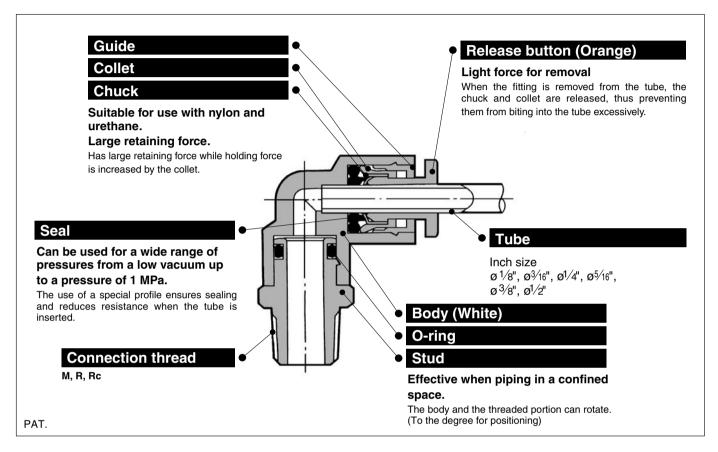
Inch-size One-touch Fittings Series KQ2

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





Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon (1), Polyurethane
Tubing O.D.	ö¹/8, ø³∕₁6," ø¹/4", ø⁵∕₁6," ø³∕8", ø¹/2"

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

Specifications

<u> </u>		
Fluid		Air/Water (2)
Operating pressure	e 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)
Thread	Mounting section	JIS B0203 (Taper thread for piping)
Tiffead	Nut section	JIS B0205 (Metric fine thread)
Seal on the thread	S	With sealant or none



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 guaranteed for zero leakage.

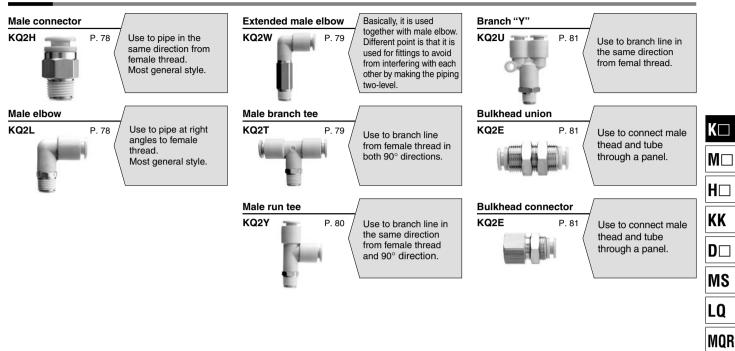
Principal Parts Material

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

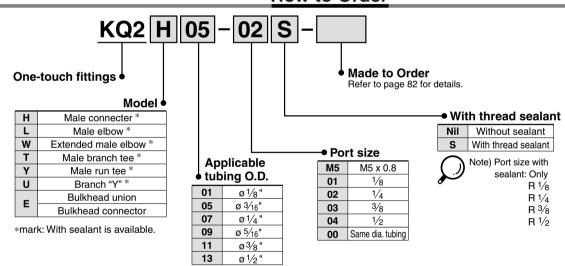




Model



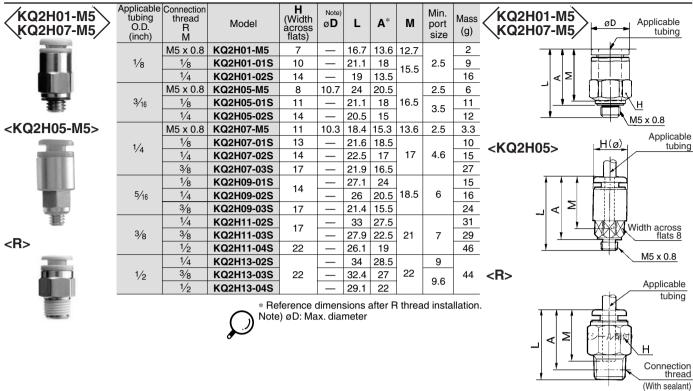
How to Order



 $\mathsf{T}\Box$

Series KQ2

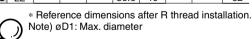
Male Connector: KQ2H

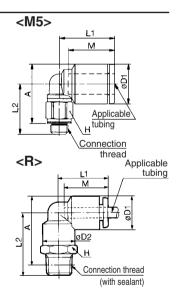


Male Elbow: KQ2L



Applicable tubing O.D. (inch)	Connection thread R M	Model	H (Width across flats)	Note) Ø D1	ø D2	L1	L2	A *	М	Min. port size	Mass (g)
1/8	M5 x 0.8	KQ2L01-M5	7	8.4	_	15.3	13.2	14.3	12.7	2.3	2.5
3/16	1/8	KQ2L05-01S	10	11.4	10	19.5	21.6	24	16.5	3.5	10
9/16	1/4	KQ2L05-02S	14	11.4	10	19.5	26	26	16.5	3.5	19
	M5 x 0.8	KQ2L07-M5	7	12	_	16.1	15.1	18	13.6	2.3	3.2
1/4	1/8	KQ2L07-01S	10				22.6	26			10
'/4	1/4	KQ2L07-02S	14	13.2	10	20.5	27	28	17	4.6	20
	3/8	KQ2L07-03S	17				28.4	29.5			32
	1/8	KQ2L09-01S	12				23.6	28			12
5/16	1/4	KQ2L09-02S	14	15.2	12	23.5	28	30	18.5	6	20
	3/8	KQ2L09-03S	17				29.4	31.5			28
	1/4	KQ2L11-02S	17				29	32.5			23
3/8	3/8	KQ2L11-03S	17	17.9	17	25.5	30.4	34	21	7	33
	1/2	KQ2L11-04S	22				34.6	36.5			59
	1/4	KQ2L13-02S	17				31	36.5		9	28
1/2	3/8	KQ2L13-03S	17	21.7	17	28	32.4	38.5	22	0.6	36
	1/2	KQ2L13-04S	22				36.6	40		9.6	62

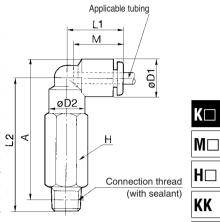




Extended Male Elbow: KQ2W



Applicable tubing O.D. (inch)	Connection thread R	Model	(Width across flats)	Note) Ø D1	ø D2	L1	L2	A *	M	Min. port size	Mass (g)	
3/16	1/8	KQ2W05-01S	10	11.4	10	19.5	37.1	40	16.5	3.5	19	
9/16	1/4	KQ2W05-02S	14	11.4	10	19.5	43.5	43.5	10.5	3.5	41	
	1/8	KQ2W07-01S	10				39.6	43			20	
1/4	1/4	KQ2W07-02S	14	13.2	10	20.5	46	47	17	4.6	45	
	3/8	KQ2W07-03S	17				47.4	49			69	
	1/8	KQ2W09-01S	12				42.6	47			30	
5/16	1/4	KQ2W09-02S	14	15.2	12	23.5	49	51	18.5	6	47	
	3/8	KQ2W09-03S	17				50.4	53			74	
	1/4	KQ2W11-02S	17				55.5	59			69	(
3/8	3/8	KQ2W11-03S	17	17.9	17	25.5	56.9	61	21	7	76	
	1/2	KQ2W11-04S	22				63.6	65.5			147	
	1/4	KQ2W13-02S	17				57.5	63		9	72	
1/2	3/8	KQ2W13-03S	''	21.7	17	28	58.9	64.5	22	9.6	78	
	1/2	KQ2W13-04S	22				65.6	69		9.6	149	



 $\mathsf{D}\Box$

MS

LQ

MQR

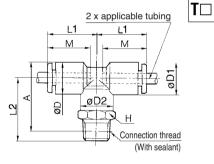
* Reference dimensions after R thread installation.

Note) øD1: Max. diameter

Male Branch Tee: KQ2T



. NQZI												
Applicable tubing O.D. (inch)	Connection thread R	Model	(Width across flats)	ø D1	ø D2	L1	L2	A *	M	Min. port size	Mass (g)	
3/16	1/8	KQ2T05-01S	10	11.4	10	19.5	21.6	24	16.5	3.5	12	
916	1/4	KQ2T05-02S	14	11.4	10	13.5	26	26	10.5	3.5	21	
	1/8	KQ2T07-01S	10				22.6	26			11	
1/4	1/4	KQ2T07-02S	14	13.2	10	20.5	27	28	17	4.6	21	
	3/8	KQ2T07-03S	17				28.4	30			34	
	1/8	KQ2T09-01S	12				23.6	28			15	
5/16	1/4	KQ2T09-02S	14	15.2	12	23	28	30	18.5	6	23	
	3/8	KQ2T09-03S	17				29.4	31.5			35	
	1/4	KQ2T11-02S	17				29	32.5			29	
3/8	3/8	KQ2T11-03S	17	17.9	17	25.5	30.4	34.5	21	7	38	
	1/2	KQ2T11-04S	22				34.6	36.5			64	
	1/4	KQ2T13-02S	17				31	36.5		9	34	
1/2	3/8	KQ2T13-03S	17	21.7	17	28	32.4	38.5	22	9.6	43	
	1/2	KQ2T13-04S	22				36.6	40		9.0	69	



* Reference dimensions after R thread installation. Note) øD1: Max. diameter

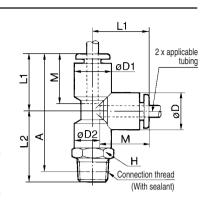


Series KQ2

Male Run Tee: KQ2Y



Applicable tubing O.D. (inch)	Connection thread R	Model	H (Width across flats)	Note) Ø D1	ø D2	L1	L2	A *	М	Min. port size	Mass (g)
3/16	1/8	KQ2Y05-01S	10	11.4	10	19.5	21.6	38	16.5	3.5	12
9/16	1/4	KQ2Y05-02S	14	11.4	10	19.5	26	40	10.5	3.5	21
	1/8	KQ2Y07-01S	10				22.6	40			11
1/4	1/4	KQ2Y07-02S	14	13.2	10	20.5	27	42	17	4.6	21
	3/8	KQ2Y07-03S	17				28.4	44			34
	1/8	KQ2Y09-01S	12				23.6	40			15
5/16	1/4	KQ2Y09-02S	14	15.2	12	23.5	28	40	18.5	6	23
	3/8	KQ2Y09-03S	17				29.4	48			35
	1/4	KQ2Y11-02S	17				29	49			29
3/8	3/8	KQ2Y11-03S	17	17.9	17	25.5	30.4	51	21	7	38
	1/2	KQ2Y11-04S	22				34.6	53			64
	1/4	KQ2Y13-02S	17				31	53.5		9	34
1/2	3/8	KQ2Y13-03S	''	21.7	17	28	32.4	55.5	22	9.5	43
	1/2	KQ2Y13-04S	22				36.6	57		9.5	69



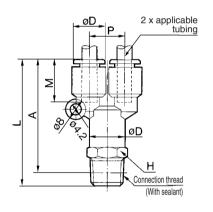


* Reference dimensions after R thread installation. Note) øD1: Max. diameter

Branch "Y": KQ2U



Applicable tubing O.D. (inch)	Connection thread R	Model	(Width across flats)	Note) Ø D	L	Р	A *	M	Min. port size	Mass (g)
3/16	1/8	KQ2U05-01S	12	11.4	43.1	11.4	40	16.5	3.5	18
9/16	1/4	KQ2U05-02S	14	11.7	48	11.4	42.5	10.5	3.5	18
	1/8	KQ2U07-01S	14		45.6		40.5			19
1/4	1/4	KQ2U07-02S	14	13.2	49	13.2	42.5	17	4.6	19
	3/8	KQ2U07-03S	17		50.4		45			19
	1/8	KQ2U09-01S			51.6		48.5			21
5/16	1/4	KQ2U09-02S	17	15.2	55	15.2	49.5	18.5	6	22
	3/8	KQ2U09-03S			55.4		50			35
	1/4	KQ2U11-02S	10		59.5		54			42
3/8	3/8	KQ2U11-03S	19	17.9	59.9	17.9	54.5	21	7	43
	1/2	KQ2U11-04S	22		63.6		56.5			56
	1/4	KQ2U13-02S			64		58.5			31
1/2	3/8	KQ2U13-03S	22	21.7	64.4	21.7	59	22	9.5	41
	1/2	KQ2U13-04S			67.6		60.5			68



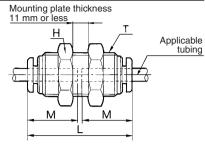
* Reference dimensions after R thread installation. Note) øD: Max. diameter



Bulkhead Union: KQ2E



Applicable tubing O.D. (inch)	Model	T (M)	(Width across flats)	. L	Mounting hole	М	Min. port size	Mass (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



Mounting plate thickness 7 mm or less

H1

Connection thread

$\mathsf{K}\square$







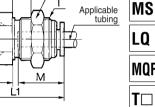












Bulkhead Connector: KQ2E



tubing O.D. (inch)	thread Rc	Model	T (M)		(Width across flats)		L2	М	port size	Mounting hole	Mass (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	1/2	KQ2E13-04	M22 x 1	24	21	41.5	18.5		9.0		74



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)
X94	Grease-free Rubber material: FKM (With fluorine coating) Release button color: Light blue

2 Other Specifications

Symbol	Specifications					
X2	Copper-free (With electroless nickel plated)					
X12	X12 Lubricant: White Vaseline Release button color: White					
X34	Rubber material: FKM					
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	Material	Applicable model
Gasket	M-5G2	M5	Stainless steel 304, NBR	-
Pipe nut	KQ06-P01	_	_	KQ2E05-01, KQ2E07-02 KQ2E05-00M, KQ2E07-00M
	KQ08-P01	_	_	KQ2E09-03, KQ2E09-00M
	KQ10-P01	_	_	KQ2E11-03, KQ2E11-00M
	KQ12-P01	_	_	KQ2E13-03, KQ2E11-04, KQ2E13-00M



M D KK

MQR

LQ

T