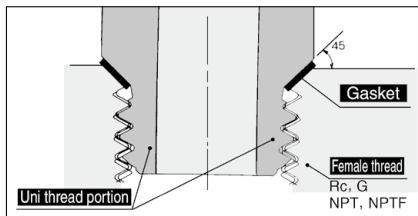
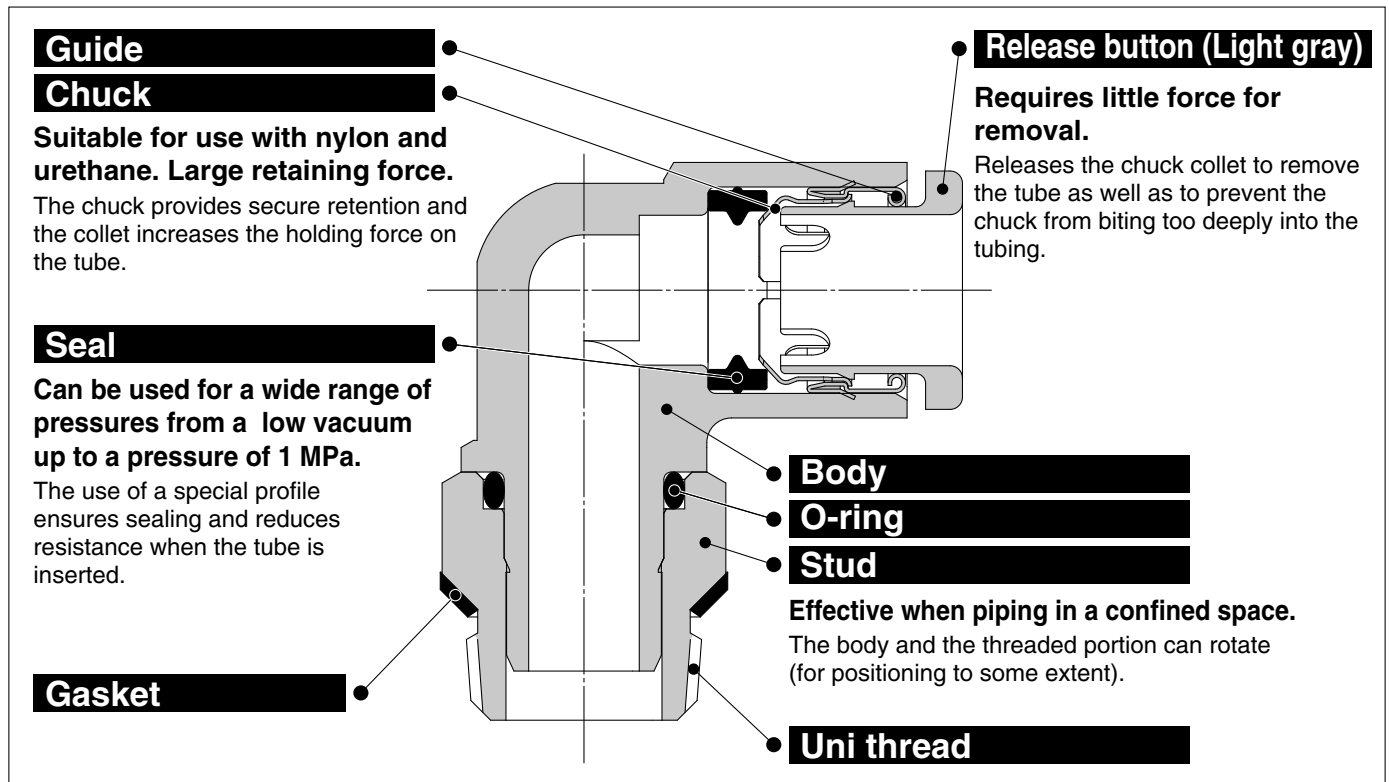


Metric Size Uni One-touch Fittings

Applicable Tubing: Metric Size, Connection Thread: Rc, G, NPT, NPTF

KQ2 Series



Uni thread ridge shape

A gasket made of a stainless sheet covered with laminated NBR on both sides is seated on the chamfer of a female thread for a perfect sealing construction irrespective of the difference in thread diameters due to the difference in the types of female threads, variation in tolerance, or difference in the size of chamfer. (It is applicable to any female thread with an ordinary chamfer.)

A ridge shape has been created as a Uni thread for common applications for Rc, G, NPT and NPTF.

Drastically cuts piping work-hours with the gasket seal method.



Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø4, ø6, ø8, ø10, ø12, ø16

Specifications

Fluid	Air, Water*1
Operating pressure range*2	-100 kPa to 1 MPa
Proof pressure (at 23°C)	3 MPa
Ambient and fluid temperature	-5 to 60°C, Water: 0 to 40°C (No freezing)

*1 The surge pressure must be under the maximum operating pressure.

*2 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
Stud	C3604 (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304
Release button	POM
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR



Made to Order
(Refer to page 207 for details.)

Metric Size Uni One-touch Fittings **KQ2 Series**

Applicable Tubing: Metric Size, Connection Thread: Rc, G, NPT, NPTF

How to Order

Threaded Type

KQ2 H 06 - U01 A

One-touch fittings

Model

Symbol	Model
H	Male connector
S	Hexagon socket head male connector
L	Male elbow
K	45° male elbow
V	Universal male elbow
T	Male branch tee
W	Extended male elbow
Y	Male run tee
U	Branch "Y"

Applicable tubing O.D.

Symbol	Size
04	ø4
06	ø6
08	ø8
10	ø10
12	ø12
16	ø16

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

Thread material/Surface treatment

Symbol	Thread material/Surface treatment
A	Brass
N	Brass + Electroless nickel plating

Port size

Symbol	Size
U01	Uni1/8
U02	Uni1/4
U03	Uni3/8
U04	Uni1/2

Spare Parts

How to Order Gasket

KQG - U01

Gasket for Uni One-touch fittings

Applicable port size

Symbol	Size
U01	Uni1/8
U02	Uni1/4
U03	Uni3/8
U04	Uni1/2

Round Type



Metric Size M, R, Rc

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Inch Size NPT

Inch Size R

Metric Size Uni

Inch Size Uni

Metric Size Uni One-touch Fittings **KQ2 Series**

Applicable Tubing: Metric Size, Connection Thread: Rc, G, NPT, NPTF

Dimensions

Male Branch Tee: KQ2T (Gasket seal)



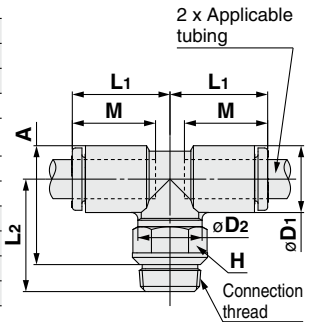
Applicable tubing O.D. [mm]	Connection thread Uni	Model	H (Width across flats)	*1 øD1	øD2	L1	L2	A*2	M	Effective area [mm²]		Min. port size	Weight [g]
										Nylon	Urethane		
ø4	1/8	KQ2T04-U01□	10	8.2	10	14.8	16.4	15.7	13.3	6	4.1	3	5.5
	1/4	KQ2T04-U02□	14	8.2	10	14.8	19.2	16.9	13.3	6	4.1	3	12.2
ø6	1/8	KQ2T06-U01□	10	10.4	10	15.5	17.5	17.9	13.3	13.9	11	4.5	6.2
	1/4	KQ2T06-U02□	14	10.4	10	15.5	20.3	19.1	13.3	13.9	11	4.5	12.9
ø8	3/8	KQ2T06-U03□	17	10.4	10	15.5	21.4	20.2	13.3	13.9	11	4.5	22.3
	1/8	KQ2T08-U01□	10	13.2	10	16.4	18.9	20.7	14.2	13.9	13.9	4.5	7.9
ø8	1/4	KQ2T08-U02□	12	13.2	12	17.2	22.7	25	14.2	26.3	18.2	6	10.3
	3/8	KQ2T08-U03□	17	13.2	12	17.2	22.8	23	14.2	26.3	18.2	6	12.6
ø10	1/8	KQ2T10-U01□	14	15.9	12	18.6	21.4	24.6	15.6	21.6	14.9	6	15.1
	1/4	KQ2T10-U02□	17	15.9	17	19.3	24.2	25.8	15.6	35.2	25	7.5	19.5
ø10	3/8	KQ2T10-U03□	17	15.9	17	19.3	26.8	28.4	15.6	35.2	25	7.5	20.5
	1/2	KQ2T10-U04□	22	15.9	17	19.3	34.4	33.8	15.6	35.2	25	7.5	50.8
ø12	1/4	KQ2T12-U02□	17	18.5	17	21.5	25.5	28.4	17	57.2	45.2	9	22.5
	3/8	KQ2T12-U03□	17	18.5	17	21.5	28.1	31	17	57.2	45.2	9	23.6
ø12	1/2	KQ2T12-U04□	22	18.5	17	21.5	35.7	36.4	17	57.2	45.2	9	53.9
ø16	3/8	KQ2T16-U03□	22	23.8	21	27.1	32.4	37.9	20.6	71	58.9	11	44.3
	1/2	KQ2T16-U04□	22	23.8	21	27.1	35	38.3	20.6	100	58.9	13	54.8

□: A (Brass), N (Brass + Electroless nickel plating)

*1 øD1 is maximum diameter.

*2 Reference dimensions after installation of Uni thread

*3 For details, refer to page 207.



Male Run Tee: KQ2Y (Gasket seal)



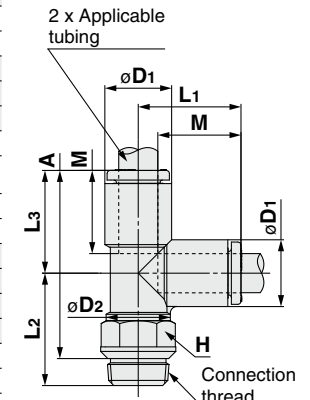
Applicable tubing O.D. [mm]	Connection thread Uni	Model	H (Width across flats)	*1 øD1	øD2	L1	L2	L3	A*2	M	Effective area [mm²]		Min. port size	Weight [g]
											Nylon	Urethane		
ø4	1/8	KQ2Y04-U01□	10	8.2	10	15.3	16.4	15.3	26.9	13.3	6.4	4	3	5.6
	1/4	KQ2Y04-U02□	14	8.2	10	15.3	19.2	15.3	28.1	13.3	6.4	4	3	12.2
ø6	1/8	KQ2Y06-U01□	10	10.4	10	16.3	17.5	16.3	29	13.3	13.4	10.6	4.5	6.3
	1/4	KQ2Y06-U02□	14	10.4	10	16.3	20.3	16.3	30.2	13.3	13.4	10.6	4.5	13
ø6	3/8	KQ2Y06-U03□	17	10.4	10	16.3	21.4	16.3	31.3	13.3	13.4	10.6	4.5	22.5
	1/8	KQ2Y08-U01□	10	13.2	10	18.2	18.9	18.2	32.3	14.2	13.4	13.4	4.5	8
ø8	1/4	KQ2Y08-U02□	12	13.2	12	18.2	22.7	18.2	36.7	14.2	25.6	17.7	6	10.4
	3/8	KQ2Y08-U03□	17	13.2	12	18.2	22.8	18.2	34.6	14.2	25.6	17.7	6	22
ø10	1/8	KQ2Y10-U01□	14	15.9	12	20.6	21.4	20.6	37.3	15.6	40	28.4	6	15.2
	1/4	KQ2Y10-U02□	17	15.9	17	20.6	24.2	20.6	38.5	15.6	40	28.4	7.5	19.7
ø10	3/8	KQ2Y10-U03□	17	15.9	17	20.6	26.8	20.6	41.1	15.6	40	28.4	7.5	20.7
	1/2	KQ2Y10-U04□	22	15.9	17	20.6	34.4	20.6	46.5	15.6	40	28.4	7.5	50.9
ø12	1/4	KQ2Y12-U02□	17	18.5	17	23	25.5	23	42.2	17	57.4	45.4	9	22.8
	3/8	KQ2Y12-U03□	17	18.5	17	23	28.1	23	44.8	17	57.4	45.4	9	23.9
ø12	1/2	KQ2Y12-U04□	22	18.5	17	23	35.7	23	50.2	17	57.4	45.4	9	54.2
ø16	3/8	KQ2Y16-U03□	22	23.8	21	28.6	32.4	28.6	54.6	20.6	81	60	11	44.9
	1/2	KQ2Y16-U04□	22	23.8	21	28.6	35	28.6	55	20.6	113	60	13	55.4

□: A (Brass), N (Brass + Electroless nickel plating)

*1 øD1 is maximum diameter.

*2 Reference dimensions after installation of Uni thread

*3 For details, refer to page 207.



Branch "Y": KQ2U (Gasket seal)

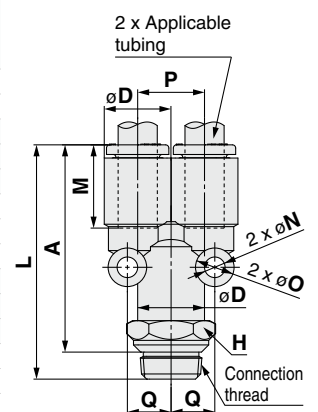


Applicable tubing O.D. [mm]	Connection thread Uni	Model	H (Width across flats)	*1 øD	L	P	A*2	M	Q	Mounting hole			Effective area [mm²]	Min. port size	Weight [g]
										øO	øN	Thickness			
ø4	1/8	KQ2U04-U01□	11	8.2	35.4	8.2	30.6	13.3	5.7	6	3.2	8.2	4.2	3.6	8.6
	1/4	KQ2U04-U02□	14	8.2	37.4	8.2	31	13.3	5.7	6	3.2	8.2	4.2	3.6	14.6
ø6	1/8	KQ2U06-U01□	12	10.4	36.8	10.4	32	13.3	6.8	6	3.2	10.4	13.4	5.4	10
	1/4	KQ2U06-U02□	14	10.4	38.5	10.4	32.1	13.3	6.8	6	3.2	10.4	13.4	5.4	15
ø6	3/8	KQ2U06-U03□	17	10.4	39.3	10.4	32.9	13.3	6.8	6	3.2	10.4	13.4	5.4	23.3
ø8	1/8	KQ2U08-U01□	14	13.2	41.6	13.2	36.8	14.2	8.7	8	4.2	13.2	25.6	6	17.6
	1/4	KQ2U08-U02□	14	13.2	42.6	13.2	36.2	14.2	8.7	8	4.2	13.2	25.6	7.3	18.3
ø8	3/8	KQ2U08-U03□	17	13.2	42.4	13.2	36	14.2	8.7	8	4.2	13.2	25.6	7.3	25.5
ø10	1/4	KQ2U10-U02□	17	15.9	47.6	15.9	41.2	15.6	10.1	8	4.2	15.9	40	8	25.3
	3/8	KQ2U10-U03□	19	15.9	47.5	15.9	41.1	15.6	10.1	8	4.2	15.9	40	9.4	31.6
ø10	1/2	KQ2U10-U04□	22	15.9	49.4	15.9	40.8	15.6	10.1	8	4.2	15.9	40	9.4	47.6
ø12	1/4	KQ2U12-U02□	22	18.5	52.1	18.5	45.7	17	11.4	8	4.2	18.5	57.4	9	42.6
	3/8	KQ2U12-U03□	22	18.5	52	18.5	45.6	17	11.4	8	4.2	18.5	57.4	11	41.2
ø12	1/2	KQ2U12-U04□	22	18.5	53.4	18.5	44.8	17	11.4	8	4.2	18.5	57.4	11.6	48.8

□: A (Brass), N (Brass + Electroless nickel plating)

*1 øD is maximum diameter.

*2 Reference dimensions after installation of Uni thread



Round Type

Metric Size M, R, Rc

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Inch Size NPT

Inch Size R

Metric Size Uni

Inch Size Uni