

# Inch size One-touch Fittings Manifold

## *KM Series*

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

Model	Porting		No. of Port A	Port B size	Port A size		
	Port A	Port B			$\phi 5/32"$	$\phi 1/4"$	$\phi 5/16"$
KM11	One-touch fitting	One-touch fitting	6, 10	$\phi 5/16"$	●		
				$\phi 3/8"$		●	
				$\phi 1/2"$			●
KM12	One-touch fitting	NPT thread	6, 10	NPT $1/4$	●	●	
				NPT $3/8$			●

### Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon <sup>(1)</sup> , Polyurethane
Tubing O.D.	$\phi 5/32"$ , $\phi 1/4"$ , $\phi 5/16"$ , $\phi 3/8"$ , $\phi 1/2"$

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

### Specifications

Model	KM11	KM12
Fluid	Air/Water <sup>(2)</sup>	
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/ASME B1.20.1-1983 (NPT thread)

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



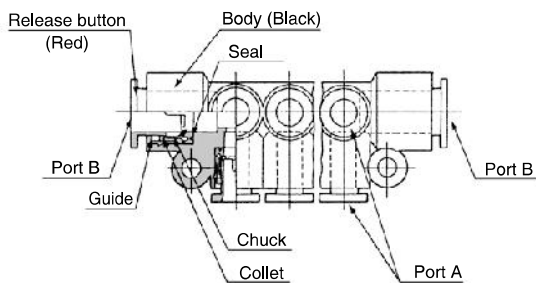
**Made to Order**  
(Refer to page 174 for details.)

### Principal Parts Material

Model	KM11	KM12
Body	PBT	
Stud	—	C3604
Chuck	Stainless steel 304	
Guide	Stainless steel 304, C3604	
Collet, Release button	POM	
Seal, O-ring	NBR	

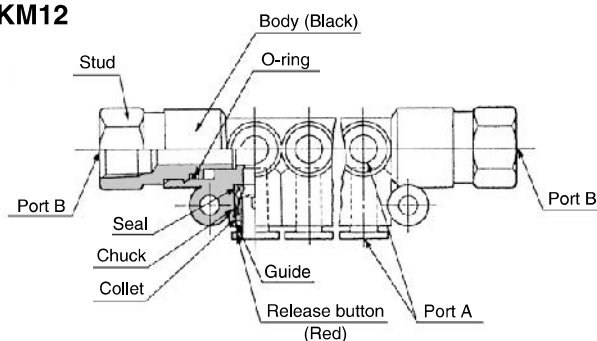
### Construction

#### KM11



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

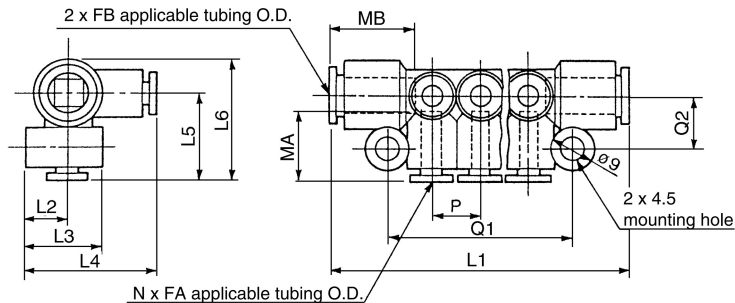
#### KM12



Port A: One-touch fitting  
Port B: NPT female thread

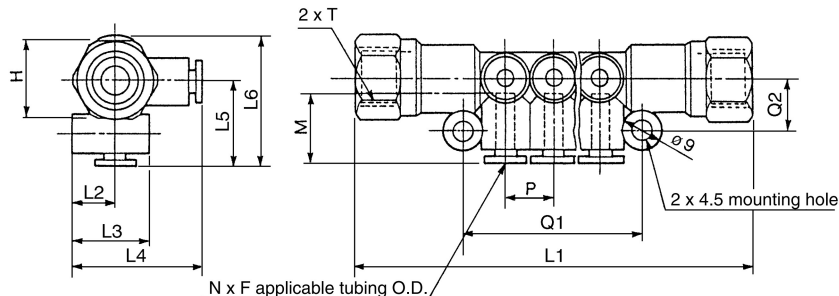
## Dimensions

### KM11



Applicable tubing O.D. (inch)		Model	N	L1	L2	L3	L4	L5	L6	P	Q1	Q2	MA	MB	Port B Min. port size	Weight (g)
FA	FB															
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	19
		KM11-03-09-10	10	86							61.5					26
1/4	3/8	KM11-07-11-6	6	77.8	10	19.5	31.5	21.5	30.5	13.2	48	13	17	21	7	30
		KM11-07-11-10	10	104							73.5					40
5/16	1/2	KM11-09-13-6	6	85	12.7	23.7	37.7	25	35.9	15.2	52.8	15	18.5	22	9.5	41
		KM11-09-13-10	10	115							83					57

### KM12



Applicable tubing O.D. F (inch)	T Connection thread NPT	Model	N	H (Width across flats)	L1	L2	L3	L4	L5	L6	P	Q1	Q2	M	Port B Min. port size	Weight (g)
5/32	1/4	KM12-03-35-6	6	17.46	87	10	18	29.5	19.5	29	10.6	40	12	16	6	65
		KM12-03-35-10	10		110							61.5				72
1/4	1/4	KM12-07-35-6	6	17.46	95	10	19.5	31.5	21.5	31.25	13.2	48	13	17	7	82
		KM12-07-35-10	10		121							73.5				92
5/16	3/8	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
		KM12-09-36-10	10		132							83				112

[Click here for applicable color caps.](#)

## Handling of One-touch Fittings

### ⚠ Caution

Refer to pages 13 to 17 for "Fittings & Tubing Precautions" for the details of installation/removal of One-touch fittings.

KQ2

KQ82

KS  
KX

**KM**

KF

M

H/DL  
L/LL

KC

KK

KK130

DM

KDM

KB

KR

KA

KQG2

KG

KFG2

MS

KKA

KP

LQ

MQR

T

IDK