

S Couplers

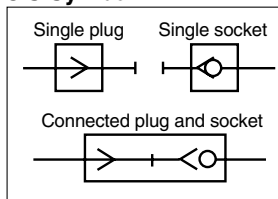
Series *KK*



Series KK2

Series KK3/4/6

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

KK 4 S - 02 M S

- Body size**

2	M5
3	1/8
4	1/4
6	1/2
- Socket/Plug designation**

S	Socket
P	Plug
- With sealant (male thread)**
- Connection type**

Symbol	Type
M	Male thread
F	Female thread
N	With nut fitting
H	Straight with One-touch fitting
L	Elbow with One-touch fitting
E	Bulkhead with One-touch fitting
- Piping port size variation**

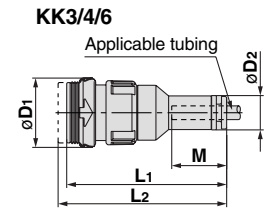
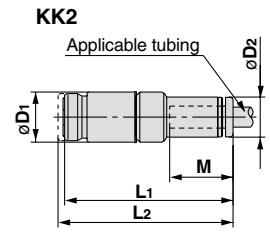
Male/Female thread type		One-touch fitting type		Nut fitting type	
Symbol	Thread size	Symbol	Applicable tubing O.D. mm	Symbol	Applicable hose I.D./O.D. mm
M5	M5 x 0.8	23	ø3.2	50	5/8
01	R, Rc 1/8	04	ø4	60	6/9
02	R, Rc 1/4	06	ø6	65	6.5/10
03	R, Rc 3/8	08	ø8	80	8/12
04	R, Rc 1/2	10	ø10	85	8.5/12.5
06	R, Rc 3/4	12	ø12	110	11/16
		16	ø16		

- K
- M
- H
- KK
- D
- MS
- LQ
- MQR
- T

Straight type with One-touch fitting

(mm)

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			4.7	10.4	13.4	24.4
	-08H	ø8		14.0	48.9	51.4			6.2	16.8	18.9	27.3
	-10H	ø10		17.0	49.9	52.4			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			6.2	18.3	21.8	51.3
	-10H	ø10		17.0	61.5	65.2			7.7	27.0	29.4	54.8
	-12H	ø12		19.0	62.5	66.2			9.2	30.5	32.0	59.4
1/2	KK6S-12H	ø12	31.6	19.0	70.1	75.4	22.0	9.2	42.7	48.8	84.1	
	-16H	ø16		25.7	72.3	77.6			13.2	53.4	62.5	99.9

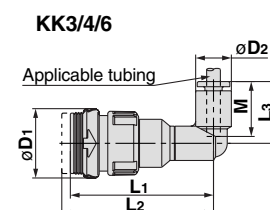
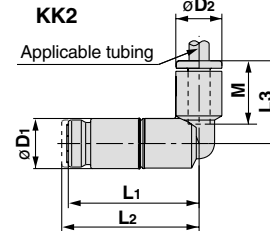


- K
- M
- H
- KK
- D
- MS
- LQ
- MQR
- T

Elbow type with One-touch fitting

(mm)

Body size	Model	Applicable tubing O.D.	øD1	øD2	L1	L2 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	ø16	31.6	26.5	66.9	72.2	34.0	25.0	13.0	50.3	58.7	93.5	



Bulkhead type with One-touch fitting

(mm)

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		33.5	35.0				3.4	4.0	4.8	9.1		
	-06E	ø6	M11 x 0.75		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		47.1	49.6				4.7	10.4	13.4	39.4		
	-08E	ø8	M16 x 1		17		49.0	51.5				20.0	18.5	6.2	16.8	18.9	43.4
	-10E	ø10	M20 x 1		22		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		60.1	63.8				20.0	18.5	6.2	18.3	21.8	60.6
	-10E	ø10	M20 x 1		22		61.7	65.4				22.0	21.0	7.7	27.0	29.4	86.8
	-12E	ø12	M22 x 1		24		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	9.2	42.7	48.8	116.0			
	-16E	ø16	M28 x 1.5		30		72.5	77.8				13.2	53.4	62.5	183.2		

