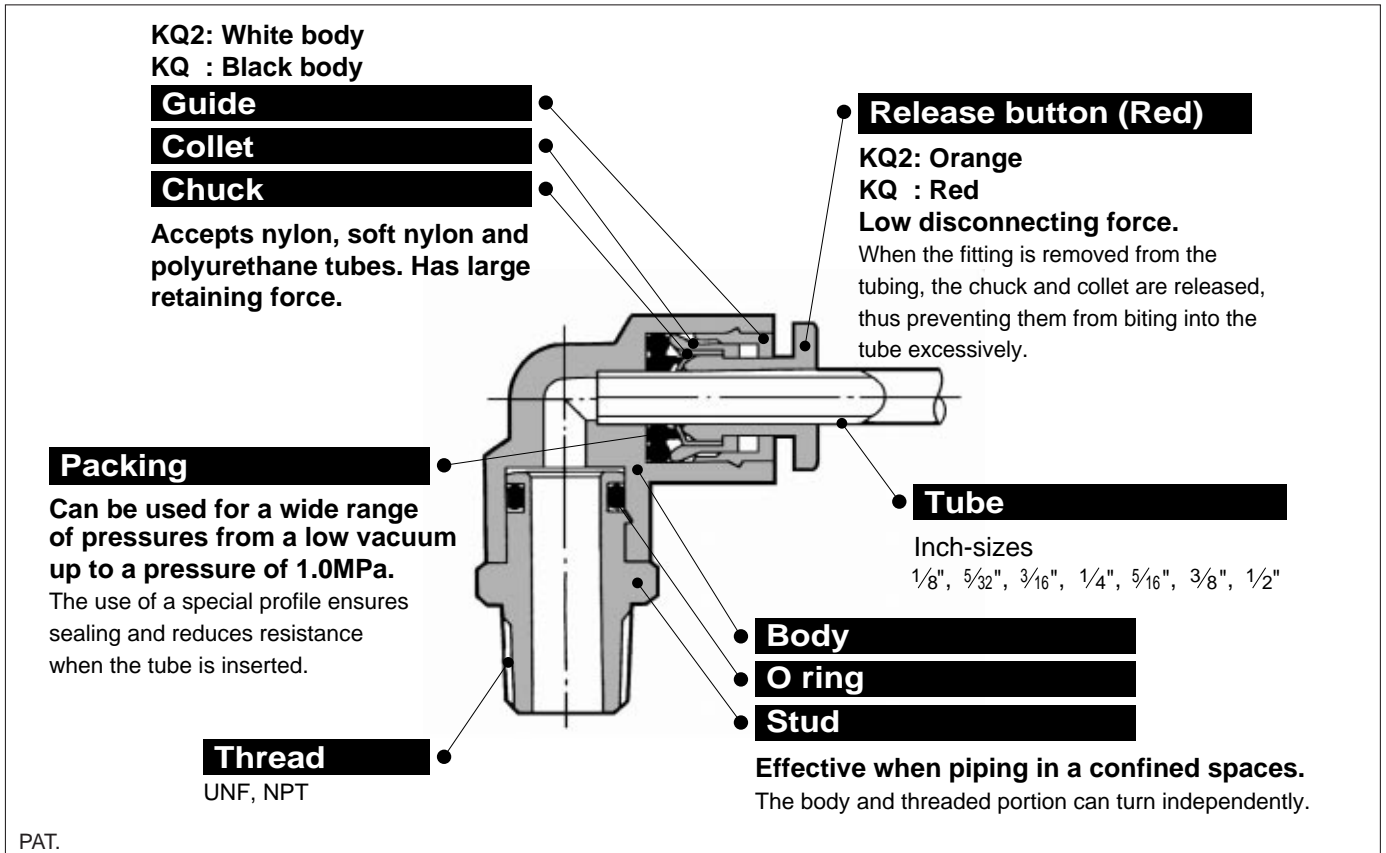


# Inch-size One-touch Fittings

## Series KQ2

Applicable Tubing — Inch Size Thread — UNF, NPT



### Color

Series	Body	Release button
KQ2	White	Orange
KQ	Black	Red

### Applicable Tubing

Tube material	Nylon, Soft nylon, Polyurethane
Tube O.D. (inch)	ø1/8, ø5/32, ø3/16, ø1/4, ø5/16, ø3/8, ø1/2

### Specifications

Operating fluid	Air, Water (1)	
Max. operating pressure	1.0MPa	
Proof pressure	3.0MPa	
Ambient and fluid temperature	-5 to 60°C (Water: 0 to 40°C)	
Thread	Thread portion	ANSI/ASME B1.20.1-1983 (NPT thread) JIS B0212 2A, Class 2B (UNF thread)
	Nut	JIS B 0212 2A, Class 2B (UNF thread)
Sealant (Thread portion)	With sealant	




















Note1) Applicable for general industry water. Consult SMC if using for other kind of fluids. Surge pressure must be under the max. operating pressure.

### Component Materials

Body	C3604BD, PBT, PP
Stud	C3604BD (Thread portion)
Chuck	Stainless Steel (SUS304)
Guide	Stainless Steel (SUS304), C3604BD, POM
Collet	POM
Release button	POM
Packing, O ring	NBR
Gasket	PVC

# Inch-size One-touch Fittings Series KQ2

Model	
<b>Male connector</b> <b>KQ2H</b> P.2.2-11 	Used to pipe in the same direction from female threaded portion. Most common style.
<b>Extended male elbow</b> <b>KQ2W</b> P.2.2-12 	For when the elbow extends over a standard elbow for easier of connection/disconnection of tubing.
<b>Plug-in "Y"</b> <b>KQ2U</b> P.2.2-14 	Used to branch tubing in the same direction from One-touch fittings.
<b>Straight union</b> <b>KQ2H</b> P.2.2-11 	Used to connect tubes in the same direction.
<b>Male branch tee</b> <b>KQ2T</b> P.2.2-13 	Used to branch line from female thread in both 90° directions.
<b>Branch "Y"</b> <b>KQ2U</b> P.2.2-14 	Used to branch line in the same direction from female thread.
<b>Male elbow</b> <b>KQ2L</b> P.2.2-11 	Used to pipe at right angle to female threaded portion. Most common style.
<b>Union tee</b> <b>KQ2T</b> P.2.2-13 	Used to connect tubes in both 90° directions.
<b>Bulkhead union</b> <b>KQ2E</b> P.2.2-15 	Used for junction connection of two tubes for installation of a panel.
<b>Union elbow</b> <b>KQ2L</b> P.2.2-12 	Used to connect tubes at right angles.
<b>Male run tee</b> <b>KQ2Y</b> P.2.2-13 	Used for a branch line in the same direction from female thread and in 90° directions.
<b>Bulkhead connector</b> <b>KQ2E</b> P.2.2-15 	Used for transit connection of a tube and a male screw for installation of a panel.
<b>Plug-in elbow</b> <b>KQ2L</b> P.2.2-12 	Used to change by 90° in a tube fetching direction from One-touch fittings.
<b>Plug-in reducer</b> <b>KQ2R</b> P.2.2-14 	Used to change size of One-touch fittings.
<b>Plug</b> <b>KQ2P, KQP</b> P.2.2-15 	Used to shut unused One-touch fittings. KQ2P (Orange) KQP (Orange)
<b>Reducer elbow</b> <b>KQ2L</b> P.2.2-12 	Used to change by 90° in tube fetching direction from One-touch fittings and to size down.
<b>Union "Y"</b> <b>KQ2U</b> P.2.2-14 	Used to connect tubes in the same direction.

## How to Order


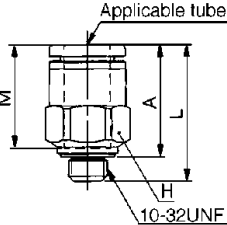
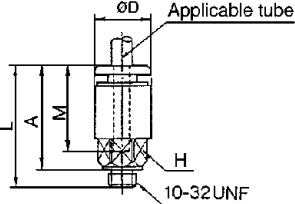
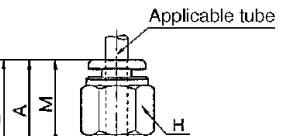
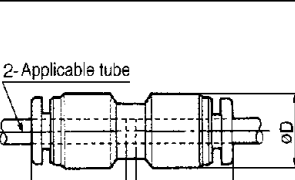
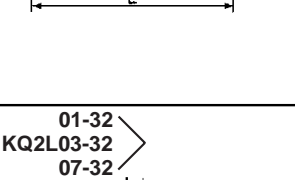
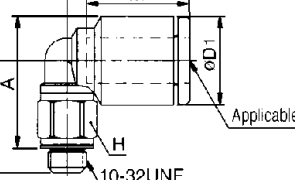
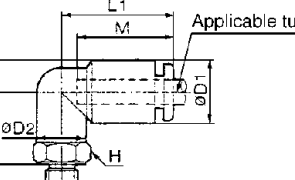
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With \*mark: With sealant style is available.

\*Additional models are available. See p.2.2-15.

# Series KQ2

## Male connector: KQ2H

01-32 KQ2H03-32 07-32		Tube O.D. (inch)	Thread UNF NPT	Part No.	H (Hex.)	øD <sup>(1)</sup>	L	A	M	Min. hole dia.	Weight (g)	01-32 KQ2H03-32 07-32	
	1/8	10-32UNF	KQ2H01-32	7	—	16.7	13.7	12.7	15.5	2.5	2		
			KQ2H01-33S	11.11	—	22	18*	7					
			KQ2H01-34S	—	—	—	—	9					
			KQ2H01-35S	14.29	—	19.5	13.5*	16					
5/32	10-32UNF	KQ2H03-32	8	—	17	14	12.7	2.5	2.4	3	2.4		
		KQ2H03-33S	11.11	—	22	18*	7						
		KQ2H03-34S	—	—	—	—	9						
		KQ2H03-35S	14.29	—	19.5	13.5*	16						
3/16	10-32UNF	KQ2H05-32	8	11	24	20.4	16.5	2.5	6	6	6		
		KQ2H05-34S	12.7	—	22	18*		3.5	11				
		KQ2H05-35S	14.29	—	21	15*		12					
1/4	10-32UNF	KQ2H07-32	11.11	—	18.4	15.4	13.6	2.5	3.3	17	3.3		
		KQ2H07-34S	14.29	—	22.5	18.5*		4.6	10				
		KQ2H07-35S	—	—	23	17*		15					
5/16	10-32UNF	KQ2H09-34S	14.29	—	28.5	24.5*	18.5	6	15	18.5	15		
		KQ2H09-35S	—	—	26.5	20.5*			24				
		KQ2H09-36S	17.46	—	22	15.5*			29				
3/8	10-32UNF	KQ2H11-34S	17.46	—	30.5	26.5*	21	7	29	21	29		
		KQ2H11-35S	—	—	33.5	27.5*			31				
		KQ2H11-36S	—	—	29	22.5*			29				
1/2	10-32UNF	KQ2H13-35S	22.23	—	26.5	18.5*	22	9	44	22	44		
		KQ2H13-36S	—	—	33	26.5*			9.6		44		
		KQ2H13-37S	—	—	30	22*			44				


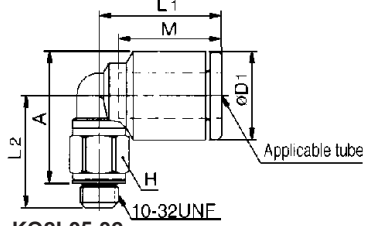
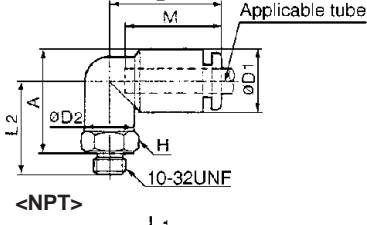
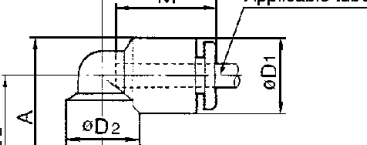

\* Reference dimensions after NPT thread installation.  
Note1) øD: max. diameter

## Straight union: KQ2H

Tube O.D. (inch)	Part No.	øD <sup>(1)</sup>	L	M	Min. hole dia.	Weight (g)
1/8	KQ2H01-00	9.6	31.5	15.5	2.5	3
5/32	KQ2H03-00	10.4	32.5	16	3	3
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

Note1) øD: max. diameter

## Male elbow: KQ2L

01-32 KQ2L03-32 07-32		Tube O.D. (inch)	Thread UNF NPT	Part No.	H (Hex.)	øD <sup>(1)</sup>	øD <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	A	M	Min. hole dia.	Weight (g)	01-32 KQ2L03-32 07-32	
	1/8	10-32UNF	KQ2L01-32	7	8.4	—	15.3	13.2	14	12.7	15.5	2.5	2.5		
			KQ2L01-33S	11.11	9.6	10	17.5	21.5	22.5*	8					
			KQ2L01-34S	—	—	—	—	25.5	24.5*	18					
			KQ2L01-35S	14.29	—	—	—	20	22	18					
5/32	10-32UNF	KQ2L03-32	7	9.3	—	15.6	13.7	15.4	12.7	2.5	2.5	2.7	3		
		KQ2L03-33S	11.11	10.4	10	18	22	23*	8						
		KQ2L03-34S	—	—	—	—	26	25*	9						
		KQ2L03-35S	14.29	—	—	—	20	22	18						
3/16	10-32UNF	KQ2L05-32	11.11	11.4	10	19.5	22.5	24*	16.5	3.5	10	6	10		
		KQ2L05-34S	—	—	—	—	26.5	26*	19						
		KQ2L05-35S	14.29	—	—	—	23.5	26*	10						
1/4	10-32UNF	KQ2L07-32	7	12	—	16.1	15.1	18.1	13.6	2.5	3.2	17	4.6	20	
		KQ2L07-34S	11.11	13.2	10	20.5	27.5	28*	20						
		KQ2L07-35S	14.29	—	—	—	29.5	30*	32						
5/16	10-32UNF	KQ2L09-34S	12.7	15.2	12	23.5	24.5	28*	18.5	6	20	18.5	20		
		KQ2L09-35S	14.29	—	—	—	30.5	31.5*			28				
		KQ2L09-36S	17.46	—	—	—	26.5	31.5*			28				
3/8	10-32UNF	KQ2L11-34S	17.46	17.9	17	25.5	26.5	31.5*	21	7	16	21	16		
		KQ2L11-35S	—	—	—	—	29.5	32.5*			23				
		KQ2L11-36S	—	—	—	—	31.5	34*			33				
1/2	10-32UNF	KQ2L11-37S	22.23	—	—	—	35.5	36.5*	22	9.6	59	22	36		
		KQ2L13-35S	17.46	—	—	—	31.5	36.5*			28				
		KQ2L13-36S	—	—	—	—	33.5	38.5*			36				
			KQ2L13-37S	22.23	—	—	37.5	40*	22	9.6	62				

\* Reference dimensions after NPT thread installation.  
Note1) øD<sub>1</sub>: max. diameter

# Inch-size One-touch Fittings Series KQ2

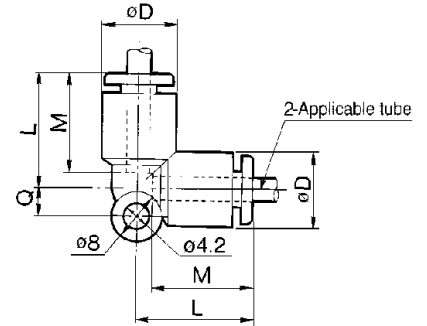
## Union elbow: KQ2L



Tube O.D. (inch)	Part No.	$\phi D^{(1)}$	L	Q	M	Min. hole dia.	Weight (g)
1/8	KQ2L01-00	9.6	17.5	4.3	15.5	2.5	3
5/32	KQ2L03-00	10.4	18	4.5	16	3	4
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



Note1)  $\phi D$ : max. diameter



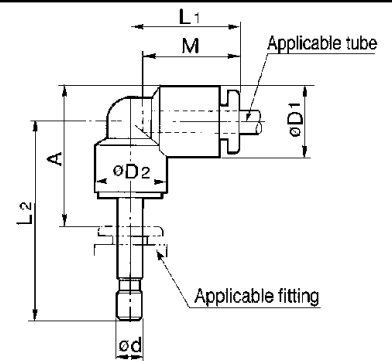
## Plug-in elbow: KQ2L



Tube O.D. (inch)	Fitting size $\phi d$ (inch)	Part No.	$\phi D_1^{(1)}$	$\phi D_2$	L1	L2	A	M	Min. hole dia.	Weight (g)
1/8	1/8	KQ2L01-99	9.6	7	17	24.5	14	15	2.2	3
5/32	5/32	KQ2L03-99	10.4	8	18	25	14.5	16	2.5	3
3/16	3/16	KQ2L05-99	11.4	10	19.5	34	23.5	16.5	3.5	7
1/4	1/4	KQ2L07-99	13.2	10	20	27.5	17.5	17	4.6	8
5/16	5/16	KQ2L09-99	15.2	12	22.5	31.5	21	18.5	6	6
3/8	3/8	KQ2L11-99	17.9	13.6	25	35	23	21	7	19
1/2	1/2	KQ2L13-99	21.7	17	28	44.5	34	22	9.6	27



Note1)  $\phi D_1$ : max. diameter



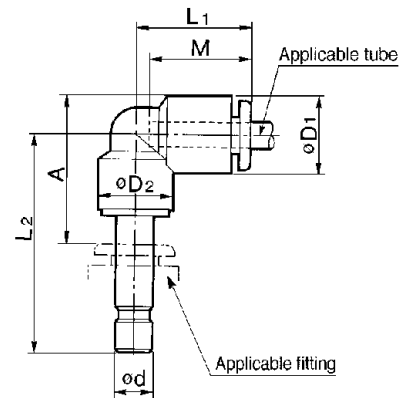
## Reducer elbow: KQ2L



Tube O.D. (inch)	Fitting size $\phi d$ (inch)	Part No.	$\phi D_1^{(1)}$	$\phi D_2$	L1	L2	A	M	Min. hole dia.	Weight (g)
1/8	5/32	KQ2L01-03	9.6	7	17	25	13.5	15.5	2.2	3
	3/16	KQ2L01-05		10	17.5	33	21.5		2.5	7
5/32	3/16	KQ2L03-05	10.4	10	18	33.5	22.5	16	3	6
	1/4	KQ2L03-07		8	26	14.5	2.5		3	
3/16	1/4	KQ2L05-07	11.4	10	19	26.5	15.5	16.5	3.5	8
	5/16	KQ2L05-09		19.5	35.5	23	3.5		11	
1/4	5/16	KQ2L07-09	13.2	10	20.5	36.5	24.5	17	4.6	12
	3/8	KQ2L07-11		10	39.5	23.5	4.6		17	
5/16	3/8	KQ2L09-11	15.2	12	23.5	40.5	27.5	18.5	6	17
	1/2	KQ2L09-13		12	41.5	27.5	6		30	
3/8	1/2	KQ2L11-13	17.9	17	25.5	43	30	21	7	25



Note1)  $\phi D_1$ : max. diameter

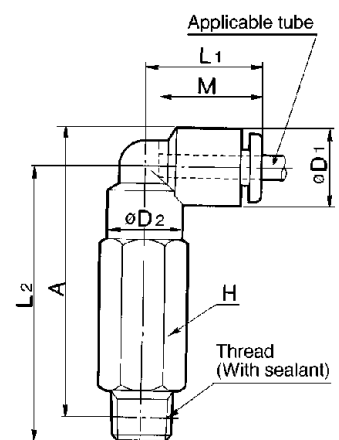


## Extended male elbow: KQ2W



Tube O.D. (inch)	Thread NPT	Part No.	H (Hex.)	$\phi D_1^{(1)}$	$\phi D_2$	L1	L2	A*	M	Min. hole dia.	Weight (g)
1/8	1/8	KQ2W01-34S	11.11	9.6	10	17.5	37	38	15.5	2.5	19
	1/4	KQ2W01-35S	14.29				43	42			
5/32	1/8	KQ2W03-34S	11.11	10.4	10	18	37.5	38.5	16	3	19
	1/4	KQ2W03-35S	14.29				43.5	42.5			
3/16	1/8	KQ2W05-34S	11.11	11.4	10	19.5	38	40	16.5	3.5	41
	1/4	KQ2W05-35S	14.29				44	43.5			
1/4	1/8	KQ2W07-34S	11.11	13.2	10	20.5	40.5	43	17	4.6	20
	1/4	KQ2W07-35S	14.29				46.5	47			
5/16	3/8	KQ2W07-36S	17.46	15.2	12	23.5	48.5	49	18.5	6	69
	1/8	KQ2W09-34S	12.7				43.5	47			
3/8	1/4	KQ2W09-35S	14.29	17.9	17	25.5	49.5	51	21	7	47
	3/8	KQ2W09-36S	17.46				51.5	53			
1/2	1/4	KQ2W11-35S	17.46	21.7	17	28	56	59	22	9.6	69
	3/8	KQ2W11-36S	17.46				58	61			
1/2	1/2	KQ2W11-37S	22.23	21.7	17	28	64.5	65.5	22	9.6	147
	1/4	KQ2W13-35S	17.46				58	63			
1/2	3/8	KQ2W13-36S	17.46	21.7	17	28	60	64.5	22	9.6	78
	1/2	KQ2W13-37S	22.23				66.5	69			

\* Reference dimensions after NPT thread installation.  
Note1)  $\phi D_1$ : max. diameter



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

# Series KQ2

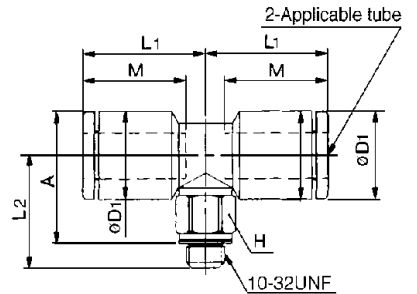
## Male branch tee: KQ2T

<10-32UNF>



Tube O.D. (inch)	Thread UNF NPT	Part No.	H (Hex.)	$\phi D_1^{(1)}$	$\phi D_2$	L1	L2	A*	M	Min. hole dia.	Weight (g)		
1/8	10-32UNF	KQ2T01-32	7	8.4	—	15.3	13.2	14.4	12.7	2.5	3.2		
	1/16	KQ2T01-33S	11.11	9.6	10	17.5	21.5	22.5*	15.5		10		
	1/8	KQ2T01-34S	14.29								20		
	1/4	KQ2T01-35S	14.29								25.5	24.5*	20
10-32UNF	KQ2T03-32	7	9.3							—	15.6	13.7	15.4
5/32	1/16	KQ2T03-33S	11.11	10.4	10	18	22	23*	16	3	10		
	1/8	KQ2T03-34S	14.29								11		
	1/4	KQ2T03-35S	14.29								26	25*	20
	10-32UNF	KQ2T05-34S	11.11								11.4	10	19.5
1/4	KQ2T05-35S	14.29	26.5	26*	21								
1/4	10-32UNF	KQ2T07-32	7	12	—	16.1	15.1	18.1	13.6	2.5	4.4		
	1/8	KQ2T07-34S	11.11	13.2	10	20.5	23.5	26*	17	4.6	11		
	1/4	KQ2T07-35S	14.29								27.5	28*	21
	3/8	KQ2T07-36S	17.46								29.5	30*	34
10-32UNF	KQ2T09-34S	12.7	15.2								12	23	24.5
1/4	KQ2T09-35S	14.29		28.5	30*	23							
5/16	3/8	KQ2T09-36S	17.46	17.9	17	25.5	30.5	31.5*	21	7	35		
	1/8	KQ2T11-34S	11.11								26.5	31.5*	31
	1/4	KQ2T11-35S	14.29								29.5	32.5*	29
	3/8	KQ2T11-36S	17.46								31.5	34.5*	38
3/8	1/2	KQ2T11-37S	22.23	21.7	17	28	35.5	36.5*	22	9.6	64		
	1/4	KQ2T13-35S	17.46								31.5	36.5*	34
	3/8	KQ2T13-36S	17.46								33.5	38.5*	43
	1/2	KQ2T13-37S	22.23								37.5	40*	69

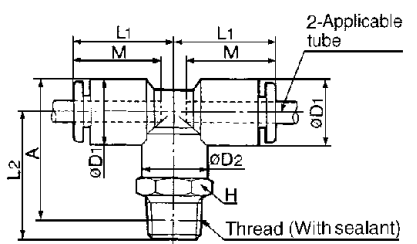
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<R(PT)>



<R(PT)>



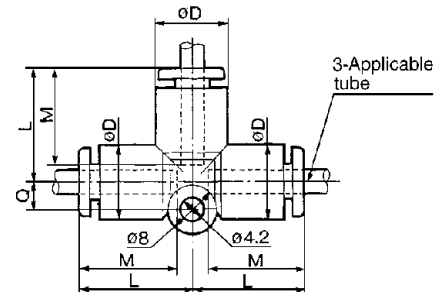
\* Reference dimensions after NPT thread installation.  
Note1)  $\phi D_1$ : max. diameter

## Union tee: KQ2T



Tube O.D. (inch)	Part No.	$\phi D^{(1)}$	L	Q	M	Min. hole dia.	Weight (g)
1/8	KQ2T01-00	9.6	17.5	4.3	15.5	2.5	5
5/32	KQ2T03-00	10.4	18	4.5	16	3	4
3/16	KQ2T05-00	11.4	19.5	4.8	16.5	3.5	7
1/4	KQ2T07-00	13.2	20.5	5.3	17	4.6	8
5/16	KQ2T09-00	15.2	23	6	18.5	6	11
3/8	KQ2T11-00	17.9	26	6.6	21	7	18
1/2	KQ2T13-00	21.7	29	7.8	22	9.6	26

Note1)  $\phi D_1$ : max. diameter

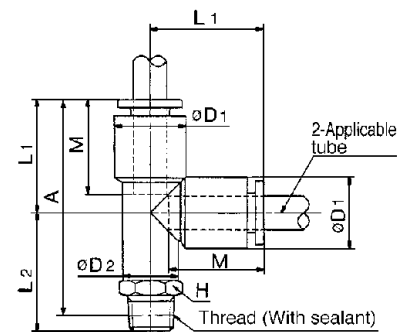


## Male run tee: KQ2Y



Tube O.D. (inch)	Thread NPT	Part No.	H (Hex.)	$\phi D_1^{(1)}$	$\phi D_2$	L1	L2	A*	M	Min. hole dia.	Weight (g)		
1/8	1/16	KQ2Y01-33S	11.11	9.6	10	17.5	21.5	35	15.5	2.5	10		
	1/8	KQ2Y01-34S	14.29								20		
	1/4	KQ2Y01-35S	14.29								25.5	37	20
5/32	1/16	KQ2Y03-33S	11.11	10.4	10	18	22	36	16	3	10		
	1/8	KQ2Y03-34S	14.29								11		
	1/4	KQ2Y03-35S	14.29								26	38	20
3/16	1/8	KQ2Y05-34S	11.11	11.4	10	19.5	22.5	38	16.5	3.5	12		
	1/4	KQ2Y05-35S	14.29								26.5	40	21
	10-32UNF	KQ2Y07-34S	11.11								13.2	10	20.5
1/4	KQ2Y07-35S	14.29	29.5	44	21								
3/8	KQ2Y07-36S	17.46	29.5	44	34								
5/16	1/8	KQ2Y09-34S	12.7	15.2	12	23.5	24.5	40	18.5	6	15		
	1/4	KQ2Y09-35S	14.29								28.5	46	23
	3/8	KQ2Y09-36S	17.46								30.5	48	35
3/8	1/4	KQ2Y11-35S	17.46	17.9	17	25.5	29.5	49	21	7	29		
	3/8	KQ2Y11-36S	17.46								31.5	51	38
	1/2	KQ2Y11-37S	22.23								35.5	53	64
1/2	1/4	KQ2Y13-35S	17.46	21.7	17	28	31.5	53.5	22	9.6	9		
	3/8	KQ2Y13-36S	17.46								33.5	55.5	43
	1/2	KQ2Y13-37S	22.23								37.5	57	69

\* Reference dimensions after NPT thread installation.  
Note1)  $\phi D_1$ : max. diameter

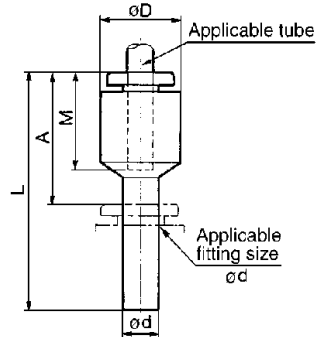


# Inch-size One-touch Fittings Series KQ2

## Plug-in reducer: KQ2R



Tube O.D. (inch)	Fitting size $\phi d$ (inch)	Part No.	$\phi D^{(1)}$	L	A	M	Min. hole dia.	Weight (g)
1/8	5/32	KQ2R01-03	9.6	34.5	18.5	15.5	2.5	2
	3/16	KQ2R01-05	9.2	34	17.5			7
	1/4	KQ2R01-07			17			9
5/32	3/16	KQ2R03-05	10	34	17.5	16	3	8
	1/4	KQ2R03-07	10.4	34.5	17			9
3/16	1/4	KQ2R05-07	11.4	34.5	18.5	16.5	3.5	4
	5/16	KQ2R05-09	10.7	36.5	18			14
1/4	5/16	KQ2R07-09	13.2	37	18.5	17	4.6	17
	3/8	KQ2R07-11		40	19.5			19
5/16	3/8	KQ2R09-11	14	40	19	18.5	6	24
	1/2	KQ2R09-13		41				32
3/8	1/2	KQ2R11-13	17.9	44	22	21	7	32



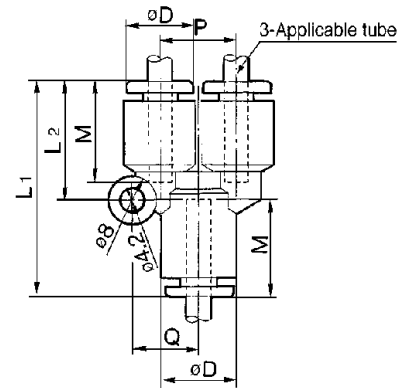
## Union "Y": KQ2U



Tube O.D. (inch)	Part No.	$\phi D^{(1)}$	L1	L2	P	Q	M	Min. hole dia.	Weight (g)
1/8	KQ2U01-00	9.6	33	17.5	9.6	9	15.5	2.5	6
5/32	KQ2U03-00	10.4	34	18	10.4	9.7	16	3	7
3/16	KQ2U05-00	11.4	36.5	20.5	11.4	10.6	16.5	3.5	9
1/4	KQ2U07-00	13.2	38	21.5	13.2	12	17	4.6	9
5/16	KQ2U09-00	15.2	42.5	24.5	15.2	13.7	18.5	6	11
3/8	KQ2U11-00	17.9	48	27.5	17.9	15.6	21	7	16



Note1)  $\phi D$ : max. diameter



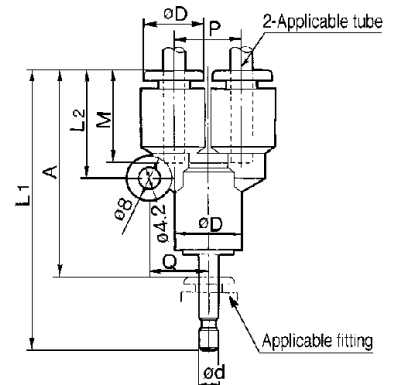
## Plug-in "Y": KQ2U



Tube O.D. (inch)	Fitting size $\phi d$ (inch)	Part No.	$\phi D^{(1)}$	L1	L2	P	Q	A	M	Min. hole dia.	Weight (g)
1/8	1/8	KQ2U01-99	9.6	50	17.5	9.6	9	35	15.5	2	10
5/32	5/32	KQ2U03-99	10.4	51.5	18	10.4	9.7	35.5	16	2.5	12
3/16	3/16	KQ2U05-99	11.4	56	20.5	11.4	10.6	39.5	16.5	3.5	17
1/4	1/4	KQ2U07-99	13.2	56.5	21.5	13.2	12	39.5	17	4.6	19
5/16	5/16	KQ2U09-99	15.2	64.5	24.5	15.2	13.7	46	18.5	6	22



Note1)  $\phi D$ : max. diameter



## Branch "Y": KQ2U

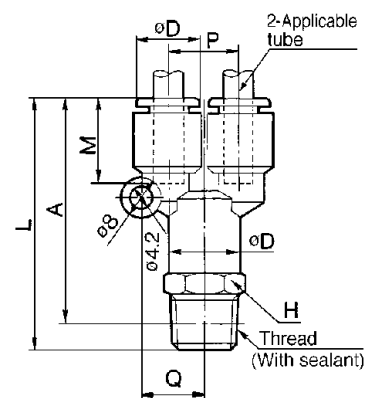


Tube O.D. (inch)	Thread NPT	Part No.	H (Hex.)	$\phi D^{(1)}$	L	P	Q	A*	M	Min. hole dia.	Weight (g)
1/8	1/8	KQ2U01-34S	12.7	9.6	40.5	9.6	9	36.5	15.5	2.5	14
	1/4	KQ2U01-35S	14.29		44.5			38.5			
5/32	1/8	KQ2U03-34S	12.7	10.4	42	10.4	9.7	38	16	3	16
	1/4	KQ2U03-35S	14.29		46			40			
3/16	1/8	KQ2U05-34S	12.7	11.4	44	11.4	10.6	40	16.5	3.5	18
	1/4	KQ2U05-35S	14.9		48.5			42.5			
1/4	1/8	KQ2U07-34S	14.29	13.2	46.5	13.2	12	42.5	17	4.6	20
	1/4	KQ2U07-35S			49.5			43.5			
	3/8	KQ2U07-36S			17.46			51.5			
5/16	1/8	KQ2U09-34S	17.46	15.2	52.5	15.2	13.7	48.5	18.5	6	21
	1/4	KQ2U09-35S			55.5			49.5			22
	3/8	KQ2U09-36S			56.5			50			35
3/8	1/4	KQ2U11-35S	19.05	17.9	60	17.9	15.6	54	21	7	42
	3/8	KQ2U11-36S			61			54.5			43
	1/2	KQ2U11-37S			22.23			64.5			56.5
1/2	1/4	KQ2U13-35S	22.23	21.7	64.5	21.7	18.8	58.5	22	9.6	31
	3/8	KQ2U13-36S			65.5			59			41
	1/2	KQ2U13-37S			68.5			60.5			68

\* Reference dimensions after NPT thread installation.



Note1)  $\phi D$ : max. diameter



K□

M□

H□

D□

MS

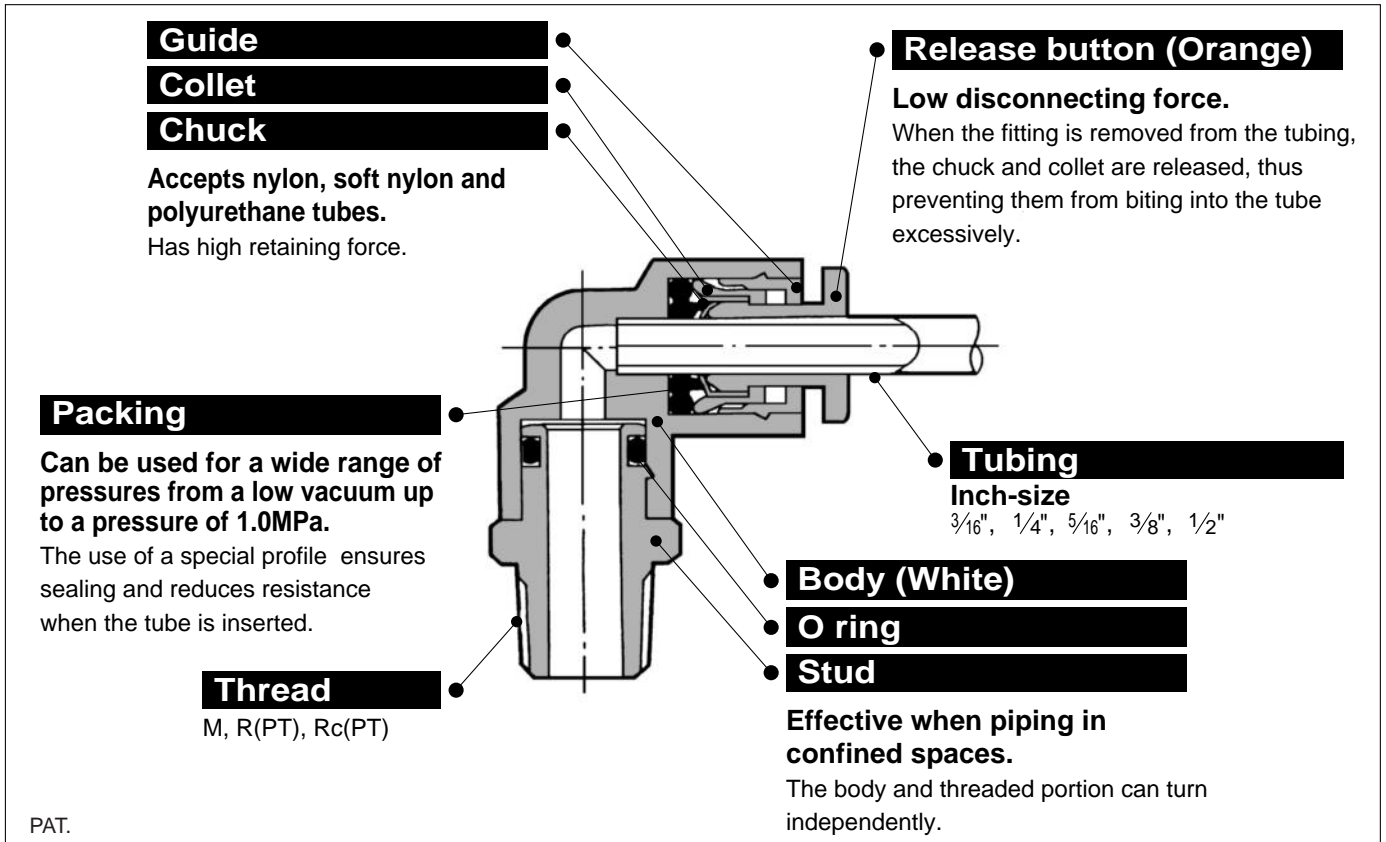
T□



# Inch-size One-touch Fittings

## Series KQ2

Applicable Tubing — Inch-size Thread — M, R(PT), Rc(PT)



### Applicable Tubing

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

### Color

Series	Body	Release button
KQ2	White	Orange

### Specifications

Fluid	Air, Water <sup>(1)</sup>	
Max. operating pressure	1.0MPa	
Proof pressure	3.0MPa	
Ambient and fluid temperature	-5 to 60°C (Water: 5 to 40°C) (No freezing)	
Thread	Thread portion	JIS B0203 (Taper pipe thread)
	Nut	JIS B0211, Class2 (Metric fine thread)
Sealant (Thread portion)	With sealant	

















Note1) Applicable for general industry water. Consult SMC if using for other kind of fluid.  
Surge pressure must be under the max. operating pressure.

### Component Materials

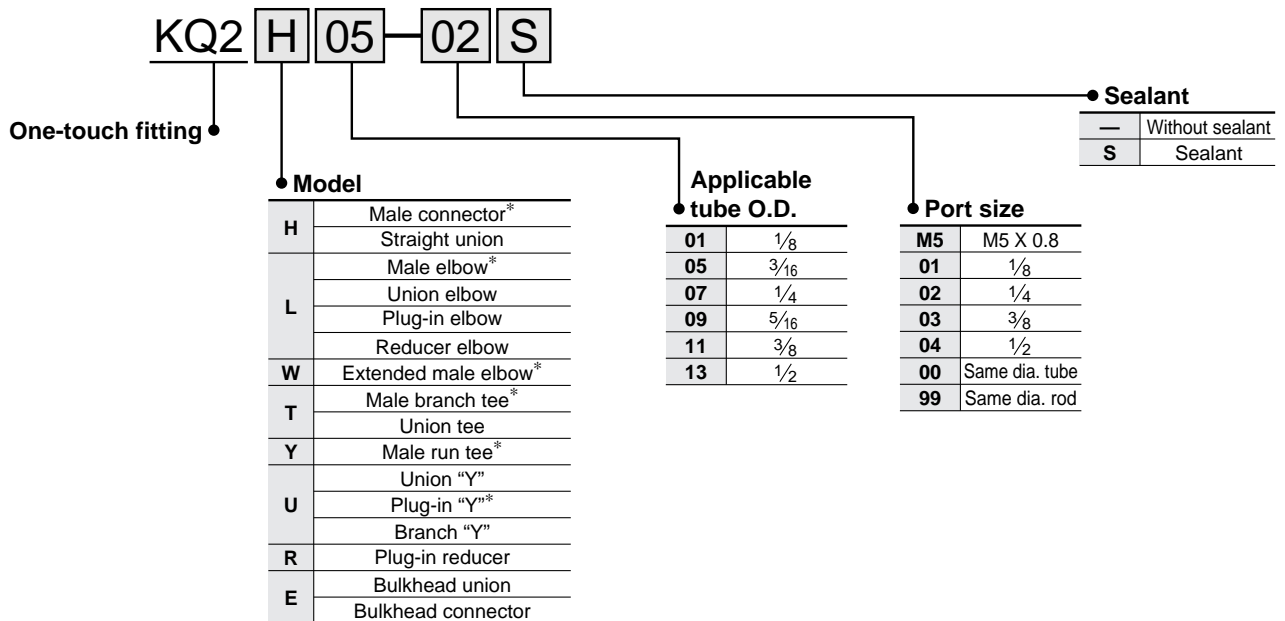
Body	C3604BD, PBT, PP
Stud	C3604BD (Thread portion)
Chuck	Stainless Steel (SUS304)
Guide	SUS304, C3604BD, POM
Collet	POM
Release button	POM
Packing, O ring	NBR
Gasket	SUS304, NBR

**K**   
**M**   
**H**   
**D**   
**MS**   
**T**

# Series KQ2

Model	
<b>Male connector</b> <b>KQ2H</b> P.2.2-18 	Used to pipe in the same direction from female threaded portion. Most common style.
<b>Extended male elbow</b> <b>KQ2W</b> P.2.2-19 	For when the elbow extends over a standard elbow for easier of connection/disconnection of tubing.
<b>Plug-in "Y"</b> <b>KQ2U</b> P.2.2-21 	Used to branch tubing in the same direction from One-touch fittings.
<b>Straight union</b> <b>KQ2H</b> P.2.2-18 	Used to connect tubes in the same direction.
<b>Male branch tee</b> <b>KQ2T</b> P.2.2-19 	Used to branch line from female thread in both 90° directions.
<b>Branch "Y"</b> <b>KQ2U</b> P.2.2-21 	Used to branch line in the same direction from female thread.
<b>Male elbow</b> <b>KQ2L</b> P.2.2-18 	Used to pipe in right angles to female threaded portion. Most common style.
<b>Union tee</b> <b>KQ2T</b> P.2.2-20 	Used to connect tubes in both 90° directions.
<b>Bulkhead union</b> <b>KQ2E</b> P.2.2-21 	Used for junction connection of two tubes for installation of a panel.
<b>Union elbow</b> <b>KQ2L</b> P.2.2-18 	Used to connect tubes at right angles.
<b>Male run tee</b> <b>KQ2Y</b> P.2.2-20 	Used for a branch line in the same direction from female thread and in 90° directions.
<b>Bulkhead connector</b> <b>KQ2E</b> P.2.2-21 	Used for transit connection of a tube and a male screw for installation of a panel.
<b>Plug-in elbow</b> <b>KQ2L</b> P.2.2-19 	Used to change by 90° in a tube fetching direction from One-touch fittings.
<b>Plug-in reducer</b> <b>KQ2R</b> P.2.2-20 	Used to change size of One-touch fittings.
<b>Reducer elbow</b> <b>KQ2L</b> P.2.2-19 	Used to change by 90° in tube fetching direction from One-touch fittings and to size down.
<b>Union "Y"</b> <b>KQ2U</b> P.2.2-20 	Used to connect tubes in the same direction.

## How to Order



With \*mark: With sealant is available.

# Inch-size One-touch Fittings Series KQ2

## Male connector: KQ2H

KQ2H01-M5  
KQ2H07-M5



<KQ2H05-M5>

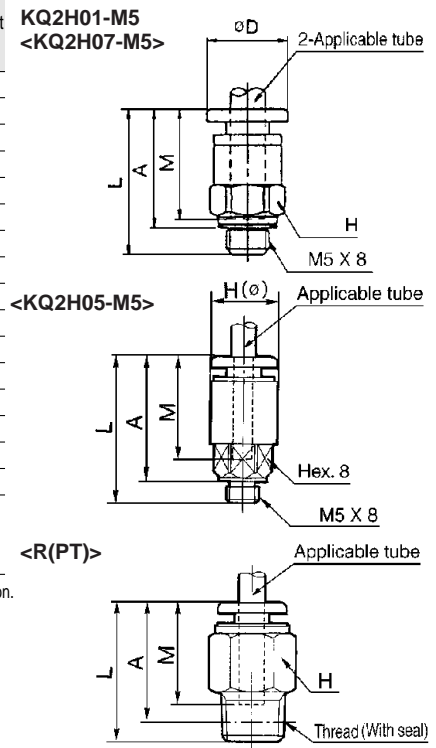


<R(PT)>



Tube O.D. (inch)	Thread M R(PT)	Part No.	H (Hex.)	$\phi D^{(1)}$	L	A*	M	Min. hole dia.	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	$\phi 10.7$	—	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	—	—	22.5	18.5		17	10
	1/4	KQ2H07-02S	14	—	23	17			15
5/16	1/8	KQ2H09-01S	14	—	28	24	18.5	6	15
	1/4	KQ2H09-02S	17	—	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	—	—	34.5	28.5	22	9	44
	3/8	KQ2H13-03S	—	—	33.5	27			44
	1/2	KQ2H13-04S	—	—	30	22			44

\* Reference dimensions after R(PT) thread installation.  
Note1)  $\phi D$ : max. diameter

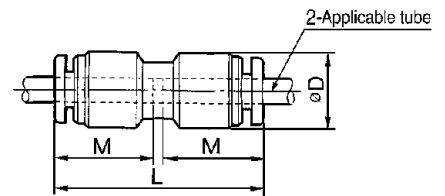


## Straight union: KQ2H



Tube O.D. (inch)	Part No.	$\phi D^{(1)}$	L	M	Min. hole dia.	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

Note1)  $\phi D$ : max. diameter

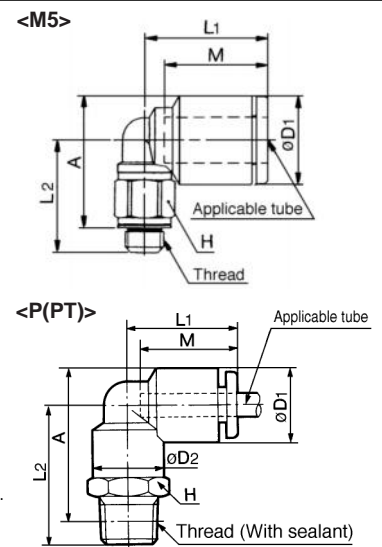


## Male elbow: KQ2L



Tube O.D. (inch)	Thread M R(PT)	Part No.	H (Hex.)	$\phi D^{(1)}$	$\phi D_2$	L <sub>1</sub>	L <sub>2</sub>	A*	M	Min. hole dia.	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			
	1/4	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	27.5	28	17	4.6	20			
	1/4	KQ2L07-02S	14									29.5	29.5	32
3/8	KQ2L07-03S	17	29.5									29.5	32	
5/16	1/8	KQ2L09-01S	12	15.2	12	23.5	24.5	28	18.5	6	12			
	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	17									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	17									33.5	38.5	36
	1/2	KQ2L13-04S	22									37.5	40	62

\* Reference dimensions after R(PT) thread installation.  
Note1)  $\phi D$ : max. diameter

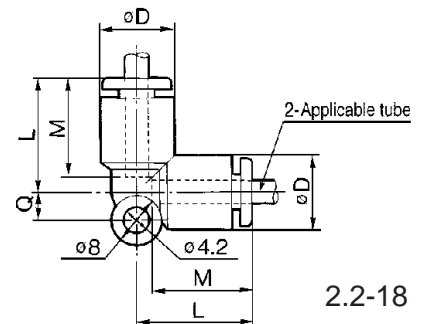


## Union elbow: KQ2L



Tube O.D. (inch)	Part No.	$\phi D^{(1)}$	L	Q	M	Min. hole dia.	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

Note1)  $\phi D$ : max. diameter



K□

M□

H□

D□

MS

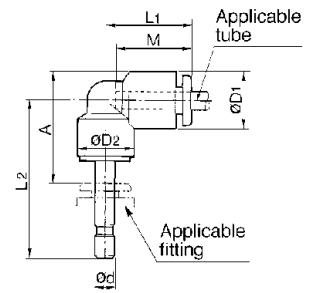
T□

# Series KQ2

## Plug-in elbow: KQ2L



Tube O.D. (inch)	Fitting size $\phi d$ (inch)	Part No.	$\phi D_1^{(1)}$	$\phi D_2$	L1	L2	A	M	Min. hole dia.	Weight (g)
3/16	3/16	<b>KQ2L05-99</b>	11.4	10	19.5	34	23.5	16.5	3.5	7
1/4	1/4	<b>KQ2L07-99</b>	13.2	10	20	27.5	17.5	17	4.6	8
5/16	5/16	<b>KQ2L09-99</b>	15.2	12	22.5	31.5	21	18.5	6	6
3/8	3/8	<b>KQ2L11-99</b>	17.9	13.6	25	35	23	21	7	19
1/2	1/2	<b>KQ2L13-99</b>	21.7	17	28	44.5	34	22	9.6	27

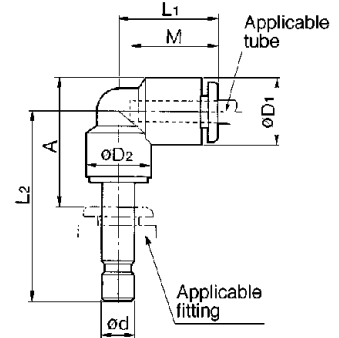


Note1)  $\phi D_1$ : max. diameter

## Reducer elbow: KQ2L



Tube O.D. (inch)	Fitting size $\phi d$ (inch)	Part No.	$\phi D_1^{(1)}$	$\phi D_2$	L1	L2	A	M	Min. hole dia.	Weight (g)
3/16	1/4	<b>KQ2L05-07</b>	11.4	10	19.5	34.5	23.5	16.5	3.5	8
	5/16	<b>KQ2L05-09</b>				35.5	23			11
1/4	5/16	<b>KQ2L07-09</b>	13.2	10	20.5	36.5	24.5	17	4.6	12
	3/8	<b>KQ2L07-11</b>				37.5	23.5			17
5/16	3/8	<b>KQ2L09-11</b>	15.2	12	23.5	40.5	27.5	18.5	6	17
	1/2	<b>KQ2L09-13</b>				41.5	27.5			30
3/8	1/2	<b>KQ2L11-13</b>	17.9	17	25.5	43	30	21	7	25

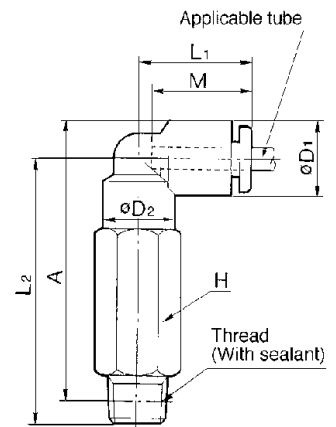


Note1)  $\phi D_1$ : max. diameter

## Extended male elbow: KQ2W



Tube O.D. (inch)	Thread R(PT)	Part No.	H (Hex.)	$\phi D_1^{(1)}$	$\phi D_2$	L1	L2	A*	M	Min. hole dia.	Weight (g)
3/16	1/8	<b>KQ2W05-01S</b>	10	11.4	10	19.5	38	40	16.5	3.5	19
	1/4	<b>KQ2W05-02S</b>	14				44	43.5			41
1/4	1/8	<b>KQ2W07-01S</b>	10	13.2	10	20.5	40.5	43	17	4.6	20
	1/4	<b>KQ2W07-02S</b>	14				46.5	47			45
	3/8	<b>KQ2W07-03S</b>	17				48.5	49			69
5/16	1/8	<b>KQ2W09-01S</b>	12	15.2	12	23.5	43.5	47	18.5	6	30
	1/4	<b>KQ2W09-02S</b>	14				49.5	51			47
	3/8	<b>KQ2W09-03S</b>	17				51.5	53			74
3/8	1/4	<b>KQ2W11-02S</b>	17	17.9	17	25.5	56	59	21	7	69
	3/8	<b>KQ2W11-03S</b>	17				58	61			76
	1/2	<b>KQ2W11-04S</b>	22				64.5	65.5			147
1/2	1/4	<b>KQ2W13-02S</b>	17	21.7	17	28	58	63	22	9	72
	3/8	<b>KQ2W13-03S</b>	17				60	64.5			78
	1/2	<b>KQ2W13-04S</b>	22				66.5	69			149



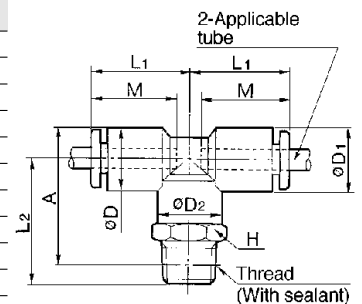
\* Reference dimensions after R(PT) thread installation.

Note1)  $\phi D_1$ : max. diameter

## Male branch tee: KQ2T



Tube O.D. (inch)	Thread R(PT)	Part No.	H (Hex.)	$\phi D_1^{(1)}$	$\phi D_2$	L1	L2	A*	M	Min. hole dia.	Weight (g)
3/16	1/8	<b>KQ2T05-01S</b>	10	11.4	10	19.5	22.5	24	16.5	3.5	12
	1/4	<b>KQ2T05-02S</b>	14				26.5	26			21
1/4	1/8	<b>KQ2T07-01S</b>	10	13.2	10	20.5	23.5	26	17	4.6	11
	1/4	<b>KQ2T07-02S</b>	14				27.5	28			21
	3/8	<b>KQ2T07-03S</b>	17				29.5	30			34
5/16	1/8	<b>KQ2T09-01S</b>	12	15.2	12	23	24.5	28	18.5	6	15
	1/4	<b>KQ2T09-02S</b>	14				28.5	30			23
	3/8	<b>KQ2T09-03S</b>	17				30.5	31.5			35
3/8	1/4	<b>KQ2T11-02S</b>	17	17.9	17	25.5	29.5	32.5	21	7	29
	3/8	<b>KQ2T11-03S</b>	17				31.5	34.5			38
	1/2	<b>KQ2T11-04S</b>	22				35.5	36.5			64
1/2	1/4	<b>KQ2T13-02S</b>	17	21.7	17	28	31.5	36.5	22	9	34
	3/8	<b>KQ2T13-03S</b>	17				33.5	38.5			43
	1/2	<b>KQ2T13-04S</b>	22				37.5	40			69



\* Reference dimensions after R(PT) thread installation.

Note1)  $\phi D_1$ : max. diameter

# Inch-size One-touch Fittings Series KQ2

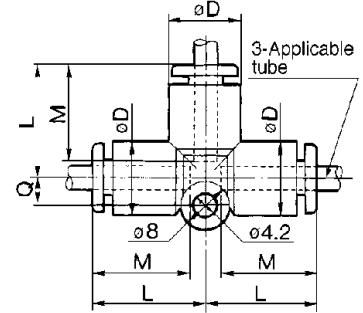
## Union tee: KQ2T



Tube O.D. (inch)	Part No.	$\phi D^{(1)}$	L	Q	M	Min. hole dia.	Weight (g)
3/16	KQ2T05-00	11.4	19.5	4.8	16.5	3.5	7
1/4	KQ2T07-00	13.2	20.5	5.3	17	4.6	8
5/16	KQ2T09-00	15.2	23	6	18.5	6	11
3/8	KQ2T11-00	17.9	26	6.6	21	7	18
1/2	KQ2T13-00	21.7	29	7.8	22	9.6	26



Note1)  $\phi D$ : max. diameter



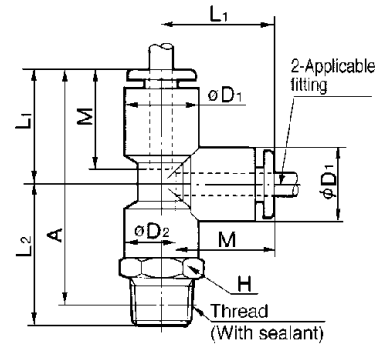
## Male run tee: KQ2Y



Tube O.D. (inch)	Thread R(PT)	Part No.	H (Hex.)	$\phi D_1^{(1)}$	$\phi D_2$	L <sub>1</sub>	L <sub>2</sub>	A*	M	Min. hole dia.	Weight (g)
3/16	1/8	KQ2Y05-01S	10	11.4	10	19.5	22.5	24	16.5	3.5	12
	1/4	KQ2Y05-02S	14								26.5
1/4	1/8	KQ2Y07-01S	10	13.2	10	20.5	27.5	28	17	4.6	11
	1/4	KQ2Y07-02S	14								29.5
5/16	3/8	KQ2Y07-03S	17	15.2	12	23.5	24.5	28	18.5	6	15
	1/4	KQ2Y09-02S	14								28.5
3/8	3/8	KQ2Y09-03S	17	17.9	17	25.5	30.5	31.5	21	7	35
	1/4	KQ2Y11-02S	17								29.5
1/2	3/8	KQ2Y11-03S	22	21.7	17	28	31.5	36.5	22	9.5	38
	1/2	KQ2Y11-04S	22								35.5
3/8	1/4	KQ2Y13-02S	17	17.9	17	25.5	29.5	32.5	21	7	29
	3/8	KQ2Y13-03S	22								31.5
1/2	1/4	KQ2Y13-04S	22	21.7	17	28	35.5	36.5	22	9.5	64
	3/8	KQ2Y13-03S	17								31.5
3/8	1/2	KQ2Y13-04S	22	21.7	17	28	37.5	40	22	9.5	69
	3/8	KQ2Y13-03S	17								33.5
1/2	1/2	KQ2Y13-04S	22	21.7	17	28	37.5	40	22	9.5	69
	3/8	KQ2Y13-03S	17								33.5

\* Reference dimensions after R(PT) thread installation.

Note1)  $\phi D_1$ : max. diameter



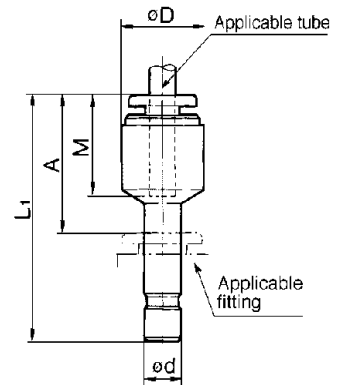
## Plug-in reducer: KQ2R



Tube O.D. (inch)	Fitting size $\phi d$ (inch)	Part No.	$\phi D^{(1)}$	L <sub>1</sub>	A	M	Min. hole dia.	Weight (g)
3/16	1/4	KQ2R05-07	11.4	34.5	18.5	16.5	3.5	12
	5/16	KQ2R05-09	10.7	36.5	18			14
1/4	5/16	KQ2R07-09	12.5	37	18.5	17	4.6	17
	3/8	KQ2R07-11		40	19.5			19
5/16	3/8	KQ2R09-11	14	40	19	18.5	6	24
	1/2	KQ2R09-13		41				32
3/8	1/2	KQ2R11-13	17.9	44	22	21	7	32



Note1)  $\phi D$ : max. diameter



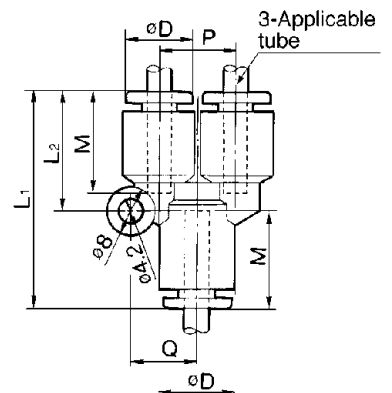
## Union "Y": KQ2U



Tube O.D. (inch)	Part No.	$\phi D^{(1)}$	L <sub>1</sub>	L <sub>2</sub>	P	Q	M	Min. hole dia.	Weight (g)
3/16	KQ2U05-00	11.4	36.5	20.5	11.4	10.6	16.5	3.5	9
1/4	KQ2U07-00	13.2	38	21.5	13.2	12	17	4.6	9
5/16	KQ2U09-00	15.2	42.5	24.5	15.2	13.7	18.5	6	11



Note1)  $\phi D$ : max. diameter



K□

M□

H□

D□

MS

T□

# Series KQ2

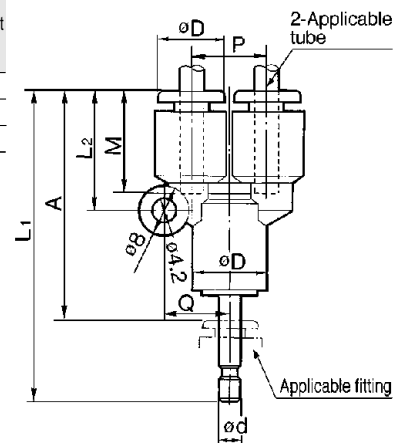
## Plug-in "Y": KQ2U



Tube O.D. (inch)	Fitting size $\phi d$ (inch)	Part No.	$\phi D^{(1)}$	L1	L2	P	Q	A	M	Min. hole dia.	Weight (g)
3/16	3/16	KQ2U05-99	11.4	56	20.5	11.4	10.6	39.5	16.5	3.5	17
1/4	1/4	KQ2U07-99	13.2	56.5	21.5	13.2	12	39.5	17	4.6	18
5/16	5/16	KQ2U09-99	15.2	64.5	24.5	15.2	13.7	46	18.5	6	21



Note1)  $\phi D1$ : max. diameter



## Branch "Y": KQ2U

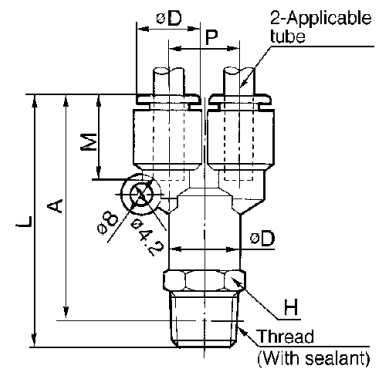


Tube O.D. (inch)	Thread R(PT)	Part No.	H (Hex.)	$\phi D^{(1)}$	L	P	A*	M	Min. hole dia.	Weight (g)	
3/16	1/8	KQ2U05-01S	12	11.4	44	11.4	40	16.5	3.5	18	
	1/4	KQ2U05-02S	14		48.5		42.5			18	
1/4	1/8	KQ2U07-01S	14	13.2	46.5	13.2	42.5	17	4.6	19	
	1/4	KQ2U07-02S			49.5					45	19
	3/8	KQ2U07-03S			51.5					48.5	21
5/16	1/8	KQ2U09-01S	17	15.2	52.5	15.2	49.5	18.5	6	22	
	1/4	KQ2U09-02S			55.5					50	35
	3/8	KQ2U09-03S			56.5					54	42
3/8	1/4	KQ2U11-02S	19	17.9	60	17.9	54.5	21	7	43	
	3/8	KQ2U11-03S			61					56.5	56
	1/2	KQ2U11-04S			64.5					58.5	31
1/2	1/4	KQ2U13-02S	22	21.7	64.5	21.7	59	22	9.5	41	
	3/8	KQ2U13-03S			65.5					60.5	68
	1/2	KQ2U13-04S			68.5						

\* Reference dimensions after R(PT) thread installation.



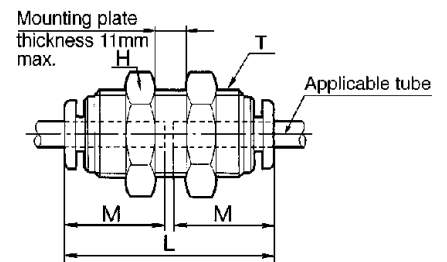
Note1)  $\phi D1$ : max. diameter



## Bulkhead union: KQ2E



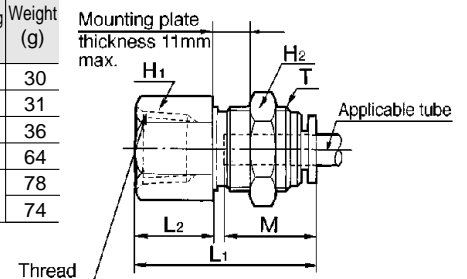
Tube O.D. (inch)	Part No.	T (M)	H (Hex.)	L	Mounting hole	M	Min. hole dia.	Weight (g)
3/16	KQ2E05-00M	M14 X 1	17	34	15	16.5	3.5	30
1/4	KQ2E07-00M	M14 X 1	17	34.5	15	17	4.6	30
5/16	KQ2E09-00M	M16 X 1	19	38	17	18.5	6	48
3/8	KQ2E11-00M	M20 X 1	24	42.5	21	21	7	62
1/2	KQ2E13-00M	M22 X 1	27	44.5	23	22	9.6	85



## Bulkhead connector: KQ2E



Tube O.D. (inch)	Fitting size Rc(PT)	Part No.	T (M)	H1 (Hex.)	H2 (Hex.)	L1	L2	M	Min. hole dia.	Mounting hole	Weight (g)
3/16	1/8	KQ2E05-01	M14 X 1	17	17	28	11.5	16.5	3.5	15	30
1/4	1/4	KQ2E07-02	M14 X 1	17	17	32.5	14.5	17	4.6	15	31
5/16	3/8	KQ2E09-03	M16 X 1	19	19	35	15	18.5	6	17	36
3/8	3/8	KQ2E11-03	M20 X 1	22	24	35	14.5	21	7	21	64
1/2	3/8	KQ2E13-03	M22 X 1	24	27	37	14.5	22	9.6	23	78
	1/2	KQ2E13-04	M22 X 1			41.5	18.5				74





SERIES KQ2 ONE TOUCH FITTINGS



### FITTINGS WITH UNI-THREAD

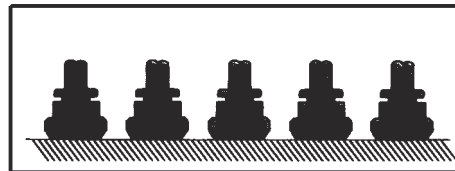
SERIES KQ: BLACK BODY FITTINGS  
SERIES KQ2: WHITE BODY FITTINGS

- ✓ Wide Range of Pressures low vacuum to 0.1MPa
- ✓ Wide Range of Applicable Tube Systems (4mm to 16mm)
- ✓ Minimized Resistance to Air Flow
- ✓ Easy and quick installation of tube
- ✓ A unique thread concept allows for compatibility with parallel and taper female threads. Uni-thread fits all female thread types\* (Rc, Rp, G, NPT, NPTF, BSP, BSPT)
- ✓ No Thread Sealant required
- ✓ Space-Saving
- ✓ Uniform Mounting Height improves appearance
- ✓ Cuts assembly time by over 60%

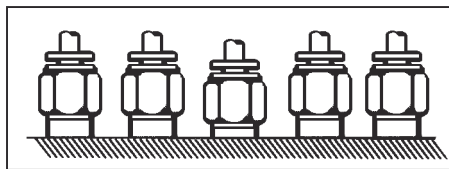
SERIES KQ: BLACK BODY FITTINGS  
AVAILABLE IN CANADA  
SERIES KQ2: WHITE BODY FITTINGS  
AVAILABLE IN THE USA

- ✓ Constant mounting height saves space

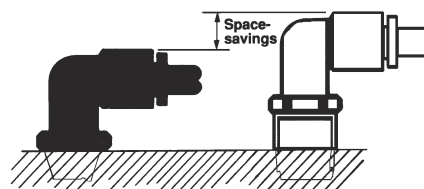
Lower height of screwed-in fittings save space and improves appearance



Uni-Threads

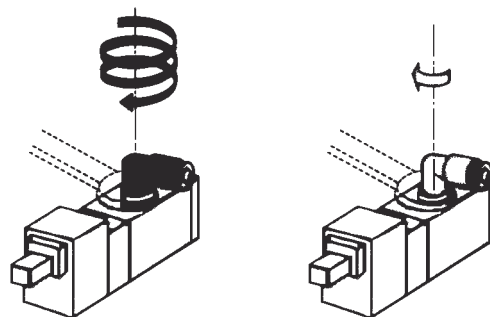


Conventional Threads



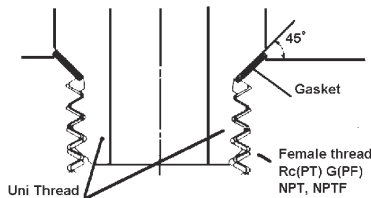
- ✓ Screw-In Time is reduced to 1/3

Existing Tapered Thread Series: 2 to 3 turns with a wrench after manual tightening  
Uni-Thread Series: 1/4 to 1/2 turn with a wrench after manual tightening



Thread Type	Manual Tightening Time + Tool Tightening Time	Total	Ratio
Uni-Thread	6 sec + 4 sec	10 sec	1/3
Conventional Thread	4 sec + 26 sec	30 sec	1

#### UNITHREAD CONSTRUCTION



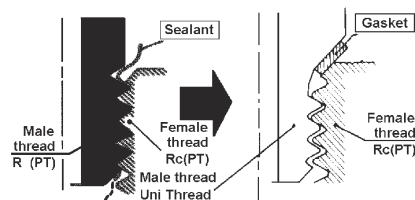
#### UNI THREAD RIDGE SHAPE

A new ridge shape has been created as a Uni-Thread for common application to Rc(PT), G(PF) NPT, and NPTF female threads with different thread diameters, pitches, tapered angles, ridge shapes, etc..

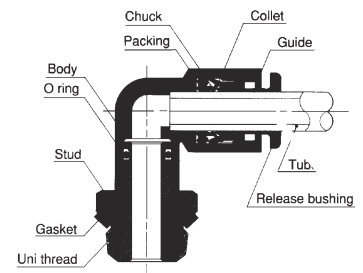
#### GASKET CONSTRUCTION

A gasket made of stainless sheet covered with laminated NBR on both sides is seated on the chamfer of a female thread to materialize a perfect sealing construction irrespective of the difference in thread diameters due to the difference in the types of female threads, variation in tolerance, difference in the size of chamfer.

(It is applicable to any female thread with ordinary chamfer.)



#### PARTS DESCRIPTION



#### TECHNICAL SPECIFICATIONS

Fluid	Air
Max Operating Pressure	0.1MPa / 145PSI
Operating Vacuum Pressure	0.001MPa (Absolute) 0.2PSI
Applicable Tube Material	Nylon, Soft Nylon, Polyurethane
Proof Pressure	3MPa / 435PSI
Ambient Fluid Temperature	0 - 60°C / 32 ~ 140°F

SEE INSIDE FRONT COVER FOR  
DETAILS OF YOUR LOCAL SALES OFFICE

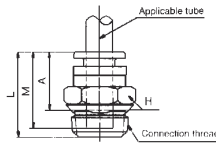


FOR FURTHER TECHNICAL  
DETAILS ON THIS  
PRODUCT, REQUEST  
CATALOG REFERENCE  
E505 & N500

**PRODUCT  
SELECTOR**

**MALE CONNECTOR : KQH (KQ2H)**

Use to pipe in the same direction from female threaded portion. Most general type.



SERIES KQ: BLACK BODY FITTINGS  
AVAILABLE IN CANADA  
SERIES KQ2: WHITE BODY FITTINGS  
AVAILABLE IN THE USA

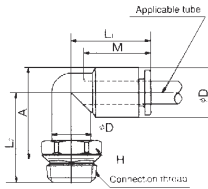
Applicable Tube OD (mm)	Connection Thread	Model	H (width Across Flats)	L	A	M	Effective Orifice (mm <sup>2</sup> ) Nylon
4	1/8	KQH04-U01	10	18.5	14.5	16	5.6
4	1/8	KQH04-U02	14	18	12	16	5.6
6	1/8	KQH06-U01	12	19.5	15.5	17	13.1
6	1/8	KQH06-U02	14	19.5	13	17	13.1
6	1/8	KQH06-U03	17	18.5	12.5	17	13.1
8	1/8	KQH08-U01	14	25	21	18.5	26.1
8	1/8	KQH08-U02	14	21.5	15.5	18.5	26.1
8	1/8	KQH08-U03	17	21	15	18.5	26.1
10	1/8	KQH10-U01	17	28	23	21	41.5
10	1/8	KQH10-U02	17	28	22	21	41.5
10	1/8	KQH10-U03	17	24	18	21	41.5
10	1/8	KQH10-U04	22	22	14	21	41.5
12	1/8	KQH12-U02	19	30.5	24.5	22	58.3
12	1/8	KQH12-U03	19	25.5	19.5	22	58.3
12	1/8	KQH12-U04	22	24.5	16.5	22	58.3
16	1/8	KQH16-U03	24	33.5	27.5	24	81
16	1/8	KQH16-U04	24	28.5	20.5	24	113

Applicable Tube OD (Inch)	Connection Thread	Model	H (width Across Flats)	L	A	M	Minimum Hole Diameter
1/8	1/8	KQH01-U01	11.11	19	15	15.5	2.5
1/8	1/4	KQH01-U02	14.29	17.5	11.5	15.5	2.5
5/32	1/8	KQH03-U01	11.11	19.5	15.5	16	3
5/32	1/4	KQH03-U02	14.29	19	13	16	3
3/16	1/8	KQH05-U01	12.7	19	15	16	3.5
3/16	1/4	KQH05-U02	14.29	17.5	11.5	16	3.5
1/4	1/8	KQH07-U01	14.29	22.5	18.5	17	4.6
1/4	1/4	KQH07-U02	14.29	20.5	14.5	17	4.6
1/4	3/8	KQH07-U03	17.46	18.5	12.5	17	4.6
5/16	1/8	KQH09-U01	14.29	25.5	21.5	18.5	6
5/16	1/4	KQH09-U02	14.29	21.5	15.5	18.5	6
5/16	3/8	KQH09-U03	17.46	21	15	18.5	6
3/8	1/4	KQH11-U02	17.46	28	22	21	7
3/8	3/8	KQH11-U03	17.46	28	22	21	7
3/8	1/2	KQH11-U04	22.23	22	14	21	7
1/2	1/4	KQH13-U02	22.23	30	24	22	33
1/2	3/8	KQH13-U03	22.23	28.5	22.5	22	30
1/2	1/2	KQH13-U04	22.23	25	17	22	28

**PRODUCT  
SELECTOR**

**MALE ELBOW : KQL (KQ2L)**

Use to pipe in right angle to female threaded portion. Most general type.



Applicable Tube OD mm	Connection Thread	Model	H	øD1	øD2	L1	L2	A	M	Effective Orifice (mm <sup>2</sup> ) Nylon
4	1/8	KQL04-U01	10	10.4	10	18	20	21.5	16	4.2
4	1/8	KQL04-U02	14	10.4	10	18	22	21.5	16	4.2
6	1/8	KQL06-U01	10	12.8	10	20	21.5	23.5	17	11.4
6	1/8	KQL06-U02	14	12.8	10	20	23	23.5	17	11.4
6	1/8	KQL06-U03	17	12.8	10	20	24	23.5	17	11.4
8	1/8	KQL08-U01	12	15.2	12	23	22.5	26	18.5	21.6
8	1/8	KQL08-U02	14	15.2	12	23	24.5	26	18.5	21.6
8	1/8	KQL08-U03	17	15.2	12	23	25.5	27	18.5	21.6
10	1/8	KQL10-U01	17	18.5	17	26.5	25	29.5	21	21.6
10	1/8	KQL10-U02	17	18.5	17	26.5	26.5	30	21	35.2
10	1/8	KQL10-U03	17	18.5	17	26.5	27	30.5	21	35.2
10	1/8	KQL10-U04	22	18.5	17	26.5	30	31.5	21	35.2
12	1/8	KQL12-U02	17	20.9	17	28.5	27	31.5	22	50.2
12	1/8	KQL12-U03	17	20.9	17	28.5	28	32.5	22	50.2
12	1/8	KQL12-U04	22	20.9	17	28.5	31	33.5	22	50.2
16	1/8	KQL16-U03	22	26.5	21	33	40.5	33	24	71
16	1/8	KQL16-U04	22	26.5	21	33	40.5	35	24	100

H: Width Across Flats

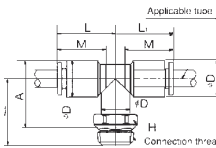
Applicable Tube OD Inch	Connection Thread	Model	H	øD1	øD2	L1	L2	A	M	Minimum Hole Diameter
1/8	1/8	KQL01-U01	11.11	9.6	10	17.5	20	21	15.5	2.5
1/8	1/4	KQL01-U02	14.29	9.6	10	17.5	22	21	15.5	2.5
5/32	1/8	KQL03-U01	11.11	10.4	10	18	20	21.5	16	3
5/32	1/4	KQL03-U02	14.29	10.4	10	18	22.5	21.5	16	3
3/16	1/8	KQL05-U01	11.11	11.4	10	19.5	20.5	22.5	16	3.5
3/16	1/4	KQL05-U02	14.29	11.4	10	19.5	20.5	22.5	16	3.5
1/4	1/8	KQL07-U01	11.11	13.2	10	20.5	21.5	24	17	4.6
1/4	1/4	KQL07-U02	14.29	13.2	10	20.5	23.5	24.5	17	4.6
1/4	3/8	KQL07-U03	17.46	13.2	10	20.5	24.5	25	17	4.6
5/16	1/8	KQL09-U01	14.29	15.2	12	23.5	22.5	26	18.5	6
5/16	1/4	KQL09-U02	14.29	15.2	12	23.5	24.5	26.5	18.5	6
5/16	3/8	KQL09-U03	17.46	15.2	12	23.5	25.5	27	18.5	6
3/8	1/4	KQL11-U02	17.46	17.9	17	25.5	26.5	29.5	21	7
3/8	3/8	KQL11-U03	17.46	17.9	17	25.5	27	30	21	7
3/8	1/2	KQL11-U04	17.46	17.9	17	25.5	30	31	21	7
1/2	1/4	KQL13-U02	17.46	21.7	17	28	28.5	33	22	9
1/2	3/8	KQL13-U03	17.46	21.7	17	28	28.5	33.5	22	9.6
1/2	1/2	KQL13-U04	22.23	21.7	17	28	32	35	22	9.6

H: Width Across Flats

**PRODUCT  
SELECTOR**

**BRANCH TEE : KQT (KQ2T)**

Use to branch line from female thread of both side 90° direction.



MORE SELECTIONS  
SEE NEXT PAGE

Applicable Tube OD mm	Connection Thread	Model	H	øD1	øD2	L1	L2	A	M	Effective Orifice (mm <sup>2</sup> ) Nylon
4	1/8	KQT04-U01	10	10.4	10	18	20	21.5	16	6.0
4	1/8	KQT04-U02	14	10.4	10	18	22	21.5	16	6.0
6	1/8	KQT06-U01	10	12.8	10	20	21.5	23.5	17	13.9
6	1/8	KQT06-U02	14	12.8	10	20	23	23.5	17	13.9
6	1/8	KQT06-U03	17	12.8	10	20	24	24.5	17	13.9
8	1/8	KQT08-U01	12	15.2	12	23	22.5	26	18.5	26.3
8	1/8	KQT08-U02	14	15.2	12	23	24.5	26	18.5	26.3
8	1/8	KQT08-U03	17	15.2	12	23	25.5	27	18.5	26.3
10	1/8	KQT10-U01	17	18.5	17	26.5	25	29.5	21	40.8
10	1/8	KQT10-U02	17	18.5	17	26.5	26.5	30	21	40.8
10	1/8	KQT10-U03	17	18.5	17	26.5	27	30.5	21	40.8
10	1/8	KQT10-U04	22	18.5	17	26.5	30	31.5	21	40.8
12	1/8	KQT12-U02	17	20.9	17	28.5	27	31.5	22	57.2
12	1/8	KQT12-U03	17	20.9	17	28.5	28	32.5	22	57.2
12	1/8	KQT12-U04	22	20.9	17	28.5	31	33.5	22	57.2
16	1/8	KQT16-U03	22	26.5	21	33	40.5	33	24	71
16	1/8	KQT16-U04	22	26.5	21	33	40.5	35	24	100

H: Width Across Flats

Applicable Tube OD Inch	Connection Thread	Model	H	øD1	øD2	L1	L2	A	M	Minimum Hole Diameter
1/8	1/8	KQT01-U01	11.11	9.6	10	17.5	20	21	15.5	2.5
1/8	1/4	KQT01-U02	14.29	9.6	10	17.5	22	21	15.5	2.5
5/32	1/8	KQT03-U01	11.11	10.4	10	18	20	21.5	16	3
5/32	1/4	KQT03-U02	14.29	10.4	10	18	22.5	21.5	16	3
3/16	1/8	KQT05-U01	11.11	11.4	10	19.5	20.5	22.5	16.5	3.5
3/16	1/4	KQT05-U02	14.29	11.4	10	19.5	20.5	22.5	16.5	3.5
1/4	1/8	KQT07-U01	11.11	13.2	10	20.5	21.5	24	17	4.6
1/4	1/4	KQT07-U02	14.29	13.2	10	20.5	23.5	24.5	17	4.6
1/4	3/8	KQT07-U03	17.46	13.2	10	20.5	24.5	25	17	4.6
5/16	1/8	KQT09-U01	12.7	15.2	12	23.5	22.5	26	18.5	6
5/16	1/4	KQT09-U02	14.29	15.2	12	23.5	24.5	26.5	18.5	6
5/16	3/8	KQT09-U03	17.46	15.2	12	23.5	25.5	27	18.5	6
3/8	1/4	KQT11-U01	17.46	17.9	17	25.5	26.5	29.5	21	7
3/8	3/8	KQT11-U02	17.46	17.9	17	25.5	27	30	21	7
3/8	1/2	KQT11-U03	17.46	17.9	17	25.5	30	31	21	7
1/2	1/4	KQT13-U02	17.46	21.7	17	28	28.5	33	22	9
1/2	3/8	KQT13-U03	17.46	21.7	17	28	28.5	33.5	22	9.6
1/2	1/2	KQT13-U04	22.23	21.7	17	28	32	35	22	9.6

H: Width Across Flats

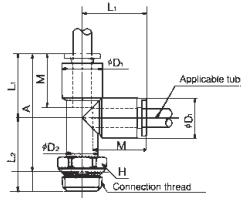


FOR FURTHER TECHNICAL  
DETAILS ON THIS  
PRODUCT, REQUEST  
CATALOG REFERENCE  
E505 & N500

### PRODUCT SELECTOR

#### MALE RUN TEE : KQY (KQ2Y)

Use to branch line in the same direction from female thread and in 90° direction.



SERIES KQ: BLACK BODY FITTINGS  
AVAILABLE IN CANADA  
SERIES KQ2: WHITE BODY FITTINGS  
AVAILABLE IN THE USA

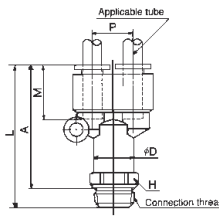
Applicable Tube OD mm	Connection Thread Uni thread	Model	H (Width Across Flats)	øD1	øD2	L1	L2	A	M	Effective Orifice (mm <sup>2</sup> ) Nylon
4	1/8	KQY04-U01	10	10.4	10	18	20	34	16	6.4
4	1/8	KQY04-U02	14	10.4	10	18	22	34.5	16	6.4
6	1/8	KQY06-U01	10	12.8	10	20	21.5	37.5	17	13.4
6	1/8	KQY06-U02	14	12.8	10	20	23	37	17	13.4
6	1/8	KQY06-U03	17	12.8	10	20	24	38	17	13.4
8	1/8	KQY08-U01	12	15.2	12	23	22.5	41.5	18.5	25.6
8	1/8	KQY08-U02	14	15.2	12	23	24.5	41.5	18.5	25.6
8	1/8	KQY08-U03	17	15.2	12	23	25.5	42.5	18.5	25.6
10	1/8	KQY10-U01	17	18.5	17	26.5	25	46.5	21	40
10	1/8	KQY10-U02	17	18.5	17	26.5	26.5	47.5	21	40
10	1/8	KQY10-U03	17	18.5	17	26.5	27	48	21	40
10	1/8	KQY10-U04	22	18.5	17	26.5	30	49	21	40
12	1/8	KQY12-U02	17	20.9	17	28.5	27	49.5	22	57.4
12	1/8	KQY12-U03	17	20.9	17	28.5	28	50.5	22	57.4
12	1/8	KQY12-U04	22	20.9	17	28.5	31	51.5	22	57.4
16	1/8	KQY16-U03	22	26.5	21	33	40.5	66	24	81
16	1/8	KQY16-U04	22	26.5	21	33	40.5	63	24	113

Applicable Tube OD Inch	Connection Thread Uni thread	Model	H (Width Across Flats)	øD1	øD2	L1	L2	A	M	Minimum Hole Diameter
1/8	1/8	KQY01-U01	11.11	9.6	10	17.5	20	33.5	15.5	2.5
1/8	1/4	KQY01-U02	14.29	9.6	10	17.5	22	33.5	15.5	2.5
5/32	1/8	KQY03-U01	11.11	10.4	10	18	20	34	16	3
5/32	1/4	KQY03-U02	14.29	10.4	10	18	22.5	34.5	16	3
3/16	1/8	KQY05-U01	11.11	11.4	10	19.5	20.5	36	16.5	3.5
3/16	1/4	KQY05-U02	14.29	11.4	10	19.5	23	36.5	16.5	3.5
1/4	1/8	KQY07-U01	11.11	13.2	10	20.5	21.5	38	17	4.6
1/4	1/4	KQY07-U02	14.29	13.2	10	20.5	23.5	37.5	17	4.6
1/4	3/8	KQY07-U03	17.46	13.2	10	20.5	24.5	39	17	4.6
5/16	1/8	KQY09-U01	12.7	15.2	12	23.5	22.5	42	18.5	6
5/16	1/4	KQY09-U02	14.29	15.2	12	23.5	24.5	42	18.5	6
5/16	3/8	KQY09-U03	17.46	15.2	12	23.5	25.5	43	18.5	6
3/8	1/4	KQY11-U02	17.46	17.9	17	25.5	26.5	46	21	7
3/8	3/8	KQY11-U03	17.46	17.9	17	25.5	27	46.5	21	7
3/8	1/2	KQY11-U04	22.23	17.9	17	25.5	30	47.5	21	7
1/2	1/4	KQY13-U02	17.46	21.7	17	28	28.5	50.5	22	9
1/2	3/8	KQY13-U03	17.46	21.7	17	28	28.5	50.5	22	9
1/2	1/2	KQY13-U04	22.23	21.7	17	28	32	52	22	9

### PRODUCT SELECTOR

#### BRANCH "Y" : KQU (KQ2U)

Use to branch line in the same direction from female thread.



Applicable Tube OD mm	Connection Thread Uni Thread	Model	H (Width Across Flats)	øD	L	P	A	M	Effective Orifice (mm <sup>2</sup> ) Nylon
4	1/8	KQU04-U01	11	10.4	40	10.4	36	16	4.2
4	1/8	KQU04-U02	14	10.4	42	10.4	36	16	4.2
6	1/8	KQU06-U01	13	12.8	43.5	12.8	39.5	17	13.4
6	1/8	KQU06-U02	14	12.8	45	12.8	39	17	13.4
6	1/8	KQU06-U03	17	12.8	46	12.8	40	17	13.4
8	1/8	KQU08-U01	17	15.2	50.5	15.2	46.5	18.5	25.6
8	1/8	KQU08-U02	17	15.2	52	15.2	46	18.5	25.6
8	1/8	KQU08-U03	17	15.2	51.5	15.2	45.5	18.5	25.6
10	1/8	KQU10-U02	19	18.5	57.5	18.5	51.5	21	40
10	1/8	KQU10-U03	19	18.5	57.5	18.5	51.5	21	40
10	1/8	KQU10-U04	22	18.5	59	18.5	51	21	40
12	1/8	KQU12-U02	22	20.9	61	20.9	55	22	57.4
12	1/8	KQU12-U03	22	20.9	61	20.9	55	22	57.4
12	1/8	KQU12-U04	22	20.9	62.5	20.9	54.5	22	57.4

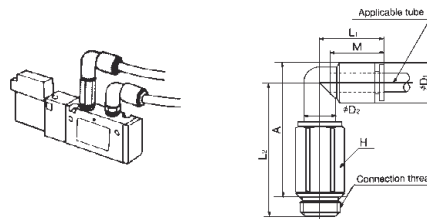
Applicable Tube OD Inch	Connection Thread Uni Thread	Model	H (Width Across Flats)	øD	L	P	A	M	Minimum Hole Diameter
1/8	1/8	KQU01-U01	12.7	9.6	38.5	9.6	34.5	15.5	2.5
1/8	1/4	KQU01-U02	14.29	9.6	40.5	9.6	34.5	15.5	2.5
5/32	1/8	KQU03-U01	12.7	10.4	40	10.4	36	16	3
5/32	1/4	KQU03-U02	14.29	10.4	42	10.4	36	16	3
3/16	1/8	KQU05-U01	12.7	11.4	42	11.4	38	16.5	3.5
3/16	1/4	KQU05-U02	14.29	11.4	44.5	11.4	39	16.5	3.5
1/4	1/8	KQU07-U01	14.29	13.2	44.5	13.2	40.5	17	4.6
1/4	1/4	KQU07-U02	14.29	13.2	46	13.2	40	17	4.6
1/4	3/8	KQU07-U03	17.46	13.2	46.5	13.2	40.5	17	4.6
5/16	1/8	KQU09-U03	17.46	15.2	50.5	15.2	46.5	18.5	6
5/16	1/4	KQU09-U04	17.46	15.2	52	15.2	46	18.5	6
5/16	3/8	KQU09-U02	17.46	15.2	51.5	15.2	45.5	18.5	6
3/8	1/4	KQU11-U02	19.05	17.9	56.5	17.9	50.5	21	7
3/8	3/8	KQU11-U03	19.05	17.9	56.5	17.9	50.5	21	7
3/8	1/2	KQU11-U04	22.23	17.9	59	17.9	51	21	7
1/2	1/4	KQU13-U02	22.23	21.7	61	21.7	55	22	9.6
1/2	3/8	KQU13-U03	22.23	21.7	61	21.7	55	22	9.6
1/2	1/2	KQU13-U04	22.23	21.7	62.7	21.7	54.7	22	9.6

### PRODUCT SELECTOR

#### EXTENDED MALE ELBOW : KQW (KQ2W)

Basically use in the same way as elbow union.

Point of difference is that it is used to prevent interference of joints for stereoping.



Applicable Tube OD mm	Connection Thread Uni Thread	Model	H (Width Across Flats)	øD1	øD2	L1	L2	A	M	Effective Orifice (mm <sup>2</sup> ) Nylon
4	1/8	KQW04-U01	10	10.4	10	18	34.5	35.5	16	4
4	1/8	KQW04-U02	14	10.4	10	18	37	38.5	16	4
6	1/8	KQW06-U01	10	12.8	10	20	38.5	41	17	10.9
6	1/8	KQW06-U02	14	12.8	10	20	40.5	41	17	10.9
6	1/8	KQW06-U03	17	12.8	10	20	41.5	42	17	10.9
8	1/8	KQW08-U01	12	15.2	12	23	43.5	47.5	18	20.5
8	1/8	KQW08-U02	14	15.2	12	23	45.5	47	18	20.5
8	1/8	KQW08-U03	17	15.2	12	23	46.5	48	18	20.5
10	1/8	KQW10-U02	17	18.5	17	26.5	52.5	56	21	33.5
10	1/8	KQW10-U03	17	18.5	17	26.5	52.5	56	21	33.5
10	1/8	KQW10-U04	22	18.5	17	26.5	54.5	56	21	33.5
12	1/8	KQW12-U02	17	20.9	17	28.5	54	58.5	22	47.7
12	1/8	KQW12-U03	17	20.9	17	28.5	54	58.5	22	47.7
12	1/8	KQW12-U04	22	20.9	17	28.5	56	58.5	22	47.7

Applicable Tube OD Inch	Connection Thread Uni Thread	Model	H (Width Across Flats)	øD1	øD2	L1	L2	A	M	Minimum Hole Diameter
1/8	1/8	KQW01-U01	11.11	9.6	10	17.5	35	35.5	15.5	2.5
1/8	1/4	KQW01-U02	14.29	9.6	10	17.5	36	35	15.5	2.5
5/32	1/8	KQW03-U01	11.11	10.4	10	18	35.5	36.5	16	3
5/32	1/4	KQW03-U02	14.29	10.4	10	18	41.5	41	16	3
3/16	1/8	KQW05-U01	11.11	11.4	10	19.5	36	37.5	16.5	3.5
3/16	1/4	KQW05-U02	14.29	11.4	10	19.5	40	40	16.5	3.5
1/4	1/8	KQW07-U01	11.11	13.2	10	20.5	39	41.5	17	4.6
1/4	1/4	KQW07-U02	14.29	13.2	10	20.5	41	41.5	17	4.6
1/4	3/8	KQW07-U03	17.46	13.2	10	20.5	42	42.5	17	4.6
5/16	1/8	KQW09-U01	12.7	15.2	12	23.5	40	43.5	18.5	6
5/16	1/4	KQW09-U02	14.29	15.2	12	23.5	45	47	18.5	6
5/16	3/8	KQW09-U03	17.46	15.2	12	23.5	45.5	47	18.5	6
3/8	1/4	KQW11-U02	17.46	17.9	17	25.5	51	54	21	7
3/8	3/8	KQW11-U03	17.46	17.9	17	25.5	51.5	54.5	21	7
3/8	1/2	KQW11-U04	22.23	17.9	17	25.5	55.5	56.5	21	7
1/2	1/4	KQW13-U02	17.46	21.7	17	28	53	58	22	9
1/2	3/8	KQW13-U03	17.46	21.7	17	28	53.5	58.5	22	9
1/2	1/2	KQW13-U04	22.23	21.7	17	28	57.5	60.5	22	9

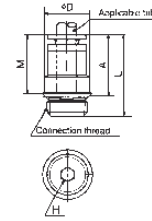
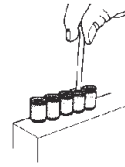
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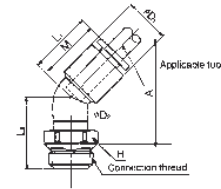
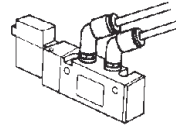
**HEXAGON SOCKET HEAD MALE CONNECTOR : KQS (KQ2S)**  
Male connector for narrow space to tighten hexagon socket head in body by hexagon wrench.



Applicable Tube OD mm	Connection Thread Uni Thread	Model	H (Width Across Flats)	$\phi D$	L	A	M	Effective Orifice (mm <sup>2</sup> )	Nylon
4	1/8	KQS04-U01	3	10	23	18	16	4.1/3.6	
6	1/8	KQS06-U01	4	11.8	24	19	17	10/9.9	
6	1/8	KQS06-U02	4	13.5	25	18.5	17	10.7/10	
8	1/8	KQS08-U01	5	14	29	22	18.5	17.2/16.2	
8	1/8	KQS08-U02	6	14	28	21.5	18.5	23.3/16.2	
8	1/8	KQS08-U03	6	17	26.5	20	18.5	23.3/16.2	
10	1/8	KQS10-U01	5	17	31.5	24.5	21	17.2/10	
10	1/8	KQS10-U02	8	17	28.5	22	21	39/26.6	
10	1/8	KQS10-U03	8	17	26.5	20	21	39/26.6	
10	1/8	KQS10-U04	8	21	27	19	21	39/26.6	
12	1/8	KQS12-U02	8	19	35	25.5	22	46/44.5	
12	1/8	KQS12-U03	9	19	28	19	22	60/44.5	
12	1/8	KQS12-U04	9	21	27	19	22	60/44.5	

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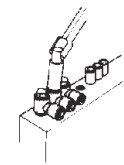
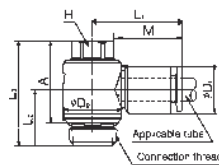
**45° MALE ELBOW : KQK (KQ2K)**  
Use to tubing toward 45° from the thread part. Intermediate type between the male connector and the male elbow.



Applicable Tube OD mm	Connection Thread Uni Thread	Model	H (Width Across Flats)	$\phi D_1$	$\phi D_2$	L1	L2	A	M	Effective Orifice (mm <sup>2</sup> )	Nylon
4	1/8	KQK04-U01	10	10.4	10	17	18.5	30	16	3.4	
4	1/8	KQK04-U02	14	10.4	10	17	20.5	30.5	16	3.4	
6	1/8	KQK06-U01	10	12.8	10	18	18.5	31	17	8.7	
6	1/8	KQK06-U02	14	12.8	10	18	20.5	31	17	8.7	
6	1/8	KQK06-U03	17	12.8	10	18	21.5	32	17	8.7	
8	1/8	KQK08-U01	12	15.2	12	20.5	20	35	18.5	19.7	
8	1/8	KQK08-U02	14	15.2	12	20.5	22	35	18.5	19.7	
8	1/8	KQK08-U03	17	15.2	12	20.5	23	36	18.5	19.7	
10	1/8	KQK10-U01	17	18.5	17	24	22	38	21	30.9	
10	1/8	KQK10-U02	17	18.5	17	24	23.5	40.5	21	30.9	
10	1/8	KQK10-U03	17	18.5	17	24	24	41	21	30.9	
10	1/8	KQK10-U04	22	18.5	17	24	27	42	21	30.9	
12	1/8	KQK12-U02	17	20.9	17	25	24	42	22	44.5	
12	1/8	KQK12-U03	17	20.9	17	25	24.5	42.5	22	44.5	
12	1/8	KQK12-U04	22	20.9	17	25	27.5	43.5	22	44.5	

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**UNIVERSAL MALE ELBOW : KQV (KQ2V)**  
Elbow union for a narrow space to clamp the hexagon head of body with box wrench.



Applicable Tube OD mm	Connection Thread Uni Thread	Model	H (Width Across Flats)	$\phi D_1$	$\phi D_2$	L1	L2	L3	A	M	Effective Orifice (mm <sup>2</sup> )	Nylon
4	1/8	KQV04-U01	8	10.4	13.4	22	13.5	25.5	21.5	16	2.9	
6	1/8	KQV06-U01	8	12.8	13.4	24	13.5	25.5	21.5	17	7.5	
6	1/8	KQV06-U02	10	12.8	15.4	23.5	15.5	28	22	17	7.5	
8	1/8	KQV08-U01	12	15.2	17.6	28.5	14.5	27.5	23.5	18.5	11.2	
8	1/8	KQV08-U02	12	15.2	17.6	28.5	16.5	29.5	23.5	18.5	11.2	
8	1/8	KQV08-U03	14	15.2	20.6	27.5	18.5	34	28	18.5	14.3	
10	1/8	KQV10-U02	14	18.5	20.6	31	18.5	34	28	21	27	
10	1/8	KQV10-U03	14	18.5	20.6	31	18.5	34	28	21	27	
12	1/8	KQV12-U03	17	20.9	25.2	34	20	36.5	30.5	22	39	
12	1/8	KQV12-U04	17	20.9	25.2	34	22.5	39.5	31.5	22	39	

SERIES KQ: BLACK BODY FITTINGS  
AVAILABLE IN CANADA  
SERIES KQ2: WHITE BODY FITTINGS  
AVAILABLE IN THE USA



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