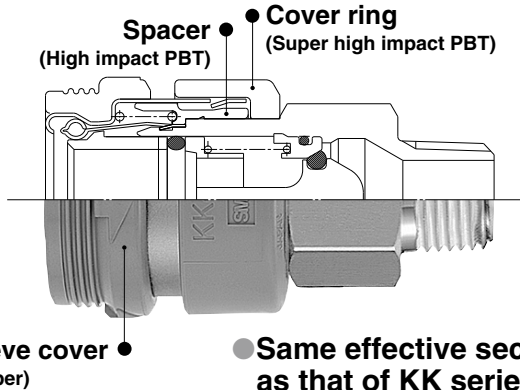


# S Couplers

# KKH Series




- Able to absorb drop impact (equivalent to impact energy of 0.5 J).
- The pulling strength for the plugs and sockets has been improved. Twice as strong as the current models.




- Same effective sectional area as that of KK series.

## Plug (P)


### Male thread type

	Body size	Connection port size		Part no.
		R	MS	
	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	

### Female thread type


	Body size	Connection port size		Part no.
		Rc	F	
	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	

### 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	

## Socket (S)


### Male thread type

	Body size	Connection port size		Part no.
		R	MS	
	1/8	R 1/8		KKH3S-01MS
		R 1/4		-02MS
		R 3/8		-03MS
1/4	R 1/8		KKH4S-01MS	
	R 1/4		-02MS	
	R 3/8		-03MS	
	R 1/2		-04MS	

### Female thread type

	Body size	Connection port size		Part no.
		Rc	F	
	1/8	Rc 1/8		KKH3S-01F
		Rc 1/4		-02F
		Rc 3/8		-03F
1/4	Rc 1/4		KKH4S-02F	
	Rc 3/8		-03F	

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

	Body size	Applicable hose I.D./O.D. mm	Part no.
	1/8	5/8	KKH3S-50N
		6/9	-60N
		6.5/10	-65N
1/4	5/8	KKH4S-50N	
	6/9	-60N	
	6.5/10	-65N	
	8/12	-80N	
	8.5/12.5	-85N	

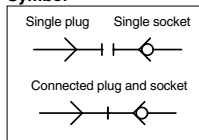
KKH series are only available as sockets.  
KK series should be used as plugs.

# S Couplers KKH Series

RoHS



## Symbol



## Specifications

<b>Fluid</b>	Air, Water <sup>Note 2)</sup>
<b>Operating pressure range</b> <sup>Note 1)</sup>	KKH3: -90 kPa to 1 MPa KKH4: 0 to 1 MPa
<b>Proof pressure</b>	1.5 MPa
<b>Ambient and fluid temperature</b>	Air: -5 to 60°C Water: 5 to 40°C (No freezing)
<b>Plating, Sealant</b>	Electroless nickel plated (copper-free and fluorine-free application), With male thread sealant
<b>Connection plug</b>	KK series plug

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) Deionized water is not recommended for use as it may affect the material used in the fittings. In addition, it is known to degrade the water quality.

## Performance

<b>Plug and socket connection</b>	One-touch connection and release
<b>Check valve</b>	Socket: Built-in check valve (standard)
<b>Sleeve lock mechanism</b>	_____

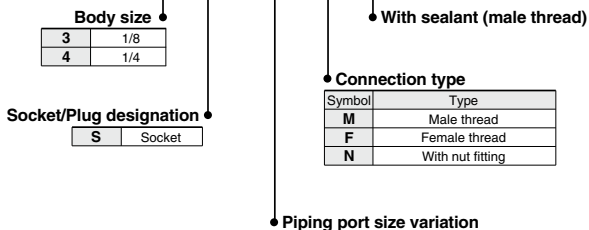
## Effective Area

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

The flow rate characteristics are the same as those of KK series.  
Please refer to page 218.

## How to Order

KKH 4 S-02 M S



For details on body size and port size variation combinations for each model, refer to the charts on the Dimensions page.

KQ2

KQB2

KS  
KX

KM

KF

M

H/DL  
L/LL

KC

KK

KK130

DM

KDM

KB

KR

KA

KQG2

KG

KFG2

MS

KKA

KP

LQ

MQR

T

IDK

# KKH Series

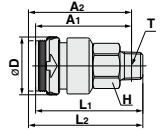
## Dimensions/Socket (S)

### 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	20.2	36.6	39.1	33.5	36.0	6.0	20.4	20.3							
	-02MS	R 1/4										19.4						
	-03MS	R 3/8	27.7															
1/4	KKH4S-01MS	R 1/8	19	28.0	49.5	53.2	46.4	50.1	6.0	22.9	48.7							
	-02MS	R 1/4										45.3						
	-03MS	R 3/8	52.1															
	-04MS	R 1/2	62.4															
												48.9	52.6	43.5	47.2	11.0	40.4	52.1
												48.8	52.5	41.7	45.4	13.0	42.7	62.4



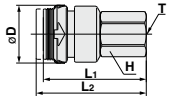
\* Reference dimension for R threads after installation.

### 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	20.2	36.0	38.5	8.2	20.6	23.8	
	-02F	Rc 1/4	17							33.1
	-03F	Rc 3/8	19							37.1
1/4	KKH4S-02F	Rc 1/4	19	28.0	50.4	54.1	10.9	39.6	58.1	
	-03F	Rc 3/8								47.4

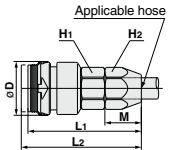


### Nut fitting type (for fiber reinforced urethane hose)

(mm)



Body size	Model	Applicable hose I.D./O.D.	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	20.2	42.6	45.1	13.7	4.5	12.2	32.3							
	-60N	6/9	17	17								44.4	46.9	16.5	5.9	19.2	46.6	
	-65N	6.5/10										57.0	59.5	17.5	7.2	25.9	53.3	
1/4	KKH4S-50N	5/8	19	14	28.0	54.1	57.8	13.7	4.5	12.2	57.0							
	-60N	6/9										17	56.8	60.5	16.5	5.4	20.4	70.5
	-65N	6.5/10											68.0	71.7	17.5	5.9	24.1	68.0
	-80N	8/12		19								55.4	59.1	17.4	7.4	35.1	69.7	
	-85N	8.5/12.5													7.8	36.6	72.3	



KKH series are only available as sockets. KK series should be used as plugs. For dimensions, please refer to page 220.