

# 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 tube/M, R, Rc thread connection

### One-touch Fittings

#### KQ2 Series

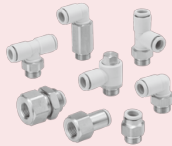


Face seal

Metric size tube/G thread connection

### One-touch Fittings

#### KQ2 Series



Face seal

Metric size tube/R, Rc thread connection

### One-touch Fittings

#### KQ2 Series



Sealant/Gasket seal

Inch-size tube/UNF, NPT thread connection

### One-touch Fittings

#### KQ2 Series



Sealant/Gasket seal

Inch-size tube/M, R, Rc thread connection

### One-touch Fittings

#### KQ2 Series

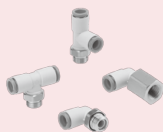


Face seal

Inch-size/NPT thread connection

### One-touch Fittings

#### KQ2 Series



Face seal

Inch-size/R thread connection

### One-touch Fittings

#### KQ2 Series



Applicable tubing material

Applicable tubing O.D. (mm)

With seal  
Electroless nickel plated

Page

Material	o2	o3.2	o4	o6	o8	o10	o12	o16	With seal	Electroless nickel plated	Page
FEP	●	●	●	●	●	●	●	●	▲	▲	21
M5	●	●	●	●	●	●	●	●	▲	▲	
PFA	●	●	●	●	●	●	●	●	▲	▲	
Nylon	●	●	●	●	●	●	●	●	▲	▲	
Soft nylon	●	●	●	●	●	●	●	●	▲	▲	
Polyurethane	●	●	●	●	●	●	●	●	▲	▲	
Unions	●	●	●	●	●	●	●	●	▲	▲	

FEP	●	●	●	●	●	●	●	●	▲	▲	88
PFA	●	●	●	●	●	●	●	●	▲	▲	
Nylon	●	●	●	●	●	●	●	●	▲	▲	
Soft nylon	●	●	●	●	●	●	●	●	▲	▲	
Polyurethane	●	●	●	●	●	●	●	●	▲	▲	
Unions	●	●	●	●	●	●	●	●	▲	▲	

FEP	●	●	●	●	●	●	●	●	▲	▲	96
PFA	●	●	●	●	●	●	●	●	▲	▲	
Nylon	●	●	●	●	●	●	●	●	▲	▲	
Soft nylon	●	●	●	●	●	●	●	●	▲	▲	
Polyurethane	●	●	●	●	●	●	●	●	▲	▲	
Unions	●	●	●	●	●	●	●	●	▲	▲	

Applicable tubing O.D. (inch)

Material	10-32	UNF	o1/8	o1/2	o3/8	o1/4	o1/2	o3/8	o1/2	With seal	Electroless nickel plated	Page
FEP	●	●	●	●	●	●	●	●	●	▲	▲	56
UNF	●	●	●	●	●	●	●	●	●	▲	▲	
PFA	●	●	●	●	●	●	●	●	●	▲	▲	
Nylon	●	●	●	●	●	●	●	●	●	▲	▲	
Soft nylon	●	●	●	●	●	●	●	●	●	▲	▲	
Polyurethane	●	●	●	●	●	●	●	●	●	▲	▲	
Unions	●	●	●	●	●	●	●	●	●	▲	▲	

FEP	●	●	●	●	●	●	●	●	●	▲	▲	80
M5	●	●	●	●	●	●	●	●	●	▲	▲	
PFA	●	●	●	●	●	●	●	●	●	▲	▲	
Nylon	●	●	●	●	●	●	●	●	●	▲	▲	
Soft nylon	●	●	●	●	●	●	●	●	●	▲	▲	
Polyurethane	●	●	●	●	●	●	●	●	●	▲	▲	
Unions	●	●	●	●	●	●	●	●	●	▲	▲	

FEP	●	●	●	●	●	●	●	●	●	▲	▲	108
1/16	●	●	●	●	●	●	●	●	●	▲	▲	
PFA	●	●	●	●	●	●	●	●	●	▲	▲	
Nylon	●	●	●	●	●	●	●	●	●	▲	▲	
Soft nylon	●	●	●	●	●	●	●	●	●	▲	▲	
Polyurethane	●	●	●	●	●	●	●	●	●	▲	▲	
Unions	●	●	●	●	●	●	●	●	●	▲	▲	

FEP	●	●	●	●	●	●	●	●	●	▲	▲	118
1/8	●	●	●	●	●	●	●	●	●	▲	▲	
PFA	●	●	●	●	●	●	●	●	●	▲	▲	
Nylon	●	●	●	●	●	●	●	●	●	▲	▲	
Soft nylon	●	●	●	●	●	●	●	●	●	▲	▲	
Polyurethane	●	●	●	●	●	●	●	●	●	▲	▲	
Unions	●	●	●	●	●	●	●	●	●	▲	▲	

▲ Option

### Fittings

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

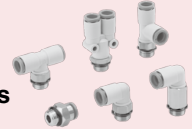
#### Uni One-touch Fittings KQ2 Series



Applicable tubing material	FEP PFA Nylon Soft nylon Polyurethane	1/8 1/4 3/8 1/2	Applicable tubing O.D. (mm)							With seal	Electrically nonconductive (nickel plated)	Page
			ø2	ø3.2	ø4	ø6	ø8	ø10	ø12			
				●	●	●	●	●	●	●	●	124

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

#### Uni One-touch Fittings KQ2 Series



Applicable tubing material	FEP PFA Nylon Soft nylon Polyurethane	1/8 1/4 3/8 1/2	Applicable tubing O.D. (inch)							With seal	Electrically nonconductive (nickel plated)	Page
			ø1/8	ø1/2	ø1/4	ø1/2	ø3/8	ø1/2	ø1/2			
			●	●	●	●	●	●	●	●	●	132

Body material: Brass (nickel plated), Stainless steel 316  
Release button: Stainless steel 304

#### Metal One-touch Fittings KQB2 Series



Applicable tubing—Metric size M, R, Rc thread connection

Applicable tubing material	FEP PFA Nylon Soft nylon Polyurethane Polyolefin Unions	M5 1/8 1/4 3/8 1/2	Applicable tubing O.D. (mm)							With seal	Electrically nonconductive (nickel plated)	Page
			ø3.2	ø4	ø6	ø8	ø10	ø12	ø16			
			●	●	●	●	●	●	●	●	●	139

Body material: Brass (nickel plated), Stainless steel 316  
Release button: Stainless steel 304

#### Metal One-touch Fittings KQB2 Series



Applicable tubing—Inch size UNF, NPT thread connection

Applicable tubing material	FEP PFA Nylon Soft nylon Polyurethane Polyolefin Unions	10-32 UNF 1/8 1/4 3/8 1/2	Applicable tubing O.D. (inch)							With seal	Electrically nonconductive (nickel plated)	Page
			ø1/8	ø1/2	ø1/4	ø1/2	ø3/8	ø1/2	ø1/2			
			●	●	●	●	●	●	●	●	●	149

Body material: Brass (nickel plated), Stainless steel 316  
Release button: Stainless steel 304

#### Metal One-touch Fittings KQB2 Series



Applicable tubing—Metric size G thread connection

Applicable tubing material	FEP PFA Nylon Soft nylon Polyurethane Polyolefin	1/8 1/4 3/8 1/2	Applicable tubing O.D. (mm)							With seal	Electrically nonconductive (nickel plated)	Page
			ø2	ø3.2	ø4	ø6	ø8	ø10	ø12			
			●	●	●	●	●	●	●	●	●	155

Low-torque rotation type

#### Rotary One-touch Fittings KS Series (Standard) KX Series (High speed)



Applicable tubing—Metric size

Applicable tubing material	FEP PFA Nylon Soft nylon Polyurethane	M5 M6 1/8 1/4 3/8 1/2	Applicable tubing O.D. (mm)							With seal	Electrically nonconductive (nickel plated)	Page
			ø2	ø3.2	ø4	ø6	ø8	ø10	ø12			
			●	●	●	●	●	●	●	●	●	160

▲ Option

# Series Variations

General Purpose Fittings Series

## Fittings

Low-torque rotation type

### Rotary One-touch Fittings KS Series (Standard)

Applicable tubing—Inch size UNF, NPT thread connection

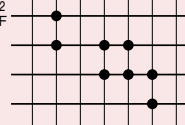


Applicable tubing material

- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane

Applicable tubing O.D. (inch)

- ø1/8
- ø1/8
- ø1/4
- ø1/4
- ø3/8
- ø1/2



With seal  
Electroless 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

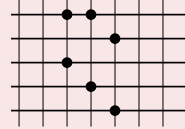


Applicable tubing material

- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane

Applicable tubing O.D. (mm)

- ø2
- ø3.2
- ø4
- ø6
- ø8
- ø10
- ø12
- ø16



With seal  
Electroless nickel plating

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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

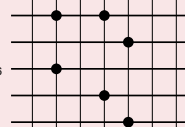


Applicable tubing material

- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane

Applicable tubing O.D. (inch)

- ø1/8
- ø1/8
- ø1/4
- ø1/4
- ø3/8
- ø1/2



With seal  
Electroless nickel plating

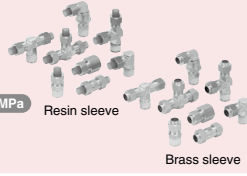
Page

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Possible to use in vacuum to 1.0 MPa

### Insert Fittings KF Series

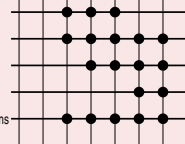
Applicable tubing—Metric size



- Nylon
- Soft nylon
- Polyurethane
- Polyolefin
- Soft polyolefin
- FEP
- Super PFA
- Denatured PTFE
- Unions

Applicable tubing O.D. (mm)

- ø2
- ø3.2
- ø4
- ø6
- ø8
- ø10
- ø12
- ø16



With seal  
Electroless nickel plating

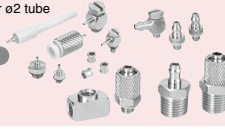
Page

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Compact and non-tool connection

### Miniature Fittings M Series

Applicable tubing—Metric size



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

Applicable tubing O.D. (mm)

- M3
- M5
- M5
- 1/8



With seal  
Electroless nickel plating

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Applicable for use on soft copper steel pipe

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

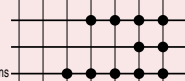
Applicable tubing—Metric size



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

Applicable tubing O.D. (mm)

- 1/8
- 1/4
- 3/8
- 1/2
- Unions



With seal  
Electroless nickel plating

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

### Self-seal Fittings KC Series

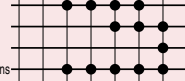
Applicable tubing—Metric size



- Nylon
- Soft nylon
- Polyurethane
- Unions

Applicable tubing O.D. (mm)

- M5
- 1/8
- 1/4
- 3/8
- 1/2
- Unions



With seal  
Electroless nickel plating

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### Fittings

Compact with large flow rate

#### S Couplers KK Series



Super high impact PBT

#### S Couplers KKH Series



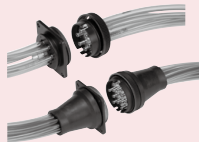
Metal body/Energy saving

#### 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

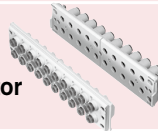
#### Multi-connector with One-touch fittings DMK Series



Applicable tubing—Metric size

One-touch installation and removal of multi-tubes

#### Rectangular Multi-connector KDM Series



Applicable tubing—Metric size

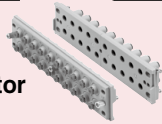
#### Made to Order

Tubing O.D.	No. of connecting tubes
ø2	6
ø10	6/10/20
ø12	6/10/20



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	Electroless nickel plated	Page
	M5	1/8	1/4	3/8	1/2	3/4			
Male thread type	R	•	•	•	•	•	•	•	213
Female thread type	Rc	•	•	•	•	•	•	•	
Nut fitting type		•	•	•	•	•	•	•	
One-touch fitting type		•	•	•	•	•	•	•	
Applicable hose (I.D./O.D.)		5 x 8	6 x 9	6.5 x 10	8 x 12	8.5 x 12.5	11 x 16		
		ø3.2	ø4	ø6	ø8	ø10	ø12	ø16	
Male thread type	R	•	•	•	•	•	•	•	224
Female thread type	Rc	•	•	•	•	•	•	•	
Nut fitting type		•	•	•	•	•	•	•	
Applicable hose (I.D./O.D.)		5 x 8	6 x 9	6.5 x 10	8 x 12	8.5 x 12.5			
Male thread type	R	•	•	•	•	•	•	•	231
Female thread type	Rc	•	•	•	•	•	•	•	
Nut fitting type		•	•	•	•	•	•	•	
Applicable hose size (inch)		1/4	1/4	3/8	1/2				
Applicable hose (I.D./O.D.)		5 x 8	6 x 9	6.5 x 10	8 x 12	8.5 x 12.5	11 x 16		
Barb fitting type		•	•	•	•	•	•	•	
One-touch fitting type		•	•	•	•	•	•	•	
		ø6	ø8	ø10	ø12				

Applicable tubing material	Applicable tubing O.D. (mm)										Page
	ø2	ø3.2	ø4	ø6	ø8	ø10	ø12	ø16			
Nylon	•	•	•	•	•	•	•	•	•	•	244
Soft nylon	•	•	•	•	•	•	•	•	•	•	
Polyurethane	•	•	•	•	•	•	•	•	•	•	
Nylon	•	•	•	•	•	•	•	•	•	•	248
Soft nylon	•	•	•	•	•	•	•	•	•	•	
Polyurethane	•	•	•	•	•	•	•	•	•	•	
FEP	•	•	•	•	•	•	•	•	•	•	251
PFA	•	•	•	•	•	•	•	•	•	•	
Nylon	•	•	•	•	•	•	•	•	•	•	
Soft nylon	•	•	•	•	•	•	•	•	•	•	
Polyurethane	•	•	•	•	•	•	•	•	•	•	

Applicable tubing material	Applicable tubing O.D. (inch)								Page
	ø1/8	ø1/4	ø1/2	ø3/4	ø1	ø1 1/4	ø1 1/2	ø2	
FEP	•	•	•	•	•	•	•	•	259
PFA	•	•	•	•	•	•	•	•	
Nylon	•	•	•	•	•	•	•	•	
Soft nylon	•	•	•	•	•	•	•	•	
Polyurethane	•	•	•	•	•	•	•	•	

KQ2

KQB2

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

# Series Variations

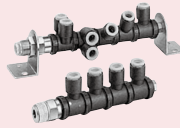
General Purpose Fittings Series

## Fittings

Centralized distribution of supply air

### Piping Module KB Series

Applicable tubing—Metric size



Applicable tubing material
FEP
PFA
Nylon
Soft nylon
Polyurethane

Applicable tubing O.D. (mm)	With seal	Electroless nickel plated	Page														
<table border="1"> <tr><th>ø3.2</th><th>ø4</th><th>ø6</th><th>ø8</th><th>ø10</th><th>ø12</th><th>ø16</th></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> </table>	ø3.2	ø4	ø6	ø8	ø10	ø12	ø16	•	•	•	•	•	•	•	•	•	263
ø3.2	ø4	ø6	ø8	ø10	ø12	ø16											
•	•	•	•	•	•	•											

For use where weld spatter is generated.  
Flame resistant material UL-94 standard V-0

### FR One-touch Fittings KR-W2 Series

Applicable tubing—Metric size



FR Soft nylon
1/8
1/4
3/8
1/2
Unions

<table border="1"> <tr><th>1/8</th><th>1/4</th><th>3/8</th><th>1/2</th></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td></tr> </table>	1/8	1/4	3/8	1/2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	274
1/8	1/4	3/8	1/2																								
•	•	•	•																								
•	•	•	•																								
•	•	•	•																								
•	•	•	•																								
•	•	•	•																								

For use where weld spatter is generated.  
Flame resistant material UL-94 standard V-0

### FR One-touch Fittings Manifold KRM Series

Applicable tubing—Metric size



FR Soft nylon
1/4
3/8
ø10
ø12
FR double layer

<table border="1"> <tr><th>1/4</th><th>3/8</th><th>ø10</th><th>ø12</th></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td></tr> </table>	1/4	3/8	ø10	ø12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	281
1/4	3/8	ø10	ø12																				
•	•	•	•																				
•	•	•	•																				
•	•	•	•																				
•	•	•	•																				

For preventing static electricity

### Antistatic One-touch Fittings KA Series



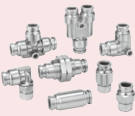
Antistatic soft nylon
M5
M6
1/8
1/4
3/8
1/2
Unions

<table border="1"> <tr><th>M5</th><th>M6</th><th>1/8</th><th>1/4</th><th>3/8</th><th>1/2</th></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> </table>	M5	M6	1/8	1/4	3/8	1/2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	283
M5	M6	1/8	1/4	3/8	1/2																																		
•	•	•	•	•	•																																		
•	•	•	•	•	•																																		
•	•	•	•	•	•																																		
•	•	•	•	•	•																																		
•	•	•	•	•	•																																		

All stainless steel 316 except seal parts

### Stainless Steel 316 One-touch Fittings KQG2 Series

Applicable tubing—Metric size M, R, Rc thread connection



FEP
M5
1/8
1/4
3/8
1/2
Unions

<table border="1"> <tr><th>M5</th><th>1/8</th><th>1/4</th><th>3/8</th><th>1/2</th></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> </table>	M5	1/8	1/4	3/8	1/2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	289
M5	1/8	1/4	3/8	1/2																													
•	•	•	•	•																													
•	•	•	•	•																													
•	•	•	•	•																													
•	•	•	•	•																													
•	•	•	•	•																													

All stainless steel 316 except seal parts

### Stainless Steel 316 One-touch Fittings KQG2 Series

Applicable tubing—Inch size UNF, NPT thread connection



FEP
10-32 UNF
1/8
1/4
3/8
1/2
Unions

Applicable tubing O.D. (inch)	With seal	Electroless nickel plated	Page																														
<table border="1"> <tr><th>10-32 UNF</th><th>1/8</th><th>1/4</th><th>3/8</th><th>1/2</th></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> </table>	10-32 UNF	1/8	1/4	3/8	1/2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	298
10-32 UNF	1/8	1/4	3/8	1/2																													
•	•	•	•	•																													
•	•	•	•	•																													
•	•	•	•	•																													
•	•	•	•	•																													
•	•	•	•	•																													

For use in corrosive environments  
Stainless series

### Stainless One-touch Fittings KG Series

Applicable tubing—Metric size



FEP
M5
1/8
1/4
3/8
1/2
Unions

Applicable tubing O.D. (mm)	With seal	Electroless nickel plated	Page																																										
<table border="1"> <tr><th>ø3.2</th><th>ø4</th><th>ø6</th><th>ø8</th><th>ø10</th><th>ø12</th><th>ø16</th></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> </table>	ø3.2	ø4	ø6	ø8	ø10	ø12	ø16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	307
ø3.2	ø4	ø6	ø8	ø10	ø12	ø16																																							
•	•	•	•	•	•	•																																							
•	•	•	•	•	•	•																																							
•	•	•	•	•	•	•																																							
•	•	•	•	•	•	•																																							
•	•	•	•	•	•	•																																							

Fittings Series for Special Environments

### Fittings

Rubber material is not used. All stainless steel 316 (Except swivel elbow)

#### Stainless Steel 316 Insert Fittings KFG2 Series

Applicable tubing—Metric size R, Rc thread connection

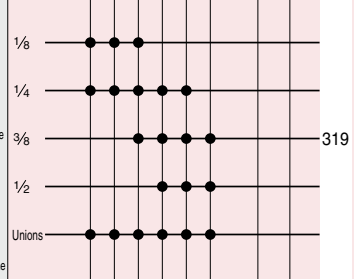


Applicable tubing material

- 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



With seal  
Electroless nickel plated

Page

Rubber material is not used. All stainless steel 316 (Except swivel elbow)

#### Stainless Steel 316 Insert Fittings KFG2 Series

Applicable tubing—Inch size NPT thread connection

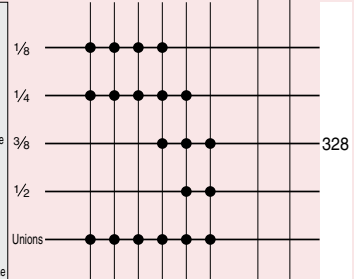


Applicable tubing material

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

Applicable tubing O.D. (inch)

1/8" 1/4" 3/8" 1/2" 5/8" 3/4"



For use in corrosive environments  
Stainless steel 316

#### Miniature Fittings MS Series

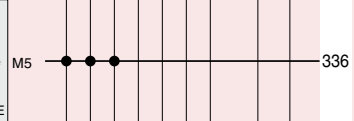
Applicable tubing—Metric size



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

Applicable tubing O.D. (mm)

ø3.2 ø4 ø6 ø8 ø10 ø12 ø16



Body material: Stainless steel 304

#### S Couplers Stainless Steel Type KKA Series



Plug

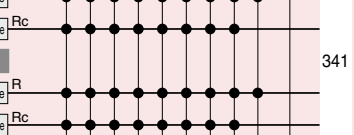
- Male thread type
- Female thread type

Socket

- Male thread type
- Female thread type

Applicable tubing O.D. (mm)

1/8" 1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2"



KQ2
KQB2
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



## Tubing

General tubing 1.5 MPa max. at 20°C

### Nylon Tubing T Series



Slightly flexible 1.0 MPa max. at 20°C

### Soft Nylon Tubing TS Series



Flexible 0.8 MPa max. at 20°C

### Polyurethane Tubing TU Series



Multi-core, Multi-color Specification Flat Tubing

Tubing O.D. ø2 to ø12

Color Black, White, Red, Blue, Yellow, Green, Translucent, Orange

Number of cores 2 to 6



Extremely flexible 0.6 MPa max. at 20°C

### Soft Polyurethane Tubing TUS Series



Multi-core, Multi-color Specification Flat Tubing

Tubing O.D. ø4 to ø12

Color Black, White, Red, Blue, Yellow, Green, Translucent, Yellow brown

Number of cores 2 to 5



0.8 MPa standard type, 1.0 MPa for high pressure type

### Hard Polyurethane Tubing TUH Series



Improved abrasion resistance

### Wear Resistant Tubing TUZ Series



Multi-core, Multi-color Specification Flat Tubing

Tubing O.D. ø4 to ø12

Color Black, White, Red, Blue, Yellow, Green

Number of cores 2 to 6



Color	Tubing O.D.																	Page	
	Metric size (mm)								Inch size (inch)										
	ø2	ø4	ø6	ø8	ø10	ø12	ø16	ø19	ø1/2	ø3/8	ø1/4	ø3/16	ø1/8	ø5/16	ø3/8	ø1/2	ø3/4		ø1"
Black	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	462
White	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Red	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Blue	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Yellow	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Green	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Black	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	464
White	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Red	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Blue	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Yellow	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Green	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Black	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	465
White	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Red	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Blue	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Yellow	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Green	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Clear	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Orange	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Solid blue	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Clear blue	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Medium blue	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Brown	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Solid green	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Clear green	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Neon green	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Dark green	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Gray	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Light gray	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Neon pink	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Solid purple	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Clear purple	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Solid red	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Clear red	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Silver	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Solid yellow	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Clear yellow	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Neon yellow	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Clear orange	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Neon orange	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Black	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	470
White	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Red	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Blue	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Yellow	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Green	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Translucent	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Yellow brown	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Black	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	472
White	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Blue	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Translucent	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Black	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	475
White	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Red	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Blue	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Yellow	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Green	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	

- KQ2**
- KQB2**
- 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**



# Series Variations

Tubing

## Tubing

For flexible and moving applications

### Polyurethane Coil Tubing TCU Series



Compact piping

### Polyurethane Flat Tubing TFU Series



Use in spatter generating atmosphere/Flame resistant material

### FR Soft Nylon Tubing TRS Series



Flame resistance (Equivalent to UL-94 standard V-0)

### FR Double Layer Tubing TRB Series



Flame resistance (Equivalent to UL-94 standard V-0)

### FR Double Layer Polyurethane Tubing TRBU Series



Flame resistance (Equivalent to UL-94 standard V-0)

The outer layer for double layer tubing. Series TRB, TRBU is peeled off easily.

### Double Layer Tube Stripper TKS Series



### FR Three-layer Polyurethane Tubing TRTU Series



Flame resistance (Equivalent to UL-94 standard V-0)

### 2-Layer Soft Fluoropolymer Tubing TQ Series



For preventing static electricity

### Antistatic Tubing TA□ Series



Material: Super PFA

### Fluoropolymer Tubing TL Series



Material: PFA

### Fluoropolymer Tubing (PFA) TLM Series



Compatible with the Food Sanitation Law and dissolution test approved by FDA

### FEP Tubing (Fluoropolymer) TH Series



Color	Tubing O.D.																		Page
	Metric size (mm)									Inch size (inch)									
	ø2	ø3	ø4 (ø1/8)	ø6 (ø1/4)	ø10	ø12	ø16	ø19	ø25	ø1/8 (ø2)	ø1/4 (ø25)	ø3/8 (ø32)	ø1/2 (ø40)	ø3/4 (ø48)	ø1 (ø50)	ø1 1/8 (ø56)	ø1 1/2 (ø63)	ø1 3/4 (ø70)	
1 core			●	●															481
2 cores			●	●															481
3 cores			●	●	●														481
2 cores			●	●															482
3 cores			●	●	●														482
Black				●	●	●	●	●	●										483
White				●	●	●	●	●	●										483
Red				●	●	●	●	●	●										483
Blue				●	●	●	●	●	●										483
Green				●	●	●	●	●	●										483
Black				●	●	●	●	●	●										484
White				●	●	●	●	●	●										484
Red				●	●	●	●	●	●										484
Blue				●	●	●	●	●	●										484
Yellow				●	●	●	●	●	●										484
Green				●	●	●	●	●	●										484
Black				●	●	●	●	●	●										486
White				●	●	●	●	●	●										486
Red				●	●	●	●	●	●										486
Blue				●	●	●	●	●	●										486
Yellow				●	●	●	●	●	●										486
Green				●	●	●	●	●	●										486
Orange				●															488
Yellow					●														488
Blue						●													488
Green							●												488
Black				●	●	●	●	●	●										491
White				●	●	●	●	●	●										491
Red				●	●	●	●	●	●										491
Blue				●	●	●	●	●	●										491
Yellow				●	●	●	●	●	●										491
Green				●	●	●	●	●	●										491
Translucent				●	●	●	●	●	●										495
Black				●	●	●	●	●	●										498
Translucent				●	●	●	●	●	●										501
Translucent				●	●	●	●	●	●										503
Red (Translucent)				●	●	●	●	●	●										503
Blue (Translucent)				●	●	●	●	●	●										503
Black (Opaque)				●	●	●	●	●	●										503
Translucent				●	●	●	●	●	●										506
Red (Translucent)				●	●	●	●	●	●										506
Blue (Translucent)				●	●	●	●	●	●										506
Black (Opaque)				●	●	●	●	●	●										506

## Tubing

### Tubing

Compatible with the Food Sanitation Law. Complies with FDA dissolution test

**Soft Fluoropolymer Tubing (Modified PTFE)**  
**TD Series**



Color	Tubing O.D.														Page	
	Metric size (mm)							Inch size (inch)								
	ø2	ø4	ø6	ø8	ø10	ø12	ø16	ø19	ø1/8	ø3/16	ø1/4	ø3/8	ø1/2	ø3/4		ø1"
Translucent	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	509

## Clean Series Tubing

Flexible 0.8 MPa max. at 20°C

**Polyurethane Tubing**  
**10-TU Series**



For flexible and moving applications

**Polyurethane Coil Tubing**  
**10-TCU Series**



Compact piping

**Polyurethane Flat Tubing**  
**10-TFU Series**



Blow system and air system for drive in clean room

**Polyolefin Tubing**  
**TPH Series**



**Soft Polyolefin Tubing**  
**TPS Series**



Black	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	515
White	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Red	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Blue	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Yellow	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Green	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Clear	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Orange	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

1 core	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	515
2 cores	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
3 cores	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

2 cores	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	516
3 cores	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

Black	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	516
White	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Red	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Blue	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Yellow	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Green	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

## Other Tubing

For preventing condensation

**Moisture Control Tube**  
**IDK Series**



Clear	Linear shape	●	●	●	●	●	●	●	●	●	●	●	●	●	●	519
	Coil shape	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

## Related Products

**Related Products**

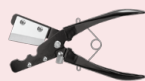
**Multi-tube Holder**  
**TM Series**



**Multi-holder**  
**TMA Series**



**Tube Cutter**  
**TK Series**



**Tube Releasing Tool**  
**TG Series**



**Tube Stand & Tube Reel**  
**TB/TBR Series**



●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	530
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●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	531
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●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	532
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●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	533
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●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	534
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**KQ2**

**KQB2**

**KS**

**KX**

**KM**

**KF**

**M**

**H/DL**

**L/LL**

**KC**

**KK**

**KK130**

**DM**

**KDM**

**KB**

**KR**

**KA**

**KQ2**

**KG**

**KFG2**

**MS**

**KKA**

**KP**

**LQ**

**MQR**

**T**

**IDK**