

# Series Variations

General Purpose Fittings Series

## Fittings

One-touch connection and release  
Possible to use in vacuum to -100 kPa

Sealant/Gasket seal

Metric size tubing/M, R, Rc thread connection

### One-touch Fittings

**KQ2 Series** Oval Type Round Type



Face seal

Metric size tubing/G thread connection

### One-touch Fittings

**KQ2 Series** Oval Type Round Type



Face seal

Metric size tubing/R, Rc thread connection

### One-touch Fittings

**KQ2 Series** Oval Type Round Type



Sealant/Gasket seal

Inch size tubing/UNF, NPT thread connection

### One-touch Fittings

**KQ2 Series** Oval Type Round Type



Sealant/Gasket seal

Inch size tubing/M, R, Rc thread connection

### One-touch Fittings

**KQ2 Series** Oval Type Round Type



Face seal

Inch size/NPT thread connection

### One-touch Fittings

**KQ2 Series** Oval Type Round Type



Face seal

Inch size/R thread connection

### One-touch Fittings

**KQ2 Series** Oval Type Round Type



Applicable tubing material	Applicable tubing O.D. (mm)							With seal	Electrical insulator tubing	Page	
	ø2	ø3.2	ø4	ø6	ø8	ø10	ø12				ø16
FEP	●	●	●	●	●	●	●	●	●	35 136	
M3	●	●	●	●	●	●	●	●	●		
M5	●	●	●	●	●	●	●	●	●		
M6	●	●	●	●	●	●	●	●	●		
Nylon	●	●	●	●	●	●	●	●	●		
1/8	●	●	●	●	●	●	●	●	●		
Soft nylon	●	●	●	●	●	●	●	●	●	92 202	
3/8	●	●	●	●	●	●	●	●	●		
1/2	●	●	●	●	●	●	●	●	●		
Unions	●	●	●	●	●	●	●	●	●		
Polyurethane	●	●	●	●	●	●	●	●	●		
FEP	●	●	●	●	●	●	●	●	●		100 210
1/8	●	●	●	●	●	●	●	●	●		
PFA	●	●	●	●	●	●	●	●	●		
1/4	●	●	●	●	●	●	●	●	●		
Nylon	●	●	●	●	●	●	●	●	●		
3/8	●	●	●	●	●	●	●	●	●		
Soft nylon	●	●	●	●	●	●	●	●	●	64 168	
1/2	●	●	●	●	●	●	●	●	●		
Unions	●	●	●	●	●	●	●	●	●		
Polyurethane	●	●	●	●	●	●	●	●	●		
FEP	●	●	●	●	●	●	●	●	●		84 194
1/8	●	●	●	●	●	●	●	●	●		
PFA	●	●	●	●	●	●	●	●	●		
1/4	●	●	●	●	●	●	●	●	●		
Nylon	●	●	●	●	●	●	●	●	●		
3/8	●	●	●	●	●	●	●	●	●		
Soft nylon	●	●	●	●	●	●	●	●	●	108 222	
1/2	●	●	●	●	●	●	●	●	●		
Unions	●	●	●	●	●	●	●	●	●		
Polyurethane	●	●	●	●	●	●	●	●	●		
FEP	●	●	●	●	●	●	●	●	●		116 232
1/8	●	●	●	●	●	●	●	●	●		
PFA	●	●	●	●	●	●	●	●	●		
1/4	●	●	●	●	●	●	●	●	●		
Nylon	●	●	●	●	●	●	●	●	●		
3/8	●	●	●	●	●	●	●	●	●		
Soft nylon	●	●	●	●	●	●	●	●	●	64 168	
1/2	●	●	●	●	●	●	●	●	●		
Unions	●	●	●	●	●	●	●	●	●		
Polyurethane	●	●	●	●	●	●	●	●	●		
FEP	●	●	●	●	●	●	●	●	●		84 194
M5	●	●	●	●	●	●	●	●	●		
1/8	●	●	●	●	●	●	●	●	●		
PFA	●	●	●	●	●	●	●	●	●		
1/4	●	●	●	●	●	●	●	●	●		
Nylon	●	●	●	●	●	●	●	●	●		
3/8	●	●	●	●	●	●	●	●	●	108 222	
1/2	●	●	●	●	●	●	●	●	●		
Unions	●	●	●	●	●	●	●	●	●		
Polyurethane	●	●	●	●	●	●	●	●	●		
FEP	●	●	●	●	●	●	●	●	●		116 232
1/8	●	●	●	●	●	●	●	●	●		
PFA	●	●	●	●	●	●	●	●	●		
1/4	●	●	●	●	●	●	●	●	●		
Nylon	●	●	●	●	●	●	●	●	●		
3/8	●	●	●	●	●	●	●	●	●		
Soft nylon	●	●	●	●	●	●	●	●	●	64 168	
1/2	●	●	●	●	●	●	●	●	●		
Unions	●	●	●	●	●	●	●	●	●		
Polyurethane	●	●	●	●	●	●	●	●	●		

■ Oval type/Round type ● Round type

**Fittings**

Male thread for piping that drastically reduces the screw-in time

Metric size tubing/Rc, G, NPT, NPTF

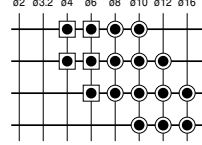
**Uni One-touch Fittings**  
**KQ2 Series** Oval Type Round Type



Applicable tubing material

- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane

Applicable tubing O.D. (mm)



With seal  
Electrical  
nickel plating

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Male thread for piping that drastically reduces the screw-in time

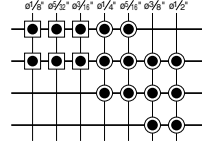
Inch size tubing/Rc, G, NPT, NPTF

**Uni One-touch Fittings**  
**KQ2 Series** Oval Type Round Type



- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane

Applicable tubing O.D. (inch)



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Body material: Brass (Nickel plating), Stainless steel 316  
Release button: Stainless steel 304

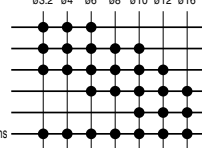
**Metal One-touch Fittings**  
**KQB2 Series**



Applicable tubing: Metric size/M, R, Rc thread connection

- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane
- Polyolefin
- Unions

Applicable tubing O.D. (mm)



Page

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Body material: Brass (Nickel plating), Stainless steel 316  
Release button: Stainless steel 304

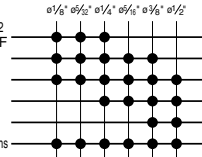
**Metal One-touch Fittings**  
**KQB2 Series**



Applicable tubing: Inch size/UNF, NPT thread connection

- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane
- Polyolefin
- Unions

Applicable tubing O.D. (inch)



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Body material: Brass (Nickel plating), Stainless steel 316  
Release button: Stainless steel 304

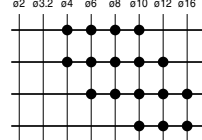
**Metal One-touch Fittings**  
**KQB2 Series**



Applicable tubing: Metric size/G thread connection

- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane
- Polyolefin

Applicable tubing O.D. (mm)



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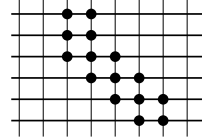
Low torque rotation type rotary One-touch fittings

**Rotary One-touch Fittings**  
**KS Series/Standard Type**  
**KX Series/High Speed Type**



Applicable tubing: Metric size

- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane



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□ Oval type/Round type ● Round type

# Series Variations

General Purpose Fittings Series

## Fittings

Low torque rotation type rotary One-touch fittings

### Rotary One-touch Fittings KS Series/Standard Type

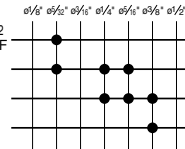
Applicable tubing: Inch size/UNF, NPT thread connection



Applicable tubing material

- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane

Applicable tubing O.D. (inch)



With seal  
Electrical  
nickel plating

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One-touch connection and release  
Compact manifold piping possible

### One-touch Fittings Manifold KM Series

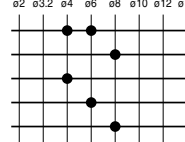
Applicable tubing: Metric size



Applicable tubing material

- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane

Applicable tubing O.D. (mm)



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One-touch connection and release  
Compact manifold piping possible

### One-touch Fittings Manifold KN Series

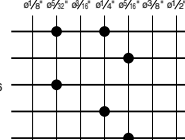
Applicable tubing: Inch size/NPT thread connection



Applicable tubing material

- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane

Applicable tubing O.D. (inch)

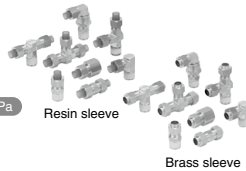


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Possible to use in vacuum to 1.0 MPa

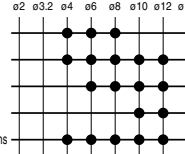
### Insert Fittings KF Series

Applicable tubing: Metric size For ø2 tubing



- Nylon
- Soft nylon
- Polyurethane
- Polyolefin
- Soft polyolefin
- FEP
- Super PFA
- Modified PTFE

Applicable tubing O.D. (mm)



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Compact and non-tool connection

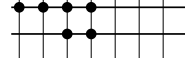
### Miniature Fittings M Series

Applicable tubing: Metric size



- FEP
- Modified PTFE
- Nylon
- Soft nylon
- Polyurethane
- Super PFA

Applicable tubing O.D. (mm)



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Applicable for use on soft copper steel pipe

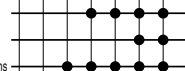
### Self-align Fittings H/DL/L/LL Series

Applicable tubing: Metric size



- Nylon
- Soft nylon
- Soft copper (C1220T-0)
- Unions

Applicable tubing O.D. (mm)



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One-touch connection and release  
Built-in self-seal mechanism

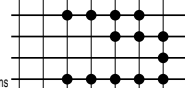
### Self-seal Fittings KC Series

Applicable tubing: Metric size



- Nylon
- Soft nylon
- Polyurethane
- Unions

Applicable tubing O.D. (mm)



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Fittings

Compact with large flow rate

S Couplers  
KK Series



Super high impact PBT

S Couplers  
KKH Series



Metal body/Energy saving

S Couplers  
KK130 Series



One-touch installation and removal of multi-tubes

Multi-connector  
DM Series



Applicable tubing: Metric size

One-touch installation and removal of multi-tubes

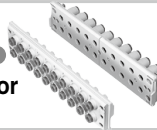
Multi-connector with One-touch fittings  
DMK Series



Applicable tubing: Metric size

One-touch installation and removal of multi-tubes

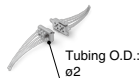
Rectangular Multi-connector  
KDM Series



Applicable tubing: Metric size

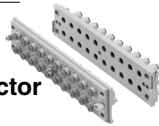
Made to Order

Tubing O.D.	No. of connecting tubes
ø2	6



One-touch installation and removal of multi-tubes

Rectangular Multi-connector  
KDM Series



Applicable tubing: Inch size

Applicable tubing material	Applicable tubing O.D. (mm/inch)	With seal	Electrical insulator plating	Page
R Rc	M5 1/8 1/4 3/8 1/2 3/4	•	•	329
	Applicable hose I.D./O.D.	•	•	
	•	•	•	
	•	•	•	
R Rc	1/8 1/4 3/8 1/2	•	•	340
	Applicable hose I.D./O.D.	•	•	
	•	•	•	
	•	•	•	
R Rc	1/8 1/4 3/8 1/2	•	•	345
	Applicable hose size (inch)	•	•	
	Barb fitting type	•	•	
	Nut fitting type	•	•	
	One-touch fitting type	•	•	

Applicable tubing material	Applicable tubing O.D. (mm)	With seal	Electrical insulator plating	Page
Nylon Soft nylon Polyurethane	ø2 ø3.2 ø4 ø6 ø8 ø10 ø12 ø16	•	•	354
	•	•		
Nylon Soft nylon Polyurethane	ø2 ø3.2 ø4 ø6 ø8 ø10 ø12 ø16	•	•	358
	•	•		
FEP PFA Nylon Soft nylon Polyurethane	ø2 ø3.2 ø4 ø6 ø8 ø10 ø12 ø16	•	•	361
	•	•		
	•	•		
	•	•		

Applicable tubing material	Applicable tubing O.D. (inch)	With seal	Electrical insulator plating	Page
FEP PFA Nylon Soft nylon Polyurethane	ø1/8 ø1/2" ø1/4" ø1/2" ø3/8" ø1/2"	•	•	367
	•	•		





# Series Variations

Fittings Series for Special Environments

## Fittings

FDA compliant materials

### EHDG Compliant Fittings KFG2H□-E Series



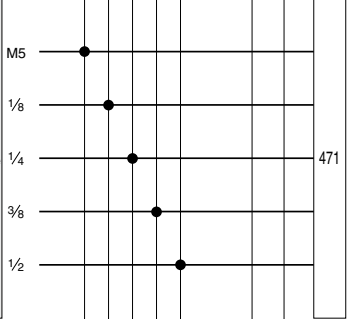
Applicable tubing: Metric size/M, G thread connection

Applicable tubing material

- FEP
- PFA
- Modified PTFE
- 2-layer soft fluoropolymer
- Nylon
- Soft nylon
- Polyurethane
- Soft polyurethane
- Polyolefin
- Soft polyolefin
- Antistatic soft nylon
- Antistatic polyurethane
- Hard polyurethane

Applicable tubing O.D. (mm)

ø4 ø6 ø8 ø10 ø12



With seal  
Electronics (metal parts)

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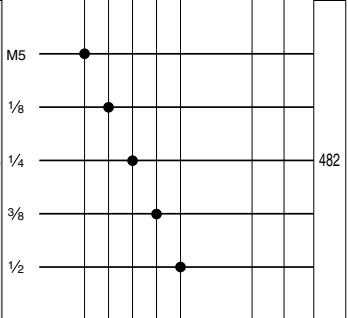
FDA compliant materials

### Clean Design Fittings KFG2H□-C Series



Applicable tubing: Metric size/M, G thread connection

- FEP
- PFA
- Modified PTFE
- 2-layer soft fluoropolymer
- Nylon
- Soft nylon
- Polyurethane
- Soft polyurethane
- Polyolefin
- Soft polyolefin
- Antistatic soft nylon
- Antistatic polyurethane
- Hard polyurethane



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FDA compliant materials

### FDA Compliant Fittings Stainless Steel 316 One-touch Fittings KQG2-F Series

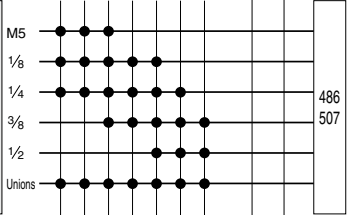


### Metal One-touch Fittings KQB2-F Series

Applicable tubing: Metric size/M, R, Rc thread connection

- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane
- Polyolefin
- Unions

ø3.2 ø4 ø6 ø8 ø10 ø12 ø16



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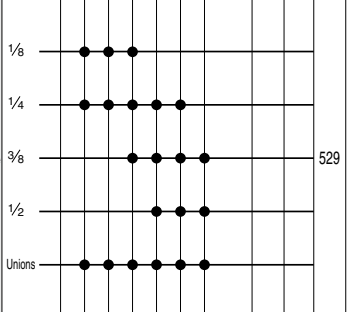
507

### Stainless Steel 316 Insert Fittings KFG2-F Series



Applicable tubing: Metric size/M, R, Rc thread connection

- FEP
- PFA
- Modified PTFE
- 2-layer soft fluoropolymer
- Nylon
- Soft nylon
- Polyurethane
- Soft polyurethane
- Polyolefin
- Soft polyolefin
- Antistatic soft nylon
- Antistatic polyurethane
- Hard polyurethane
- Unions



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## Fittings

FDA compliant materials

### FDA Compliant Fittings

Stainless Steel 316 One-touch Fittings

#### KQG2-F Series

Metal One-touch Fittings

#### KQB2-F Series

Applicable tubing: Inch size/UNF, NPT thread connection



Applicable tubing material

FEP  
PFA  
Nylon  
Soft nylon  
Polyurethane  
Polyolefin

Applicable tubing O.D. (inch)

	ø1/8"	ø3/16"	ø1/4"	ø5/16"	ø3/8"	ø1/2"
10-32 UNF	●	●	●	●	●	●
1/8"	●	●	●	●	●	●
1/4"	●	●	●	●	●	●
3/8"	●	●	●	●	●	●
1/2"	●	●	●	●	●	●
Unions	●	●	●	●	●	●

With seal  
Electrical  
nickel plating

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### Stainless Steel 316 Insert Fittings

#### KFG2-F Series

Applicable tubing: Inch size/UNF, NPT thread connection



FEP  
PFA  
Modified PTFE  
Nylon  
Soft nylon  
Polyurethane  
Soft polyurethane  
Polyolefin  
Soft polyolefin  
Antistatic soft nylon  
Antistatic polyurethane  
Hard polyurethane

Applicable tubing O.D. (mm)

	ø4	ø6	ø8	ø10	ø12	ø16
1/8"	●	●	●	●	●	●
1/4"	●	●	●	●	●	●
3/8"	●	●	●	●	●	●
1/2"	●	●	●	●	●	●
Unions	●	●	●	●	●	●

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FDA compliant materials

### FDA Compliant Fittings

Stainless Steel 316 One-touch Fittings

#### KQG2-F Series

Metal One-touch Fittings

#### KQB2-F Series

Applicable tubing: Metric size/G thread connection



FEP  
PFA  
Nylon  
Soft nylon  
Polyurethane  
Polyolefin

FEP  
PFA  
Modified PTFE  
2-layer soft fluoropolymer  
Nylon  
Soft nylon  
Polyurethane  
Soft polyurethane  
Polyolefin  
Soft polyolefin  
Antistatic soft nylon  
Antistatic polyurethane  
Hard polyurethane

	1/8"	1/4"	3/8"	1/2"	Unions
FEP	●	●	●	●	●
PFA	●	●	●	●	●
Nylon	●	●	●	●	●
Soft nylon	●	●	●	●	●
Polyurethane	●	●	●	●	●
Unions	●	●	●	●	●

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Improved weather resistance in outdoor environments

### One-touch Fittings with Improved Weather Resistance

#### KQ-X1744 Series

Applicable tubing: Metric size/R thread connection





# Series Variations

Fittings Series for Special Environments

## Fittings

For use in clean room blowing

### Clean One-touch Fittings KP Series



Applicable tubing material

- Polyolefin
- Soft Polyolefin
- PFA
- Polyurethane

Applicable tubing O.D. (mm)

- ø3.2 ø4 ø6 ø8 ø10 ø12 ø16

With seal  
Elastomer  
nickel plating

Page

	ø3.2	ø4	ø6	ø8	ø10	ø12	ø16	
1/8	●	●	●	●	●	●	●	559
1/4	●	●	●	●	●	●	●	
3/8	●	●	●	●	●	●	●	
1/2	●	●	●	●	●	●	●	
Unions	●	●	●	●	●	●	●	
M5	●	●	●	●	●	●	●	566
1/8	●	●	●	●	●	●	●	
1/4	●	●	●	●	●	●	●	
3/8	●	●	●	●	●	●	●	
1/2	●	●	●	●	●	●	●	
Unions	●	●	●	●	●	●	●	

For driving air piping in clean room

### Clean One-touch Fittings KPQ/KPG Series



PFA

- Polyurethane

Material: NEW PFA

### Fluoropolymer Fittings Hyper Fitting LQ1 Series



Applicable tubing material

Fluoropolymer tubing

Tubing O.D.	
Metric size (mm)	Inch size (Inch)
ø3 ø4 ø6 ø8 ø10 ø12 ø19 ø25	ø1/4" ø3/8" ø1/2" ø3/4" ø1" ø1 1/4"

1/8	●	●	●	●	●	●	●	●	●	573
1/4	●	●	●	●	●	●	●	●	●	
3/8	●	●	●	●	●	●	●	●	●	
1/2	●	●	●	●	●	●	●	●	●	
3/4	●	●	●	●	●	●	●	●	●	
1	●	●	●	●	●	●	●	●	●	
Unions	●	●	●	●	●	●	●	●	●	

Material: NEW PFA

### Fluoropolymer Fittings Hyper Fitting/Flare Type LQ3 Series



Fluoropolymer tubing

1/8	●	●	●	●	●	●	●	●	●	626
1/4	●	●	●	●	●	●	●	●	●	
3/8	●	●	●	●	●	●	●	●	●	
1/2	●	●	●	●	●	●	●	●	●	
3/4	●	●	●	●	●	●	●	●	●	
1	●	●	●	●	●	●	●	●	●	
1 1/4	●	●	●	●	●	●	●	●	●	
Unions	●	●	●	●	●	●	●	●	●	

Material: NEW PFA

### Fluoropolymer Bore Through Connector LQHB Series

Fluoropolymer tubing

1	●	●	●	●	●	●	●	●	●	652
2	●	●	●	●	●	●	●	●	●	
3	●	●	●	●	●	●	●	●	●	
4	●	●	●	●	●	●	●	●	●	
5	●	●	●	●	●	●	●	●	●	
6	●	●	●	●	●	●	●	●	●	

Air supply to rotary/pivot shafts of turntables and robot arms

### Low Torque Rotary Joint MQR Series



Model	
MQR1	-M5
MQR2	
MQR4	
MQR8	
MQR12	
MQR16	

No. of circuits (No. of ports)
1
2
4
8
12
16

Rubber Seal  
Rotary Joint



657  
667

## Clean Series Fittings

For details, refer to the Web Catalog.