

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
	12	KK6P-12H
1/2	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
1/4	6	KK4P-06L
	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
	12	KK6P-12E
1/2	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
	12	KK6S-12H
1/2	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
1/4	6	KK4S-06L
	8	-08L
	10	-10L
	12	-12L
1/2	12	KK6S-12L
	16	-16L

Bulkhead type with One-touch fitting



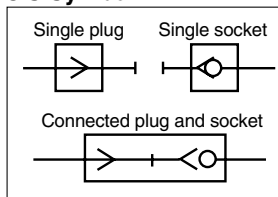
Body size	Applicable tubing O.D. mm	Part no.
M5	3.2	KK2S-23E
	4	-04E
	6	-06E
1/8	4	KK3S-04E
	6	-06E
	8	-08E
	10	-10E
	6	KK4S-06E
1/4	8	-08E
	10	-10E
	12	-12E
	12	KK6S-12E
1/2	16	-16E

S Couplers

Series *KK*



JIS Symbol



Specifications

Fluid	Air, Water
Operating pressure range Note)	KK2: -100 kPa to 1 MPa KK3: -90 kPa to 1 MPa KK4/6: 0 to 1 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	Air: -5 to 60°C Water: 5 to 40°C (No freezing)
Plating, Sealant	Electroless nickel plated (copper-free and fluorine-free application), With male thread sealant

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

Performance

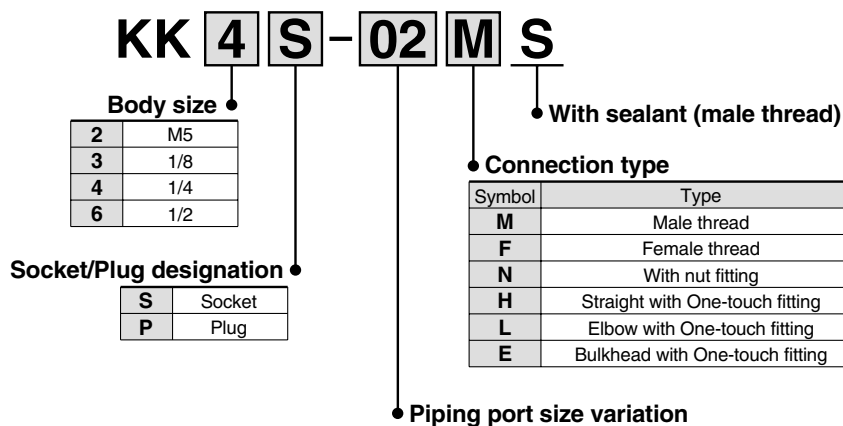
Plug and socket connection	One-touch connection and release
Check valve	Socket: Built-in check valve (standard)
Sleeve lock mechanism Note)	Manual locking type (standard)

Note) Series KK2 is not provided with lock mechanism.

Effective Area

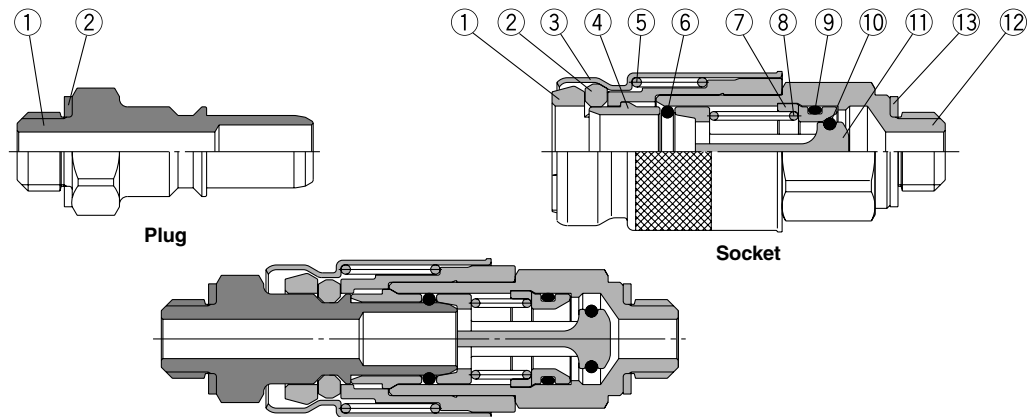
Body size	Plug	Socket	Effective area mm ²
M5	KK2P-M5M	KK2S-M5M	3.8
1/8	KK3P-01MS	KK3S-01MS	20
1/4	KK4P-02MS	KK4S-02MS	39
1/2	KK6P-04MS	KK6S-04MS	82

How to Order



Construction

KK2



Plug

No.	Description	Material	Note
1	Stem	C3604	Electroless nickel plated
2	Gasket	Stainless steel 304, NBR	

Series KK2 Spare Parts

Description	Part no.	No.
Gasket	M-5G2	Plug②
		Socket⑬

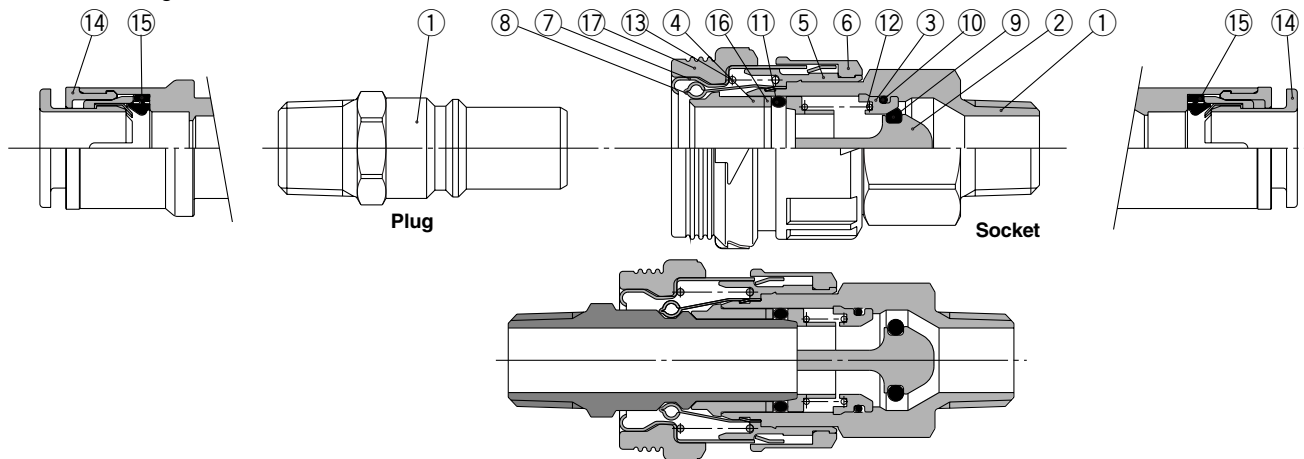
Socket

No.	Description	Material	Note
1	Spacer	PBT	
2	Chuck	PBT	
3	Sleeve	C2680	Electroless nickel plated
4	Collar	C3604	Electroless nickel plated
5	Sleeve spring	Stainless steel 304	
6	Plug O-ring	NBR	
7	Valve seat	PBT	
8	Valve spring	Stainless steel 304	
9	Valve seat O-ring	NBR	
10	Valve O-ring	FKM	
11	Valve	PBT	
12	Socket body	C3604	Electroless nickel plated
13	Gasket	Stainless steel 304, NBR	

KK3/4/6

<With One-touch fitting >

<With One-touch fitting >



Plug

No.	Description	Material	Note
1	Stem	C3604	Electroless nickel plated
14	Cassette	—	
15	Seal	NBR	

Series KK/KKH Spare Parts

Description	Part no.	No.
Sleeve cover	KK3S-P01	Socket⑰
	KK4S-P01	
	KK6S-P01	

Socket

No.	Description	Material	Note
1	Body	C3604	Electroless nickel plated
2	Valve	PBT	
3	Valve seat	PBT	
4	Collar	PBT	
5	Spacer	PBT	
6	Lock ring	Shock absorbent PBT	
7	Sleeve	Cold rolled carbon steel sheet	Electroless nickel plated
8	Chuck	Stainless steel 304	
9	Valve O-ring	FKM	
10	Valve seat O-ring	NBR	
11	Plug O-ring	NBR	
12	Valve spring	Stainless steel 304	
13	Sleeve spring	Stainless steel 304	
14	Cassette	—	
15	Seal	NBR	
16	Collar 2	Stainless steel 304	
17	Sleeve cover	Weather resistant NBR	

Straight type with One-touch fitting

(mm)

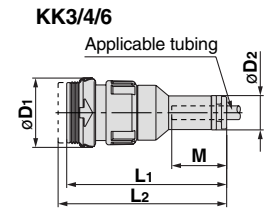
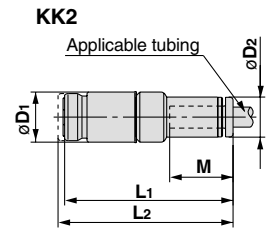
KK2



KK3/4/6



Body size	Model	Applicable tubing O.D.	øD1	øD2	L1	L2 When connected	M	Min. bore size	Effective area mm ²		Mass 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		4.7	5.8	5.8	7.9
1/8	KK3S-04H	ø4	20.2	10.0	46.6	49.1	16.0	3.2	3.8	5.8	22.5
	-06H	ø6		12.0	47.1	49.6	17.0	4.7	10.4	13.4	24.4
	-08H	ø8		14.0	48.9	51.4	18.5	6.2	16.8	18.9	27.3
	-10H	ø10		17.0	49.9	52.4	21.0	7.7	19.1	19.1	37.1
1/4	KK4S-06H	ø6	28.0	12.0	58.2	61.9	17.0	4.7	10.4	13.4	51.4
	-08H	ø8		14.0	60.1	63.8	18.5	6.2	18.3	21.8	51.3
	-10H	ø10		17.0	61.5	65.2	21.0	7.7	27.0	29.4	54.8
	-12H	ø12		19.0	62.5	66.2	22.0	9.2	30.5	32.0	59.4
1/2	KK6S-12H	ø12	31.6	25.7	70.1	75.4	25.0	13.2	42.7	48.8	84.1
	-16H	ø16		25.7	72.3	77.6			53.4	62.5	99.9



K ☐
M ☐
H ☐
KK ☒
D ☐
MS ☐
LQ ☐
MQR ☐
T ☐

Elbow type with One-touch fitting

(mm)

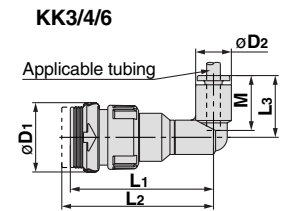
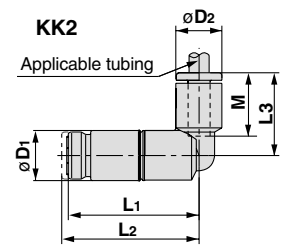
KK2



KK3/4/6



Body size	Model	Applicable tubing O.D.	øD1	øD2	L1	L2 When connected	L3	M	Min. bore size	Effective area mm ²		Mass 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		10.4	41.7	44.2	18.0	16.0	3.0	3.7	5.3	23.2
1/8	KK3S-04L	ø4	20.2	12.8	42.9	45.4	20.0	17.0	4.5	10.1	11.4	24.0
	-06L	ø6		15.2	43.1	45.6	23.0	18.5	6.0	15.0	16.8	25.0
	-08L	ø8		18.5	42.9	45.4	26.5	21.0	7.5	18.0	18.5	34.4
	-10L	ø10		12.8	54.3	58.0	20.0	17.0	4.5	10.1	11.4	53.5
1/4	KK4S-06L	ø6	28.0	15.2	55.5	59.2	23.0	18.5	6.0	17.5	19.8	53.1
	-08L	ø8		18.5	54.2	57.9	26.5	21.0	7.5	24.7	27.5	54.7
	-10L	ø10		20.9	55.4	59.1	28.5	22.0	9.0	29.0	29.6	57.0
	-12L	ø12		26.5	66.3	71.6	34.0	25.0	13.0	38.1	39.7	91.4
1/2	KK6S-12L	ø12	31.6	26.5	66.9	72.2	34.0	25.0	13.0	50.3	58.7	93.5
	-16L	ø16		26.5	66.9	72.2	34.0	25.0		50.3	58.7	93.5



Bulkhead type with One-touch fitting

(mm)

KK2



KK3/4/6



Body size	Model	Applicable tubing O.D.	T Threads	H1 Width across flats	H2 Width across flats	øD	L1	L2 When connected	L3	M	Min. bore size	Effective area mm ²		Mass 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			3.4	4.0	4.8	9.1
	-06E	ø6	M11 x 0.75	14	14		33.9	35.4			4.7	5.8	5.8	12.6
1/8	KK3S-04E	ø4	M12 x 1	14	14	20.2	46.6	49.1	16.9	16.0	3.2	3.8	5.8	29.0
	-06E	ø6	M14 x 1	17	17		47.1	49.6	16.8	17.0	4.7	10.4	13.4	39.4
	-08E	ø8	M16 x 1	19	19		49.0	51.5	20.0	18.5	6.2	16.8	18.9	43.4
	-10E	ø10	M20 x 1	22	24		49.9	52.4	22.0	21.0	7.7	19.1	19.1	68.3
1/4	KK4S-06E	ø6	M14 x 1	19	17	28.0	58.2	61.9	16.8	17.0	4.7	10.4	13.4	57.2
	-08E	ø8	M16 x 1	19	19		60.1	63.8	20.0	18.5	6.2	18.3	21.8	60.6
	-10E	ø10	M20 x 1	22	24		61.7	65.4	22.0	21.0	7.7	27.0	29.4	86.8
	-12E	ø12	M22 x 1	24	27		62.7	66.4	23.0	22.0	9.2	30.5	32.0	105.7
1/2	KK6S-12E	ø12	M22 x 1	24	27	31.6	70.1	75.4	24.5	25.0	13.2	42.7	48.8	116.0
	-16E	ø16	M28 x 1.5	30	32		72.5	77.8				53.4	62.5	183.2

