

S Couplers

Series KK



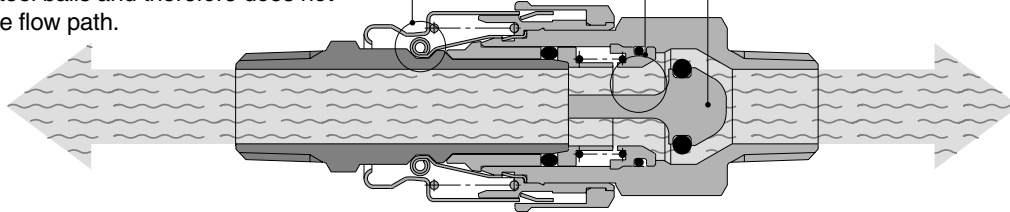
M5 size (Series KK2) is newly added.

General purpose type

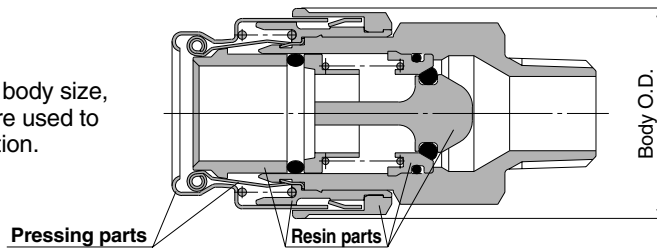
Employs a unique connection method
A slim body design and large effective area are achieved with a construction that does not use steel balls and therefore does not restrict the flow path.

No spring located in the flow path
Loss of effective area is minimized because there is no valve spring to block the flow path.

Check valve end configuration facilitates rectifying effect
Allows smooth flow of fluids.



Light weight
Together with a reduction of the body size, pressing parts and resin parts are used to achieve an overall weight reduction.

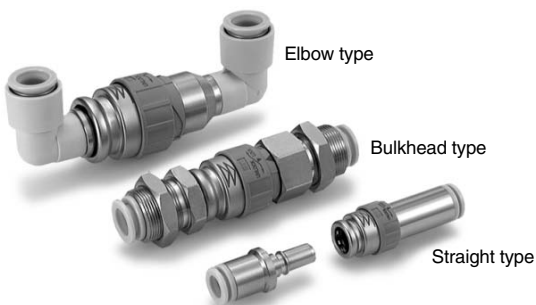


Series	Plug no.	Socket no.	Effective area mm ² <small>Note 1)</small>	Body O.D. mm	Weight g <small>Note 2)</small>
Series KK2	KK2P-M5M	KK2S-M5M	3.8	ø10.0	6.1
Series KK3	KK3P-01MS	KK3S-01MS	20	ø18.2	18.9
Series KK4	KK4P-02MS	KK4S-02MS	39	ø25.4	41.3
Series KK6	KK6P-04MS	KK6S-04MS	82	ø31.2	87.7

Note 1) Values when plug and socket are connected.

Note 2) Values for socket only.

One-touch fitting type standardized
Three types from ø4 to ø16 added to series.

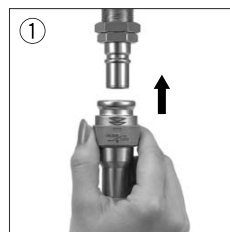


Flow is possible from the plug side or socket side.

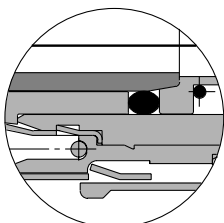
Fluids: Air and Water

One-touch connection

Simple connection with one hand simplifies work.



Low leakage seal construction
Reliable sealing is achieved by surface contact.



Sleeve lock mechanism

Prevents accidents caused by unexpected separation.

Note) Except for M5 type (Series KK2).



- K
- M
- H
- D
- MS
- T
- VMG

Series KK

Plug (P)

Male thread type



Body size	Port size	Part no.
M5	M5 x 0.8	KK2P-M5M
	R 1/8	-01MS
1/8	R 1/8	KK3P-01MS
	R 1/4	-02MS
	R 3/8	-03MS
1/4	R 1/8	KK4P-01MS
	R 1/4	-02MS
	R 3/8	-03MS
	R 1/2	-04MS
1/2	R 3/8	KK6P-03MS
	R 1/2	-04MS
	R 3/4	-06MS

Female thread type



Body size	Port size	Part no.
M5	M5 x 0.8	KK2P-M5F
1/8	Rc 1/8	KK3P-01F
	Rc 1/4	-02F
	Rc 3/8	-03F
1/4	Rc 1/4	KK4P-02F
	Rc 3/8	-03F
1/2	Rc 3/8	KK6P-03F
	Rc 1/2	-04F

Nut fitting type (for fiber reinforced urethane hose)



Body size	Applicable hose I.D./O.D. mm	Part no.
1/8	5/8	KK3P-50N
	6/9	-60N
	6.5/10	-65N
1/4	5/8	KK4P-50N
	6/9	-60N
	6.5/10	-65N
	8/12	-80N
	8.5/12.5	-85N
1/2	8/12	KK6P-80N
	8.5/12.5	-85N
	11/16	-110N

Straight type with One-touch fitting



Body size	Applicable tubing O.D. mm	Part no.
M5	3.2	KK2P-23H
	4	-04H
	6	-06H
1/8	4	KK3P-04H
	6	-06H
	8	-08H
	10	-10H
	6	KK4P-06H
1/4	8	-08H
	10	-10H
	12	-12H
1/2	12	KK6P-12H
	16	-16H

Elbow type with One-touch fitting



Body size	Applicable tubing O.D. mm	Part no.
M5	3.2	KK2P-23L
	4	-04L
	6	-06L
1/8	4	KK3P-04L
	6	-06L
	8	-08L
	10	-10L
	6	KK4P-06L
1/4	8	-08L
	10	-10L
	12	-12L
1/2	12	KK6P-12L
	16	-16L

Bulkhead type with One-touch fitting



Body size	Applicable tubing O.D. mm	Part no.
M5	3.2	KK2P-23E
	4	-04E
	6	-06E
1/8	4	KK3P-04E
	6	-06E
	8	-08E
	10	-10E
	6	KK4P-06E
1/4	8	-08E
	10	-10E
	12	-12E
1/2	12	KK6P-12E
	16	-16E

Socket (S)

Male thread type



Body size	Port size	Part no.
M5	M5 x 0.8	KK2S-M5M
	R 1/8	-01MS
1/8	R 1/8	KK3S-01MS
	R 1/4	-02MS
	R 3/8	-03MS
1/4	R 1/8	KK4S-01MS
	R 1/4	-02MS
	R 3/8	-03MS
	R 1/2	-04MS
1/2	R 3/8	KK6S-03MS
	R 1/2	-04MS
	R 3/4	-06MS

Female thread type



Body size	Port size	Part no.
M5	M5 x 0.8	KK2S-M5F
1/8	Rc 1/8	KK3S-01F
	Rc 1/4	-02F
	Rc 3/8	-03F
1/4	Rc 1/4	KK4S-02F
	Rc 3/8	-03F
1/2	Rc 3/8	KK6S-03F
	Rc 1/2	-04F

Nut fitting type (for fiber reinforced urethane hose)



Body size	Applicable hose I.D./O.D. mm	Part no.
1/8	5/8	KK3S-50N
	6/9	-60N
	6.5/10	-65N
1/4	5/8	KK4S-50N
	6/9	-60N
	6.5/10	-65N
	8/12	-80N
	8.5/12.5	-85N
1/2	8/12	KK6S-80N
	8.5/12.5	-85N
	11/16	-110N

Straight type with One-touch fitting



Body size	Applicable tubing O.D. mm	Part no.
M5	3.2	KK2S-23H
	4	-04H
	6	-06H
1/8	4	KK3S-04H
	6	-06H
	8	-08H
	10	-10H
	6	KK4S-06H
1/4	8	-08H
	10	-10H
	12	-12H
1/2	12	KK6S-12H
	16	-16H

Elbow type with One-touch fitting



Body size	Applicable tubing O.D. mm	Part no.
M5	3.2	KK2S-23L
	4	-04L
	6	-06L
1/8	4	KK3S-04L
	6	-06L
	8	-08L
	10	-10L
	6	KK4S-06L
1/4	8	-08L
	10	-10L
	12	-12L
1/2	12	KK6S-12L
	16	-16L

Bulkhead type with One-touch fitting



Body size	Applicable tubing O.D. mm	Part no.
M5	3.2	KK2S-23E
	4	-04E
	6	-06E
1/8	4	KK3S-04E
	6	-06E
	8	-08E
	10	-10E
	6	KK4S-06E
1/4	8	-08E
	10	-10E
	12	-12E
1/2	12	KK6S-12E
	16	-16E

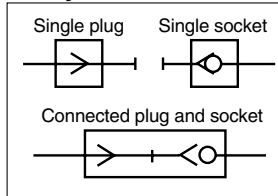
S Couplers General Purpose Type Series **KK**



Series KK2

Series KK3/4/6

JIS Symbol



Specifications

Fluid	Air/Water (Standard industrial water)
Operating pressure range <small>Note)</small>	KK2: -100kPa to 1.0MPa KK3: -90kPa to 1.0MPa KK4-6: 0 to 1.0MPa
Proof pressure	1.5MPa
Ambient and fluid temperature	Air: -5 to 60°C Water: 5 to 40°C (with no freezing)
Plating, Seal	Electroless nickel plated (Copper-free application), With male thread seal

Note) Do not use the S couplers with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.

Performance

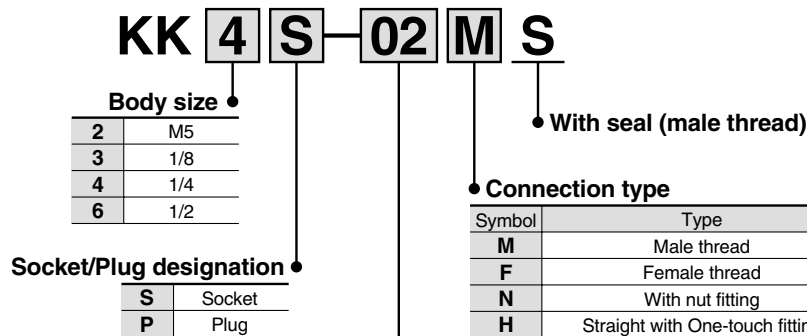
Plug and socket connection	One-touch connection and release
Check valve	Socket: Built-in check valve (Standard)
Sleeve lock mechanism <small>Note)</small>	Manual locking type (Standard)

Note) Series KK2 is not provided with lock mechanism.

Effective Area

Body size	Plug	Socket	Effective area mm ²
M5	KK2P-M5M	KK2S-M5M	3.8
1/8	KK3P-01MS	KK3S-01MS	20
1/4	KK4P-02MS	KK4S-02MS	39
1/2	KK6P-04MS	KK6S-04MS	82

How to Order



• Piping port size variations

Male/Female thread type	
Symbol	Thread size
M5	M5 x 0.8
01	R, Rc 1/8
02	R, Rc 1/4
03	R, Rc 3/8
04	R, Rc 1/2
06	R, Rc 3/4

One-touch fitting type	
Symbol	Applicable tubing O.D. mm
23	ø3.2
04	ø4
06	ø6
08	ø8
10	ø10
12	ø12
16	ø16

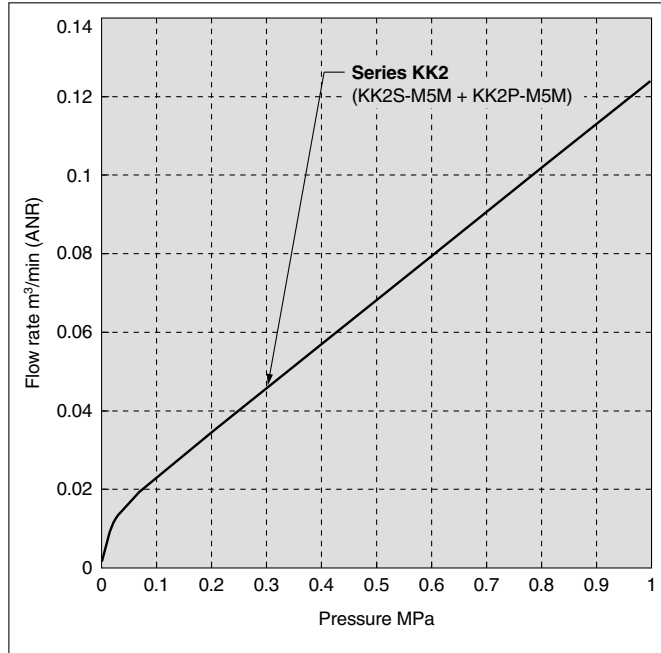
Nut fitting type	
Symbol	Applicable hose I.D./O.D. mm
50	5/8
60	6/9
65	6.5/10
80	8/12
85	8.5/12.5
110	11/16

Series KK

Flow Characteristics

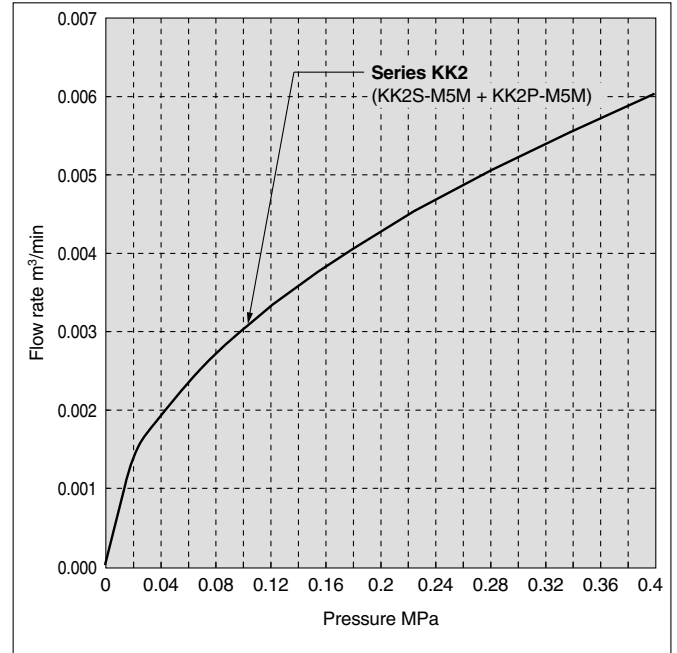
Air (0 to 1 MPa)

KK2

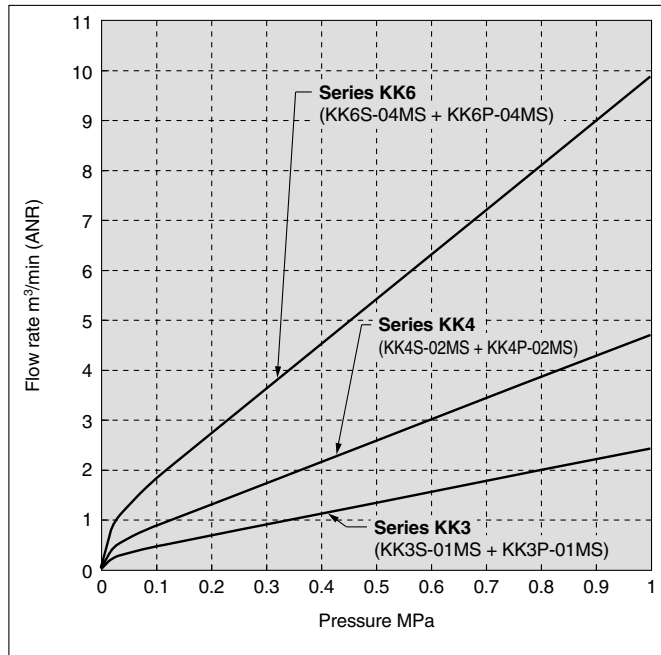


Water (0 to 0.4 MPa)

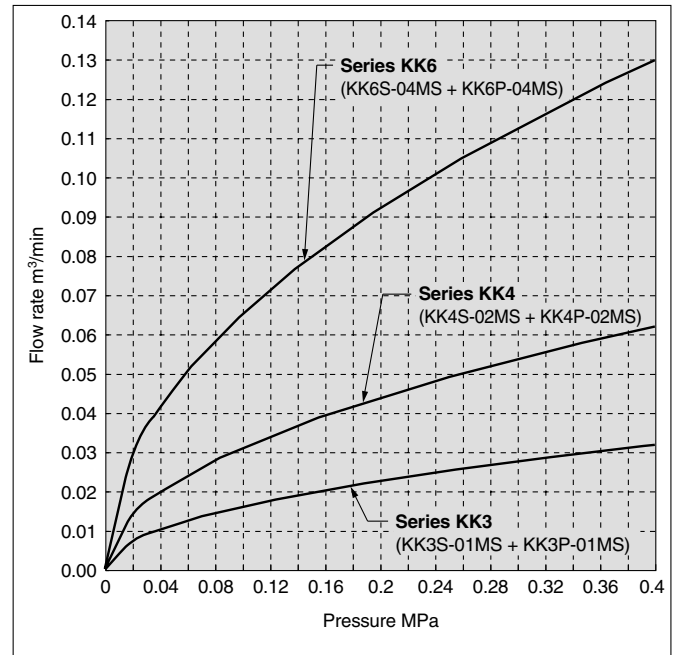
KK2



KK3/4/6

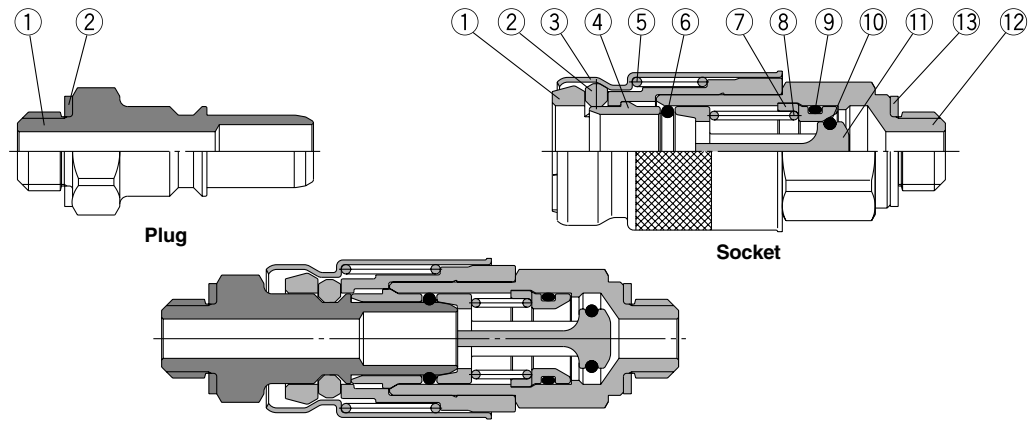


KK3/4/6



Construction

KK2



Plug

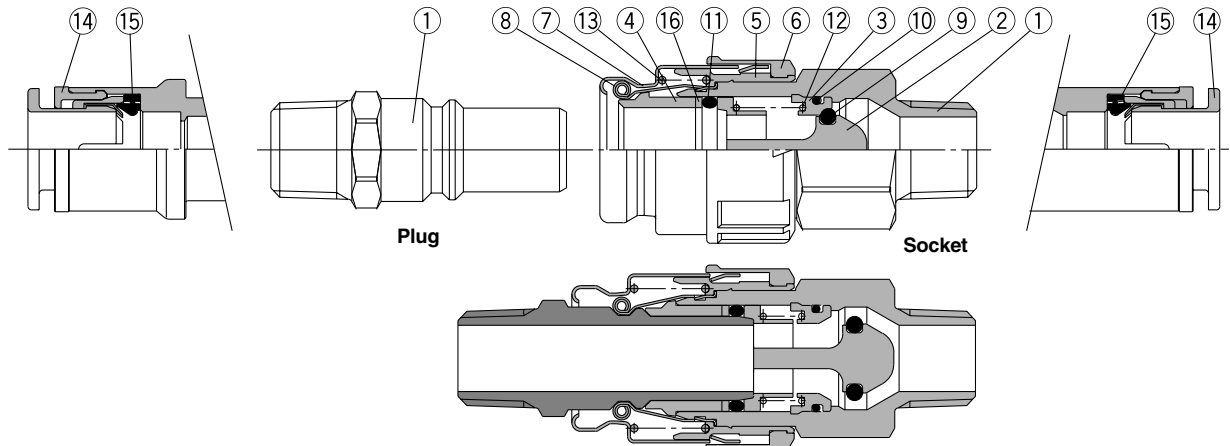
No.	Description	Material	Note
①	Stem	Brass	Electroless nickel plated
②	Gasket	Stainless steel, NBR	

Socket

No.	Description	Material	Note
①	Spacer	PBT	
②	Chuck	PBT	
③	Sleeve	Brass	Electroless nickel plated
④	Collar	Brass	Electroless nickel plated
⑤	Sleeve spring	Stainless steel	
⑥	Plug O-ring	NBR	
⑦	Valve seat	PBT	
⑧	Valve spring	Stainless steel	
⑨	Valve seat O-ring	NBR	
⑩	Valve O-ring	FKM	
⑪	Valve	PBT	
⑫	Socket body	Brass	Electro nickel plated
⑬	Gasket	Stainless steel, NBR	

KK3/4/6

<With One-touch fitting >



Plug

No.	Description	Material	Note
①	Stem	Brass	Electroless nickel plated
⑭	Cassette	—	
⑮	Seal	NBR	

Socket

No.	Description	Material	Note
①	Body	Brass	Electroless nickel plated
②	Valve	PBT	
③	Valve seat	PBT	
④	Collar	PBT	
⑤	Spacer	PBT	
⑥	Lock ring	PBT	
⑦	Sleeve	Cold rolled carbon steel sheet	Electroless nickel plated
⑧	Chuck	Stainless steel	
⑨	Valve O-ring	FKM	
⑩	Valve seat O-ring	NBR	
⑪	Plug O-ring	NBR	
⑫	Valve spring	Stainless steel	
⑬	Sleeve spring	Stainless steel	
⑭	Cassette	—	
⑮	Seal	NBR	
⑯	Collar 2	Stainless steel	

K□

M□

H□

D□

MS

T□

VMG

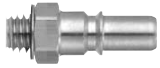
Series KK

Dimensions: Plug (P)

Male thread type

(mm)

KK2

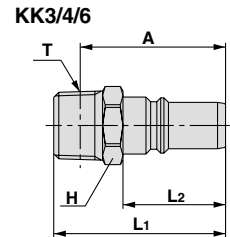
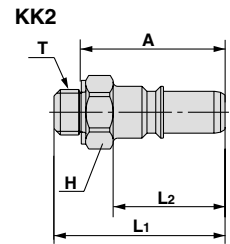


KK3/4/6



Body size	Model	T Connection port size	H Width across flats	L1	L2	A*	Min. bore size	Effective area mm ²	Weight g
M5	KK2P-M5M	M5 x 0.8	7	18.8	12.3	15.8	2.5	4.4	2.6
	-01MS	R 1/8		23.2		19.2	3.4	8.1	3.0
1/8	KK3P-01MS	R 1/8	10	30.4	18.4	26.4	6.0	22.6	8.4
	-02MS	R 1/4	14	33.4		27.4			14.2
	-03MS	R 3/8	17	36.9		30.4			28.1
1/4	KK4P-01MS	R 1/8	14	37.0	25.2	33.0	9.0	50.9	17.0
	-02MS	R 1/4		40.2		34.2			20.2
	-03MS	R 3/8	17	42.2		35.7			32.5
	-04MS	R 1/2	22	46.2		38.2			57.4
1/2	KK6P-03MS	R 3/8	19	48.0	31.0	41.5	11.0	76.0	44.7
	-04MS	R 1/2	22	52.0		44.0	13.0	106.2	53.7
	-06MS	R 3/4	27	55.0		45.5			94.4

* Reference dimension for R threads after installation.

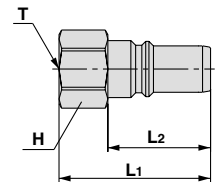


Female thread type

(mm)



Body size	Model	T Connection port size	H Width across flats	L1	L2	Min. bore size	Effective area mm ²	Weight g
M5	KK2P-M5F	M5 x 0.8	8	17.6	12.3	3.4	8.1	2.6
1/8	KK3P-01F	Rc 1/8	14	28.3	18.4	6.0	22.6	10.4
	-02F	Rc 1/4	17	35.0	19.0			20.8
	-03F	Rc 3/8	19	36.8	23.2			
1/4	KK4P-02F	Rc 1/4	17	37.2	25.2	9.0	50.9	23.9
	-03F	Rc 3/8	19	39.8				24.6
1/2	KK6P-03F	Rc 3/8		43.3	31.0	13.0	106.2	28.6
	-04F	Rc 1/2	24	50.2				43.9

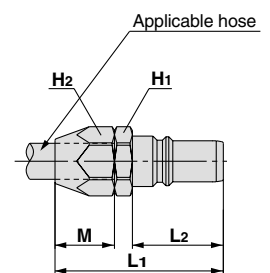


Nut fitting type (for fiber reinforced urethane hose)

(mm)



Body size	Model	Applicable hose I.D./O.D. mm	H1 Width across flats	H2 Width across flats	L1	L2	M	Min. bore size	Effective area mm ²	Weight g
1/8	KK3P-50N	5/8	14	14	36.1	18.4	13.7	4.5	12.7	21.4
	-60N	6/9						5.4	18.3	38.8
	-65N	6.5/10						5.9	21.9	35.9
1/4	KK4P-50N	5/8	17	14	43.9	25.2	13.7	4.5	12.7	34.7
	-60N	6/9						5.4	18.3	48.4
	-65N	6.5/10						5.9	21.9	45.1
	-80N	8/12						7.4	34.4	53.2
	-85N	8.5/12.5						7.8	38.2	55.6
1/2	KK6P-80N	8/12	19	19	53.4	31.0	17.4	7.4	34.4	60.5
	-85N	8.5/12.5						7.8	38.2	62.8
	-110N	11/16						24	24	57.2

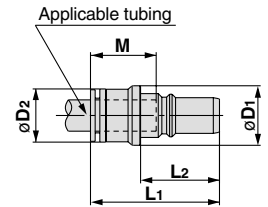


Straight type with One-touch fitting

(mm)



Body size	Model	Applicable tubing O.D. mm	øD1	øD2	L1	L2	M	Min. bore size	Effective area mm ²		Weight g		
									Urethane tubing	Nylon tubing			
M5	KK2P-23H	ø3.2	10.0	7.0	20.5	12.3	12.7	2.5	3.7	4.4	3.3		
	-04H	ø4		8.0					8.1	8.1			
	-06H	ø6		10.0					23.5	13.5		3.4	8.1
1/8	KK3P-04H	ø4	12.0	10.0	35.4	18.4	16.0	3.2	3.9	5.6	7.9		
	-06H	ø6	14.0	12.0					4.7	10.1		12.8	9.1
	-08H	ø8	16.0	14.0					6.0	15.7		22.6	13.2
	-10H	ø10	19.0	17.0					21.0	22.6		22.6	17.6
1/4	KK4P-06H	ø6	14.0	12.0	46.2	25.2	17.0	4.7	10.1	12.8	22.3		
	-08H	ø8	16.0	14.0					6.2	19.8		22.6	23.0
	-10H	ø10	19.0	17.0					7.7	27.6		35.3	27.1
	-12H	ø12	21.0	19.0					9.0	40.2		50.9	30.0
1/2	KK6P-12H	ø12	21.0	19.0	56.1	31.0	22.0	9.2	41.2	50.9	44.4		
	-16H	ø16	26.0	25.7					25.0	13.0		—	106.2



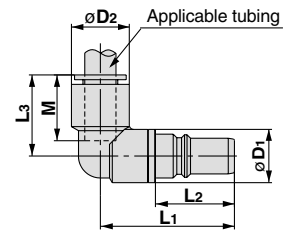
- K□
- M□
- H□
- D□
- MS
- T□
- VMG

Elbow type with One-touch fitting

(mm)



Body size	Model	Applicable tubing O.D. mm	øD1	øD2	L1	L2	L3	M	Min. bore size	Effective area mm ²		Weight g				
										Urethane tubing	Nylon tubing					
M5	KK2P-23L	ø3.2	10.0	9.3	24.0	12.3	16.5	12.7	2.5	3.6	4.3	5.8				
	-04L	ø4		11.6	25.1		16.6	13.5	3.4	7.8	7.8		6.4			
	-06L	ø6		10.4	31.6		18.0	16.0	3.0	3.7	5.3		7.2			
1/8	KK3P-04L	ø4	12.0	10.4	31.6	18.4	20.0	17.0	4.5	10.1	11.4	8.0				
	-06L	ø6		12.8	32.8					6.0	15.0		16.8	9.7		
	-08L	ø8		15.2	34.0					23.0	18.5		6.0	15.0	16.8	9.7
	-10L	ø10		17.0	18.5					36.0	26.5		21.0	6.0	18.0	18.5
1/4	KK4P-06L	ø6	14.0	12.8	40.2	25.2	20.0	17.0	4.5	10.1	11.4	19.6				
	-08L	ø8	15.2	41.4	23.0					18.5	6.0		17.5	19.8	21.3	
	-10L	ø10	17.0	18.5	42.8					26.5	21.0		7.5	24.7	27.5	25.7
	-12L	ø12	20.9	44.0	28.5					22.0	9.0		29.0	29.6	28.0	
1/2	KK6P-12L	ø12	19.0	49.9	31.0	31.0	28.5	22.0	9.0	38.1	39.7	40.3				
	-16L	ø16	21.0	26.5						53.5	34.0		25.0	13.0	—	58.7

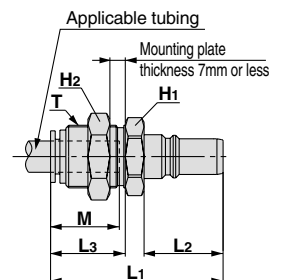


Bulkhead type with One-touch fitting

(mm)





Body size	Model	Applicable tubing O.D. mm	T Threads	H1 Width across flats	H2 Width across flats	L1	L2	L3	M	Min. bore size	Effective area mm ²		Weight g			
											Urethane tubing	Nylon tubing				
M5	KK2P-23E	ø3.2	M8 x 0.75	10	10	28.3	12.3	12.5	12.7	2.5	3.7	4.4	6.0			
	-04E	ø4	M9 x 0.75		11			6.6								
	-06E	ø6	M11 x 0.75		14			28.6	12.7		13.5	3.4		8.1	8.1	9.7
1/8	KK3P-04E	ø4	M12 x 1	14	14	39.3	18.4	16.9	16.0	3.2	3.9	5.6	16.6			
	-06E	ø6	M14 x 1		17			40.2	16.8		17.0	4.7		10.1	12.8	22.3
	-08E	ø8	M16 x 1		17			43.4	20.0		18.5	6.0		15.7	22.6	30.2
	-10E	ø10	M20 x 1		22			46.4	22.0		21.0	6.0		22.6	22.6	54.7
1/4	KK4P-06E	ø6	M14 x 1	17	17	47.0	25.2	16.8	17.0	4.7	10.1	12.8	30.6			
	-08E	ø8	M16 x 1		19			50.2	20.0		18.5	6.2		19.8	22.6	38.2
	-10E	ø10	M20 x 1		22			53.2	22.0		21.0	7.7		27.6	35.3	61.4
	-12E	ø12	M22 x 1		24			54.2	23.0		22.0	9.0		40.2	50.9	75.2
1/2	KK6P-12E	ø12	M22 x 1	30	60.1	60.1	31.0	23.0	22.0	9.2	41.2	50.9	86.1			
	-16E	ø16	M28 x 1.5		30			32	62.6		24.5	25.0		13.0	—	106.2



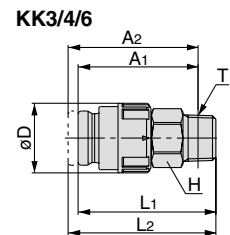
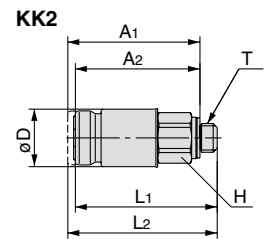
Series KK

Dimensions: Socket (S)



Male thread type

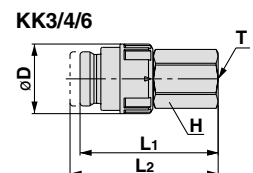
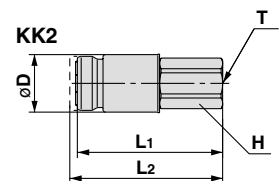
	Body size	Model	T Connection port size	H Width across flats	øD	L1	L2 When connected	A1*	A2* When connected	Min. bore size	Effective area mm ²	Weight g
KK2 	M5	KK2S-M5M	M5 x 0.8	8	10.0	24.7	26.2	21.7	23.7	2.5	3.8	6.1
		-01MS	R 1/8	10		25.3	26.8		22.8	4.7	5.8	9.1
	1/8	KK3S-01MS	R 1/8	14	18.2	37.5	40.0	33.5	36.0	6.0	20.4	18.9
-02MS		R 1/4	31.5			34.0	9.0	21.1	18.0			
-03MS		R 3/8	38.7			41.0				32.2	34.5	
KK3/4/6 	1/4	KK4S-01MS	R 1/8	19	25.4	50.4	51.7	46.4	50.1	6.0	22.9	44.7
		-02MS	R 1/4			51.0	54.7	45.0	48.7	9.0	38.9	41.3
		-03MS	R 3/8			50.0	53.7	43.5	47.2	11.0	40.4	48.1
		-04MS	R 1/2			49.7	53.4	41.7	45.4	13.0	42.7	58.4
	1/2	KK6S-03MS	R 3/8	24	31.2	60.2	65.5	53.7	59.0	11.0	71.7	85.5
		-04MS	R 1/2					52.2	57.5	13.0	82.3	87.7
		-06MS	R 3/4	27			50.7	56.0	15.0	83.8	110.9	

* Reference dimension for R threads after installation.




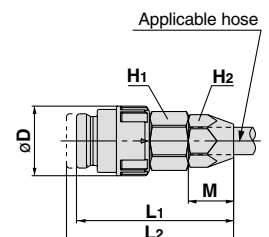
Female thread type

	Body size	Model	T Connection port size	H Width across flats	øD	L1	L2 When connected	Min. bore size	Effective area mm ²	Weight g
KK2 	M5	KK2S-M5F	M5 x 0.8	8	10.0	25.3	26.8	4.2	5.4	6.4
	1/8	KK3S-01F	Rc 1/8	14	18.2	36.0	38.5	8.2	20.6	22.4
		-02F	Rc 1/4	17		40.1	42.4		21.1	33.2
		-03F	Rc 3/8			41.9	44.3		37.6	
KK3/4/6 	1/4	KK4S-02F	Rc 1/4	19	25.4	50.4	54.1	10.9	39.6	54.1
		-03F	Rc 3/8			51.1	54.8	14.4	42.7	43.4
	1/2	KK6S-03F	Rc 3/8	24	31.2	58.6	63.9	18.0	83.1	91.2
		-04F	Rc 1/2			61.0	66.3		83.8	85.0



Nut fitting type (for fiber reinforced urethane hose)

	Body size	Model	Applicable hose I.D./O.D. mm	H1 Width across flats	H2 Width across flats	øD	L1	L2 When connected	M	Min. bore size	Effective area mm ²	Weight g	
1/8 	1/8	KK3S-50N	5/8	14	14	18.2	42.6	45.1	13.7	4.5	12.2	30.9	
		-60N	6/9	17	17		44.4	46.9	16.5	5.4	18.3	47.5	
		-65N	6.5/10				5.9	19.2	45.2				
1/4	1/4	KK4S-50N	5/8	19	17	25.4	54.1	57.8	13.7	4.5	12.2	53.0	
		-60N	6/9				56.8	60.5	16.5	5.4	20.4	66.5	
		-65N	6.5/10				55.4	59.1	17.4	5.9	24.1	64.0	
	1/2	1/2	-80N	8/12	24	24	31.2	55.4	59.1	17.4	7.4	35.1	65.7
			-85N	8.5/12.5				7.8	36.6	68.3			
			KK6S-80N	8/12				66.0	71.3	20.1	7.4	36.6	105.1
		-85N	8.5/12.5				64.4	69.7	20.1	7.8	41.2	107.8	
		-110N	11/16				64.4	69.7	20.1	10.2	68.4	117.4	



Straight type with One-touch fitting

(mm)

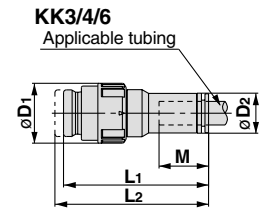
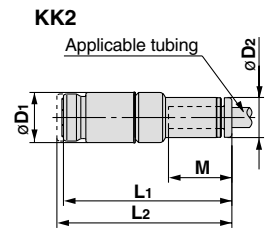
KK2



KK3/4/6



Body size	Model	Applicable tubing O.D. mm	øD1	øD2	L1	L2 When connected	M	Min. bore size	Effective area mm ²		Weight g		
									Urethane tubing	Nylon tubing			
M5	KK2S-23H	ø3.2	10.0	7.0	33.8	35.3	12.7	2.5	3.8	4.6	6.4		
	-04H	ø4		8.0	33.6	35.1			3.4	4.0	4.8	6.5	
	-06H	ø6		10.0	33.9	35.4			13.5	4.7	5.8	5.8	7.9
1/8	KK3S-04H	ø4	18.2	10.0	46.6	49.1	16.0	3.2	3.8	5.8	21.3		
	-06H	ø6		12.0	47.1	49.6			17.0	4.7	10.4	13.4	23.2
	-08H	ø8		14.0	48.9	51.4			18.5	6.2	16.8	18.9	26.1
1/4	KK4S-06H	ø6	25.4	12.0	58.2	61.9	17.0	4.7	10.4	13.4	48.6		
	-08H	ø8		14.0	60.1	63.8			18.5	6.2	18.3	21.8	48.5
	-10H	ø10		17.0	61.5	65.2			21.0	7.7	27.0	29.4	52.0
1/2	KK6S-12H	ø12	31.2	19.0	62.5	66.2	22.0	9.2	30.5	32.0	56.6		
	-14H	ø14		20.0	66.3	70.0			25.0	13.2	42.7	48.8	81.7
	-16H	ø16		25.7	72.3	77.6			25.0	13.2	53.4	62.5	97.5



- K□
- M□
- H□
- D□
- MS
- T□
- VMG

Elbow type with One-touch fitting

(mm)

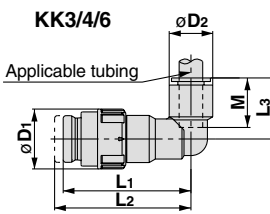
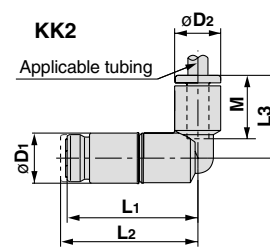
KK2



KK3/4/6



Body size	Model	Applicable tubing O.D. mm	øD1	øD2	L1	L2 When connected	L3	M	Min. bore size	Effective area mm ²		Weight g
										Urethane tubing	Nylon tubing	
M5	KK2S-23L	ø3.2	10.0	9.3	26.0	27.5	16.5	12.7	2.5	3.7	4.4	6.7
	-04L	ø4		11.6	27.2	28.3	16.6	13.5	4.5	5.6	5.6	7.2
	-06L	ø6		12.8	42.9	45.4	20.0	17.0	4.5	10.1	11.4	22.8
1/8	KK3S-04L	ø4	18.2	10.4	41.7	44.2	18.0	16.0	3.0	3.7	5.3	22.0
	-06L	ø6		15.2	43.1	45.6	23.0	18.5	6.0	15.0	16.8	23.8
	-10L	ø10		18.5	42.9	45.4	26.5	21.0	7.5	18.0	18.5	33.2
1/4	KK4S-06L	ø6	25.4	12.8	54.3	58.0	20.0	17.0	4.5	10.1	11.4	50.7
	-08L	ø8		15.2	55.5	59.2	23.0	18.5	6.0	17.5	19.8	50.3
	-10L	ø10		18.5	54.2	57.9	26.5	21.0	7.5	24.7	27.5	51.9
1/2	KK6S-12L	ø12	31.2	20.9	55.4	59.1	28.5	22.0	9.0	29.0	29.6	54.2
	-14L	ø14		26.5	66.3	71.6	34.0	25.0	13.0	38.1	39.7	89.0
	-16L	ø16		26.5	66.9	72.2	34.0	25.0	13.0	50.3	58.7	91.1



Bulkhead type with One-touch fitting

(mm)

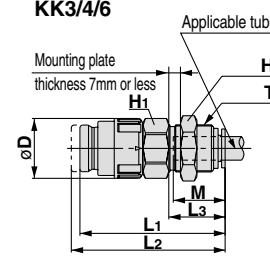
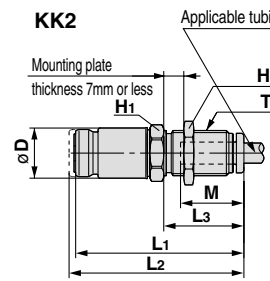
KK2



KK3/4/6



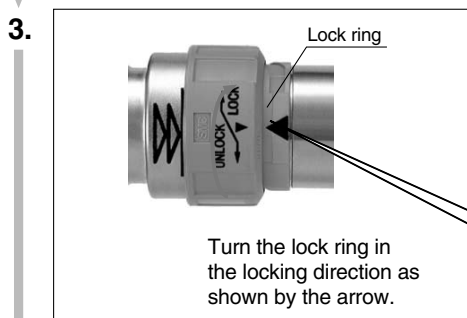
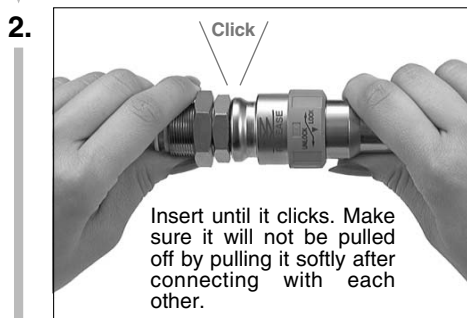
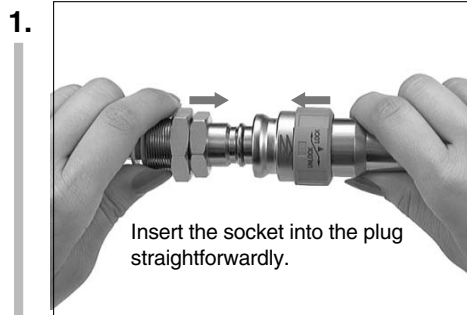
Body size	Model	Applicable tubing O.D. mm	T Threads	H1 Width across flats	H2 Width across flats	øD	L1	L2 When connected	L3	M	Min. bore size	Effective area mm ²		Weight g
												Urethane tubing	Nylon tubing	
M5	KK2S-23E	ø3.2	M8 x 0.75	10	10	10.0	33.8	35.3	13.0	12.7	2.5	3.8	4.6	9.6
	-04E	ø4	M9 x 0.75	11	11		33.5	35.0	13.0	12.7	3.4	4.0	4.8	9.1
	-06E	ø6	M11 x 0.75	14	14		33.9	35.4	13.1	13.5	4.7	5.8	5.8	12.6
1/8	KK3S-04E	ø4	M12 x 1	14	14	18.2	46.6	49.1	16.9	16.0	3.2	3.8	5.8	27.8
	-06E	ø6	M14 x 1	17	17		47.1	49.6	16.8	17.0	4.7	10.4	13.4	38.2
	-08E	ø8	M16 x 1	19	19		49.0	51.5	20.0	18.5	6.2	16.8	18.9	42.2
1/4	KK4S-06E	ø6	M20 x 1	22	24	25.4	49.9	52.4	22.0	21.0	7.7	19.1	19.1	67.1
	-08E	ø8	M14 x 1	19	19		58.2	61.9	16.8	17.0	4.7	10.4	13.4	54.4
	-10E	ø10	M16 x 1	19	19		60.1	63.8	20.0	18.5	6.2	18.3	21.8	57.8
1/2	KK6S-12E	ø12	M22 x 1	24	27	31.2	61.7	65.4	22.0	21.0	7.7	27.0	29.4	84.0
	-14E	ø14	M20 x 1	22	24		62.7	66.4	23.0	22.0	9.2	30.5	32.0	102.9
	-16E	ø16	M28 x 1.5	30	32		70.1	75.4	24.5	25.0	13.2	42.7	48.8	113.6



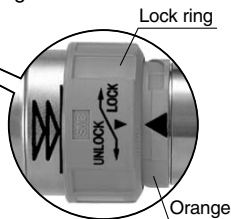
Series KK

Operating Procedure

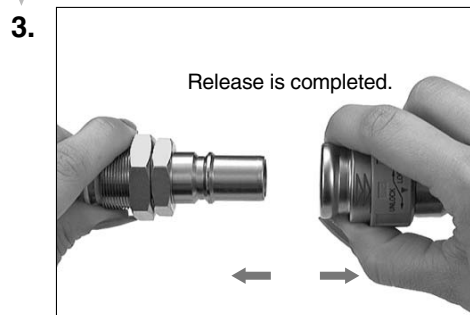
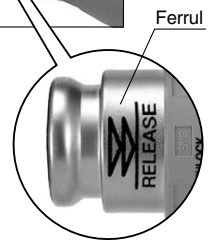
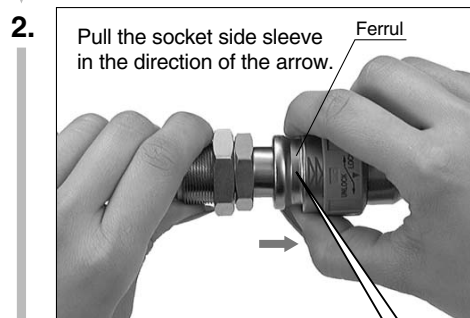
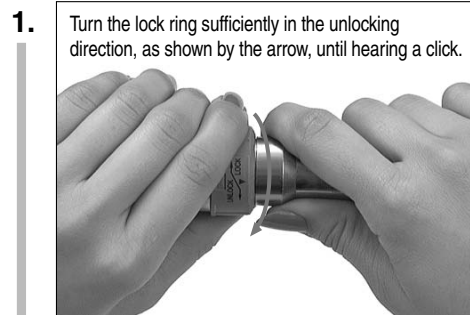
<Connection>



When the two ► marks face each other, the plug and the socket are locked. The locked condition can be confirmed with the visible orange section.

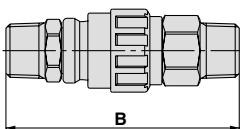


<Release>



Calculation of Connected Plug and Socket Dimensions

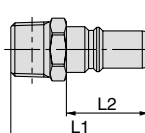
Overall length of connected plug and socket $B = \text{Plug } (L1 - L2) + \text{Socket } (L2) + 0.5$



Example) Overall length of KK3P-01MS (plug) and KK3S-01MS (socket) when they are connected.

Plug (30.4 - 18.4) + Socket (40) + 0.5 = 52.5 mm

Plug



Socket

