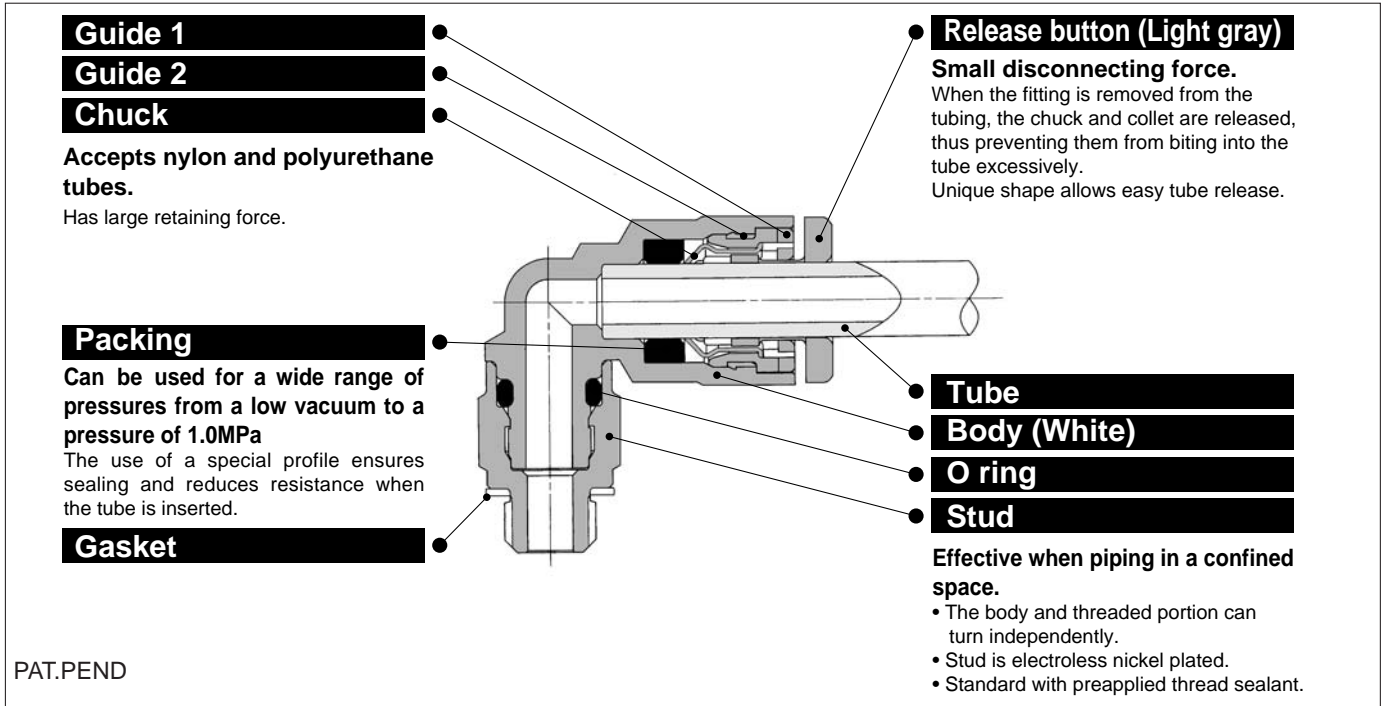


Miniature One-touch Fittings

One-touch Mini

Applicable tube O.D. – $\varnothing 3.2$, $\varnothing 4$, $\varnothing 6$ Thread – M3, M5, R(PT) 1/8

Series KJ



Optimum piping in less space with 20% reduction of the outside diameter

Thread sealant is standard

Possible to use in application where copper-free material is required

Possible to use in vacuum to -100KPa



Applicable Tubing

Tube material	Nylon, Soft nylon, Polyurethane
Tube O.D.	$\varnothing 3.2$, $\varnothing 4$, $\varnothing 6$

Specifications


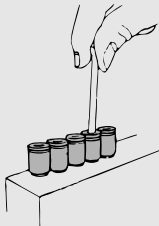

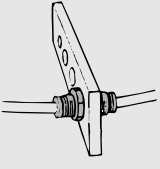

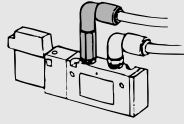

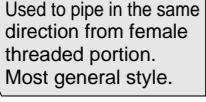

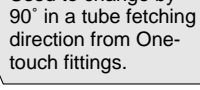

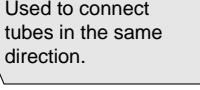

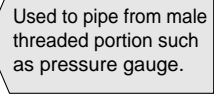

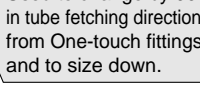

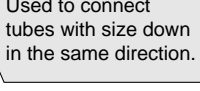

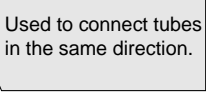

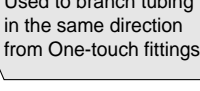

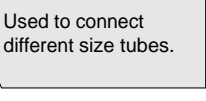

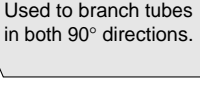

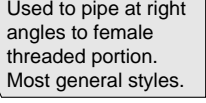

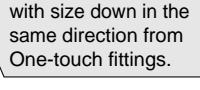

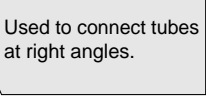

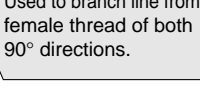

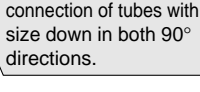

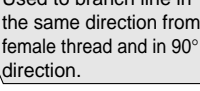

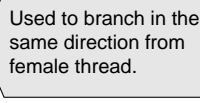

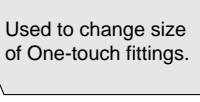
Operating fluid	Air, Water ⁽¹⁾	
Max. operating pressure	1.0MPa	
Max. operating vacuum pressure	-100kPa	
Proof pressure	3.0MPa	
Ambient and fluid temperature	-5 to 60°C, (Water: 0 to 40°C) (No freezing)	
Thread	Thread portion	JIS B0203 (Taper pipe thread) JIS B0209, Class 2 (Metric coarse thread)
	Nut	JIS B0211, Class 2 (Metric fine thread)
Sealant (Thread portion)	With sealant (Standard)	
Copper-free specification	All brass part with electroless nickel plated	



Note1) Applicable for general industry water. Consult SMC if using for other kinds of fluid. Surge pressure must be under the max. operating pressure.

Component Materials

Body	Stainless steel (SUS303), C3604BD, PBT
Stud	C3604BD (Thread portion)
Chuck, Guide 2	Stainless steel (SUS304)
Release button, Guide 1	Polyacetal (POM)
Packing, O ring	NBR
Gasket	SUS304, NBR

Model	
Hex. socket head male connector KJS P.2.1-3 	Internal hex. allows thread connection by using an allen wrench for confined spaces. 
Bulkhead union KJE P.2.1-8 	Used to connect two tubes through a panel. 
Extended male elbow KJW P.2.1-5 	The most appropriate use is when the elbow extends over a standard elbow for ease of connection/disconnection of tubing. 
Male connector KJH P.2.1-3 	Used to pipe in the same direction from female threaded portion. Most general style. 
Plug-in elbow KJL P.2.1-4 	Used to change by 90° in a tube fetching direction from One-touch fittings. 
Union "Y" KJU P.2.1-7 	Used to connect tubes in the same direction. 
Female connector KJF P.2.1-3 	Used to pipe from male threaded portion such as pressure gauge. 
Reducer elbow KJL P.2.1-5 	Used to change by 90° in tube fetching direction from One-touch fittings and to size down. 
Different dia. union "Y" KJU P.2.1-7 	Used to connect tubes with size down in the same direction. 
Straight union KJH P.2.1-3 	Used to connect tubes in the same direction. 
Plug-in "Y" KJU P.2.1-7 	Used to branch tubing in the same direction from One-touch fittings. 
Different dia. straight KJH P.2.1-4 	Used to connect different size tubes. 
Union tee KJT P.2.1-6 	Used to branch tubes in both 90° directions. 
Male elbow KJL P.2.1-4 	Used to pipe at right angles to female threaded portion. Most general styles. 
Reducer union plug-in "Y" KJX P.2.1-7 	Used to branch line with size down in the same direction from One-touch fittings. 
Union elbow KJL P.2.1-4 	Used to connect tubes at right angles. 
Male branch tee KJT P.2.1-5 	Used to branch line from female thread of both 90° directions. 
Different dia. tee KJT P.2.1-6 	Used to branch connection of tubes with size down in both 90° directions. 
Male run tee KJY P.2.1-6 	Used to branch line in the same direction from female thread and in 90° direction. 
Branch "Y" KJU P.2.1-8 	Used to branch in the same direction from female thread. 
Plug-in reducer KJR P.2.1-8 	Used to change size of One-touch fittings. 

⚠ Precautions

Be sure to read before handling.
 Refer to p.0-26 and 0-27 for Safety Instructions and common precautions on the products mentioned in this catalogue, and refer to p.2.0-7 and 2.0-8 for more detailed precautions of every series.

Interchangeability of Series KJ and Series KQ

⚠ Caution

- Do not use the plug-in KQ Series with the KJ Series, otherwise it will not hold.
- For combinations other than the plug-in KQs, they are interchangeable.

Installation and Removal of One-touch Mini Fittings

⚠ Caution

Installing Tubing

- Cut the tube perpendicularly, using caution not to damage its surface. (Use tube cutter TK-1, 2 or 3. Do not cut the tube with cutting pliers, nippers, scissors, etc.)
- Grasp the tube, then slowly push it until it comes to a stop.
- Then, pull it back gently to make sure that it does not come out.

Removing Tubing

(Use one hand for removal.)

- Hold the release button with the thumb and forefinger.
- Grasp the tube with the remaining three fingers and palm.
- Then, pull out the tube with three fingers and palm while pushing in the release button with the thumb and the forefinger.
- To re-use the released tube, cut off the damaged portion of the tube.

K□

M□

H□

D□

MS

T□

LQ

Clean Room

Series KJ

Male connector: KJH

<M3, M5>



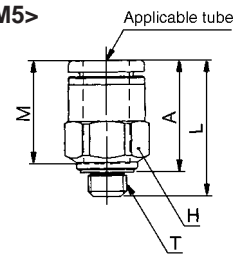
<R(PT) 1/8>



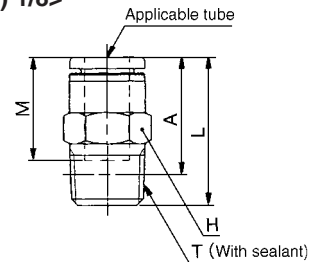
Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	L	A	M	Effective area (mm ²)		Weight (g)
							Nylon	Urethane	
3.2	M3	KJH23-M3	7	16.3	13.7	12.7	0.9	0.9	1.6
	M5	KJH23-M5		16.7	13.6		3	2.5	2
	R(PT) 1/8	KJH23-01S	10	13.8	9.8*				4.7
4	M3	KJH04-M3	8	16.3	13.7	12.7	0.9	0.9	1.9
	M5	KJH04-M5		17	13.9		4	4	2.4
	R(PT) 1/8	KJH04-01S	10	14.8	10.8*				4.6
6	M5	KJH06-M5	10	17.8	14.7	13.5	4	4	3.3
	R(PT) 1/8	KJH06-01S			19.4		15.4*	10	10

*Reference dimensions after R(PT) thread installation.

<M3, M5>



<R(PT) 1/8>



Hexagon socket head male connector: KJS

<M3, M5>



<R(PT) 1/8>



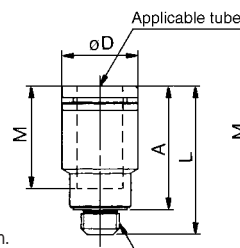
Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	øD ⁽¹⁾	L	A	M	Effective area (mm ²)		Weight (g)
								Nylon	Urethane	
3.2	M3	KJS23-M3	1.5	7	16.3	13.7	12.7	1.4	1.4	1.3
	M5	KJS23-M5	2		19.7	16.6		2.5	2.5	2.8
4	M3	KJS04-M3	1.5	8	16.3	13.7	12.7	1.4	1.4	1.6
	M5	KJS04-M5	2.5		18.7	15.6		4	4	2.7
	R(PT) 1/8	KJS04-01S	3		9.8	19.7		15.7*		
6	M5	KJS06-M5	2.5	10	19.5	16.4	13.5	4	4	3.3
	R(PT) 1/8	KJS06-01S	4		20	16*		10	10	5.2

*Reference dimensions after R(PT) thread installation.

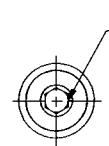
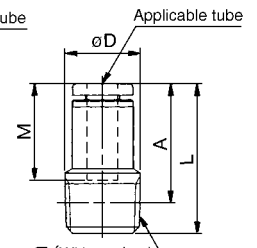
Note1) øD: max. diameter



<M3, M5>



<R(PT) 1/8>

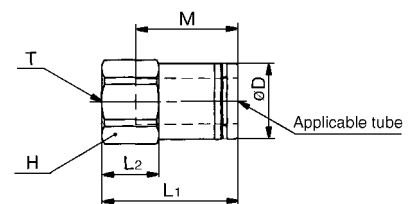


Female connector: KJF



Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	øD ⁽¹⁾	L ₁	L ₂	M	Effective area (mm ²)		Weight (g)
								Nylon	Urethane	
3.2	M3	KJF23-M3	7	7	16.5	6.8	12.7	3	2.5	2.6
	M5	KJF23-M5			18.8	7.9		2.8		
4	M3	KJF04-M3	8	8	16.1	6.4	12.7	4	4	3.2
	M5	KJF04-M5			18.7	7.8		3.8		
6	M5	KJF06-M5	10	10	18	7.5	13.5	10	10	5.3

Note1) øD: max. diameter

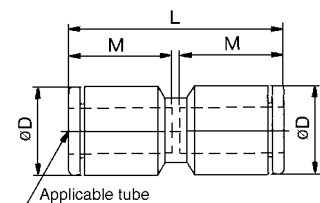


Straight union: KJH




Tube O.D. (mm)	Part No.	øD ⁽¹⁾	L	M	Effective area (mm ²)		Weight (g)
					Nylon	Urethane	
3.2	KJH23-00	8.4	26.3	12.7	3	2.5	1.4
4	KJH04-00	9.3	26.3	12.7	4	4	1.7
6	KJH06-00	11.6	28	13.5	10	10	2.5

Note1) øD: max. diameter

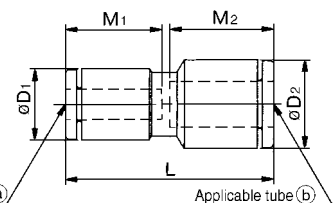


Different diameter straight: KJH




Tube O.D. (mm)		Part No.	øD ⁽¹⁾	øD ⁽¹⁾	L	M ₁	M ₂	Effective area (mm ²)		Weight (g)
a	b							Nylon	Urethane	
3.2	4	KJH23-04	8.4	9.3	26.3	12.7	12.7	3	2.5	1.6
	6	KJH23-06		11.6			27.2			13.5
4	6	KJH04-06	9.3	11.6	27.2	12.7	13.5	4	4	2.2

Note1) øD₁, øD₂: max. diameter



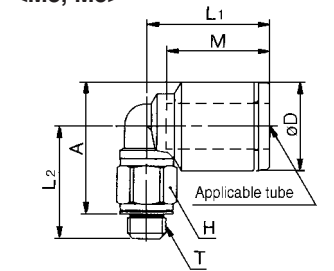
Male elbow: KJL

<M3, M5>


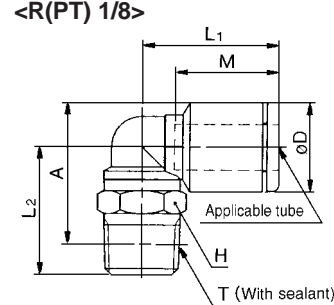


Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	øD ⁽¹⁾	L ₁	L ₂	A	M	Effective area (mm ²)		Weight (g)
									Nylon	Urethane	
3.2	M3	KJL23-M3	7	8.4	15.3	12.5	14.1	12.7	0.8	0.8	2.1
	M5	KJL23-M5							2.6	2.2	2.5
	R(PT) 1/8	KJL23-01S	10						15.2	15.4*	6.7
4	M3	KJL04-M3	7	9.3	15.6	13	15.1	12.7	0.8	0.8	2.2
	M5	KJL04-M5							3.5	3.5	2.7
	R(PT) 1/8	KJL04-01S	10						15.7	16.4*	6.8
6	M5	KJL06-M5	7	11.6	16.1	14.7	17.4	13.5	3.5	3.5	3.2
	R(PT) 1/8	KJL06-01S							10	17.8	18.5*


*Reference dimensions after R(PT) thread installation.
Note1) øD: max. diameter



<R(PT) 1/8>

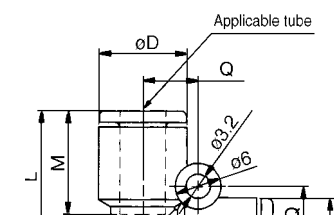



Union elbow: KJL




Tube O.D. (mm)	Part No.	øD ⁽¹⁾	L	Q	M	Effective area (mm ²)		Weight (g)
						Nylon	Urethane	
3.2	KJL23-00	8.4	15	5.8	12.7	2.6	2.2	1.6
4	KJL04-00	9.3	15.8	6.3	12.7	3.5	3.5	2
6	KJL06-00	11.6	17.1	7.3	13.5	9	9	3.1

Note1) øD: max. diameter

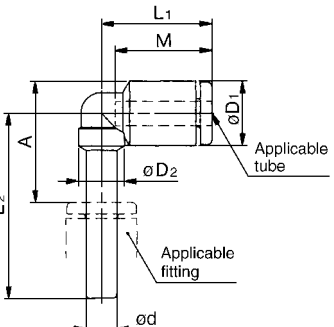


Plug-in elbow: KJL



Tube O.D. (mm)	Fitting size ød	Part No.	øD ⁽¹⁾	øD ₂	L ₁	L ₂	A	M	Effective area (mm ²)		Weight (g)
									Nylon	Urethane	
3.2	3.2	KJL23-99	8.4	6	14.5	23.8	15.3	12.7	2.6	2.2	1
4	4	KJL04-99	9.3	6	15.6	24.7	16.7	12.7	3.5	3.5	1.2
6	6	KJL06-99	11.6	7	16.3	26.8	19.1	13.5	9	9	2

Note1) øD₁: max. diameter



- K□
- M□
- H□
- D□
- MS
- T□
- LQ
- Clean Room

Series KJ

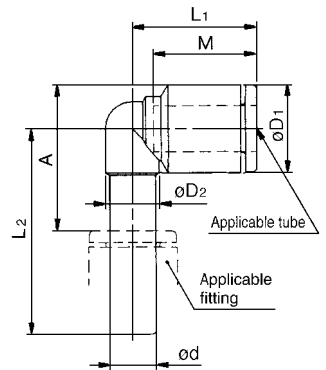
Reducer elbow: KJL



Tube O.D. (mm)	Fittings size ϕ d	Part No.	$\phi D_1^{(1)}$	ϕD_2	L1	L2	A	M	Effective area (mm ²)		Weight (g)
									Nylon	Urethane	
3.2	4	KJL23-04	8.4	6	14.5	24.3	15.8	12.7	2.6	2.2	1.1
	6	KJL23-06				25.3	16				1.2
4	6	KJL04-06	9.3	6	15.6	25.7	16.9	12.7	3.5	3.5	1.4



Note1) ϕD : max. diameter



Extended male elbow: KJW

<M3, M5>



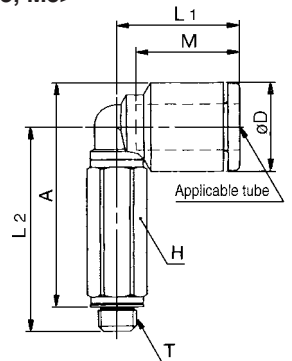
Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	$\phi D^{(1)}$	L1	L2	A	M	Effective area (mm ²)		Weight (g)	
									Nylon	Urethane		
3.2	M3	KJW23-M3	7	8.4	15.3	22.5	24.1	12.7	0.8	0.8	5	
	M5	KJW23-M5									26.3	6.2
	R(PT) 1/8	KJW23-01S	10			25.2	25.4*		2.6	2.2	13.4	
4	M3	KJW04-M3	7	9.3	15.6	23	25.1	12.7	0.8	0.8	5.1	
	M5	KJW04-M5									27.3	6.4
	R(PT) 1/8	KJW04-01S	10			25.7	26.4*		3.5	3.5	13.6	
6	M5	KJW06-M5	7	11.6	16.1	26.7	29.4	13.5	3.5	3.5	6.9	
	R(PT) 1/8	KJW06-01S									10	17.8

*Reference dimensions after R(PT) thread installation.



Note1) ϕD : max. diameter

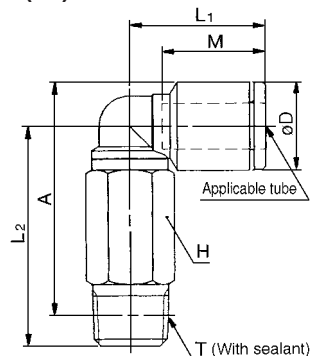
<M3, M5>



<R(PT) 1/8>



<R(PT) 1/8>



Male branch tee: KJT

<M3, M5>



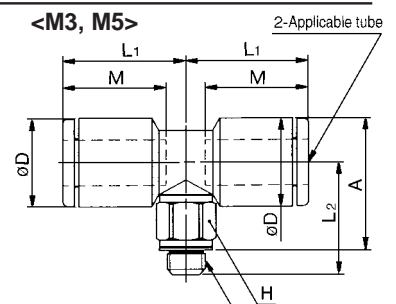
Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	$\phi D^{(1)}$	L1	L2	A	M	Effective area (mm ²)		Weight (g)
									Nylon	Urethane	
3.2	M3	KJT23-M3	7	8.4	15.3	12.5	14.1	12.7	0.9	0.9	2.8
	M5	KJT23-M5									13.2
	R 1/8	KJT23-01S	10			15.2	15.4*		4.5	4.5	7.4
4	M	KJT04-M3	7	9.3	15.6	13	15.1	12.7	0.9	0.9	3.1
	M	KJT04-M5									13.7
	R(PT) 1/8	KJT04-01S	10			15.7	16.4*		4.5	4.5	7.7
6	M5	KJT06-M5	7	11.6	16.1	14.7	17.4	13.5	4.5	4.5	4.4
	R(PT) 1/8	KJT06-01S									10

*Reference dimensions after R(PT) thread installation.



Note1) ϕD : max. diameter

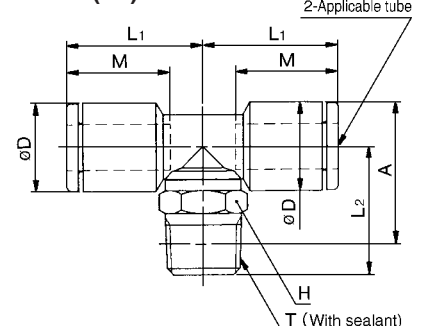
<M3, M5>



<R(PT) 1/8>



<R(PT) 1/8>

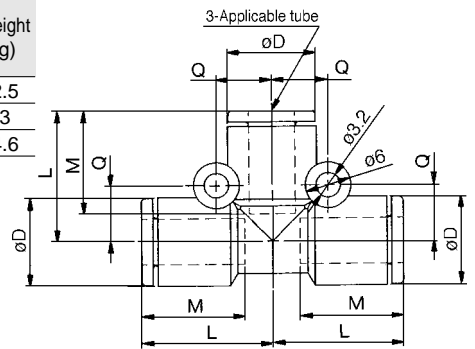


Union tee: KJT



Tube O.D. (mm)	Part No.	øD ⁽¹⁾	L	Q	M	Effective area (mm ²)		Weight (g)
						Nylon	Urethane	
3.2	KJT23-00	8.4	15	5.8	12.7	3.2	2.7	2.5
4	KJT04-00	9.3	15.8	6.3	12.7	4.5	4.5	3
6	KJT06-00	11.6	17.1	7.3	13.5	11	11	4.6

Note1) øD: max. diameter

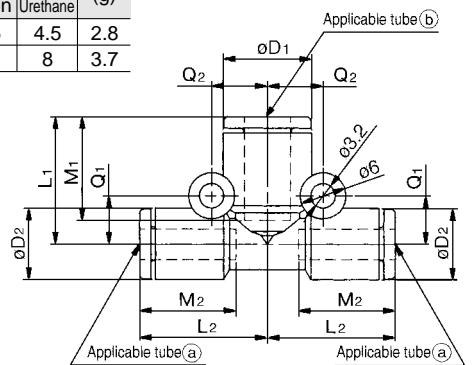


Different diameter. tee: KJT



Tube O.D. (mm)		Part No.	øD ⁽¹⁾	øD ⁽¹⁾	L ₁	L ₂	Q ₁	Q ₂	M ₁	M ₂	Effective area (mm ²)		Weight (g)
a	b										Nylon	Urethane	
3.2	4	KJT23-04	9.3	8.4	15.3	15.8	5.8	6.3	12.7	12.7	4.5	4.5	2.8
4	6	KJT04-06	11.6	9.3	16.6	16.8	6.3	7.3	13.5	12.7	8	8	3.7

Note1) øD₁, øD₂: max. diameter



Male run tee: KJY

<M3, M5>



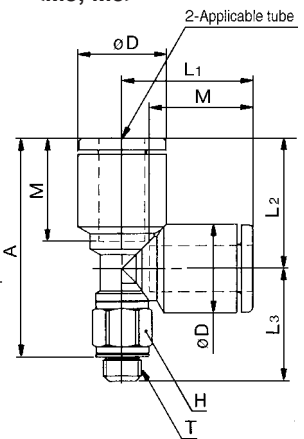
<R(PT) 1/8>



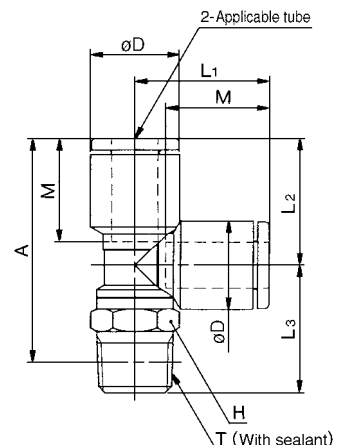
Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	øD ⁽¹⁾	L ₁	L ₂	L ₃	A	M	Effective area (mm ²)		Weight (g)
										Nylon	Urethane	
3.2	M3	KJY23-M3	7	8.4	15.4	14.8	12.5	24.7	12.7	0.9	0.9	2.8
	M5	KJY23-M5								3.2	2.7	3.2
	R(PT) 1/8	KJY23-01S	10							15.2	26*	3.2
4	M3	KJY04-M3	7	9.3	15.6	14.8	13	25.2	12.7	0.9	0.9	3.1
	M5	KJY04-M5								4.5	4.5	3.5
	R(PT) 1/8	KJY04-01S	10							15.7	26.5*	4.5
6	M5	KJY06-M5	7	11.6	17.1	17.1	14.7	28.7	13.5	4.5	4.5	4.5
	R(PT) 1/8	KJY06-01S	10		17.5	16.6	16.7	29.3*		11	11	7.5

*Reference dimensions after R(PT) thread installation.
Note1) øD: max. diameter

<M3, M5>



<R(PT) 1/8>



K□

M□

H□

D□

MS

T□

LQ

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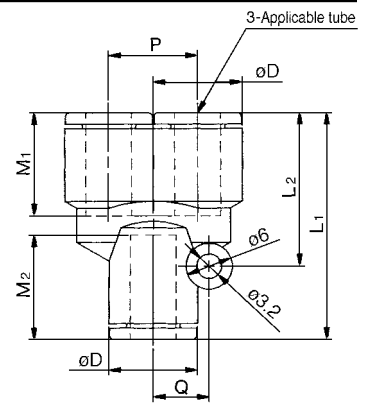
Series KJ

Union "Y": KJU



Tube O.D. (mm)	Part No.	øD ⁽¹⁾	L1	L2	P	Q	M1	M2	Effective area (mm ²)		Weight (g)
									Nylon	Urethane	
3.2	KJU23-00	8.4	28.5	19	8.4	5.8	12.7	12.9	3.2	2.7	2.6
4	KJU04-00	9.3	27.9	18.3	9.3	6.3	12.7	12.9	4.5	4.5	3
6	KJU06-00	11.6	31.2	21.6	11.6	7.3	13.5	13.7	11	11	4.7

Note1) øD: max. diameter

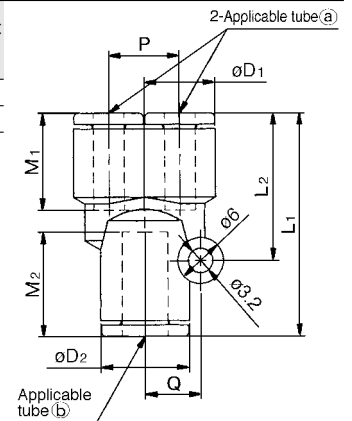


Different diameter. union "Y": KJU



Tube O.D. (mm)		Part No.	øD1 ⁽¹⁾	øD2 ⁽¹⁾	L1	L2	P	Q	M1	M2	Effective area (mm ²)		Weight (g)
a	b										Nylon	Urethane	
3.2	4	KJU23-04	8.4	9.3	27.5	18.3	8.4	6.3	12.7	12.9	4.5	4.5	2.7
4	6	KJU04-06	9.3	11.6	29.2	19.3	9.3	7.3	12.7	13.7	8	8	3.7

Note1) øD1, øD2: max. diameter

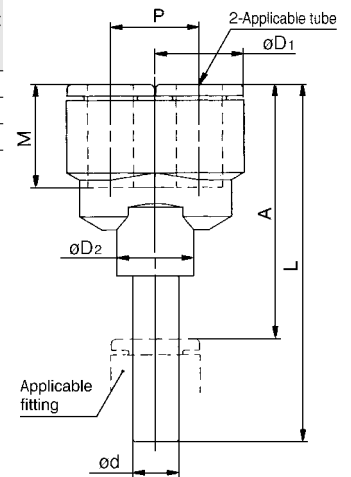


Plug-in "Y": KJU



Tube O.D. (mm)	Fittings size ød	Part No.	øD1 ⁽¹⁾	øD2	L	P	A	M	Effective area (mm ²)		Weight (g)
									Nylon	Urethane	
3.2	3.2	KJU23-99	8.4	10	43.5	8.4	34.1	12.7	3.2	2.7	2.7
4	4	KJU04-99	9.3	10	44.7	9.3	35.3	12.7	4.5	4.5	3.2
6	6	KJU06-99	11.6	10	47.8	11.6	37.6	13.5	11	11	4.5

Note1) øD1: max. diameter

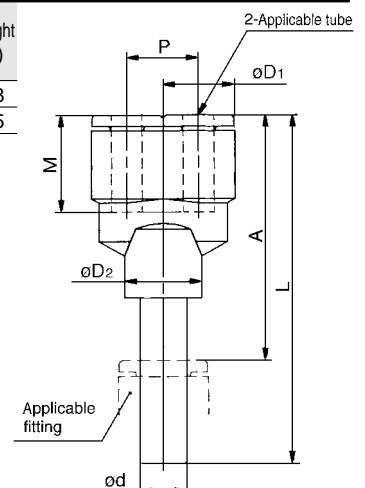


Reducer union plug-in "Y": KJX



Tube O.D. (mm)	Fittings size ød	Part No.	øD1 ⁽¹⁾	øD2	L	P	A	M	Effective area (mm ²)		Weight (g)
									Nylon	Urethane	
3.2	4	KJX23-04	8.4	10	44	8.4	34.6	12.7	4.5	4.5	2.8
4	6	KJX04-06	9.3	10	45.7	9.3	35.5	12.7	8	8	3.5

Note1) øD1: max. diameter



Branch "Y": KJU

<M5>

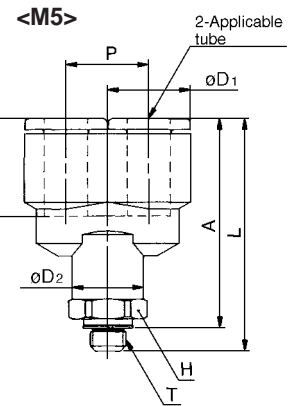


<R(PT) 1/8>

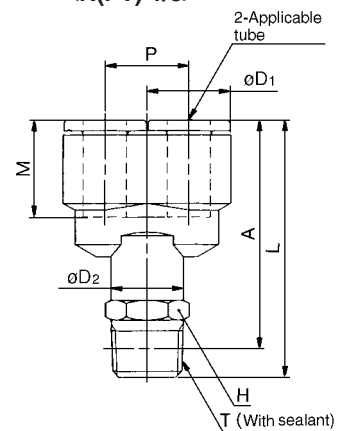


Tube O.D. (mm)	Thread T	Part No.	H (Hex.)	øD ⁽¹⁾	øD2	L	P	A	M	Effective area (mm ²)		Weight (g)
										Nylon	Urethane	
3.2	M5	KJU23-M5	10	8.4	10	30.6	8.4	27.5	12.7	2.2	2.2	5.9
	R(PT) 1/8	KJU23-01S								3.2	2.7	8.3
4	M5	KJU04-M5	10	9.3	10	31.3	9.3	28.2	12.7	2.2	2.2	6.4
	R(PT) 1/8	KJU04-01S								4.5	4.5	8.8
6	M5	KJU06-M5	10	11.6	10	33.4	11.6	30.3	13.5	2.2	2.2	7.4
	R(PT) 1/8	KJU06-01S								36.9	32.9*	11

*Reference dimensions after R(PT) thread installation.
Note1) øD⁽¹⁾: max. diameter



<R(PT) 1/8>

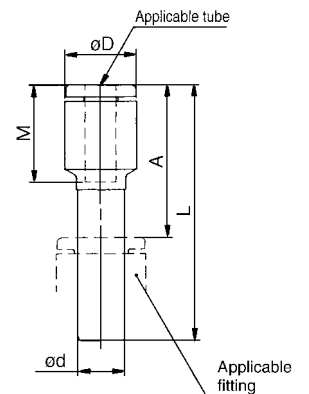


Plug-in reducer: KJR



Tube O.D. (mm)	Fittings size ød	Part No.	øD ⁽¹⁾	L	A	M	Effective area (mm ²)		Weight (g)
							Nylon	Urethane	
3.2	4	KJR23-04	8.4	32	19.3	12.7	3	2.5	0.9
	6	KJR23-06		33	19.5				1.1
4	6	KJR04-06	9.3	33.5	20	12.7	4	4	1.3

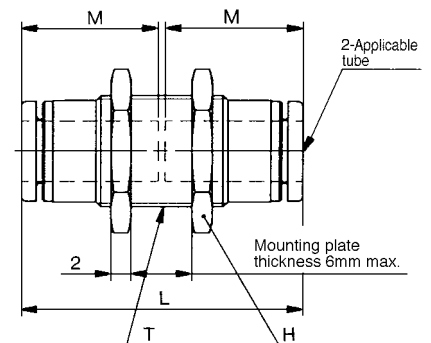
Note1) øD: max. diameter



Bulkhead union: KJE



Tube O.D. (mm)	Part No.	T	H (Hex.)	L	Mounting hole	M	Effective area (mm ²)		Weight (g)
							Nylon	Urethane	
3.2	KJE23-00	M8 X 0.75	10	26	9	12.7	3	2.5	4.6
4	KJE04-00	M9 X 0.75	11	26	10	12.7	4	4	5.6
6	KJE06-00	M11 X 0.75	14	27.7	12	13.5	10	10	8.5



K□

M□

H□

D□

MS

T□

LQ

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