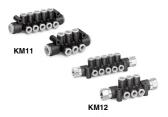
One-touch Fittings Manifold Series KM

RoHS

Compact piping possible. Manifold piping possible. Many varieties (40 types) are available.

One-touch fittings give the most efficient operation.





Model

Model	Por	ting	No. of	Port B	Р	ort A siz	ze
Wodel	Port A	Port B	Port A	size	ø4	ø6	ø8
				ø8	•		
KM11	One-touch fitting	One-touch fitting	6, 10	ø10		•	
				ø12			•
KM12	One-touch fitting	Rc female thread	6, 10	Rc 1/4	•	•	
KWIIZ	One todor itting	Tio iomaio unioda	0, 10	Rc 3/8			•
				ø6	•		
KM13	One-touch fitting	One-touch fitting	3	ø8	•	•	
				ø10		•	•
				ø6, R 1/8	•		
				ø6, R 1/4	•		
				ø6, R 3⁄8	•		
		One-touch fitting		ø8, R 1/8	•	•	
KM14	One-touch fitting	R male thread	3	ø8, R 1/4	•	•	
				ø8, R 3⁄8	•	•	
				ø10, R 1/4		•	•
				ø10, R 3/8		•	•
				ø10, R 1/2		•	•
		One-touch fitting		ø6	•		
KM15	One-touch fitting	Rod	3	ø8	•	•	
		7100		ø10		•	•
KM16	One-touch fitting	One-touch fitting	3	ø4	•		
14,110	one todorrinariy		3	ø6	•	•	

Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon (1), Polyurethane					
Tubing O.D.	ø4, ø6, ø8, ø10, ø12					
N 1 2 0 0 0 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1						

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

Made to Order (Refer to page 125 for details.)

Specifications

opoomounomo													
Model	KM11	KM12	KM13	KM14	KM15	KM16							
Fluid		Air/Water (2)											
Operating pressure range		-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	_	JIS B 0203 (Taper thread for piping)	_	JIS B 0203 (Taper thread for piping)	_	_							
Accessory	None	None Heugon socket head blank plug with seal: 1 pc. None None None None											
Nista O) The summer sussessing of			_										

Note 2) The surge pressure must be under the maximum operating pressure.

Principal Parts Material

Model	KM11	KM12	KM13	KM14	KM15	KM16							
Body		PBT											
Stud	_	C3604	_	C3604	C3604-PBT	_							
Chuck			Stainless	steel 304									
Guide			Stainless	steel 304									
Collet, Release button		POM											
Seal, O-ring		NBR											

KQ2 KQB2

 KM

KF M

H/DL L/LL KC

KK KK130

DM

KDM KB

KR

KA

KQG2 KG

KFG2

MS

KKA

KΡ LQ

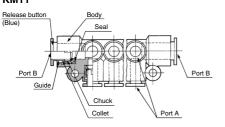
MQR



Series KM

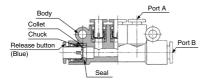
Construction

KM11



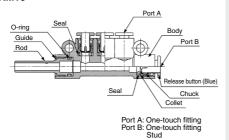
Port A: One-touch fitting Port B: One-touch fitting

KM13

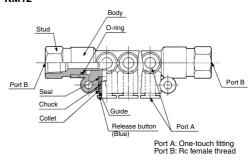


Port A: One-touch fitting Port B: One-touch fitting

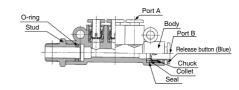
KM15



KM12

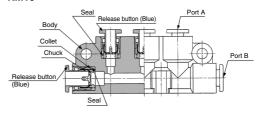


KM14



Port A: One-touch fitting Port B: One-touch fitting, R male thread

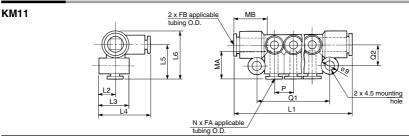
KM16



Port A: One-touch fitting Port B: One-touch fitting

One-touch Fittings Manifold $Series \ KM$

Dimensions



Applicable tu	bing O.D. (mm)	Model	N	L1	L2	L3	L4	L5	L6	P	Q1	Q2	МА	МВ	Port B	Weight
FA	FB	Wodei	IN	LI	L2	L3	L4	Lo	LO		Qı	Q2	IVIA	IVID	Min. port size	(g)
4		KM11-04-08-6	6	65	10	18	29.5	19.5	27	10.6	40	12	16	18.5	_	19
4	8	KM11-04-08-10	10	86	10	10	29.5	19.5	21	10.6	61.5	12	16	16.5	0	26
6	10	KM11-06-10-6	6	76	10	19.5	31.5	21.5	31	13	47	13.5	17	21	7.5	29
•	10	KM11-06-10-10	10	102	10	19.5	31.5	21.5	31	13	73	13.5	' '	- 1	7.5	39
	12	KM11-08-12-6	6	85	11.5	22.5	35.5	24	34.5	15.5	55	14.7	18.5	22	_	41
•	12	KM11-08-12-10	10	116	11.5	22.5	35.5	24	34.5	15.5	86	14.7	16.5	22	9	57

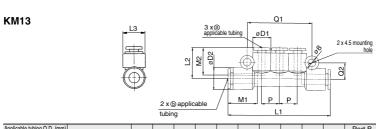
KM12

2 x T

2 x T

2 x 4.5 mounting hole tubing O.D.

Applicable tubing O.D. F (mm)	Connection thread Rc T	Model	N	(Width across flats)	L1	L2	L3	L4	L5	L6	Р	Q1	Q2	М	Port B Min. port size	Weight (g)
1	1/4	KM12-04-02-6	6	17	89	10	18	29.5	19.5	20	10.6	40	12	16	6	65
-	74	KM12-04-02-10	10	17	110	10	10	23.3	19.5	20	10.0	61.5	12	10	٠	72
6	1/4	KM12-06-02-6	6	17	99	10	10.5	21 5	21.5	91	13	47	13.5	17	7.5	81
0	74	KM12-06-02-10	10	17	125	10	19.5	31.3	21.5	31	13	73	13.3	17	7.5	91
	3/8	KM12-08-03-6	6	19	108	11 5	22.5	25.5	24	34.5	15.5	55	14.7	18.5	9	97
	98	KM12-08-03-10	10	19	139	11.5	22.5	33.3	24	34.5	15.5	86	14.7	16.5	9	112



4	Applicable lub	ilig O.D. (IIIIII)	Model	øD1	øD2	L1	L2	L3	D	Q1	Q2	M1	M2	POILD	vveigni
	(a)	Ъ	Model	וטש	002	LI	LZ	L3	F	Q1	Q2	IVI	IVIZ	Min. port size	(g)
	4	6	KM13-04-06-3	10.4	12.8	60	18	13	10.4	38.2	9.9	17	16	4.5	11
	4	8	KM13-04-08-3	10.4	15.2	63.5	19	15.5	10.4	36.2	11.1	18.5	10	6	14
		8	KM13-06-08-3	12.8	15.2	70.5	20	15.5	12.8	45.4	11.1	18.5	17	6	16
	0	10	KM13-06-10-3	12.6	18.5	74.5	21	19	12.0	45.4	12.8	21	17	7.5	22
	8	10	KM13-08-10-3	15.2	18.5	81.5	22.5	19	15.2	52.6	12.8	21	18.5	7.5	26

KQ2

KQB2

ΚM

KF M

H/DL L/LL

KC KK

KK130

DM

KDM KB

KR

KA

KQG2

KG KFG2

MS

KKA

KP LQ

MQR

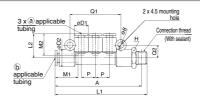
T

Series KM

Dimensions

KM14

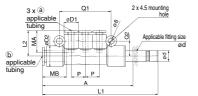




Applicable tub	oing O.D. (mm)	Connection thread R	Model	H (Width across flats)	ø D 1	ø D2	L1	L2	L3	Р	Α	Q1	Q2	М1	M2	Port B Min. port size	Weight (g)
		1/8	KM14-04-06-01S-3	13			67.1				64						18
4	6	1/4	KM14-04-06-02S-3	14	10.4	12.8	71	18	13	10.4	65.5	38.2	9.9	17	16	4.5	25
		3/8	KM14-04-06-03S-3	17			72.4				67.5						38
		1/8	KM14-04-08-01S-3				72.6				69.5						30
4	8	1/4	KM14-04-08-02S-3	17	10.4	15.2	76	19	15.5	10.4	70.5	38.2	11.1	18.5	16	6	
		3/8	KM14-04-08-03S-3				76.4				71						38
		1/8	KM14-06-08-01S-3				79.1				76.5						31
6	8	1/4	KM14-06-08-02S-3	17	12.8	15.2	82.5	20	15.5	12.8	77	45.4	11.1	18.5	17	6	اد ا
		3/8	KM14-06-08-03S-3				82.9				78						39
		1/4	KM14-06-10-02S-3	19			87				81.5						43
6	10	3/8	KM14-06-10-03S-3] 19	12.8	18.5	87.4	21	19	12.8	82	45.4	12.8	21	17	7.5	44
		1/2	KM14-06-10-04S-3	22			91.1				84						66
		1/4	KM14-08-10-02S-3	19			93.5				88						47
8	10	3/8	KM14-08-10-03S-3] 19	15.2	18.5	93.9	22.5	19	15.2	89	52.6	12.8	21	18.5	7.5	4/
		1/2	KM14-08-10-04S-3	22			97.6				90.5						70

KM15

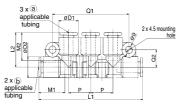




	icable bing (mm)	Applicable fitting size Ød	Model	ø D 1	ø D2	L1	L2	L3	Р	Q1	Q2	A	MA	МВ	Port B min. port size	Weight (g)
4	6	6	KM15-04-06-3	10.4	12.8	78.5	18	13	10.4	38.2	9.9	61.5	16	17	4.5	12
4	8	8	KM15-04-08-3	10.4	15.2	85.5	19	15.5	10.4	30.2	11.1	67	10	18.5	6	24
6	8	8	KM15-06-08-3	12.8	15.2	92.5	20	15.5	12.8	45.4	11.1	74	17	18.5	6	25
0	10	10	KM15-06-10-3	12.0	18.5	98	21	19	12.0	40.4	12.8	77	17	21	7.5	37
8	10	10	KM15-08-10-3	15.2	18.5	105	22.5	19	15.2	52.6	12.8	85	18.5	21	7.5	41

KM16





Applicable tub	ing O.D. (mm)	Model	~D1	øD2					_	<u></u>	00	N#4		Port B	Weight
(a)	(b)	iviodei	וטטו	002	LI	LZ	L3	L4	Р	Q I	Q2	IVI	IVIZ	Port B Min. port size	(g)
4	4	KM16-04-04-3										16	16	3	18
4	6	KM16-04-06-3	12.8	12.8	68	20.9	16	11	14.5	50	10.5	17	16	4.5	16
6	6	KM16-06-06-3										17	17	4.5	15

Handling of One-touch Fittings

- Refer to pages 13 to 16 for "Fittings & Tubing Precautions" for the details of installation/ removal of One-touch fittings.
- Connecting products with metal rods
 Products with metal rods cannot be connected to Series KQ2 One-touch fittings.
 If connected, the metal rod cannot be retained by the chuck of the One-touch fitting and products with metal rods may

When mounting tubes, resin plugs, reducers etc., do not press the release button. Also, do not press the release button unnecessarily before mounting them. This may cause those parts to come off.

project during pressurization, causing serious personal injury or accident.

After attaching products with attached metal rods, to the One-touch fitting, do not use tubes, resin plugs, or reducers, etc. This may cause releasing.

For details about One-touch fittings that can connect KM15 model, contact SMC.

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

Suffix "-X17" to the end of part number. Example) **KM11-04-08-10-X17**

2 Other Specifications

Symbol	Specifications
X2	Copper-free (With electroless nickel plated)
X12	Lubricant: White Vaseline Release button color: White
X34	Rubber material: FKM

Suffix "-X2" to the end of part number. Example) KM12-04-02-6-X2 KQ2

KQB2

KS

KM

M H/DL L/LL

KC

KK

KK130

DM

KDM

KB

KR

KA KQG2

KG

KFG2

MS KKA

KP LQ

MQR

T

Inch size One-touch Fittings Manifold Series KM

Applicable Tubing: Inch size

Compact piping possible. Manifold piping possible. Many varieties (12 types) are available. One-touch fittings give the most efficient operation.



Model

1	Model	Por	ting	No. of	Port B	Р	ort A siz	:e
	iviouei	Port A	Port B	Port A	size	Port A size 05/32" 01/4" 05/16"	ø5/16"	
					ø5/16'	•		
	KM11	One-touch fitting	One-touch fitting	6, 10	ø3/8"		•	
					ø 1/2"			
	KM12	One-touch fitting	NPT thread	6, 10	NPT 1/4	•	•	
	KWI 12	One-touch litting	NFT tilleau	0, 10	NPT 3/8			05/16°

Applicable Tubing

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

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

Specifications

Model	KM11	KM12				
Fluid	Air/Water (2)					
Maximum operating pressure	1 MPa					
Proof pressure	3 MPa					
Ambient and fluid temperature	−5 to 60°C, Water: 0 to 40°C (No freezing)					
Thread	_	ANSI/ASMEB1.20. 1-1983 (NPT thread)				

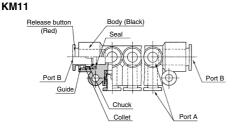
Note 2) The surge pressure must be under the maximum operating pressure.



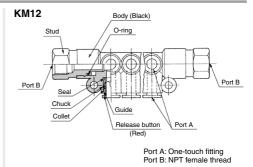
Principal Parts Material

Model	KM11	KM12				
Body	PI	BT				
Stud	_	C3604				
Chuck	Stainless	steel 304				
Guide	Stainless stee	Stainless steel 304, C3604				
Collet, Release button	PC	MC				
Seal, O-ring	NI	3R				

Construction

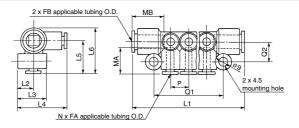


Port A: One-touch fitting Port B: One-touch fitting



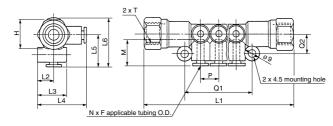
Dimensions

KM11



Applicable tubing O.D. (inch)		Model	N	1.1	L2	L3	L4	L5	L6	Р	Q1	Q2	МА	МВ	Port B	Weight					
FA	FB	iviodei	iviodei	iviodei	iviodei	Model	Iviodei	IN	LI	LZ	Lo	L4	LO	LO	F	ä	Q2	IVIA	IVID	Min. port size	(g)
5/32	5/16	KM11-03-09-6	6	65	10	18	29.5	19.5	27	10.6	40	12	16	18.5	6	(g) 19 26 30 40 41					
9/32	9/16	KM11-03-09-10	10	86	10	10	29.5	19.5	21	10.6	61.5	12	16	10.5	0	26					
1/4	3/8	KM11-07-11-6	6	77.8	10	10.5	31.5	01.5	20 E	10.0	48	13	17	21	7	30					
1/4	9/8	KM11-07-11-10	10	104	10	19.5	31.5	21.5	30.5	13.2	73.5	13	17	21	/	40					
5/16	1/	KM11-09-13-6	6	85	12.7	23.7	37.7	25	35.9	15.0	52.8	15	18.5	22	9.5						
	1/2	KM11-09-13-10	10	115	12.7	23.7	37.7	25	33.9	15.2	83	15	10.5	22	9.5	57					

KM12



Applicable tubing O.D. F (inch)	Connection thread NPT	Model	N	H (Width across flats)	L1	L2	L3	L4	L5	L6	Р	Q1	Q2	М	Port B Min. port size	Weight (g)
5/32	KM12-03-35-6 6 17.46	17.46	87	10	18	00 E	19.5	29	10.6	40	12	16	6	65		
9/32	74	KM12-03-35-10	10	17.46	110	10	10	29.5	19.5	29	10.6	61.5	12	10	6 7	72
1/4	1/4	KM12-07-35-6	6	17.46	95	10	10 5	21 5	21.5	21.25	13.2	48	13	17	7	82
1/4	74	KM12-07-35-10	10	17.46	121	10	19.5	31.3	21.5	31.23	13.2	73.5	13	''		92
E/	9/	KM12-09-36-6	6	22.22	102	12.7	23.7	37.7	25	37.5	15.2	52.8	15	18.5	9.5	97
5/16	3/8	KM12-09-36-10	10	22.22	132	12.7	23.7	37.7	25	37.3	15.2	83	15	16.5	9.5	112

Handling of One-touch Fittings

⚠ Caution

Refer to pages 13 to 16 for "Fittings & Tubing Precautions" for the details of installation/removal of One-touch fittings.

KQ2

KQB2

KM

KF

M H/DL L/LL

KC KK

KK130

DM

KDM KB

KR KA

KQG2

KG KFG2

MS

KKA

KP LQ

MQR

T

Series KM

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

Suffix "-X17" to the end of part number.

Example) KM11-03-09-10-X17

2 Other Specifications

Symbol	Specifications					
X2 Copper-free (With electroless nickel plated)						
X12	Lubricant: White Vaseline Release button color: White					
X34 Rubber material: FKM						

Suffix "-X2" to the end of part number. Exampe) KM12-03-35-6-X2