

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
	Rc 3/8	KK6P-03F
1/2	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
	Rc 3/8	KK6S-03F
1/2	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



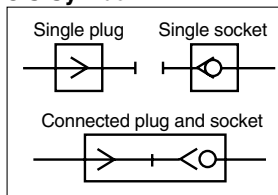
Body size	Applicable tubing O.D. mm	Part no.
M5	3.2	KK2S-23E
	4	-04E
	6	-06E
1/8	4	KK3S-04E
	6	-06E
	8	-08E
	10	-10E
	6	KK4S-06E
1/4	8	-08E
	10	-10E
	12	-12E
	12	KK6S-12E
1/2	16	-16E

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

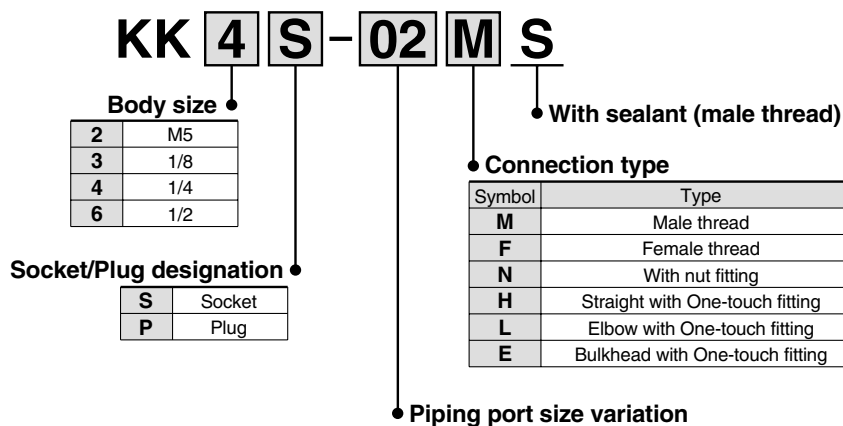
Plug and socket connection	One-touch connection and release
Check valve	Socket: Built-in check valve (standard)
Sleeve lock mechanism Note)	Manual locking type (standard)

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



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

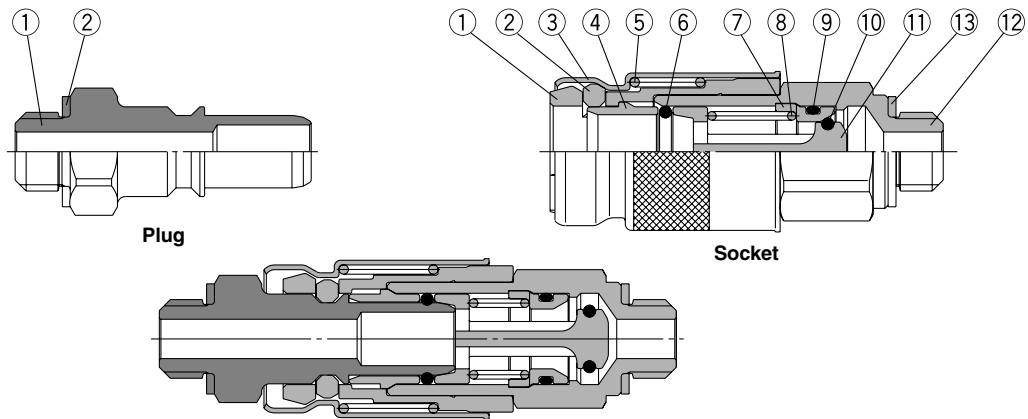
Symbol	Applicable tubing O.D. mm
23	ø3.2
04	ø4
06	ø6
08	ø8
10	ø10
12	ø12
16	ø16

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

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

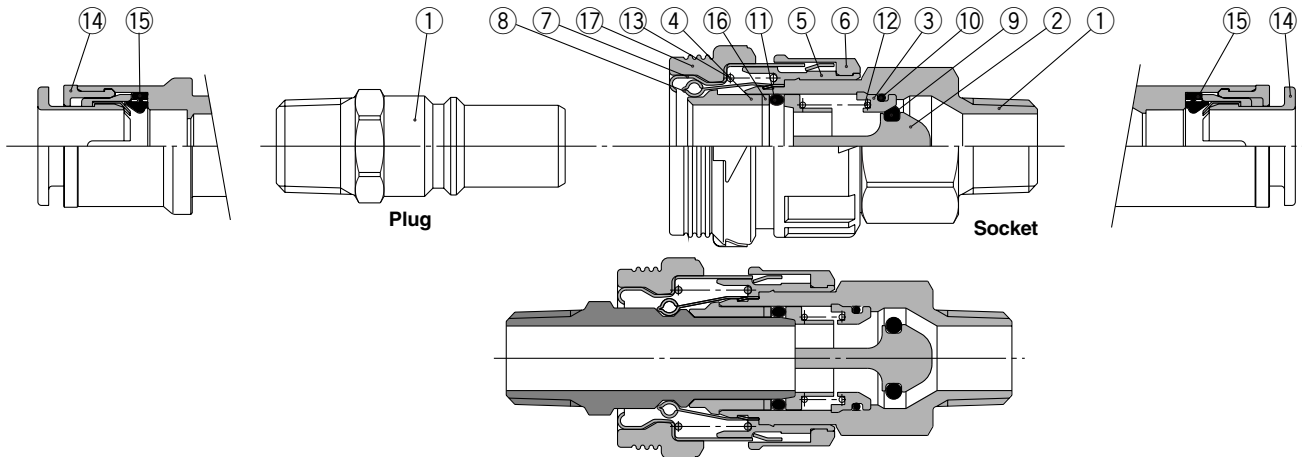
Socket

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

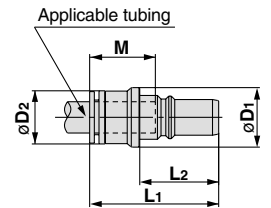
No.	Description	Material	Note
1	Body	C3604	Electroless nickel plated
2	Valve	PBT	
3	Valve seat	PBT	
4	Collar	PBT	
5	Spacer	PBT	
6	Lock ring	Shock absorbent PBT	
7	Sleeve	Cold rolled carbon steel sheet	Electroless nickel plated
8	Chuck	Stainless steel 304	
9	Valve O-ring	FKM	
10	Valve seat O-ring	NBR	
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)



Body size	Model	Applicable tubing O.D.	øD1	øD2	L1	L2	M	Min. bore size	Effective area mm ²		Mass g
									Urethane tubing	Nylon tubing	
M5	KK2P-23H	ø3.2	10.0	7.0	23.7	12.3	12.7	2.5	3.7	4.4	3.3
	-04H	ø4		8.0	26.7		13.5	3.4	8.1	8.1	3.4
	-06H	ø6		10.0	26.7		13.5	3.4	8.1	8.1	4.0
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	35.4		17.0	4.7	10.1	12.8	9.1
	-08H	ø8	16.0	14.0	38.6		18.5	6.0	15.7	22.6	13.2
	-10H	ø10	19.0	17.0	39.7		21.0	6.0	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			18.5	6.2	19.8	22.6	23.0
	-10H	ø10	19.0	17.0			21.0	7.7	27.6	35.3	27.1
	-12H	ø12	21.0	19.0			22.0	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	23.8			25.0	13.0	—	106.2	50.7



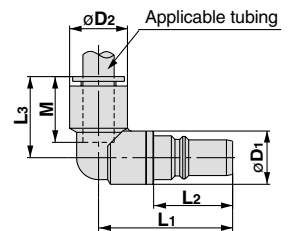
K ☐
M ☐
H ☐
KK
D ☐
MS
LQ
MQR
T ☐

Elbow type with One-touch fitting

(mm)



Body size	Model	Applicable tubing O.D.	øD1	øD2	L1	L2	L3	M	Min. bore size	Effective area mm ²		Mass 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		12.8	32.8		20.0	17.0	4.5	10.1	11.4	8.0
1/8	KK3P-04L	ø4	12.0	10.4	31.6	18.4	18.0	16.0	3.0	3.7	5.3	7.2
	-06L	ø6		12.8	32.8		20.0	17.0	4.5	10.1	11.4	8.0
	-08L	ø8		15.2	34.0		23.0	18.5	6.0	15.0	16.8	9.7
	-10L	ø10		17.0	36.0		26.5	21.0	6.0	18.0	18.5	23.0
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		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	19.0	49.9	31.0	34.0	25.0	13.0	38.1	39.7	40.3
	-16L	ø16	21.0	26.5	53.5		34.0	25.0	13.0	—	58.7	48.7



Bulkhead type with One-touch fitting

(mm)



Body size	Model	Applicable tubing O.D.	T Threads	H1 Width across flats	H2 Width across flats	L1	L2	L3	M	Min. bore size	Effective area mm ²		Mass 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	10	11	28.6		12.7	13.5	3.4	8.1	8.1	6.6
	-06E	ø6	M11 x 0.75	14	14	28.6		16.9	16.0	3.2	3.9	5.6	16.6
1/8	KK3P-04E	ø4	M12 x 1	17	17	39.3	18.4	16.8	17.0	4.7	10.1	12.8	22.3
	-06E	ø6	M14 x 1		17	40.2		20.0	18.5	6.0	15.7	22.6	30.2
	-08E	ø8	M16 x 1		19	43.4		22.0	21.0	6.0	22.6	22.6	54.7
	-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	32	60.1	31.0	23.0	22.0	9.2	41.2	50.9	86.1
	-16E	ø16	M28 x 1.5		32	62.6		24.5	25.0	13.0	—	106.2	125.0

