

Series KKA

Plug (P)

Male thread type

	Body size	Port size	Part no.	
			With check valve	Without check valve
	1/8	R 1/8	KKA3P-01M	KKA3P-01M-1
		R 1/4	-02M	-02M-1
		R 3/8	-03M	-03M-1
	1/4	R 1/4	KKA4P-02M	KKA4P-02M-1
		R 3/8	-03M	-03M-1
		R 1/2	-04M	-04M-1
	1/2	R 3/8	KKA6P-03M	KKA6P-03M-1
		R 1/2	-04M	-04M-1
		R 3/4	-06M	-06M-1
	3/4	R 1/2	KKA7P-04M	—
		R 3/4	-06M	—
		R 1	-10M	—
	1	R 3/4	KKA8P-06M	—
		R 1	-10M	—
		R 1 1/4	-12M	—
	1 1/4	R 1	KKA9P-10M	—
		R 1 1/4	-12M	—
		R 1 1/2	-14M	—

Female thread type

	Body size	Port size	Part no.	
			With check valve	Without check valve
	1/8	Rc 1/8	KKA3P-01F	KKA3P-01F-1
		Rc 1/4	-02F	-02F-1
		Rc 3/8	-03F	-03F-1
	1/4	Rc 1/4	KKA4P-02F	KKA4P-02F-1
		Rc 3/8	-03F	-03F-1
		Rc 1/2	-04F	-04F-1
	1/2	Rc 3/8	KKA6P-03F	KKA6P-03F-1
		Rc 1/2	-04F	-04F-1
		Rc 3/4	-06F	-06F-1
	3/4	Rc 1/2	KKA7P-04F	—
		Rc 3/4	-06F	—
		Rc 1	-10F	—
	1	Rc 3/4	KKA8P-06F	—
		Rc 1	-10F	—
		Rc 1 1/4	-12F	—
	1 1/4	Rc 1	KKA9P-10F	—
		Rc 1 1/4	-12F	—
		Rc 1 1/2	-14F	—

Socket (S)

Male thread type

	Body size	Port size	Part no.	
			With check valve	Without check valve
	1/8	R 1/8	KKA3S-01M	KKA3S-01M-1
		R 1/4	-02M	-02M-1
		R 3/8	-03M	-03M-1
	1/4	R 1/4	KKA4S-02M	KKA4S-02M-1
		R 3/8	-03M	-03M-1
		R 1/2	-04M	-04M-1
	1/2	R 3/8	KKA6S-03M	KKA6S-03M-1
		R 1/2	-04M	-04M-1
		R 3/4	-06M	-06M-1
	3/4	R 1/2	KKA7S-04M	—
		R 3/4	-06M	—
		R 1	-10M	—
	1	R 3/4	KKA8S-06M	—
		R 1	-10M	—
		R 1 1/4	-12M	—
	1 1/4	R 1	KKA9S-10M	—
		R 1 1/4	-12M	—
		R 1 1/2	-14M	—

Female thread type

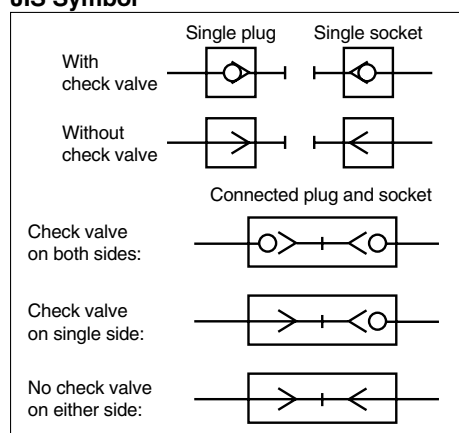
	Body size	Port size	Part no.	
			With check valve	Without check valve
	1/8	Rc 1/8	KKA3S-01F	KKA3S-01F-1
		Rc 1/4	-02F	-02F-1
		Rc 3/8	-03F	-03F-1
	1/4	Rc 1/4	KKA4S-02F	KKA4S-02F-1
		Rc 3/8	-03F	-03F-1
		Rc 1/2	-04F	-04F-1
	1/2	Rc 3/8	KKA6S-03F	KKA6S-03F-1
		Rc 1/2	-04F	-04F-1
		Rc 3/4	-06F	-06F-1
	3/4	Rc 1/2	KKA7S-04F	—
		Rc 3/4	-06F	—
		Rc 1	-10F	—
	1	Rc 3/4	KKA8S-06F	—
		Rc 1	-10F	—
		Rc 1 1/4	-12F	—
	1 1/4	Rc 1	KKA9S-10F	—
		Rc 1 1/4	-12F	—
		Rc 1 1/2	-14F	—

S Couplers Series KKA

Stainless steel type



JIS Symbol



Characteristics with check valve on both sides

Body size	Liquid dripping cm ³ at each removal	Aeration cm ³ at each removal
KKA3	0.02	0.1
KKA4	0.04	0.1
KKA6	0.06	0.2
KKA7	0.14	0.5
KKA8	0.27	0.9
KKA9	0.77	2.7

Liquid dripping:

Volume of water leakage at the time when the plug and socket are uncoupled.

Aeration:

Volume of external air entrained when the plug and socket are connected.

Specifications

Fluid	Water, Air
Operating pressure range	Note 1) KKA3: -100 kPa to 1 MPa KKA4/6/7/8/9: 0 to 1 MPa
Proof pressure	10 MPa
Ambient and fluid temperature	-5 to 150°C (No freezing) Note) This product should not be used with steam.
Non-greased specification	No grease is used. Rubber: Fluorine coated, (Metal sliding parts: Plated with fluorine-contained material)
Material	Metal part: Stainless steel 304, Rubber material: Fluoro rubber (Special FKM)
Seal	With male thread sealant

Note 1) Do not use the S couplers with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.

Note 2) When fluid contains copper ions, please use KKA□-X70. (p. 275)

Performance

Plug and socket connection	One-touch connection and release
Check valve	Check valve on both sides, Without check valve

Note) Series KKA cannot be connected with Series KK or Series KKH.

Effective Area

Built-in check valve	Plug	Socket	Effective area mm ²
Plug: With check valve Socket: With check valve	KKA3P-01F	KKA3S-01F	17.4
	KKA4P-02F	KKA4S-02F	26.4
	KKA6P-04F	KKA6S-04F	54.2
	KKA7P-06F	KKA7S-06F	99.6
	KKA8P-10F	KKA8S-10F	168.3
	KKA9P-12F	KKA9S-12F	332.1
Plug: Without check valve Socket: With check valve	KKA3P-01M-1	KKA3S-01M	18.5
	KKA4P-02M-1	KKA4S-02M	31.8
	KKA6P-04M-1	KKA6S-04M	55.3
Plug: Without check valve Socket: Without check valve	KKA3P-01M-1	KKA3S-01M-1	22.6
	KKA4P-02M-1	KKA4S-02M-1	40.2
	KKA6P-04M-1	KKA6S-04M-1	76.0

How to Order

KKA 4 P - 02 M

Body size

3	1/8
4	1/4
6	1/2
7	3/4
8	1
9	1 1/4

Socket/Plug designation

P	Plug
S	Socket

Port size

Symbol	Thread size
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
10	R, Rc 1
12	R, Rc 1 1/4
14	R, Rc 1 1/2

Built-in check valve

Nil	With check valve
-1	Without check valve

Note) KKA7/8/9 is not available without a check valve. Contact us when such a type is needed.

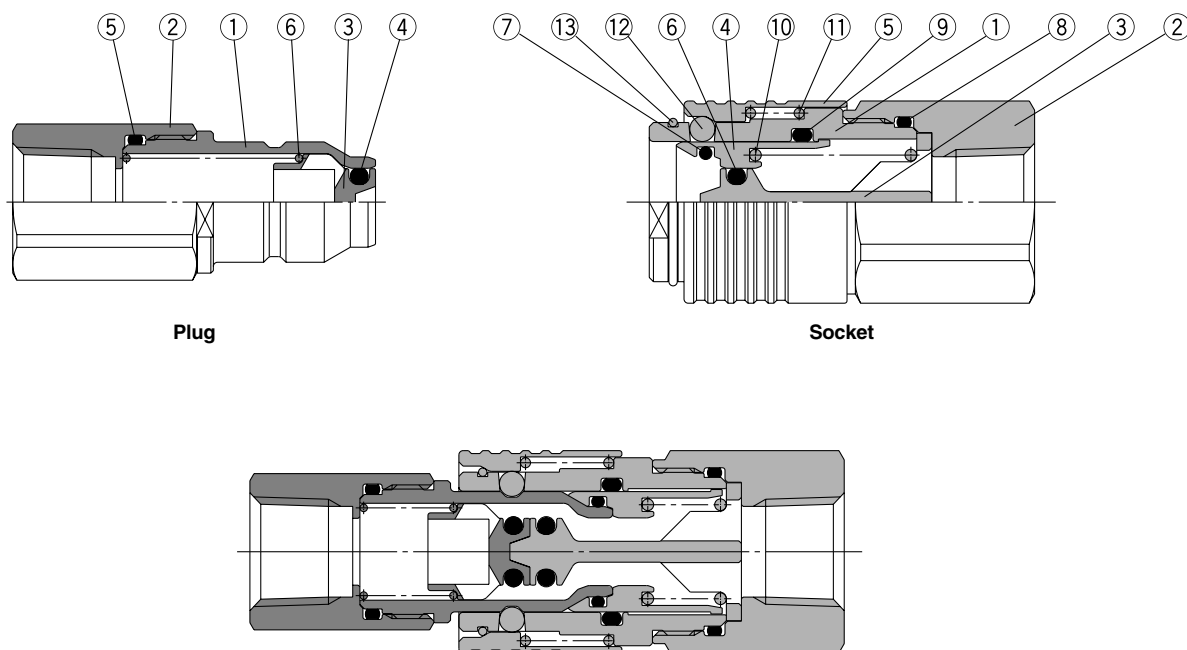
Connection type

Symbol	Type
M	Male thread (with sealant)
F	Female thread

Built-in check valve	Plug	Socket	Availability
Yes	Yes	Yes	○
No	Yes	No	○
No	No	No	○
Yes	No	No	×

Note) A plug with check valve should be used in combination with a socket with check valve.
If a socket without check valve is used, the check valve of the plug will not open.

Construction


☐ K

☐ M

☐ H

☒ KK

☐ D

☐ MS

☐ LQ

☐ MQR

☐ T

Plug

No.	Description	Material	Note
1	Stem	Stainless steel 304	Plated with fluorine-contained material
2	Rear stem	Stainless steel 304	
3	Plug valve	Stainless steel 304	
4	Valve O-ring	Special FKM	Fluorine coated
5	Stem O-ring	Special FKM	Fluorine coated
6	Plug valve spring	Stainless steel 304	

Socket

No.	Description	Material	Note
1	Body	Stainless steel 304	Plated with fluorine-contained material
2	Rear body	Stainless steel 304	
3	Socket valve	Stainless steel 304	
4	Collar	Stainless steel 304	Plated with fluorine-contained material
5	Sleeve	Stainless steel 304	Plated with fluorine-contained material
6	Valve O-ring	Special FKM	Fluorine coated
7	Plug O-ring	Special FKM	Fluorine coated
8	Body O-ring	Special FKM	Fluorine coated
9	Collar seal	Special FKM	Fluorine coated
10	Collar spring	Stainless steel 304	
11	Sleeve spring	Stainless steel 304	
12	Steel ball	Stainless steel 304	
13	Stopper ring	Stainless steel 304	

Series KKA Spare Parts

Description	Product no.	No.
Plug O-ring	KKA3S-P01	Socket ⑦
	KKA4S-P01	
	KKA6S-P01	
	KKA7S-P01	
	KKA8S-P01	
	KKA9S-P01	

Series KKA

Dimensions/Plug (P)

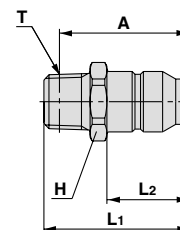
Without check valve

Male thread type

(mm)



Body size	Model	T Connection port size	H Width across flats	L1	L2	A	Min. bore size	Effective area mm ²	Mass g
1/8	KKA3P-01M-1	R 1/8	12	28.5	16.0	24.5	6.0	22.6	9.8
	-02M-1	R 1/4	14	31.5		25.5			14.6
	-03M-1	R 3/8		32.5		26.0			23.6
1/4	KKA4P-02M-1	R 1/4	17	34.4	18.9	28.4	8.0	40.2	21.0
	-03M-1	R 3/8		35.4		28.9			27.9
	-04M-1	R 1/2		39.4		31.4			50.2
1/2	KKA6P-03M-1	R 3/8	22	37.9	20.4	31.4	11.0	76.0	41.9
	-04M-1	R 1/2		40.9		32.9			56.0
	-06M-1	R 3/4	30	42.9		33.4			98.7

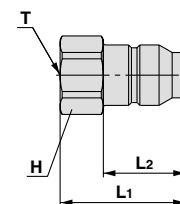


Female thread type

(mm)



Body size	Model	T Connection port size	H Width across flats	L1	L2	Min. bore size	Effective area mm ²	Mass g
1/8	KKA3P-01F-1	Rc 1/8	14	23.2	16.0	6.0	22.6	9.6
	-02F-1	Rc 1/4	17	30.3				20.2
	-03F-1	Rc 3/8	19	32.0				26.2
1/4	KKA4P-02F-1	Rc 1/4	17	29.7	18.9	8.0	40.2	20.0
	-03F-1	Rc 3/8	19	34.0				25.8
	-04F-1	Rc 1/2	24	39.4				46.1
1/2	KKA6P-03F-1	Rc 3/8	22	30.9	20.4	11.0	76.0	34.3
	-04F-1	Rc 1/2	24	39.6				50.0
	-06F-1	Rc 3/4	30	42.8				78.6



Dimensions/Socket (S)

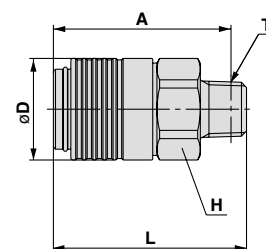
Without check valve

Male thread type

(mm)



Body size	Model	T Connection port size	H Width across flats	øD	L	A	Min. bore size	Effective area mm ²	Mass g
1/8	KKA3S-01M-1	R 1/8	17	18.5	38.1	34.1	6.1	23.4	36.1
	-02M-1	R 1/4			41.1	35.1			39.4
	-03M-1	R 3/8			42.1	35.6			43.9
1/4	KKA4S-02M-1	R 1/4	22	24.2	46.0	40.0	8.1	41.2	71.9
	-03M-1	R 3/8			47.0	40.5			73.6
	-04M-1	R 1/2			50.0	42.0			81.7
1/2	KKA6S-03M-1	R 3/8	30	30.7	51.4	44.9	11.4	81.6	138.3
	-04M-1	R 1/2			54.4	46.4			149.6
	-06M-1	R 3/4			56.4	46.9			174.0



Female thread type

(mm)



Body size	Model	T Connection port size	H Width across flats	øD	L	Min. bore size	Effective area mm ²	Mass g
1/8	KKA3S-01F-1	Rc 1/8	17	18.5	37.6	6.1	23.4	44.5
	-02F-1	Rc 1/4			41.2			44.8
	-03F-1	Rc 3/8			43.1			49.9
1/4	KKA4S-02F-1	Rc 1/4	22	24.2	46.1	8.1	41.2	92.2
	-03F-1	Rc 3/8			46.9			86.2
	-04F-1	Rc 1/2			52.3			99.4
1/2	KKA6S-03F-1	Rc 3/8	30	30.7	50.5	11.4	81.6	178.8
	-04F-1	Rc 1/2			56.2			191.2
	-06F-1	Rc 3/4			57.9			169.8

