



The pulling strength for the plugs and sockets has been improved.

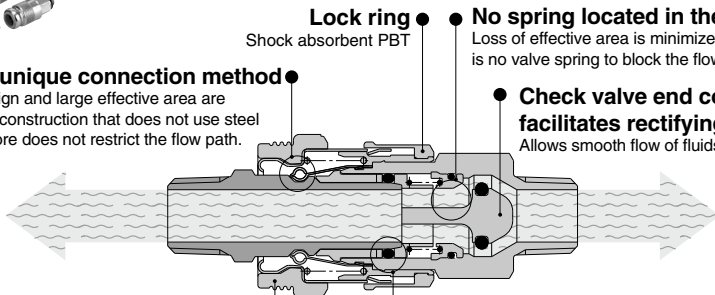
Twice

as strong as the current models

We standardized the product with a sleeve cover. Changing the lock ring material to a shock absorbent PBT further improved the shock absorbent performance.

Employs a unique connection method

A slim body design and large effective area are achieved with a construction that does not use steel balls and therefore does not restrict the flow path.



Sleeve cover

(Except for KK2 series)

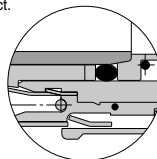
Lightweight

Together with a reduction of the body size, pressing parts and resin parts are used to achieve an overall weight reduction.

Series	Plug no.	Socket no.	Effective area (mm ²) <small>Note 1)</small>	Body O.D. (mm)	Mass (g) <small>Note 2)</small>
KK2 Series	KK2P-M5M	KK2S-M5M	3.8	ø10.0	6.1
KK3 Series	KK3P-01MS	KK3S-01MS	20	ø20.2	20.1
KK4 Series	KK4P-02MS	KK4S-02MS	39	ø28.0	44.1
KK6 Series	KK6P-04MS	KK6S-04MS	82	ø31.6	90.1

Note 1) Values when plug and socket are connected.

Note 2) Values for socket only.



One-touch fitting type standardized

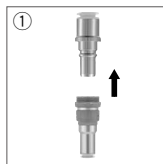
Four types from ø3.2 to ø16 added to series.

Flow is possible from the plug side or socket side.

Fluids: Air and Water

One-touch connection

Simple connection with one hand simplifies work.



Sleeve lock mechanism

Prevents accidents caused by unexpected separation.

Note) Except for M5 type (KK2 series).



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

Plug (P)


Male thread type

	Body size	Port size	Part no.
	M5	M5 x 0.8	KK2P-M5M
		R 1/8	-01MS
	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	
1/2	R 1/2	KK6P-03MS	
	R 1/2	-04MS	
	R 3/4	-06MS	


Female thread type

	Body size	Port size	Part no.
	M5	M5 x 0.8	KK2P-M5F
		Rc 1/8	KK3P-01F
	1/8	Rc 1/4	-02F
Rc 3/8		-03F	
1/4	Rc 1/4	KK4P-02F	
	Rc 3/8	-03F	
	Rc 3/8	KK6P-03F	
1/2	Rc 3/8	-03F	
	Rc 1/2	-04F	


Nut fitting type (for fiber reinforced urethane hose)

	Body size	Applicable hose I.D. (ø), 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	
1/2	8/12	KK6P-80N	
	8.5/12.5	-85N	
	11/16	-110N	


Straight type with One-touch fitting

	Body size	Applicable tubing O.D., mm	Part no.
	M5	3.2	KK2P-23H
		4	-04H
		6	-06H
	1/8	4	KK3P-04H
		6	-06H
		8	-08H
		10	-10H
		6	KK4P-06H
	1/4	8	-08H
		10	-10H
		12	-12H
		12	KK6P-12H
1/2	12	-12H	
	16	-16H	

Elbow type with One-touch fitting


	Body size	Applicable tubing O.D., mm	Part no.
	M5	3.2	KK2P-23L
		4	-04L
		6	-06L
	1/8	4	KK3P-04L
		6	-06L
		8	-08L
		10	-10L
		6	KK4P-06L
	1/4	8	-08L
		10	-10L
		12	-12L
		12	KK6P-12L
1/2	12	-12L	
	16	-16L	

Bulkhead type with One-touch fitting


	Body size	Applicable tubing O.D., mm	Part no.
	M5	3.2	KK2P-23E
		4	-04E
		6	-06E
	1/8	4	KK3P-04E
		6	-06E
		8	-08E
		10	-10E
		6	KK4P-06E
	1/4	8	-08E
		10	-10E
		12	-12E
		12	KK6P-12E
1/2	12	-12E	
	16	-16E	

Socket (S)


Male thread type

	Body size	Port size	Part no.
	M5	M5 x 0.8	KK2S-M5M
		R 1/8	-01MS
	1/8	R 1/8	KK3S-01MS
		R 1/4	-02MS
		R 3/8	-03MS
	1/4	R 1/8	KK4S-01MS
R 1/4		-02MS	
R 3/8		-03MS	
R 1/2		-04MS	
1/2	R 1/2	KK6S-03MS	
	R 1/2	-04MS	
	R 3/4	-06MS	


Female thread type

	Body size	Port size	Part no.
	M5	M5 x 0.8	KK2S-M5F
		Rc 1/8	KK3S-01F
	1/8	Rc 1/4	-02F
Rc 3/8		-03F	
1/4	Rc 1/4	KK4S-02F	
	Rc 3/8	-03F	
	Rc 3/8	KK6S-03F	
1/2	Rc 3/8	-03F	
	Rc 1/2	-04F	


Nut fitting type (for fiber reinforced urethane hose)

	Body size	Applicable hose I.D. (ø), mm	Part no.
	1/8	5/8	KK3S-50N
		6/9	-60N
		6.5/10	-65N
	1/4	5/8	KK4S-50N
		6/9	-60N
		6.5/10	-65N
8/12		-80N	
8.5/12.5		-85N	
1/2	8/12	KK6S-80N	
	8.5/12.5	-85N	
	11/16	-110N	


Straight type with One-touch fitting

	Body size	Applicable tubing O.D., mm	Part no.
	M5	3.2	KK2S-23H
		4	-04H
		6	-06H
	1/8	4	KK3S-04H
		6	-06H
		8	-08H
		10	-10H
		6	KK4S-06H
	1/4	8	-08H
		10	-10H
		12	-12H
		12	KK6S-12H
1/2	12	-12H	
	16	-16H	

Elbow type with One-touch fitting

	Body size	Applicable tubing O.D., mm	Part no.
	M5	3.2	KK2S-23L
		4	-04L
		6	-06L
	1/8	4	KK3S-04L
		6	-06L
		8	-08L
		10	-10L
		6	KK4S-06L
	1/4	8	-08L
		10	-10L
		12	-12L
		12	KK6S-12L
1/2	12	-12L	
	16	-16L	

Bulkhead type with One-touch fitting

	Body size	Applicable tubing O.D., mm	Part no.
	M5	3.2	KK2S-23E
		4	-04E
		6	-06E
	1/8	4	KK3S-04E
		6	-06E
		8	-08E
		10	-10E
		6	KK4S-06E
	1/4	8	-08E
		10	-10E
		12	-12E
		12	KK6S-12E
1/2	12	-12E	
	16	-16E	

S Couplers

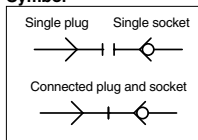
KK Series



KK2 Series

KK3/4/6 Series

Symbol



Specifications

Fluid	Air, Water ^{Note 2)}
Operating pressure range ^{Note 1)}	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 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

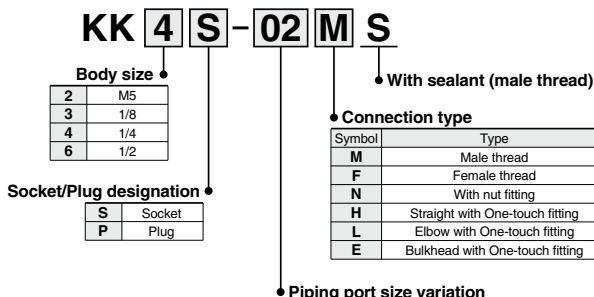
Plug and socket connection	One-touch connection and release
Check valve	Socket: Built-in check valve (standard)
Sleeve lock mechanism ^{Note)}	Manual locking type (standard)

Note) KK2 series 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



Mate/Female thread type

Symbol	Thread size
M5	M5 x 0.8
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

One-touch fitting type

Symbol	Applicable tubing O.D. mm
23	ø3.2
04	ø4
06	ø6
08	ø8
10	ø10
12	ø12
16	ø16

Nut fitting type

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

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



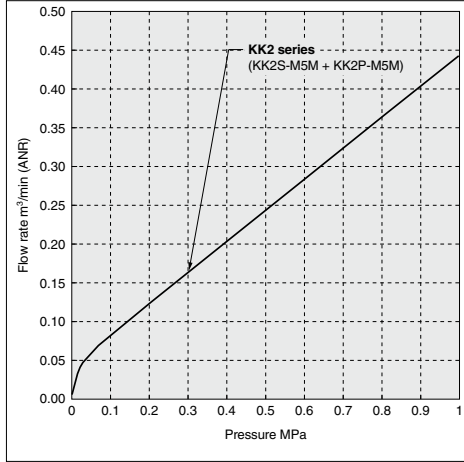
- KQ2
- KQB2
- KS
- KX
- KM
- KF
- M
- H/DL
- L/LL
- KC
- KK
- KK130
- DM
- KDM
- KB
- KR
- KA
- KQG2
- KG
- KFG2
- MS
- KKA
- KP
- LQ
- MQR
- T
- IDK

KK Series

Flow Rate Characteristics

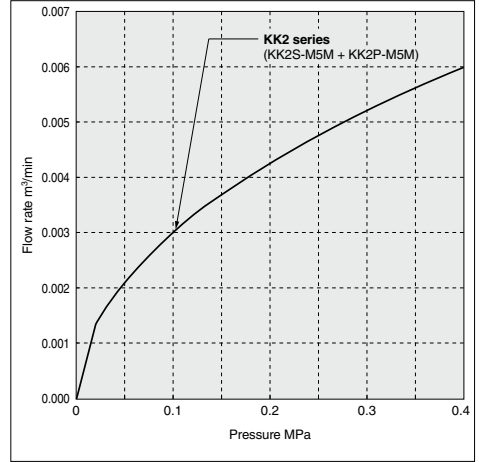
Air (0 to 1 MPa)

KK2

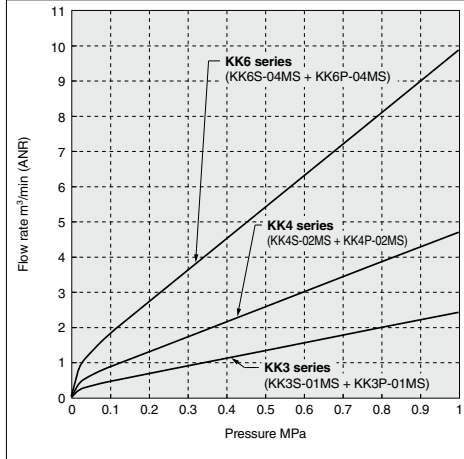


Water (0 to 0.4 MPa)

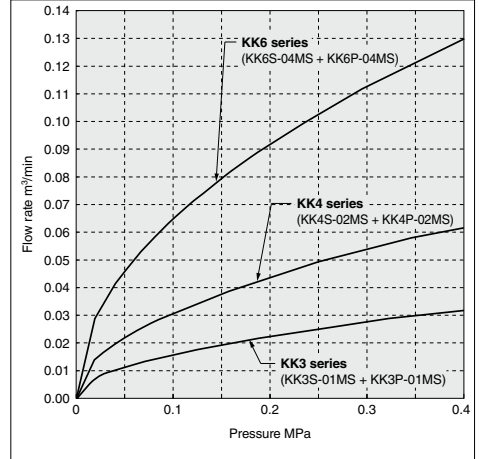
KK2



KK3/4/6

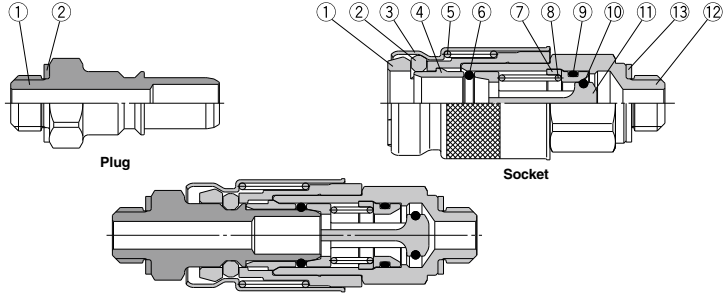


KK3/4/6



Construction

KK2



Plug

No.	Description	Material	Note
1	Stem	C3604	Electroless nickel plated
2	Gasket	Stainless steel 304, NBR	

KK2 Series Spare Parts

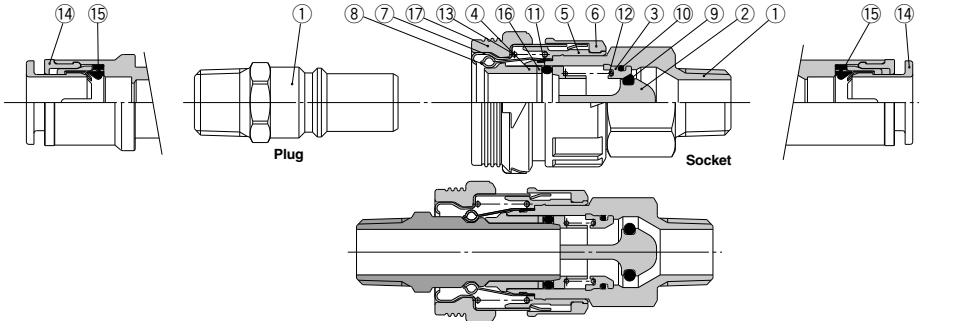
Description	Part no.	No.
Gasket	M-5G2	Plug ²⁾
		Socket ¹⁾

Socket

No.	Description	Material	Note
1	Spacer	PBT	
2	Chuck	PBT	
3	Sleeve	C2680	Electroless nickel plated
4	Collar	C3604	Electroless nickel plated
5	Sleeve spring	Stainless steel 304	
6	Plug O-ring	NBR	
7	Valve seat	PBT	
8	Valve spring	Stainless steel 304	
9	Valve seat O-ring	NBR	
10	Valve O-ring	FKM	
11	Valve	PBT	
12	Socket body	C3604	Electroless nickel plated
13	Gasket	Stainless steel 304, NBR	

KK3/4/6

<With One-touch fitting >



Plug

No.	Description	Material	Note
1	Stem	C3604	Electroless nickel plated
14	Cassette	—	
15	Seal	NBR	

KK/KKH Series Spare Parts

Description	Part no.	No.
Sleeve cover	KK3S-P01	Socket ¹⁾
	KK4S-P01	
	KK6S-P01	


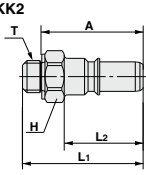

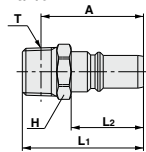
Socket

No.	Description	Material	Note
1	Body	C3604	Electroless nickel plated
2	Valve	PBT	
3	Valve seat	PBT	
4	Collar	PBT	
5	Spacer	PBT	
6	Lock ring	Shock absorbent PBT	
7	Sleeve	Cold rolled carbon steel sheet	Electroless nickel plated
8	Chuck	Stainless steel 304	
9	Valve O-ring	FKM	
10	Valve seat O-ring	NBR	
11	Plug O-ring	NBR	
12	Valve spring	Stainless steel 304	
13	Sleeve spring	Stainless steel 304	
14	Cassette	—	
15	Seal	NBR	
16	Collar 2	Stainless steel 304	
17	Sleeve cover	Weather resistant NBR	

KK Series


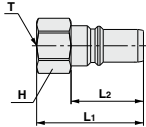
Dimensions/Plug (P)

Male thread type


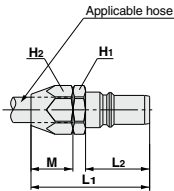
		Body size	Model	T Connection port size	H Width across flats	L1	L2	A*	Min. bore size	Effective area mm ²	Weight g		
 KK2	M5	KK2P-M5M	M5 x 0.8	7	18.8	12.3	15.8	2.2	4.4	2.6			
			R 1/8	10	22.3							19.2	3.4
		KK3P-01MS	R 1/8	29.5	26.4	6.0	22.6	8.4					
	 KK3/4/6	1/8	-02MS	R 1/4	14	32.9	18.4	27.4	6.0	22.6		14.2	
				R 3/8	17	34.3							
			KK4P-01MS	R 1/8	36.1	33.0	9.0	50.9	20.2				
1/4		-02MS	R 1/4	14	39.7	25.2	34.2	9.0	50.9	32.5			
			R 3/8	17	41.1						35.7	57.4	
		KK6P-03MS	R 3/8	46.9	41.5	11.0	76.0	44.7					
1/2	-04MS	R 1/2	22	51.1	31.0	44.0	13.0	106.2	53.7				
		R 3/4	27	55						45.5	94.4		

* Reference dimension for R threads after installation.

Female thread type

		Body size	Model	T Connection port size	H Width across flats	L1	L2	Min. bore size	Effective area mm ²	Weight g	
	M5	KK2P-M5F	M5 x 0.8	8	17.6	12.3	3.4	8.1	2.6		
			KK3P-01F	Rc 1/8	14						28.3
	1/8	-02F	Rc 1/4	17	33.5	18.4	6.0	22.6	20.8		
			Rc 3/8	19	35.3						23.2
		KK4P-02F	Rc 1/4	17	37.2	25.2	9.0	50.9	23.9		
	1/4	-03F	Rc 3/8	19	39.8	31.0	13.0	106.2	24.6		
			KK6P-03F	Rc 3/8	19						43.3
		-04F	Rc 1/2	24	50.2	31.0	13.0	106.2	43.9		

Nut fitting type (for fiber reinforced urethane hose)

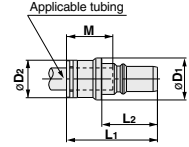
		Body size	Model	Applicable hose I.D./O.D.	H1 Width across flats	H2 Width across flats	L1	L2	M	Min. bore size	Effective area mm ²	Weight g				
	1/8	KK3P-50N	5/8	14	14	36.1	18.4	13.7	4.5	12.7	21.4					
			-60N	6/9	17	39.9							16.5	5.4	18.3	38.8
			-65N	6.5/10	17	39.9							16.5	5.9	21.9	35.9
	1/4	KK4P-50N	5/8	17	14	43.9	25.2	13.7	4.5	12.7	34.7					
			-60N	6/9	17	46.7							16.5	5.4	18.3	48.4
		-65N	6.5/10	17	46.7	17.4	31.0	7.4	34.4	53.2						
			-80N	8/12	19						47.6		7.8	38.2	55.6	
		1/2	KK6P-80N	8/12	19	19	53.4	31.0	7.4	34.4	60.5					
				-85N	8.5/12.5	19							47.6	7.8	38.2	62.8
	-110N		11/16	24	24	57.2	20.1	10.2	65.4	96.5						

Straight type with One-touch fitting

(mm)



Body size	Model	Applicable tubing O.D.	øD1	øD2	L1	L2	M	Min. bore size	Effective area mm ²			Weight g					
									Urethane tubing	Nylon tubing							
M5	KK2P-23H	ø3.2	10.0	7.0	23.7	12.3	12.7	2.5	3.7	4.4	3.3						
	-04H	ø4		8.0													
	-06H	ø6		10.0								26.7					
1/8	KK3P-04H	ø4	12.0	10.0	35.4	18.4	17.0	6.0	10.1	12.8	9.1						
	-06H	ø6	14.0	12.0													
	-08H	ø8	16.0	14.0								38.6					
	-10H	ø10	19.0	17.0								39.7					
	KK4P-06H	ø6	14.0	12.0								46.2	25.2	17.0	4.7	10.1	12.8
-08H	ø8	16.0	14.0														
-10H	ø10	19.0	17.0														
KK6P-12H	ø12	21.0	19.0	47.5	31.0	22.0	9.0	40.2	50.9	30.0							
-16H	ø16	26.0	23.8								56.1						

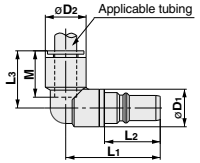


Elbow type with One-touch fitting

(mm)



Body size	Model	Applicable tubing O.D.	øD1	øD2	L1	L2	L3	M	Min. bore size	Effective area mm ²			Weight g				
										Urethane tubing	Nylon tubing						
M5	KK2P-23L	ø3.2	10.0	9.3	24.0	12.3	16.5	12.7	2.5	3.6	4.3	5.8					
	-04L	ø4															
	-06L	ø6		11.6									25.1				
1/8	KK3P-04L	ø4	10.4	31.6	18.4	18.0	20.0	17.0	4.5	10.1	11.4	8.0					
	-06L	ø6	12.8	32.8													
	-08L	ø8	12.0	34.0									23.0	18.5	15.0	16.8	9.7
	-10L	ø10	17.0	36.0									26.5	21.0	18.0	18.5	23.0
	KK4P-06L	ø6	14.0	12.8									40.2	25.2	23.0	18.5	6.0
-08L	ø8	15.2	41.4														
-10L	ø10	17.0	42.8	26.5	21.0	7.5	24.7	27.5	25.7								
-12L	ø12	19.0	44.0	28.5	22.0	9.0	29.0	29.6	28.0								
KK6P-12L	ø12	19.0	49.9							31.0	38.1	39.7	40.3				
1/2	-16L	ø16	21.0	53.5	31.0	34.0	25.0	13.0	42.8	58.7	48.7						

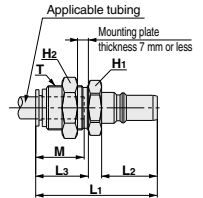


Bulkhead type with One-touch fitting

(mm)



Body size	Model	Applicable tubing O.D.	T Threads	H1 Width across flats	H2 Width across flats	L1	L2	L3	M	Min. bore size	Effective area mm ²			Weight g						
											Urethane tubing	Nylon tubing								
M5	KK2P-23E	ø3.2	M8 x 0.75	10	10	28.3	12.3	12.5	12.7	2.5	3.7	4.4	6.0							
	-04E	ø4	M9 x 0.75																	
	-06E	ø6	M11 x 0.75	14	14									28.6	12.7	13.5	3.4	8.1	8.1	9.7
1/8	KK3P-04E	ø4	M12 x 1			39.3	18.4	16.9	16.0	3.2	3.9	5.6	16.6							
	-06E	ø6	M14 x 1	17	17									40.2	16.8	17.0	4.7	10.1	12.8	22.3
	-08E	ø8	M16 x 1	19	19									43.4	20.0	18.5	6.0	15.7	22.6	30.2
	-10E	ø10	M20 x 1	22	24									46.4	22.0	21.0	7.7	27.6	35.3	54.7
	KK4P-06E	ø6	M14 x 1	17	17									47.0	25.2	16.8	17.0	4.7	10.1	12.8
-08E	ø8	M16 x 1	19	19	50.2	20.0	18.5	6.2	19.8	22.6	32.2									
-10E	ø10	M20 x 1	22	24	53.2	22.0	21.0	7.7	27.6	35.3	61.4									
-12E	ø12	M24 x 1	24	27	54.2	23.0	22.0	9.0	40.2	50.9	75.2									
KK6P-12E	ø12	M22 x 1	24	27	60.1							9.2	41.2	86.1						
1/2	-16E	ø16	M28 x 1.5	30	32	62.6	31.0	24.5	25.0	13.0	63.5	106.2	125.0							





[Click here for applicable color caps.](#)

- QK2
- QKB2
- KS
KX
- KM
- KF
- M
- H/DL
L/LL
- KC
- KK
- KK130
- DM
- KDM
- KB
- KR
- KA
- QKG2
- KG
- KFG2
- MS
- KKA
- KP
- LQ
- MQR
- T
- IDK

KK Series

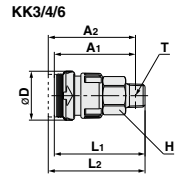
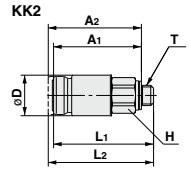
Dimensions/Socket (S)

Male thread type



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 ²	Weight g	
KK2 	M5	KK2S-M5M	M5 x 0.8	8	10.0	24.7	26.2	21.3	23.2	2.2	3.8	6.1
		-01MS	R 1/8	10		24.4	25.9		22.8	4.7	5.8	9.1
	1/8	KK3S-01MS	R 1/8	14	20.2	36.6	39.1	33.5	36.0	6.0	20.4	20.1
-02MS		R 1/4	37.0			39.5	31.5	34.0	9.0	21.1	19.2	
-03MS		R 3/8	37.6			40.1	32.2	34.5			29.0	
KK3/4/6 	1/4	KK4S-01MS	R 1/8	19	28.0	49.5	53.2	46.4	50.1	6.0	22.9	47.5
		-02MS	R 1/4			50.5	54.2	45.0	48.7	9.0	38.9	44.1
		-03MS	R 3/8			48.9	52.6	43.5	47.2	11.0	40.4	50.9
	1/2	KK6S-03MS	R 3/8	24	31.6	48.8	52.5	41.7	45.4	13.0	42.7	61.2
		-04MS	R 1/2			59.1	64.4	53.7	59.0	11.0	71.7	87.9
		-06MS	R 3/4			59.3	64.6	52.2	57.5	13.0	82.3	90.1
						60.2	65.5	50.7	56.0	15.0	83.8	113.3

* Reference dimension for R threads after installation.

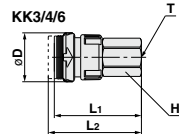
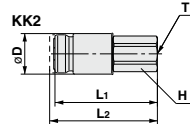
(mm)




Female thread type

Body size	Model	T Connection port size	H Width across flats	øD	L1	L2 When connected	Min. bore size	Effective area mm ²	Weight g	
KK2 	M5	KK2S-M5F	M5 x 0.8	8	10.0	25.3	26.8	4.2	5.4	6.4
	1/8	KK3S-01F	Rc 1/8	14		20.2	36.0	38.5	8.2	20.6
		-02F	Rc 1/4	17	40.1		42.6	21.1		34.4
KK3/4/6 	1/4	KK4S-02F	Rc 1/4	19	28.0	50.4	54.1	10.9	39.6	56.9
		-03F	Rc 3/8			41.9	44.4			38.8
		-04F	Rc 1/2			51.1	54.8	14.4	42.7	46.2
	1/2	KK6S-03F	Rc 3/8	24	31.6	58.6	63.9	18.0	83.1	93.6
		-04F	Rc 1/2			61.0	66.3	18.0	83.8	87.4

(mm)



Nut fitting type (for fiber reinforced urethane hose)

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 ²	Weight g	
1/8 	KK3S-50N	5/8	14	14	20.2	42.6	45.1	13.7	4.5	12.2	32.1	
	-60N	6/9	17	17		44.4	46.9	16.5	5.4	18.3	48.7	
	-65N	6.5/10			5.9	19.2	46.4					
1/4	KK4S-50N	5/8	14	17	28.0	54.1	57.8	13.7	4.5	12.2	55.8	
	-60N	6/9				5.4	20.4	69.3				
	-65N	6.5/10				5.9	24.1	66.8				
	1/2	KK6S-80N	8/12	19	24	31.6	55.4	59.1	17.4	7.4	35.1	68.5
		-85N	8.5/12.5				7.8	71.1				
		-80N	8/12				7.4	36.6		107.5		
1/2	KK6S-80N	8/12	24	24	31.6	66.0	71.3	20.1	7.8	41.2	110.2	
	-110N	11/16				64.4	69.7		10.2	68.4	119.8	

(mm)

