



For Pneumatic Piping Fittings & Tubing

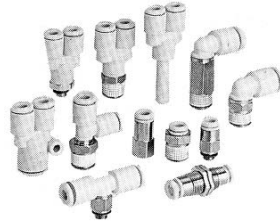
General Purpose Fittings Series

Variations

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

One-touch Mini Series *KJ*

Applicable tubing—Metric size



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

One-touch Fittings Series *KQ2*

Applicable tubing—Metric size



New-stand male threads for piping that
reduces the screw-in time by 1/3.

Uni One-touch Fittings Series *KQ2*

Applicable tubing—Metric size



Low-torque rotation for fast swivel and
oscillating applications

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

Applicable tubing—Metric size



One-touch connection and release
One-touch In/Out connection for compact and
concentrated tubing applications

One-touch Fittings/Manifold Series *KM*

Applicable tubing—Metric size



Possible to use in vacuum to -1.0 MPa

Insert Fittings Series *KF*

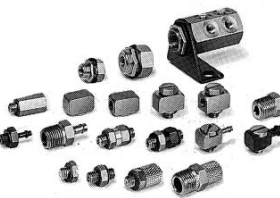
Applicable tubing—Metric size



Tubing connection/disconnection without
use of tools

Miniature Fittings Series *M*

Applicable tubing—Metric size



Applicable tubing material	Applicable tubing O.D. (mm)						With seal	Electroless nickel plated	Page
	ø3.2	ø4	ø6	ø8	ø10	ø12			
Nylon Soft nylon Polyurethane Unions	M3	●	●					●	15-2-1
	M5	●	●	●				●	
	1/8	●	●	●				●	
	Unions	●	●	●				●	
Nylon Soft nylon Polyurethane Unions	M5	●	●	●				●	15-2-10
	M6	●	●	●				●	
	1/8	●	●	●	●			●	
	1/4	●	●	●	●	●		●	
	3/8			●	●	●	●	●	
	1/2			●	●	●	●	●	
Nylon Soft nylon Polyurethane Unions	1/8		●	●	●			●	15-2-32
	1/4		●	●	●	●		●	
	3/8			●	●	●	●	●	
	1/2				●	●	●	●	
Nylon Soft nylon Polyurethane Unions	M5		●	●				●	15-2-38
	M6		●	●				●	
	1/8		●	●	●			●	
	1/4		●	●	●	●		●	
	3/8			●	●	●	●	●	
	1/2				●	●	●	●	
Nylon Soft nylon Polyurethane Unions	1/4		●	●				●	15-2-42
	3/8			●				●	
	ø8			●				●	
	ø10				●			●	
	ø12					●		●	
Nylon Soft nylon Polyurethane Unions	1/8		●	●	●			●	15-2-46
	1/4		●	●	●	●		●	
	3/8			●	●	●	●	●	
	1/2				●	●	●	●	
	Unions		●	●	●	●	●	●	
Nylon Soft nylon Polyurethane Unions	M3	●	●					●	15-2-54
	M5	●	●	●				●	
	1/8	●	●					●	

Variations



Accepts soft copper tube

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

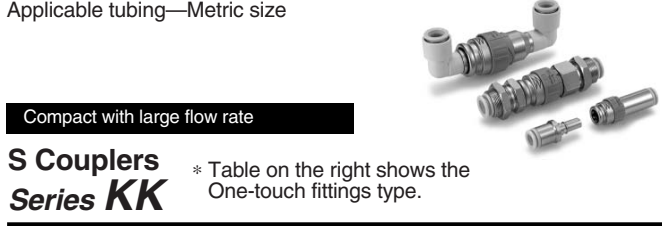
Applicable tubing—Metric size



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

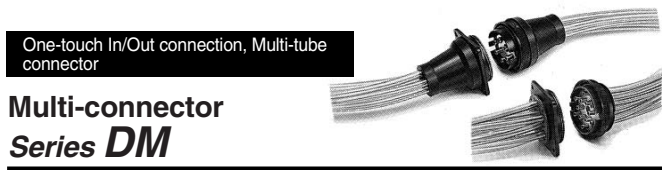
Self-seal Fittings
Series KC

Applicable tubing—Metric size



Compact with large flow rate

S Couplers
Series KK * Table on the right shows the One-touch fittings type.



One-touch In/Out connection, Multi-tube connector

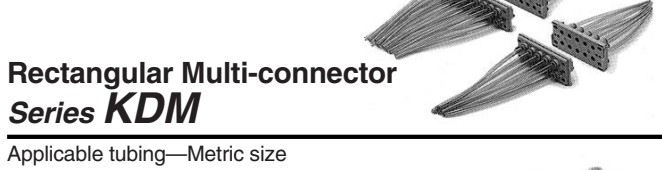
Multi-connector
Series DM

Applicable tubing—Metric size



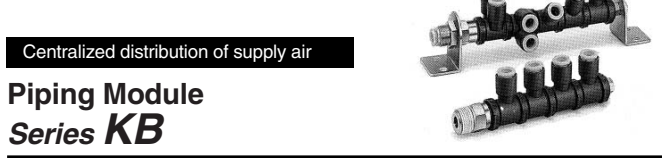
Multi-connector with One-touch Fittings
Series DMK

Applicable tubing—Metric size



Rectangular Multi-connector
Series KDM

Applicable tubing—Metric size



Centralized distribution of supply air

Piping Module
Series KB

Applicable tubing—Metric size

Applicable tubing material	Applicable tubing O.D. (mm)						With seal	Electroless nickel plated	Page
	ø3.2	ø4	ø6	ø8	ø10	ø12			
Nylon Soft nylon Soft copper (C1220T-0) Unions	1/8	•	•	•				15-2-60	
	1/4	•	•	•	•				
	3/8		•	•	•				
	1/2				•	•			
	Unions	•	•	•	•				
Nylon Soft nylon Polyurethane Unions	M5	•	•				•	15-2-66	
	1/8	•	•	•			•		
	1/4	•	•	•	•		•		
	3/8			•	•		•		
	1/2				•		•		
Nylon Soft nylon Polyurethane	1/8	•	•	•				15-2-73	
	1/4		•	•					
	1/2				•	•			
Nylon Soft nylon Polyurethane	6 tubes	•	•					15-2-100	
	12 tubes	•	•						
Nylon Soft nylon Polyurethane	6 tubes	•	•					15-2-104	
	12 tubes	•	•						
Nylon Soft nylon Polyurethane	10 tubes	•	•	•	•		•	15-2-106	
	20 tubes	•	•	•	•		•		
Nylon Soft nylon Polyurethane		•	•	•	•	•	•	15-2-109	
		•	•	•	•	•	•		
		•	•	•	•	•	•		

Variations

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

FR One-touch Fittings
Series KR



Applicable tubing—Metric size

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

FR One-touch Fittings Manifold
Series KRM



Applicable tubing—Metric size

For use in corrosive environments
Stainless series

One-touch Fittings
Series KG



Applicable tubing—Metric size

For preventing static electricity

Antistatic One-touch Fittings
Series KA



For use in corrosive environments
Stainless steel (SUS316)

Miniature Fittings
Series MS



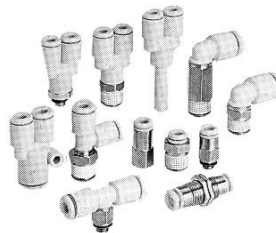
Applicable tubing—Metric size

Applicable tubing material	Applicable tubing O.D. (mm)						With seal	Electroless nickel plated	Page
	ø3.2	ø4	ø6	ø8	ø10	ø12			
FR Soft nylon	1/8		•	•	•		•	15-3-1	
	1/4		•	•	•		•		
	3/8		•	•	•		•		
	1/2			•	•		•		
	Unions			•	•	•			•
FR Double layer	1/4		•					15-3-6	
	3/8			•					
	ø10			•					
	ø12				•				
	Unions					•			•
Nylon	M5	•	•	•	•			15-3-8	
	1/8	•	•	•	•		•		
	1/4	•	•	•	•		•		
	3/8	•	•	•	•		•		
	Unions	•	•	•	•	•	•		•
Soft nylon	M5	•	•	•	•			15-3-20	
	M6	•	•	•	•				
	1/8	•	•	•	•		•		
	1/4	•	•	•	•		•		
	Unions	•	•	•	•	•	•		•
Polyurethane	M5	•	•	•	•			15-3-25	
	M6	•	•	•	•				
	1/8	•	•	•	•		•		
	1/4	•	•	•	•		•		
	Unions	•	•	•	•	•	•		•

Variations

One-touch inch-size tube/UNF, NPT thread connection

One-touch Mini
Series KJ



Applicable area—U.S.A., etc.

One-touch inch-size tube/UNF, NPT thread connection

One-touch Fittings
Series KQ2



Applicable area—U.S.A., etc.

One-touch inch-size tube, M5, R, Rc thread connection

One-touch Fittings
Series KQ2



Applicable area—Australia, Japan, etc.

Applicable tubing material	Applicable tubing O.D. (mm)						With seal	Electroless nickel plated	Page
	ø1/8"	ø5/32"	ø3/16"	ø1/4"	ø5/16"	ø3/8"			
Nylon	10-32 UNF	•	•	•	•		•	15-4-1	
	1/16	•	•	•	•		•		
	1/8	•	•	•	•		•		
	Unions	•	•	•	•	•	•		•
	10-32 UNF	•	•	•	•		•		15-4-9
1/16	•	•	•	•		•			
1/8	•	•	•	•		•			
1/4	•	•	•	•		•			
Unions	•	•	•	•	•	•	•		
Nylon	M5	•	•	•	•			15-4-24	
	1/8	•	•	•	•		•		
	1/4	•	•	•	•		•		
	3/8	•	•	•	•		•		
	Unions	•	•	•	•	•	•		•

Inch-size One-touch Fittings

Variations

New-stand male threads for piping that reduces the screw-in time by 1/3.

Uni One-touch Fittings
Series KQ2

Applicable tubing—Inch size



Low-torque rotation for fast swivel and oscillating applications

Rotary One-touch Fittings
Series KS (Standard)

Applicable tubing—Inch size UNF, NPT thread connection



One-touch connection and release
One-touch In/Out connection for compact and concentrated tubing applications

One-touch Fittings Manifold
Series KM

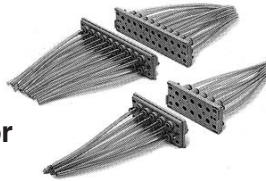
Applicable tubing—Inch size UNF, NPT thread connection



One-touch In/Out connection, Multi-tube connector

Rectangular Multi-connector
Series KDM

Applicable tubing—Inch size



Applicable tubing material	Applicable tubing O.D. (inch)						With seal	Electroless nickel plated	Page
	ø1/8"	ø3/32"	ø3/16"	ø1/4"	ø5/16"	ø3/8"			
Nylon Soft nylon Polyurethane	1/8	•	•	•	•	•		15-4-31	
	1/4	•	•	•	•	•			
	3/8			•	•	•			
	1/2				•	•			
Nylon Soft nylon Polyurethane	10-32 UNF	•					•	15-4-36	
	1/8	•	•	•	•	•	•		
	1/4		•	•	•	•	•		
	3/8			•	•	•	•		
Nylon Soft nylon Polyurethane	1/4		•	•				15-4-39	
	3/8			•					
	5/16	•							
	1/2				•				
Nylon Soft nylon Polyurethane	10 tubes	•	•	•	•			15-4-41	
	20 tubes	•	•	•	•				

Clean Series Fittings

- One-touch Mini Fittings: **Series 10-KJ**
- One-touch Fittings: **Series 10-KQ**
- Insert Fittings: **Series 10-KF**
- Rectangular Multi-connector: **Series 10-KDM**

15-5-1

- Stainless One-touch Fittings: **Series 10-KG**
- Miniature Fittings: **Series 10-M**
- Stainless Steel Miniature Fittings: **Series 10-MS**

15-5-1

- Clean One-touch Fittings: **Series KP**

15-5-5

Fluororesin Fittings Series

- HYPER FITTING®: **Series LQ**

15-5-19

Tubing

Variations

General tubing 1.5 MPa max. at 20°C
Nylon Tubing
Series T



Slightly flexible 1.0 MPa max. at 20°C
Soft Nylon Tubing
Series TS



Flexible 0.8 MPa max. at 20°C
Polyurethane Tubing
Series TU



Extremely flexible 0.6 MPa max. at 20°C
Soft Polyurethane Tubing
Series TUS



0.8 MPa standard type, 10 MPa for high pressure type
Hard Polyurethane Tubing
Series TUH



For flexible and moving applications
Polyurethane Coil Tubing
Series TCU



For flexible multi-tube applications
Polyurethane Flat Tubing
Series TFU



Color	Tubing O.D.										Page	
	Metric size (mm)					Inch size (inch)						
	ø4 (ø3/32")	ø6 (ø5/16")	ø8 (ø5/16")	ø10 (ø3/8")	ø12 (ø1/2")	ø16	ø1/8" (ø3.2)	ø3/16"	ø1/4"	ø3/8"		ø1/2"
Black	•	•	•	•	•	•	•	•	•	•	•	15-6-2
White	•	•	•	•	•	•	•	•	•	•	•	15-6-2
Red	•	•	•	•	•	•	•	•	•	•	•	15-6-2
Blue	•	•	•	•	•	•	•	•	•	•	•	15-6-2
Yellow	•	•	•	•	•	•	•	•	•	•	•	15-6-2
Green	•	•	•	•	•	•	•	•	•	•	•	15-6-2
Black	•	•	•	•	•	•	•	•	•	•	•	15-6-3
White	•	•	•	•	•	•	•	•	•	•	•	15-6-3
Red	•	•	•	•	•	•	•	•	•	•	•	15-6-3
Blue	•	•	•	•	•	•	•	•	•	•	•	15-6-3
Yellow	•	•	•	•	•	•	•	•	•	•	•	15-6-3
Green	•	•	•	•	•	•	•	•	•	•	•	15-6-3
Black	•	•	•	•	•	•	•	•	•	•	•	15-6-4
White	•	•	•	•	•	•	•	•	•	•	•	15-6-4
Red	•	•	•	•	•	•	•	•	•	•	•	15-6-4
Blue	•	•	•	•	•	•	•	•	•	•	•	15-6-4
Yellow	•	•	•	•	•	•	•	•	•	•	•	15-6-4
Green	•	•	•	•	•	•	•	•	•	•	•	15-6-4
Clear	•	•	•	•	•	•	•	•	•	•	•	15-6-4
Orange	•	•	•	•	•	•	•	•	•	•	•	15-6-4
Black	•	•	•	•	•	•	•	•	•	•	•	15-6-5
White	•	•	•	•	•	•	•	•	•	•	•	15-6-5
Red	•	•	•	•	•	•	•	•	•	•	•	15-6-5
Blue	•	•	•	•	•	•	•	•	•	•	•	15-6-5
Yellow	•	•	•	•	•	•	•	•	•	•	•	15-6-5
Green	•	•	•	•	•	•	•	•	•	•	•	15-6-5
Translucent	•	•	•	•	•	•	•	•	•	•	•	15-6-5
Yellow brown	•	•	•	•	•	•	•	•	•	•	•	15-6-5
Black	•	•	•	•	•	•	•	•	•	•	•	15-6-6
White	•	•	•	•	•	•	•	•	•	•	•	15-6-6
Blue	•	•	•	•	•	•	•	•	•	•	•	15-6-6
Translucent	•	•	•	•	•	•	•	•	•	•	•	15-6-6
1 core	•	•	•	•	•	•	•	•	•	•	•	15-6-8
2 cores	•	•	•	•	•	•	•	•	•	•	•	15-6-8
3 cores	•	•	•	•	•	•	•	•	•	•	•	15-6-8
2 cores	•	•	•	•	•	•	•	•	•	•	•	15-6-9
3 cores	•	•	•	•	•	•	•	•	•	•	•	15-6-9

Tubing

Variations

Use in spatter generating atmosphere/
Flame resistant material

FR Soft Nylon Tubing
Series **TRS**

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



FR Double Layer Tubing
Series **TRB**

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



FR Double Layer Polyurethane Tubing
Series **TRBU**

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
Series **TKS**



For preventing static electricity

Antistatic Tubing
Series **TA**



Color	Tubing O.D.										Page	
	Metric size (mm)					Inch size (inch)						
	ø4 (ø1/2")	ø6	ø8 (ø5/16")	ø10	ø12	ø16	ø1/8" (ø3.2)	ø3/16"	ø1/4"	ø3/8"		ø1/2"
Black	•	•	•	•	•							15-6-10
White	•	•	•	•	•							
Red	•	•	•	•	•							
Blue	•	•	•	•	•							
Green	•	•	•	•	•							
Black	•	•	•	•	•							15-6-11
White	•	•	•	•	•							
Red	•	•	•	•	•							
Blue	•	•	•	•	•							
Yellow	•	•	•	•	•							
Green	•	•	•	•	•							
Black	•	•	•	•	•							15-6-13
White	•	•	•	•	•							
Red	•	•	•	•	•							
Blue	•	•	•	•	•							
Yellow	•	•	•	•	•							
Green	•	•	•	•	•							
Orange	•											15-6-15
Yellow		•										
Blue			•									
Green				•								
Black	•	•	•	•	•		•					15-6-17

Clean Series Tubing

Variations

Flexible 0.8 MPa max. at 20°C

Polyurethane Tubing
Series **10-TU**



For flexible and moving applications

Polyurethane Coil Tubing
Series **10-TCU**



For flexible multi-tube applications

Polyurethane Flat Tubing
Series **10-TFU**



Black	•	•	•	•	•							15-6-21
White	•	•	•	•	•							
Red	•	•	•	•	•							
Blue	•	•	•	•	•							
Yellow	•	•	•	•	•							
Green	•	•	•	•	•							
Clear	•	•	•	•	•							
Orange	•	•	•	•	•							
1 core	•	•	•									
2 cores	•	•	•									
3 cores	•	•	•									
2 cores	•	•	•									
3 cores	•	•	•									

Clean Tubing

Variations

Polyolefin Tubing
Series **TPH**



Soft Polyolefin Tubing
Series **TPS**



Color	Tubing O.D.											Page
	Metric size (mm)						Inch size (inch)					
	ø4 (ø1/2")	ø6	ø8 (ø3/16")	ø10	ø12	ø16	ø1/8" (ø3.2)	ø3/16"	ø1/4"	ø3/8"	ø1/2"	
Black	•	•	•	•	•							15-6-22
White	•	•	•	•	•							
Red	•	•	•	•	•							
Blue	•	•	•	•	•							
Green	•	•	•	•	•							
Black	•	•	•	•	•							
White	•	•	•	•	•							
Red	•	•	•	•	•							
Blue	•	•	•	•	•							
Yellow	•	•	•	•	•							
Green	•	•	•	•	•							

Related Products

Related Products:

Multi-tube Holder
Series **TM**



Multi-holder
Series **TMA**



Tube Cutter
Series **TK**



Tube Releasing Tool
Series **TG**



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



	•	•	•	•	•							15-6-31
		•	•	•	•							15-6-32
	•	•	•	•	•	•	•	•	•	•	•	15-6-33
	•	•					•		•			15-6-34
	•	•	•	•	•							15-6-35

Miniature Tubing & Fittings

Miniature Tubing & Fittings
Series **TU/M**

Color	ø2	Page
	Black	
White		
Red		
Blue		
Yellow		
Green		
Clear	•	15-6-25

Operation Guide for Fittings and Tubing

With Seal and Option

How to Order

S — X2

Option

X2 — With electroless nickel plated

With thread seal

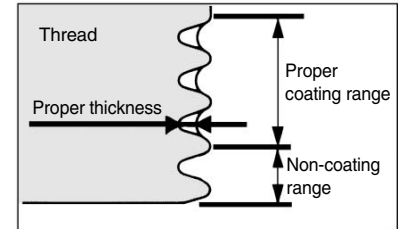
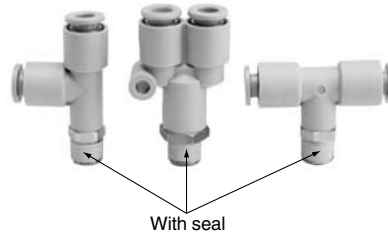
Nil — Without seal

S — With seal

Note) With gasket for all of M3, M5 and M6 threads.

Fittings with Seal

Seal material (fluoro resin) is coated on the thread part with the proper thickness and range, that reduces the piping work, such as coating the seal on the thread.



Tubing Series T

Variations

	Color	Tubing O.D.		Page		Color	Tubing O.D.		Page							
		Metric size (mm)	Inch size (inch)				Metric size (mm)	Inch size (inch)								
General tubing 1.5 MPa max. at 20°C	Black White Red Blue Yellow Green	ø4 (ø 1/2")	ø6 (ø 3/8")	ø10 (ø 3/4")	ø12 (ø 1")	ø16 (ø 5/8")	ø1/8" (ø 3.2)	ø3/16" (ø 4.8)	ø1/4" (ø 6.4)	ø3/8" (ø 9.6)	ø1/2" (ø 12.8)	15-6-12	Use in spatter generating atmosphere flame resistant material	FR Soft Nylon Tubing Series TRS	Flame resistant (Equivalent to UL-94 standard, material V-0)	15-6-10
Slightly flexible 1.0 MPa max. at 20°C	Black White Red Blue Yellow Green											15-6-3	FR Double Layer Tubing Series TRB	Flame resistant (Equivalent to UL-94 standard, material V-0)	15-6-11	
Flexible 0.8 MPa max. at 20°C	Black White Red Blue Yellow Green Clear Orange											15-6-4	FR Double Layer Polyurethane Tubing Series TRBU	Flame resistant (Equivalent to UL-94 standard, material V-0)	15-6-13	
Extremely flexible 0.6 MPa max. at 20°C	Black White Red Blue Yellow Green Translucent Yellow Brown											15-6-5	The outer layer for double layer tube, Series TRB, TRBU	Double Layer Tube Stripper Series TKS	Orange Yellow Blue Green	15-6-15
0.8 MPa standard type 10 MPa for high pressure type	Black White Blue Translucent											15-6-6	For preventing static electricity	Antistatic Tubing Series TA	Black	15-6-17
For flexibility and moving applications	1 core 2 cores 3 cores											15-6-8	Clean Series	Polyurethane Tubing Series 10-TU	Black White Red Blue Yellow Green Clear Orange	15-6-21
For flexible multi-tube applications	2 cores 3 cores											15-6-9	Flexible, 0.8 MPa or less type (20°C)	Polyurethane Coil Tubing Series 10-TCU	1 core 2 cores 3 cores	15-6-21
Related Products:													For flexibility and moving applications	Polyurethane Flat Tubing Series 10-TFU	2 cores 3 cores	15-6-21
Multi-tube Holder/Series TM													For flexible multi-tube	Polyurethane Flat Tubing Series 10-TFU	2 cores 3 cores	15-6-21
Multi-holder/Series TMA													Blow system and air system for drive inside clean room	Polyolefin Tubing Series TPH	Black White Red Blue Yellow Green	15-6-22
Tube Cutter/Series TK														Soft Polyolefin Tubing Series TPS		15-6-22
Tube Releasing Tool/Series TG																
Tube Reel and Tube Stand/Series TB/TBR																
Miniature Tubing & Fittings																
Miniature Polyurethane Tubing/Series TU																
Miniature Fittings/Series M																