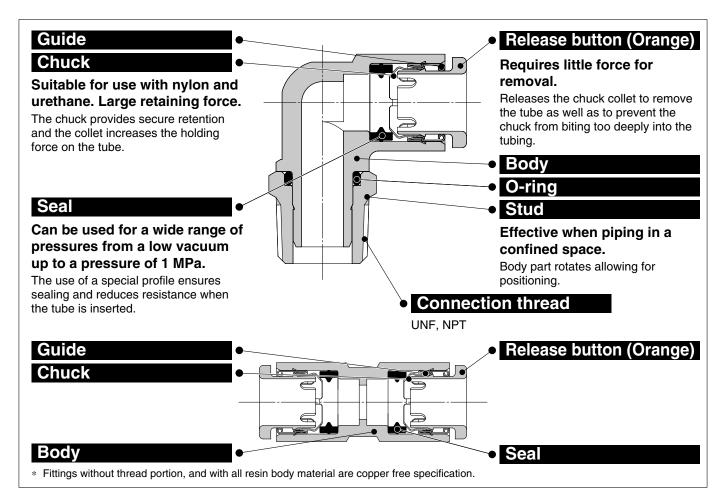
Inch Size One-touch Fittings

Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

KQ2 Series



One-touch IN/OUT connection.

Possible to use in vacuum to -100 kPa.





Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø1/8", ø5/32", ø3/16", ø1/4", ø5/16", ø3/8", ø1/2"

Specifications

•		
Fluid		Air, Water*1 *2
Operating pres	sure range*3	-100 kPa to 1 MPa
Proof pressure	e (at 23°C)	3 MPa
Ambient and fl	uid temperature	–5 to 60°C, Water: 0 to 40°C (No freezing)
Thread	Mounting section	ANSI/ASME1.20.1 (NPT thread) JIS B0208 (UNF thread)
	Nut section	JIS B0208 (UNF thread)
Seal on the thr	eads	With sealant

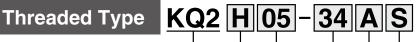
- *1 The surge pressure must be under the maximum operating pressure.
- 2 Deionized water is not recommended for use as it may affect the material used in the fittings. In addition, it is known to degrade the water quality.
- *3 Do not use the fittings with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.

Principal Parts Material

Body	C3604, PBT, PP
Stud	C3604 (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304
Release button	POM
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR



How to Order



One-touch fittings

Model 4

Symbol	Model
Н	Male connector
S	Hexagon socket head male connector
F	Female connector
L	Male elbow
K	45° male elbow
V	Universal male elbow
VS	Hexagon socket head universal male elbow
VF	Universal female elbow
LF	Female elbow
VD	Double universal male elbow
VT	Triple universal male elbow
Z	Branch universal male elbow
ZD	Double branch universal male elbow
ZT	Triple branch universal male elbow
W	Extended male elbow
Т	Male branch tee
Y	Male run tee
U	Branch "Y"
E	Bulkhead union
	Bulkhead connector
LE	Bulkhead male elbow

Male thread seal method

Symbol	Seal method
Nil	None
S	With thread sealant

Symbol		Thread material/Surface treatment
Α		Brass
N		Brass + Electroless nickel plating
Bulkhead union		Interchangeable with KJE

* □: A, N

◆Port size/Applicable tubing O.D.

Symbol		Size
Thread connection	32	10-32UNF
	33	NPT1/16
	34	NPT1/8
	35	NPT1/4
	36	NPT3/8
	37	NPT1/2
Tubing connection	00*1	Same diameter tubing

*1 Only for "Bulkhead union" and "Bulkhead male elbow".

♣Applicable tubing O.D.

Size
ø1/8"
ø5/32"
ø3/16"
ø1/4"
ø5/16"
ø3/8"
ø1/2"

Spare Parts

Use the part number below to order the gasket for sealing 10-32UNF

Gasket for 10-32UNF: M-5G2

For details on applicable tubing O.D. and port size combinations for each model, refer to the charts on the Dimensions page.

Tube - Tube Type KQ2 H 05 - 00 A

One-touch fittings

Model **♦**

Symbol	Model
н	Straight union
п	Different diameter straight
	Union elbow
L	Plug-in elbow
	Reducer elbow
R Plug-in reducer	
т	Union tee
ı	Different diameter tee
TW	Cross
	Union "Y"
U	Plug-in "Y"
	Different diameter union "Y"
X	Different diameter plug-in "Y"
U	Different diameter tee Cross Union "Y" Plug-in "Y" Different diameter union "Y"

Port size/Applicable tubing O.D.

Symbo	ol	Size
	00	Same diameter tubing
Tubing (Rod) connection Different dia. tubing (Reducer)	99	Same diameter rod
ng D	01	ø1/8"
conne tubing	03	ø5/32"
(a) (b) (c) (c) (c) (c) (d)	05	ø3/16"
8 ja 3	07	ø1/4"
ent Re	09	ø5/16"
Tubing (Rod) or Different dia. tul (Reducer)	11	ø3/8"
리듬	13	ø1/2"

♦ Applicable tubing O.D.

Tippiidabid tabilig of		
Symbol	Size	
01	ø1/8"	
03	ø5/32"	
05	ø3/16"	
07	ø1/4"	
09	ø5/16"	
11	ø3/8"	
13	ø1/2"	

Accessories		
Symbol	Name	
KQ2N	Nipple	
KQ2N	Reducer nipple	
KQ2C	Tube cap	
KQ2P	Plug	
		_

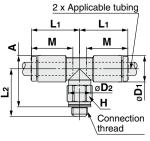
Dimensions

Male Branch Tee: KQ2T (Gasket seal)



Applicable tubing O.D. [inch]	Connection thread UNF	Model	(Width across flats)	ø D 1	ø D 2	Lı	L2	A	M	Effectiv [mi	m ²]	port	Weight [g]
ø1/8	10-32UNF	KQ2T01-32□	7	7.1	7	15.3	14.2	14.8	13.3	3.2	2.7	2.5	3.5
ø5/32	10-32UNF	KQ2T03-32□	7	8.2	7	15.4	14.7	15.8	13.3	4.5	4.5	2.5	3.8
ø1/4	10-32UNF	KQ2T07-32□	7	11.1	7	15.4	16	18.6	13.3	4.5	4.5	2.5	4.7

 $[\]square$: A (Brass), N (Brass + Electroless nickel plating)



2 x Applicable tubing

Connection thread

(With sealant)

M

Male Branch Tee: KQ2T (Sealant) -



Applicable tubing O.D.	Connection thread	Model	H (Width across	וטש	ø D 2	L1	L2	A *1		Effective area [mm²]		port	Weight [g]
[inch]	NPT		flats)							Nylon		size	
	1/16	KQ2T01-33□S	11.11	7.1	10	14.5	24.2	23.7	13.3	3.4	2.9	2.5	9.7
ø1/8	1/8	KQ2T01-34□S	11.11	7.1	10	14.5	16.6	17	13.3	3.4	2.9	2.5	6
	1/4	KQ2T01-35□S	14.29	7.1	10	14.5	21	20.2	13.3	3.4	2.9	2.5	15.6
	1/16	KQ2T03-33□S	11.11	8.2	10	14.8	23.8	23.8	13.3	6	4.1	3	10
ø5/32	1/8	KQ2T03-34□S	11.11	8.2	10	14.8	16.2	17.1	13.3	6	4.1	3	6.3
	1/4	KQ2T03-35□S	14.29	8.2	10	14.8	21.6	21.3	13.3	6	4.1	3	15.9
ø3/16	1/8	KQ2T05-34□S	11.11	9.1	10	15	16.7	18	13.3	8.4	7	3.5	6.6
93/10	1/4	KQ2T05-35□S	14.29	9.1	10	15	22.1	22.2	13.3	8.4	7	3.5	16.2
	1/16	KQ2T07-33□S	11.11	11.1	10	15.6	25.3	26.8	13.3	8.5	8.5	3.5	11
ø1/4	1/8	KQ2T07-34□S	11.11	11.1	10	15.6	17.7	20	13.3	14	12.4	4.5	7.3
Ø 1/4	1/4	KQ2T07-35□S	14.29	11.1	10	15.6	23.1	24.2	13.3	14	12.4	4.5	16.9
	3/8	KQ2T07-36□S	17.46	11.1	10	15.6	24.5	25.3	13.3	14	12.4	4.5	29.2
		KQ2T09-34□S	11.11	13.2	10	16.4	18.7	22.1	14.2	14	14	4.5	8.7
ø5/16	1/8	KQ2T09-34□QS	12.7	13.2	12	17.2	23.5	26.9	14.2	26.3	18.2	6	11.7
	1/4	KQ2T09-35□S	14.29	13.2	12	17.2	24.1	26.3	14.2	26.3	18.2	6	15.9
	3/8	KQ2T09-36□S	17.46	13.2	12	17.2	25.5	27.4	14.2	26.3	18.2	6	27.9
	1/8	KQ2T11-34□S	12.7	15.4	12	18.6	23.1	27.6	15.6	21.2	21.2	6	14.4
ø3/8	1/4	KQ2T11-35□S	17.46	15.4	17	19.3	28.5	31.8	15.6	28.8	23.8	7.5	24.1
Ø3/6	3/8	KQ2T11-36□S	17.46	15.4	17	19.3	29.1	32.1	15.6	28.8	23.8	7.5	22.2
	1/2	KQ2T11-37□S	22.23	15.4	17	19.3	33.3	34.6	15.6	28.8	23.8	7.5	48.7
	1/4	KQ2T13-35□S	17.46	19.3	17	21.5	30.4	35.7	17	57.3	50.6	9	28.1
ø1/2	3/8	KQ2T13-36□S	17.46	19.3	17	21.8	26.2	31.2	17	63.8	50.6	9.5	24.4
	1/2	KQ2T13-37□S	22.23	19.3	17	21.8	30.4	33.7	17	63.8	50.6	9.5	50.5

^{☐:} A (Brass), N (Brass + Electroless nickel plating)



Metric Size M, R, Rc

Sealant/Gasket Seal Inch Size UNF, NPT

Inch Size M, R, Rc Metric Size G

Inch Size NPT | Metric Size R, Rc

Face Seal

Inch Size Uni

Gasket Seal



^{*1} Reference dimensions after installation of NPT thread

^{*2} For details, refer to page 156.