


# Series KK130 Variations




## Plug (P)


### Male thread type

	Port size	Model
	R1/8	<b>KK130P-01MS</b>
	R1/4	<b>-02MS</b>
	R3/8	<b>-03MS</b>
	R1/2	<b>-04MS</b>
	NPT1/8	<b>-N01MS</b>
	NPT1/4	<b>-N02MS</b>
	NPT3/8	<b>-N03MS</b>
	NPT1/2	<b>-N04MS</b>

### Female thread type


	Port size	Model
	Rc1/8	<b>KK130P-01F</b>
	Rc1/4	<b>-02F</b>
	Rc3/8	<b>-03F</b>
	Rc1/2	<b>-04F</b>
	NPT1/8	<b>-N01F</b>
	NPT1/4	<b>-N02F</b>
	NPT3/8	<b>-N03F</b>
	NPT1/2	<b>-N04F</b>

### Barb fitting type (for rubber hose)


	Hose nominal	Model
	6 (1/4")	<b>KK130P-07B</b>
	8 (1/4")	<b>-09B</b>
	9 (3/8")	<b>-11B</b>
	12 (1/2")	<b>-13B</b>

\* The figures in ( ) indicate the internal diameter of the applicable hose.

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

	Applicable hose I.D./O.D.	Model
	5/8	<b>KK130P-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>
	11/16	<b>-110N</b>


### One-touch fitting type

	Applicable tube O.D.		Model
	Metric size mm	6	<b>KK130P-06H</b>
		8	<b>-08H</b>
		10	<b>-10H</b>
		12	<b>-12H</b>
	Inch size	1/4"	<b>-07H</b>
		5/16"	<b>-09H</b>
		3/8"	<b>-11H</b>
		1/2"	<b>-13H</b>




## Socket (S)

### Male thread type

	Port size	Model*
	R1/8	<b>KK130S-01MS</b>
	R1/4	<b>-02MS</b>
	R3/8	<b>-03MS</b>
	R1/2	<b>-04MS</b>
	NPT1/8	<b>-N01MS</b>
	NPT1/4	<b>-N02MS</b>
	NPT3/8	<b>-N03MS</b>
	NPT1/2	<b>-N04MS</b>


\* Refer to the how to order on page 1 for the sleeve lock mechanism provided type.

### Female thread type

	Port size	Model*
	Rc1/8	<b>KK130S-01F</b>
	Rc1/4	<b>-02F</b>
	Rc3/8	<b>-03F</b>
	Rc1/2	<b>-04F</b>
	NPT1/8	<b>-N01F</b>
	NPT1/4	<b>-N02F</b>
	NPT3/8	<b>-N03F</b>
	NPT1/2	<b>-N04F</b>


\* Refer to the how to order on page 1 for the sleeve lock mechanism provided type.

### Barb fitting type (for rubber hose)

	Hose nominal	Model*
	6 (1/4")	<b>KK130S-07B</b>
	8 (1/4")	<b>-09B</b>
	9 (3/8")	<b>-11B</b>
	12 (1/2")	<b>-13B</b>


\* Refer to the how to order on page 1 for the sleeve lock mechanism provided type.  
\* The figures in ( ) indicate the internal diameter of the applicable hose.

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

	Applicable hose I.D./O.D.	Model*
	5/8	<b>KK130S-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>
	11/16	<b>-110N</b>

\* Refer to the how to order on page 1 for the sleeve lock mechanism provided type.

### One-touch fitting type

	Applicable tube O.D.		Model*
	Metric size mm	6	<b>KK130S-06H</b>
		8	<b>-08H</b>
		10	<b>-10H</b>
		12	<b>-12H</b>
	Inch size	1/4"	<b>-07H</b>
		5/16"	<b>-09H</b>
		3/8"	<b>-11H</b>
		1/2"	<b>-13H</b>

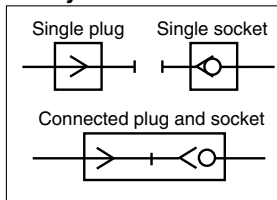
\* Refer to the how to order on page 1 for the sleeve lock mechanism provided type.

# S Couplers

## Series *KK130*



### JIS Symbol



### Specifications

Fluid	Air (Note)
Operating pressure range	0 to 1.5 MPa One-touch fitting type: 0 to 1.0 MPa
Proof pressure	2.0 MPa
Ambient and fluid temperature	–20 to 80°C (No freezing) One-touch fitting type: –5 to 60°C (No freezing)
Plating	Sleeve: Electroless nickel plated Other external metal parts: Zinc chromated
Sealant	Male thread with sealant

Note) Cannot be used for water.

### Performance

Plug and socket connection	Sleeve slide detachable type
Check valve	Socket: Built-in check valve
Flow direction	Dual directional
Sleeve lock mechanism	Manual locking type (with detent) Semi-standard

### How to Order

**KK130 P - 02 MS**

130 series

**Socket/Plug**

Symbol	Type
<b>P</b>	Plug
<b>S</b>	Socket
<b>L</b>	Semi-standard Socket (With sleeve lock mechanism)

**Connection type**

Symbol	Type
<b>MS</b>	Male thread (With sealant)
<b>F</b>	Female thread
<b>B</b>	With barb fitting
<b>N</b>	With nut fitting
<b>H</b>	With one-touch fitting

**Port size variations**

**Male/Female thread type**

Symbol	Thread size
<b>01</b>	R, Rc1/8
<b>02</b>	R, Rc1/4
<b>03</b>	R, Rc3/8
<b>04</b>	R, Rc1/2
<b>N01</b>	NPT1/8
<b>N02</b>	NPT1/4
<b>N03</b>	NPT3/8
<b>N04</b>	NPT1/2

**Barb fitting type**

Symbol	Hose nominal
<b>07</b>	6 (1/4")
<b>09</b>	8 (1/4")
<b>11</b>	9 (3/8")
<b>13</b>	12 (1/2")

\* The figures in ( ) indicate the internal diameter of the applicable hose.

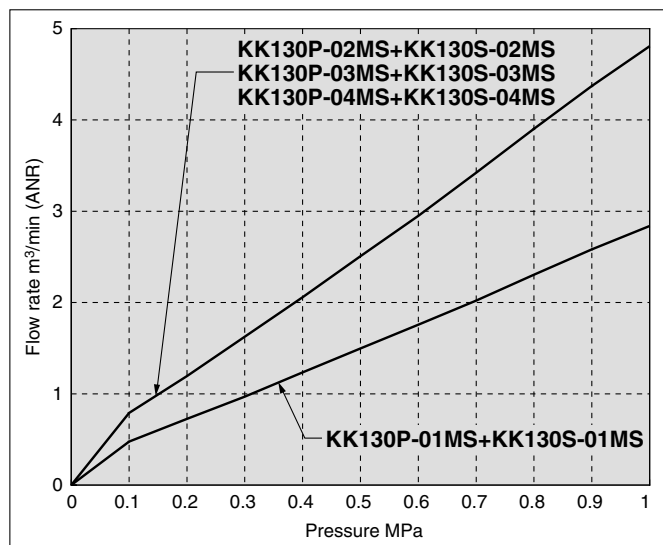
**Nut fitting type**

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

**One-touch fitting type**

Symbol	Applicable tube O.D. mm	
<b>06</b>	ø6	Metric size
<b>08</b>	ø8	
<b>10</b>	ø10	
<b>12</b>	ø12	
<b>07</b>	ø1/4"	Inch size
<b>09</b>	ø5/16"	
<b>11</b>	ø3/8"	
<b>13</b>	ø1/2"	

## Flow-rate Characteristics [Representative Value]



\* This flow-rate characteristic test method complies with JIS B 8390 (Pneumatic fluid power – Components using compressible fluids – Determination of flow-rate characteristics)  
\* The figures are representative values when the same type of plug and socket are connected.

Connection type			Sonic conductance C [dm <sup>3</sup> /(s·bar)]	Critical pressure ratio b	Flow coefficient Cv	Effective area S [mm <sup>2</sup> ]
Type	Symbol	Connection				
Male thread	-01MS	R1/8	4.2	0.4	1.2	21
	-02MS	R1/4	7.0	0.4	1.9	35
	-03MS	R3/8	7.0	0.5	2.1	35
	-04MS	R1/2	7.0	0.5	2.1	35
Female thread	-01F	Rc1/8	6.0	0.5	1.8	30
	-02F	Rc1/4	7.0	0.5	2.1	35
	-03F	Rc3/8	7.0	0.5	2.1	35
	-04F	Rc1/2	7.0	0.5	2.1	35
With barb fitting	-07B	6 (1/4")	2.0	0.4	0.5	10
	-09B	8 (1/4")	3.0	0.4	0.8	15
	-11B	10 (3/8")	6.0	0.5	1.8	30
	-13B	12 (1/2")	7.0	0.5	2.1	35
With nut fitting	-50N	5/8	2.0	0.4	0.5	10
	-60N	6/9	3.5	0.4	1.0	18
	-65N	6.5/10	4.2	0.4	1.2	21
	-80N	8/12	7.0	0.4	1.9	35
	-85N	8.5/12.5	7.0	0.4	1.9	35
	-110N	11/16	7.0	0.5	2.1	35
With one-touch fitting	-06H	ø6	2.0	0.4	0.5	10
	-08H	ø8	4.4	0.5	1.3	22
	-10H	ø10	7.0	0.5	1.8	35
	-12H	ø12	7.0	0.5	2.1	35

## Construction

<With one-touch fitting>

<With one-touch fitting>

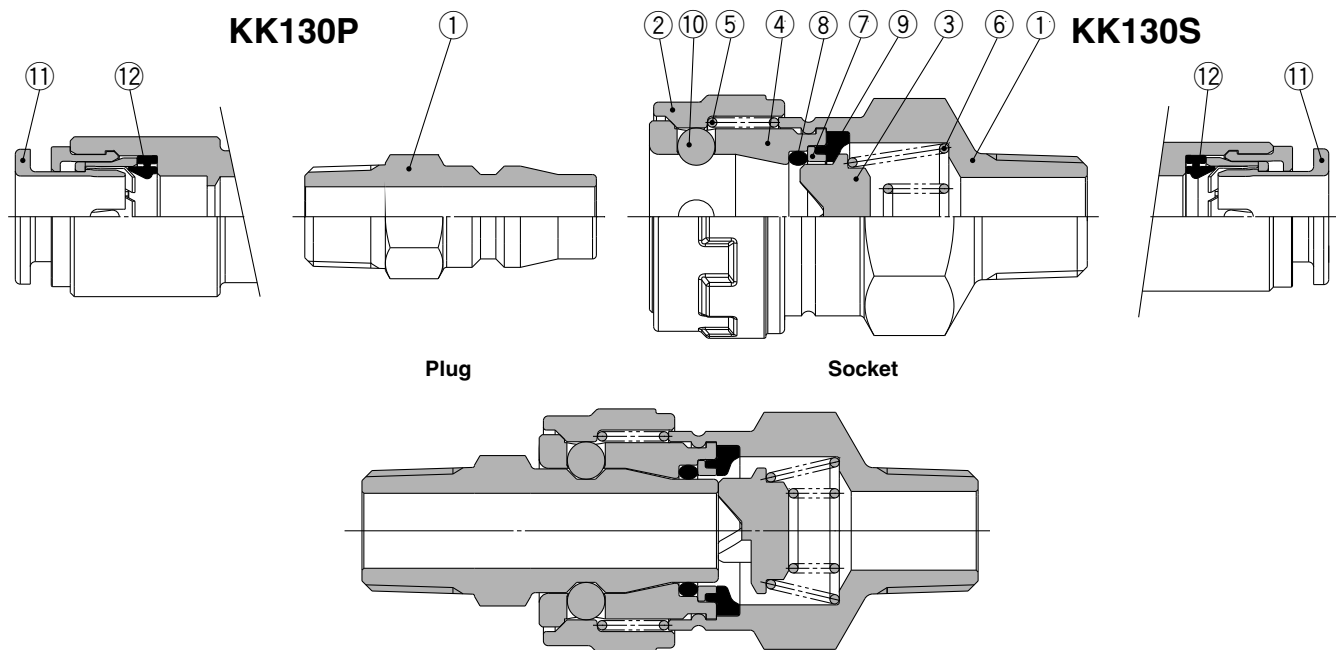


Figure: Connected plug and socket

### Plug

No.	Description	Material	Note
1	Plug	Structural steel	Zinc chromated
11	Cassette	—	
12	Seal	NBR	

### Socket

No.	Description	Material	Note
1	Socket body	Structural steel	Zinc chromated
2	Sleeve	Steel wire	Electroless nickel plated
3	Valve	Steel wire	Zinc chromated
4	Main body	Steel wire	Zinc chromated
5	Sleeve spring	Stainless steel	
6	Valve spring	Stainless steel	
7	Holder	Steel band	Zinc chromated
8	Plug O-ring	NBR	
9	Seal	NBR	
10	Steel ball	SUJ	
11	Cassette	—	
12	Seal	NBR	

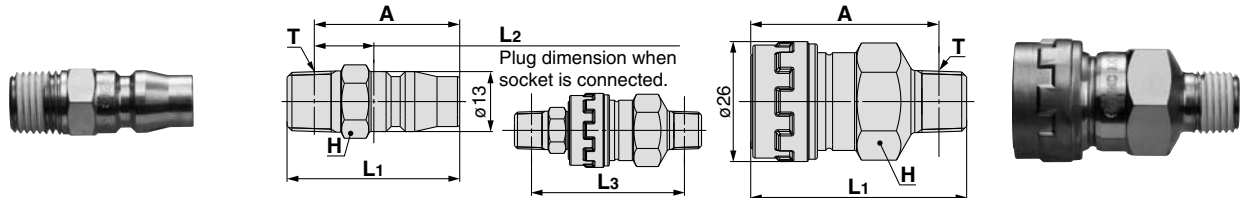
# Series KK130

## Dimensions

### Plug (KK130P)

### Socket (KK130S, L)

#### Male thread type



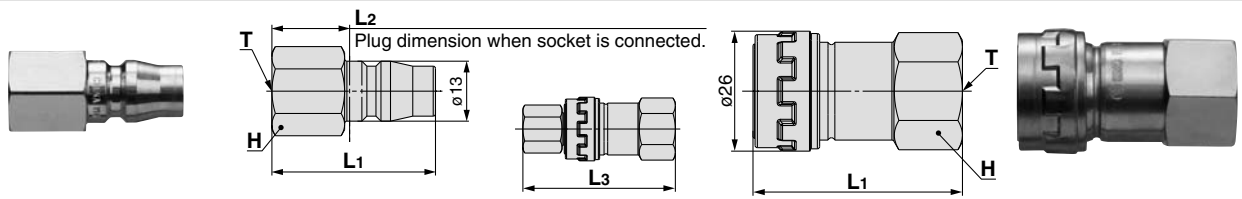
Model	T Connection male thread	H Width across flats	L1	L2	A <sup>*1</sup>	Min. hole size	Weight g	When connected Full length L3
KK130P-01MS	R1/8	14	34.0	11.1	30.0	6.0	18	51.1
-02MS	R1/4	14	38.0	13.1	32.0	8.0	22	53.9
-03MS	R3/8	19	39.0	13.6	32.5	8.0	37	53.3
-04MS	R1/2	22	43.0	16.1	35.0	8.0	52	55.9
KK130P-N01MS	NPT1/8	14	34.0	10.1	29.0	6.0	18	49.4
-N02MS	NPT1/4	14	38.0	11.6	30.5	8.0	22	51.5
-N03MS	NPT3/8	19	39.0	12.6	31.5	8.0	37	51.7
-N04MS	NPT1/2	22	43.0	14.1	33.0	8.0	52	52.3

\*1 Reference dimension after installation

Model	T Connection male thread	H Width across flats	L1	A <sup>*1</sup>	Min. hole size	Weight g
KK130S(L)-01MS	R1/8	22	44.0	40.0	6.0	73
-02MS	R1/4	22	46.8	40.8	8.5	74
-03MS	R3/8	22	46.2	39.7	8.5	82
-04MS	R1/2	22	47.8	39.8	14.0	83
KK130S(L)-N01MS	NPT1/8	22	44.3	39.3	6.0	73
-N02MS	NPT1/4	22	47.4	39.9	8.5	74
-N03MS	NPT3/8	22	46.6	39.1	8.5	82
-N04MS	NPT1/2	22	48.2	38.2	14.0	83

\*1 Reference dimension after installation

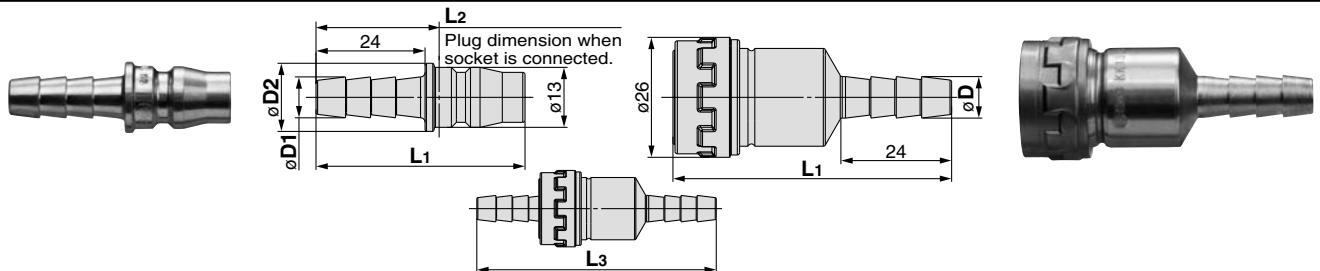
#### Female thread type



Model	T Connection male thread	H Width across flats	L1	L2	Min. hole size	Weight g	When connected Full length L3
KK130P-01F	Rc1/8	14	30.0	11.1	8.0	18	53.0
-02F	Rc1/4	17	36.0	17.1	8.0	28	62.5
-03F	Rc3/8	21	37.0	18.1	8.0	38	66.5
-04F	Rc1/2	27	42.0	23.1	8.0	73	76.0
KK130P-N01F	NPT1/8	14	30.0	11.1	8.0	18	53.0
-N02F	NPT1/4	17	36.0	17.1	8.0	28	62.5
-N03F	NPT3/8	21	37.0	18.1	8.0	38	66.5
-N04F	NPT1/2	27	42.0	23.1	8.0	73	76.0

Model	T Connection male thread	H Width across flats	L1	Min. hole size	Weight g
KK130S(L)-01F	Rc1/8	22	41.9	8.0	90
-02F	Rc1/4	22	45.4	11.0	92
-03F	Rc3/8	22	48.4	11.0	91
-04F	Rc1/2	27	52.9	14.0	117
KK130S(L)-N01F	NPT1/8	22	41.9	8.0	90
-N02F	NPT1/4	22	45.4	11.0	92
-N03F	NPT3/8	22	48.4	11.0	91
-N04F	NPT1/2	27	52.9	14.0	117

#### Barb fitting type (for rubber hose)



Model	Hose nominal	øD1	øD2	L1	L2	Min. hole size	Weight g	When connected Full length L3
KK130P-07B	6 (1/4")	7.2	14.0	46.0	27.1	4.5	16	88.0
-09B	8 (1/4")	9.0	15.0	46.0	27.1	5.0	19	87.5
-11B	9 (3/8")	11.3	16.0	46.0	27.1	8.0	19	87.0
-13B	12 (1/2")	15.0	18.0	46.0	27.1	8.0	33	86.0

\* The figures in ( ) indicate the internal diameter of the applicable hose.

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