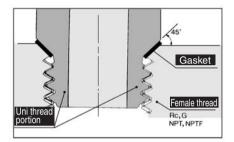
Inch-size Uni One-touch Fittings Series KQ2

Applicable Tubing: Inch Size

Connection Thread: Rc, G, NPT, NPTF

New-stand male thread for piping that reduces the screw-in time by 1/3.





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.

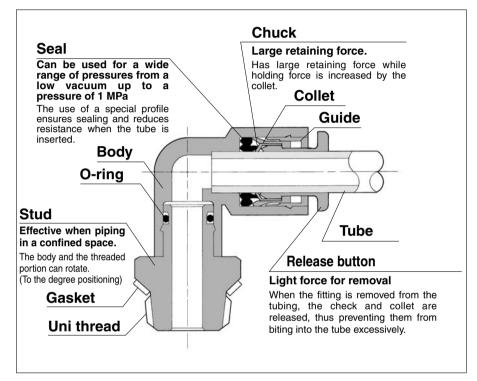
The male thread for piping drastically cuts piping man-hours.



Product's Color

Series	Body	Release button
Series KQ2	White	Orange
Series KQ	Black	Red





Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon (1), Polyurethane
Tubing O.D.	ø1/8", ø5/32", ø3/ ₁₆ ", ø1/ ₄ ", ø5/ ₁₆ ", ø3/ ₈ ", ø1/ ₂ "

Note 1) Soft nylon tubing is not compatible with water.

guaranteed for zero leakage.

Specifications

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

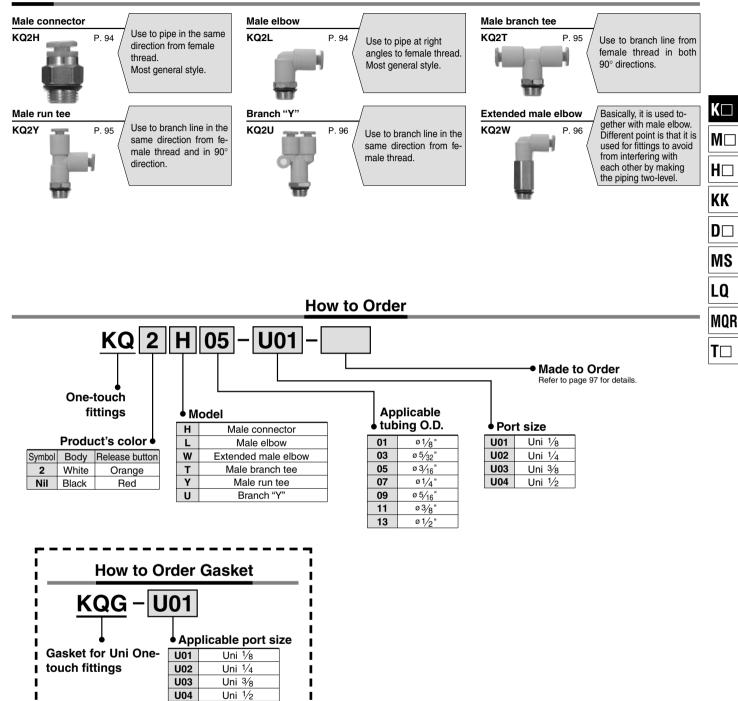
Note 2) The surge pressure must be under the maximum operating pressure. Note 3) Do not use the fittings with a leak tester or for vacuum retention because they are not

Principal Parts Material

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



Model

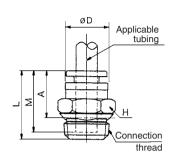


Series KQ2

Male Connector: KQ2H



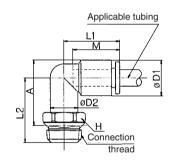
Applicable tubing O.D. (inch)	Connection thread Uni thread	Model	H (Width across flats)	L	A *	М	Min. port size	Mass (g)
1/	1/8	KQ2H01-U01	11.11	18.5	13.5			7
1/8	1/4	KQ2H01-U02	14.29	16	10	15.5	2.5	10
5/32	1/8	KQ2H03-U01	11.11	18.5	13.5			6
9/32	1/4	KQ2H03-U02	14.29	16.5	10.5	16	3	10
3/16	1/8	KQ2H05-U01	12.7	18.5	13.5	16	2.5	7
916	1/4	KQ2H05-U02	14.29	17	11	16	3.5	9
	1/8	KQ2H07-U01	12.7	22.5	17.5			9
1/4	1/4	KQ2H07-U02	14.29	20.5	14.5	17	4.6	11
	3/8	KQ2H07-U03	17.46	17.5	11.5			16
	1/8	KQ2H09-U01	14.29	25	20.5			12
5/16	1/4	KQ2H09-U02	14.29	21.5	15.5	18.5	6	9
	3/8	KQ2H09-U03	17.46	19.5	13.5			16
	1/4	KQ2H11-U02	17.46	00	00			19
3/8	3/8	KQ2H11-U03	17.40	28	22	21	7	16
	1/2	KQ2H11-U04	22.23	22	14			30
	1/4	KQ2H13-U02		30	24		9	33
1/2	3/8	KQ2H13-U03	22.23	28.5	22.5	22		30
	1/2	KQ2H13-U04		25	17		9.6	28
* Doforon	oo dimo	ncione after LI	ni throad ir	octollation				



Male Elbow: KQ2L



Applicable tubing O.D. (inch)	Connection thread Uni thread	Model	(Width across flats)	ø D1	ø D2	L1	L2	A *	М	Min. port size	Mass (g)
1/-	1/8	KQ2L01-U01	11.11		10	17.5	20	20.5	45.5	٥.	6
1/8	1/4	KQ2L01-U02	14.29	9.6	10	17.5	22	21	15.5	2.5	13
5/32	1/8	KQ2L03-U01	11.11	10.1	10	40	20	21.5	40		7
9/32	1/4	KQ2L03-U02	14.29	10.4	10	18	22.5	21.5	16	3	13
3/16	1/8	KQ2L05-U01	11.11	11.4		19.5	20.5	22.5	16	2 -	8
916	1/4	KQ2L05-U02	14.29	11.4	10) 19.5	23	22.5	10	3.5	14
	1/8	KQ2L07-U01	11.11				21.5	24			8
1/4	1/4	KQ2L07-U02	14.29	13.2	10	20.5	23.5	24.5	17	4.6	15
	3/8	KQ2L07-U03	17.46				24.5	25			21
	1/8	KQ2L09-U01	12.7				22.5	25.5			10
5/16	1/4	KQ2L09-U02	14.29	15.2	12	23.5	24.5	26.5	18.5	6	15
	3/8	KQ2L09-U03	17.46				25.5	27			17
	1/4	KQ2L11-U02					26.5	29.5			18
3/8	3/8	KQ2L11-U03	17.46	17.9	17	25.5	27	30	21	7	22
	1/2	KQ2L11-U04					30	31			41
	1/4	KQ2L13-U02	17.46				28.5	33		9	23
1/2	3/8	KQ2L13-U03	17.40	21.7	17	28	28.5	33.5	22		31
	1/2	KQ2L13-U04	22.23				32	35		9.6	44



^{*} Reference dimensions after Uni thread installation.

^{*} Reference dimensions after Uni thread installation.

Inch-size Uni One-touch Fittings $\,$ Series $\,$ KQ2

Male Branch Tree: KQ2T



Applicable tubing O.D. (inch)	Connection thread Uni thread	Model	H (Width across flats)	ø D1	ø D2	L1	L2	A *	M	Min. port size	Mass (g)
1./.	1/8	KQ2T01-U01	11.11		40	47.5	20	21	45.5	0.5	8
1/8	1/4	KQ2T01-U02	14.29	9.6	10	17.5	22	21	15.5	2.5	15
5/32	1/8	KQ2T03-U01	11.11		4.0		20	21.5			9
9/32	1/4	KQ2T03-U02	14.29	10.4	10	18	22.5	21.5	16	3	15
3/16	1/8	KQ2T05-U01	11.11	11.4		19.5	20.5	22.5	16.5	3.5	10
916	1/4	KQ2T05-U02	14.29	11.4	10	19.5	23	22.5	10.5	3.5	16
	1/8	KQ2T07-U01	11.11				21.5	24			10
1/4	1/4	KQ2T07-U02	14.29	13.2	10	20.5	23.5	24.5	17	4.6	17
	3/8	KQ2T07-U03	17.46				24.5	25			24
	1/8	KQ2T09-U01	12.7				22.5	26			14
5/16	1/4	KQ2T09-U02	14.29	15.2	12	23.5	24.5	26.5	18.5	6	19
	3/8	KQ2T09-U03	17.46				25.5	27			25
	1/4	KQ2T11-U02	17.46				26.5	29.5			24
3/8	3/8	KQ2T11-U03	17.40	17.9	17	25.5	27	30	21	7	27
	1/2	KQ2T11-U04	22.23				30	31			46
	1/4	KQ2T13-U02	17.46				28.5	33		9	29
1/2	3/8	KQ2T13-U03	17.40	21.7	17	28	28.5	33.5	22		32
	1/2	KQ2T13-U04	22.23				32	35		9.6	51
* Referen	ce dime	ensions after l	Jni thr	ead ir	nstalla	tion.					

² x applicable tubing

 $\mathsf{D}\Box$

 $\mathsf{K}\square$

M□

Н□

KK

MS

LQ

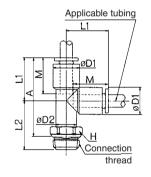
MQR

T□

Male Run Tree: KQ2Y



Applicable Connection H Min.	
Applicable tubing O.D. (inch) Winthread Unithread Unithr	Mass (g)
1/8 KQ2Y01-U01 11.11 9.6 10 17.5 20 33.5 15.5 2.5	8
1/8 1/4 KQ2Y01-U02 14.29 9.6 10 17.5 22 33.5 15.5 2.5	15
5/32 1/8 KQ2Y03-U01 11.11 10.4 10 18 20 34 16 3	9
³ / ₃₂ 1/ ₄ KQ2Y03-U02 14.29 10.4 10 18 22.5 34.5 16 3	15
3/16 1/8 KQ2Y05-U01 11.11 11.4 10 19.5 20.5 36 16.5 3.5	10
³ /16	16
1/8 KQ2Y07-U01 11.11 21.5 38	10
1/ ₄ 1/ ₄ KQ2Y07-U02 14.29 13.2 10 20.5 23.5 37.5 17 4.6	17
3/8 KQ2Y07-U03 17.46 24.5 39	24
1/8 KQ2Y09-U01 12.7	14
5/ ₁₆ 1/ ₄ KQ2Y09-U02 14.29 15.2 12 23.5 24.5 42 18.5 6	19
3/8 KQ2Y09-U03 17.46 25.5 43	25
1/4 KQ2Y11-U02 26.5 46	24
3/8 KQ2Y11-U03 17.46 17.9 17 25.5 27 46.5 21 7	27
1/2 KQ2Y11-U04 22.23 30 47.5	46
1/4 KQ2Y13-U02 17.46 28.5 50.5	29
1/2 3/8 KQ2Y13-U03	32
1/2 KQ2Y13-U04 22.23 32 52 9.6	51



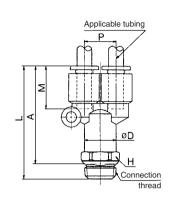
^{*} Reference dimensions after Uni thread installation.

Series KQ2

Branch "Y": KQ2U



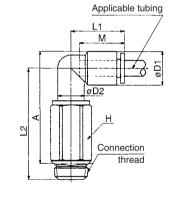
Applicable tubing O.D. (inch)	Connection thread Uni thread	Model	H (Width across flats)	ø D	L	P	A *	М	Min. port size	Mass (g)
1/-	1/8	KQ2U01-U01	12.7		38.5		34.5	45.5	٥.	
1/8	1/4	KQ2U01-U02	14.29	9.6	40.5	9.6	34.5	15.5	2.5	10
5/32	1/8	KQ2U03-U01	12.7	40.4	40	40.4	36			1.0
9/32	1/4	KQ2U03-U02	14.29	10.4	42	10.4	36	16	3	12
3/16	1/8	KQ2U05-U01	12.7	11.4	42	11.4	38	16.5	٠.	14
916	1/4	KQ2U05-U02	14.29	11.4	44.5	11.4	39	10.5	3.5	14
	1/8	KQ2U07-U01	14.29		44.5		40.5			
1/4	1/4	KQ2U07-U02	14.29	13.2	46	13.2	40	17	4.6	15
	3/8	KQ2U07-U03	17.46		46.5		40.5			
	1/8	KQ2U09-U01			50.5		46.5			20
5/16	1/4	KQ2U09-U02	17.46	15.2	52	15.2	46	18.5	6	18
	3/8	KQ2U09-U03			51.5		45.5			25
	1/4	KQ2U11-U02	19.05		56.5		50.5			37
3/8	3/8	KQ2U11-U03	19.05	17.9	56.5	17.9	50.5	21	7	32
	1/2	KQ2U11-U04	22.23		59		51			38
	1/4	KQ2U13-U02								26
1/2	3/8	KQ2U13-U03	22.23	21.7	61	21.7	55	22	9.6	30
	1/2	KQ2U13-U04			62.7		54.7	1		50
* Referen	co dimo	neione after I	Ini throad	linetall	ation					



Extended Male Elbow: KQ2W



Applicable tubing O.D. (inch)	Connection thread Uni thread	Model	H (Width across flats)	ø D1	ø D2	L1	L2	A *	М	Min. port size	Mass (g)
1/	1/8	KQ2W01-U01	11.11		40	4	34.5	34	45.5		17
1/8	1/4	KQ2W01-U02	14.29	9.6	10	17.5	36.5	35.5	15.5	2.5	26
5/32	1/8	KQ2W03-U01	11.11	40.4		40	34.5	35.5	40		18
9/32	1/4	KQ2W03-U02	14.29	10.4	10	18	37	36.1	16	3	26
3/16	1/8	KQ2W05-U01	11.11	11.4		19.5	35	36	16.5	3.5	19
9/16	1/4	KQ2W05-U02	14.29	11.4	10	19.5	40	39.5	10.5	3.5	27
	1/8	KQ2W07-U01	11.11				36	37.5			21
1/4	1/4	KQ2W07-U02	14.29	13.2	10	20.5	41	41.5	17	4.6	31
	3/8	KQ2W07-U03	17.46				41.5	42			39
	1/8	KQ2W09-U01	12.7				43.5	46.5			26
5/16	1/4	KQ2W09-U02	14.29	15.2	12	23.5	45.5	47	18.5	6	35
	3/8	KQ2W09-U03	17.46				46	48			39
	1/4	KQ2W11-U02	17.46				52.5	55.5			59
3/8	3/8	KQ2W11-U03	17.40	17.9	17	25.5	52	55	21	7	55
	1/2	KQ2W11-U04	22.23				54.5	55.5			97
	1/4	KQ2W13-U02	17.46				54			9	64
1/2	3/8	KQ2W13-U03	17.40	21.7	17	28	54	59	22		64
	1/2	KQ2W13-U04	22.23	-			56			9.6	100



^{*} Reference dimensions after Uni thread installation.

^{*} Reference dimensions after Uni thread installation.

Series KQ2

Made to Order Specifications Please contact SMC for detailed dimensions, specifications, and delivery.



1 Grease-free Specifications

Symbol	Specifications
X17	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue
X29	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue Copper-free (With electroless nickel plated)
X39	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue Clean (Copper-free, air blow, double package, resin body: white)

K□

M□

 $H\square$ KK

 $\mathsf{D}\Box$

MS

LQ

MQR

$\mathsf{T}\Box$

2 Other Specifications

Symbol	Specifications					
X2	Copper-free (With electroless nickel plated)					
X12	Lubricant: White Vaseline Release button color: White					
X41	With fixed throttle Note)					

Note) Compatible with male connector and male elbow only Consult SMC separately for the available fixed throttle diameters.

Spare Parts

Description	Part no.	Applicable thread
Gasket	KQG-U01	Uni 1/8
	KQG-U02	Uni 1/4
	KQG-U03	Uni 3/8
	KQG-U04	Uni 1/2

SMC

