

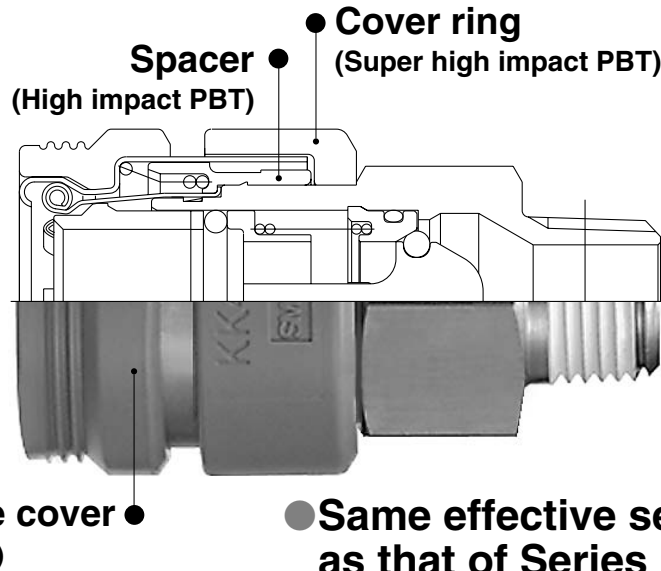
# S Couplers

# Series KKH



**With shock absorption cover**


- **Able to absorb drop impact (equivalent to impact energy of 0.5 J).**




- **Same effective sectional area as that of Series KK.**

## Plug (P)


### Male thread type

	Body size	Connection port size	Part no.
	1/8	R 1/8	
R 1/4			<b>-02MS</b>
R 3/8			<b>-03MS</b>
1/4	R 1/8		<b>KK4P-01MS</b>
	R 1/4		<b>-02MS</b>
	R 3/8		<b>-03MS</b>
	R 1/2		<b>-04MS</b>

### Female thread type


	Body size	Connection port size	Part no.
	1/8	Rc 1/8	
Rc 1/4			<b>-02F</b>
Rc 3/8			<b>-03F</b>
1/4	Rc 1/4		<b>KK4P-02F</b>
	Rc 3/8		<b>-03F</b>

### Nut fitting type (for fiber reinforced urethane hose)


	Body size	Applicable hose I.D./O.D. mm	Part no.
	1/8	5/8	
6/9			<b>-60N</b>
6.5/10			<b>-65N</b>
1/4	5/8		<b>KK4P-50N</b>
	6/9		<b>-60N</b>
	6.5/10		<b>-65N</b>
	8/12		<b>-80N</b>
	8.5/12.5		<b>-85N</b>

## Socket (S)


### Male thread type

	Body size	Connection port size	Part no.
	1/8	R 1/8	
R 1/4			<b>-02MS</b>
R 3/8			<b>-03MS</b>
1/4	R 1/8		<b>KKH4S-01MS</b>
	R 1/4		<b>-02MS</b>
	R 3/8		<b>-03MS</b>
	R 1/2		<b>-04MS</b>

### Female thread type

	Body size	Connection port size	Part no.
	1/8	Rc 1/8	
Rc 1/4			<b>-02F</b>
Rc 3/8			<b>-03F</b>
1/4	Rc 1/4		<b>KKH4S-02F</b>
	Rc 3/8		<b>-03F</b>

### Nut fitting type (for fiber reinforced urethane hose)

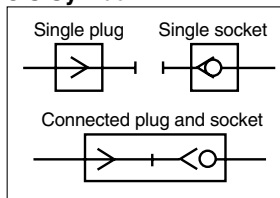
	Body size	Applicable hose I.D./O.D. mm	Part no.
	1/8	5/8	
6/9			<b>-60N</b>
6.5/10			<b>-65N</b>
1/4	5/8		<b>KKH4S-50N</b>
	6/9		<b>-60N</b>
	6.5/10		<b>-65N</b>
	8/12		<b>-80N</b>
	8.5/12.5		<b>-85N</b>

Series KKH are only available as sockets.  
Series KK should be used as plugs.

# S Couplers With Shock Absorption Cover Series *KKH*



## JIS Symbol



## Specifications

Fluid	Air/Water (Standard industrial water)
Operating pressure range <sup>Note)</sup>	KKH3: -90kPa to 1.0MPa KKH4: 0 to 1.0MPa
Proof pressure	1.5MPa
Ambient and fluid temperature	Air: -5 to 60°C Water: 5 to 40°C (with no freezing)
Plating, Seal	Electroless nickel plated (Copper-free application), With male thread sealant
Connection plug	Series KK plug

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	—

## Effective Area

Body size	Plug	Socket	Effective area mm <sup>2</sup>
1/8	<b>KK3P-01MS</b>	<b>KKH3S-01MS</b>	20
1/4	<b>KK4P-02MS</b>	<b>KKH4S-02MS</b>	39

The flow characteristics are the same as those of Series KK.  
Please refer to page 15-2-78.

## How to Order

**KKH 4 S - 02 M S**

- Body size**

3	1/8
4	1/4
- Socket/Plug designation**

S	Socket
---	--------
- Connection type**

Symbol	Type
M	Male thread
F	Female thread
N	With nut fitting
- Piping port size variations**

Male/Female thread type	
Symbol	Connection port size
01	R, Rc 1/8
02	R, Rc 1/4
03	R, Rc 3/8
04	R, Rc 1/2

Nut fitting type	
Symbol	Hose I.D./O.D. mm
50	5/8
60	6/9
65	6.5/10
80	8/12
85	8.5/12.5
- With seal (male thread)**

# Series KKH

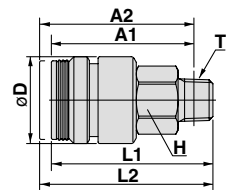
## Dimensions: Socket (S)

### Male thread type

(mm)



Body size	Model	T Connection port size	H Width across flats	øD	L1	L2 When connected	A1*	A2* When connected	Min. bore size	Effective area mm <sup>2</sup>	Weight g
1/8	KKH3S-01MS	R 1/8	14	19.6	37.5	40.0	33.5	36.0	6.0	20.4	20.4
	-02MS	R 1/4					31.5	34.0	9.0	21.1	19.5
	-03MS	R 3/8					32.2	34.5	9.0	21.1	27.8
1/4	KKH4S-01MS	R 1/8	19	27.3	50.4	54.1	46.4	50.1	6.0	22.9	48.8
	-02MS	R 1/4			51.0	54.7	45.0	48.7	9.0	38.9	45.4
	-03MS	R 3/8			50.0	53.7	43.5	47.2	11.0	40.4	52.2
	-04MS	R 1/2			49.7	53.4	41.7	45.4	13.0	42.7	62.5



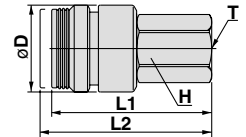
\* Reference dimension for R threads after installation.

### Female thread type

(mm)



Body size	Model	T Connection port size	H Width across flats	øD	L1	L2 When connected	Min. bore size	Effective area mm <sup>2</sup>	Weight g
1/8	KKH3S-01F	Rc 1/8	14	19.6	36.0	38.5	8.2	20.6	23.9
	-02F	Rc 1/4	17		40.1	42.4		21.1	33.2
	-03F	Rc 3/8	19		41.9	44.3		21.1	37.2
1/4	KKH4S-02F	Rc 1/4	19	27.3	50.4	54.1	10.9	39.6	58.2
	-03F	Rc 3/8			51.1	54.8	14.4	42.7	47.5

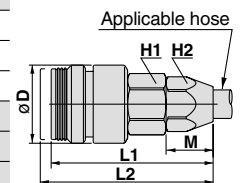


### Nut fitting type (for fiber reinforced urethane hose)

(mm)



Body size	Model	Applicable hose I.D./O.D. mm	H1 Width across flats	H2 Width across flats	øD	L1	L2 When connected	M	Min. bore size	Effective area mm <sup>2</sup>	Weight g
1/8	KKH3S-50N	5/8	14	14	19.6	42.6	45.1	13.7	4.5	12.2	32.4
	-60N	6/9	17	17		44.4	46.9	16.5	5.4	18.3	49.0
	-65N	6.5/10				5.9	19.2	46.7			
1/4	KKH4S-50N	5/8	19	14	27.3	54.1	57.8	13.7	4.5	12.2	57.1
	-60N	6/9		17		56.8	60.5	16.5	5.4	20.4	70.6
	-65N	6.5/10				5.9	24.1	68.1			
	-80N	8/12		19		55.4	59.1	17.4	7.4	35.1	69.8
	-85N	8.5/12.5				7.8	36.6	72.4			



Series KKH are only available as sockets. Series KK should be used as plugs. For dimensions, please refer to page 15-2-80 to 15-2-81.