

S Couplers

Series KK



The pulling strength for the plugs and sockets has been improved.

Twice

as strong as the conventional models

We standardized the product with a sleeve cover. Changing the lock ring material to a shock absorbent PBT further improved the shock absorbent performance.

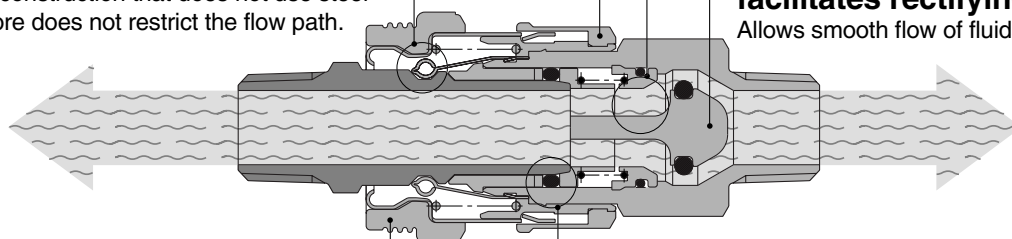
Employs a unique connection method

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.

Lock ring
Shock absorbent PBT

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.



Sleeve cover
(Except for Series KK2)

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

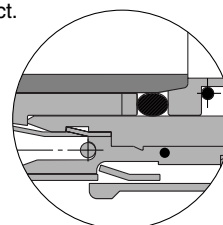
Light weight

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) Note 1)	Body O.D. (mm)	Mass (g) Note 2)
Series KK2	KK2P-M5M	KK2S-M5M	3.8	ø10.0	6.1
Series KK3	KK3P-01MS	KK3S-01MS	20	ø20.2	20.1
Series KK4	KK4P-02MS	KK4S-02MS	39	ø28.0	44.1
Series KK6	KK6P-04MS	KK6S-04MS	82	ø31.6	90.1

Note 1) Values when plug and socket are connected.

Note 2) Values for socket only.



One-touch fitting type standardized

Four types from ø3.2 to ø16 added to series.

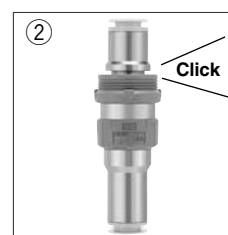
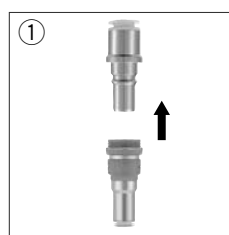


Flow is possible from the plug side or socket side.

Fluids: Air and Water

One-touch connection

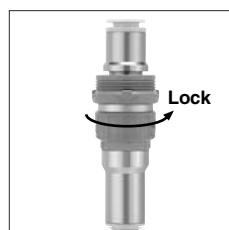
Simple connection with one hand simplifies work.



Sleeve lock mechanism

Prevents accidents caused by unexpected separation.

Note) Except for M5 type (Series KK2).

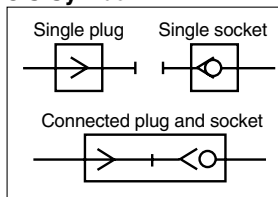


S Couplers

Series *KK*



JIS Symbol



Specifications

Fluid	Air, Water
Operating pressure range <small>Note)</small>	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

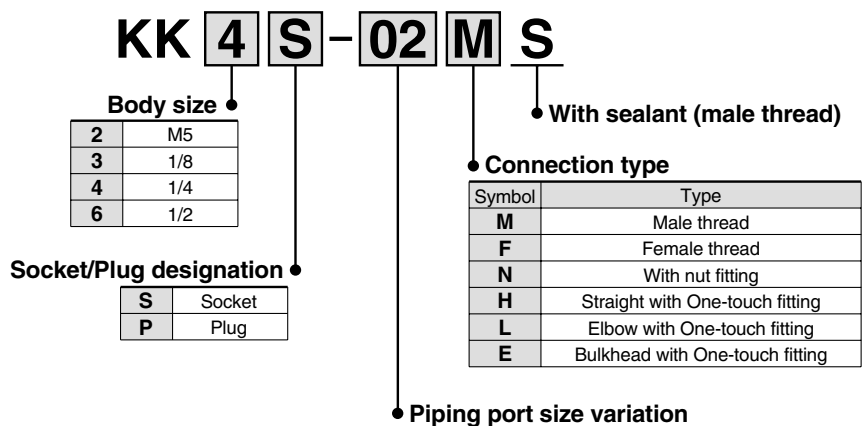
Plug and socket connection	One-touch connection and release
Check valve	Socket: Built-in check valve (standard)
Sleeve lock mechanism <small>Note)</small>	Manual locking type (standard)

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



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

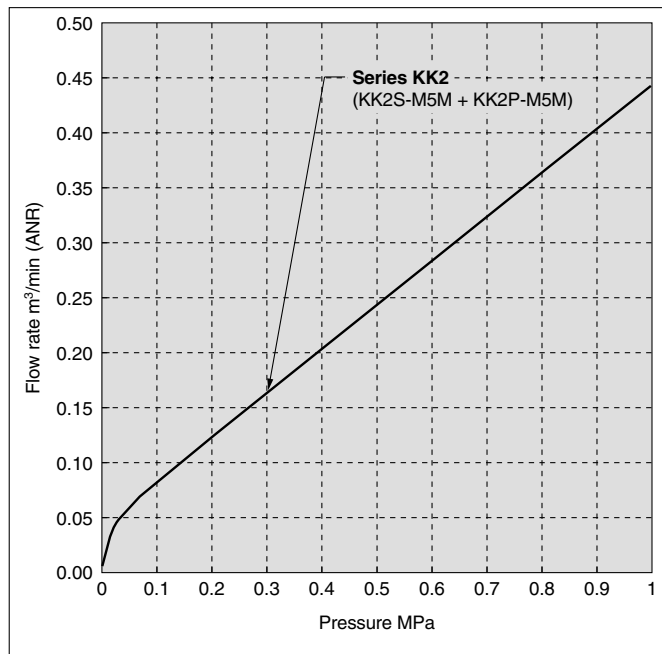
Symbol	Applicable hose I.D./O.D. mm
50	5/8
60	6/9
65	6.5/10
80	8/12
85	8.5/12.5
110	11/16

Series KK

Flow Characteristics

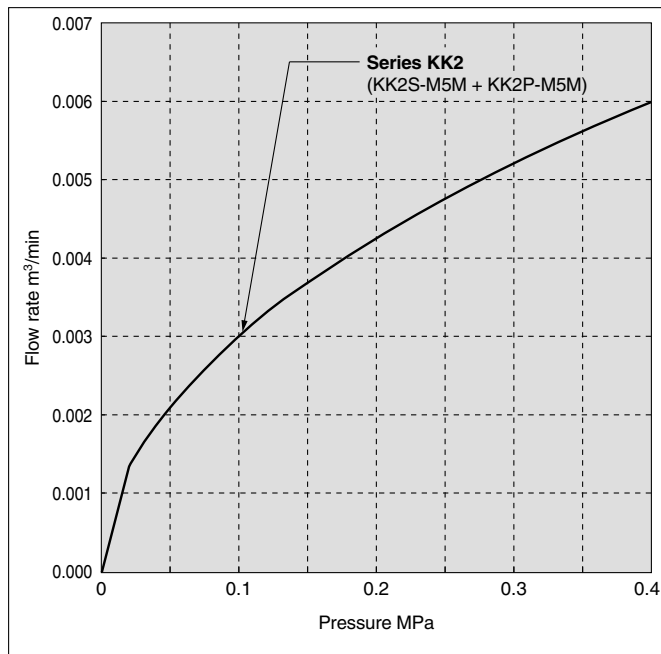
Air (0 to 1 MPa)

KK2

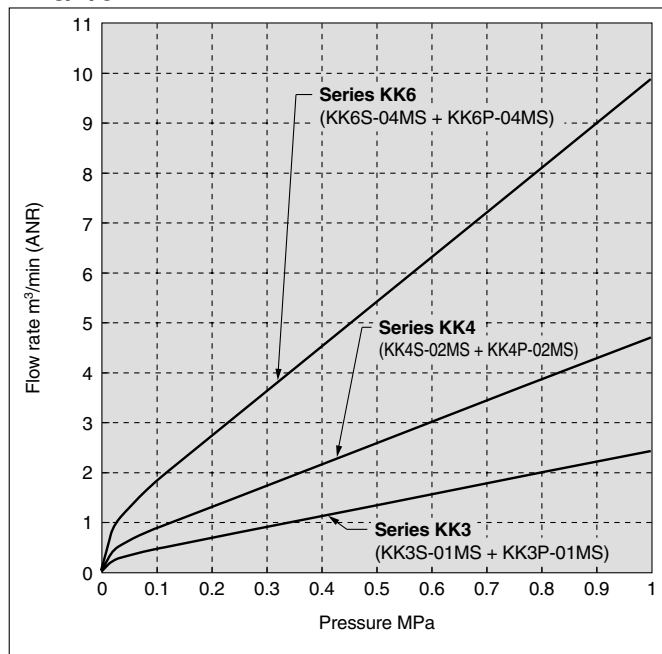


Water (0 to 0.4 MPa)

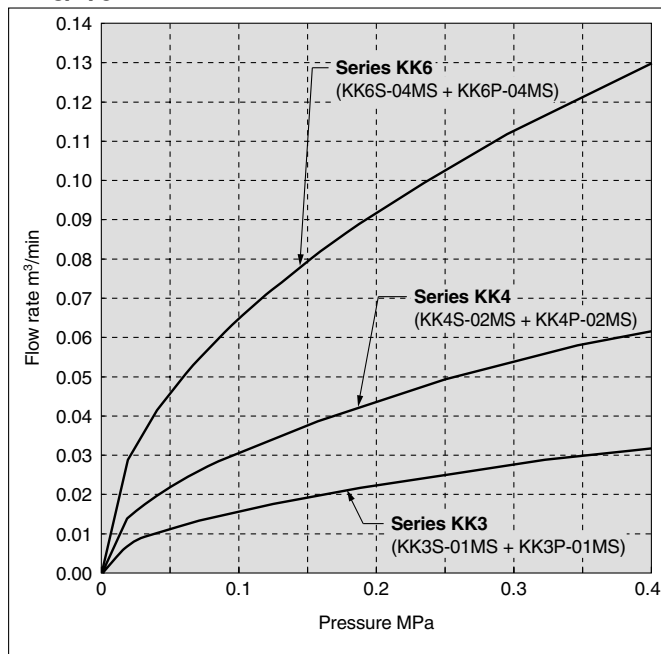
KK2



KK3/4/6

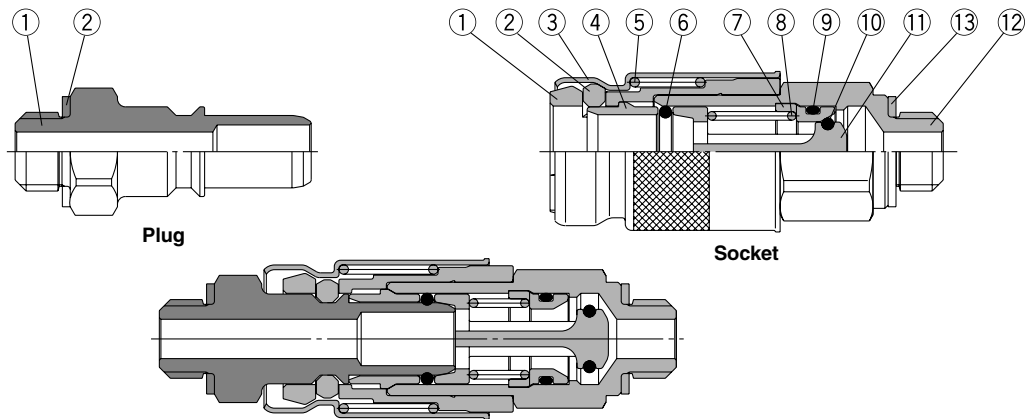


KK3/4/6



Construction

KK2



Plug

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

Series KK2 Spare Parts

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

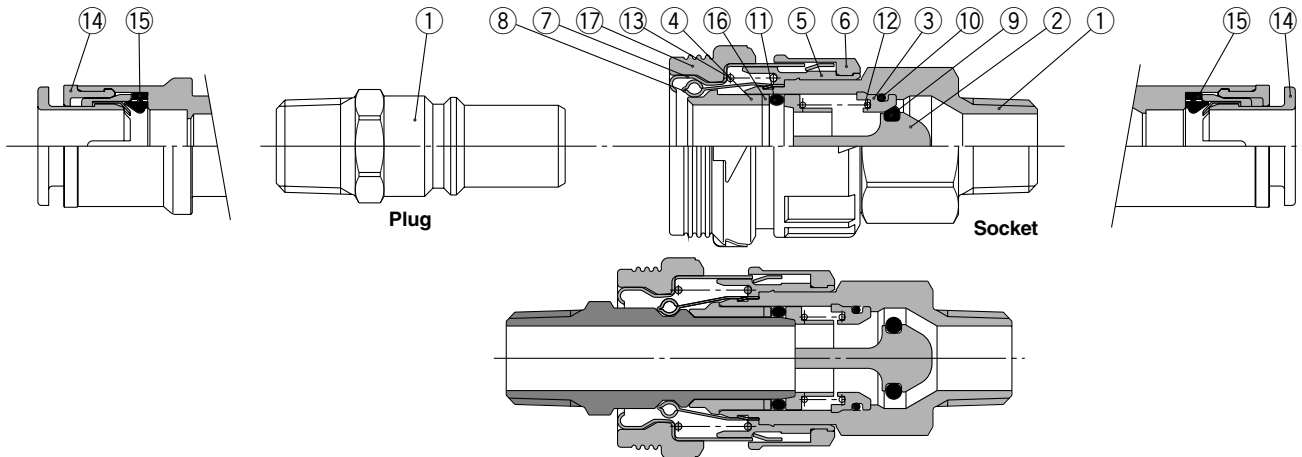
Socket

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	