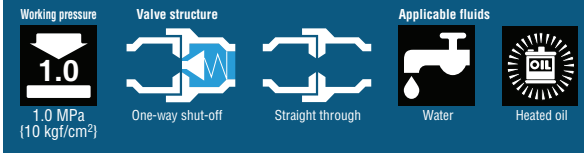
For Low Pressure

Mold Cupla

General purpose and mold coolant port coupling



Designed for quick replacement for die and mold ! Rust resistant models having many variations.

- Space saving design for molds with closely spaced coolant ports.
- Long sleeve socket facilitates connection/disconnection with plug embedded in mold.
- Enables quick mold cooling water line connection/disconnection.
- Various sizes and end configurations to suit a wide variety of mold applications.
- Can be connected with Super Cuplas, excluding K3 and K4 types.
- Push-to-connect design. (Built-in automatic shut-off valve in the socket) Also available is Cupla without valve (Please specify in ordering).
- Cupla for braided hose connection requires no hose clamp. (Model K-90SN)

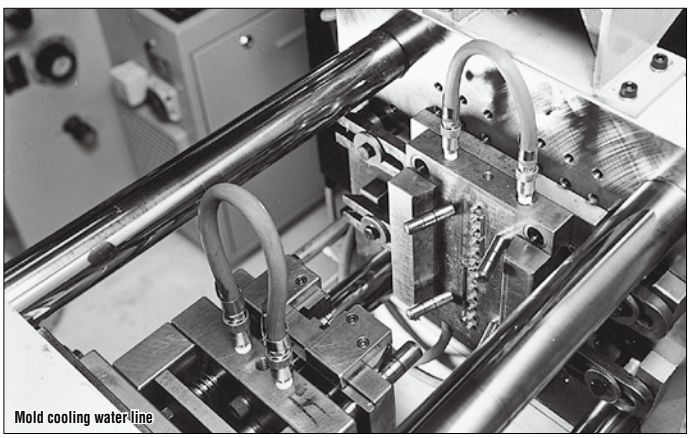
For Braided Hose

Please use braided hoses available in the market.

Benefits without a hose clamp

NEW

Two piece design



Mold cooling water line

Specifications

Body material			Brass		
Size	Thread		1/8", 1/4", 3/8"		
	Hose barb		Hose: 1/4", 3/8" / Braided hose: ø9 x ø15		
Working pressure		MPa	1.0		
		kgf/cm²	10		
		bar	10		
		PSI	145		
Seal material Working temperature ran			Seal material	Mark	Working temperature range	Remarks
			Nitrile rubber	NBR (SG)	−20°C to +80°C	Standard material
			Fluoro rubber	FKM (X-100)	−20°C to +180°C	Available on request

Working pressure and working temperature of Cupla for braided hoses depend upon the specifications of braided hoses to be used.

Max. Tightening Torque Nm {kgf•cm}

Size (Thread)	1/8"	1/4"	3/8"
Torque	5 {51}	9 {92}	11 {112}

Tighten the nut until it is flush against the hose barb base after pushing a braided hose to the end.

Flow Direction

Fluid may flow in either direction from plug or from socket side when coupled.

Interchangeability

Sockets and plugs can be connected regardless of end configurations and sizes. K01, K-02, and K-03 series are not interchangeable with high flow type K3 and K4 series. Can be connected to Super Cupla.

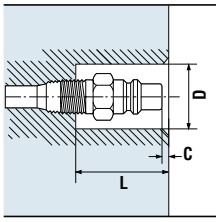
Min. Cross-Sectional Area (mm²)

Plug \ Socket	K-02SH	K-03SH	K-02SM	K-03SM	K-02SF	K-02SHL	K-03SHL	K-90SN
K-02PH	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
K-03PH	19	28	28	28	28	15.5	28	28
K-01PM	19	23	23	23	23	15.5	23	23
K-01PM-HH	19	23	23	23	23	15.5	23	23
K-02PM	19	28	28	28	28	15.5	28	28
K-02PM-HH	19	23	23	23	23	15.5	23	23
K-03PM	19	28	28	28	28	15.5	28	28
K-01PF	19	28	28	28	28	15.5	28	28
K-02PF	19	28	28	28	28	15.5	28	28
K-03PF	19	28	28	28	28	15.5	28	28
K-01PML	19	19	19	19	19	15.5	19	19
K-02PML	19	28	28	28	28	15.5	28	28
K-03PML	19	28	28	28	28	15.5	28	28

Suitability for Vacuum

Not suitable for vacuum application in either connected or disconnected condition.

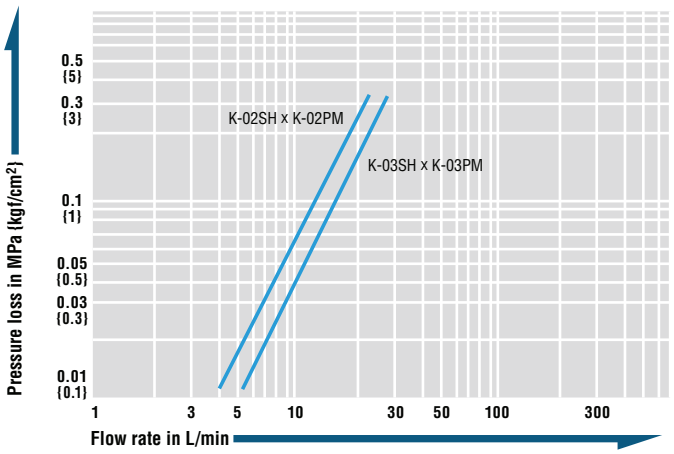
Plug Embedment Dimensions (mm)



Model	D*	C*	L	Remarks
K-01PM	20 or more	0 to 3	28	* Socket interference prevents connection/disconnection when C exceeds 3 mm.
K-01PM-HH	20 or more	0 to 3	24	
K-02PM	20 or more	0 to 3	29	* Size D should be bigger than the outer diameter of the socket wrench to be used. (See JISB4636-1, JISB4636-2)
K-02PM-HH	20 or more	0 to 3	24	
K-03PM	20 or more	0 to 3	30	

Flow Rate – Pressure Loss Characteristics

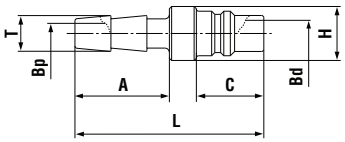
[Test conditions] •Fluid : Water •Temperature : Room temperature



Models and Dimensions

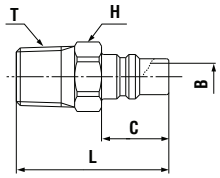
WAF : WAF stands for width across flats.

Plug PH type (Hose barb)



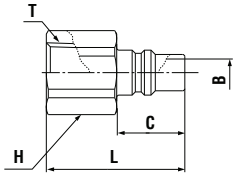
Model	Application (Hose)	Mass (g)	Dimensions (mm)						
			L	A	C	øH	øT	øBp	øBd
K-02PH	1/4"	17	42	21	15	12	8	4.5	6
K-03PH	3/8"	19	42	21	15	15	12	7	6

Plug PM type (Male thread)



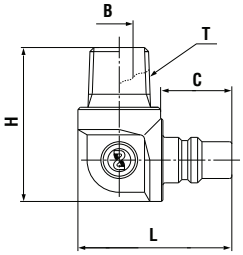
Model	Application	Mass (g)	Dimensions (mm)				
			L	H(WAF)	C	T	øB
K-01PM	Rc 1/8	14	31	Hex.12	15	R 1/8	5.5
K-02PM	Rc 1/4	20	34	Hex.14	15	R 1/4	6
K-03PM	Rc 3/8	35	35	Hex.17	15	R 3/8	6

Plug PF type (Female thread)



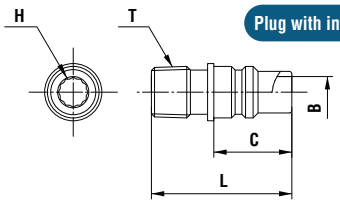
Model	Application	Mass (g)	Dimensions (mm)				
			L	H(WAF)	C	T	øB
K-01PF	R 1/8	16	28	Hex.14	15	Rc 1/8	6
K-02PF	R 1/4	22	30.5	Hex.17	15	Rc 1/4	6
K-03PF	R 3/8	35	32	Hex.21	15	Rc 3/8	6

Plug PML type (Male thread)



Model	Application	Mass (g)	Dimensions (mm)				
			L	C	H	T	øB
K-01PML	Rc 1/8	43	33.5	15	30.5	R 1/8	5
K-02PML	Rc 1/4	53	33.5	15	33.5	R 1/4	6
K-03PML	Rc 3/8	71	33.5	15	33.5	R 3/8	6

Plug PM-HH type (Male thread)

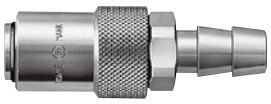


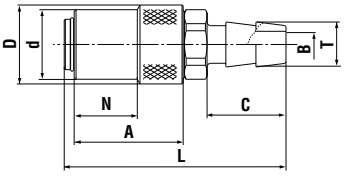
Plug with internal hexagon socket for Allen wrench

• The photo shows model K-01PM-HH.

Model	Application	Mass (g)	Dimensions (mm)					
			Outside Diameter	L	H	C	T	øB
K-01PM-HH	Rc 1/8	9	ø11	27	5	15	R 1/8	6
K-02PM-HH	Rc 1/4	15	(ø13.4)	29	5	15	R 1/4	6

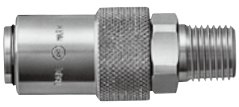
Socket SH type (Hose barb)

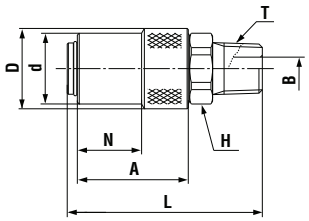




Model	Application (Hose)	Mass (g)	Dimensions (mm)							
			L	øD	ød	N	A	C	øT	øB
K-02SH	1/4"	52	(67)	(21)	18.5	16.8	29	29	8	5
K-03SH	3/8"	60	(59)	(21)	18.5	16.8	29	21	12	7

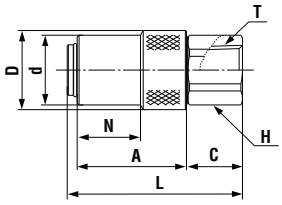
Socket SM type (Male thread)





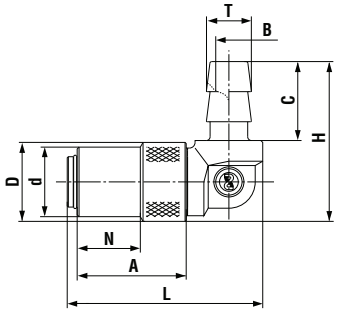
Model	Application	Mass (g)	Dimensions (mm)							
			L	øD	ød	N	A	H(WAF)	T	øB
K-02SM	Rc 1/4	70	(51)	(21)	18.5	16.8	29	Hex.17	R 1/4	6
K-03SM	Rc 3/8	82	(52)	(21)	18.5	16.8	29	Hex.19	R 3/8	6

Socket SF type (Female thread)



Model	Application	Mass (g)	Dimensions (mm)							
			L	øD	ød	N	A	C	T	H(WAF)
K-02SF	R 1/4	57	(46.5)	(21)	18.5	16.8	29	14.5	Rc 1/4	Hex.17

Socket SHL type (Hose barb)

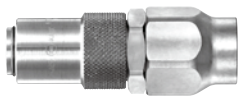


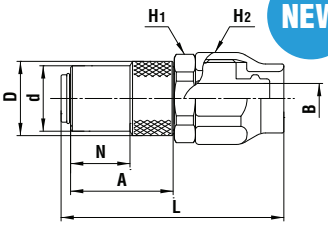
Model	Application (Hose)	Mass (g)	Dimensions (mm)								
			L	øD	ød	N	A	C	øT	H	øB
K-02SHL	1/4"	79	(52)	(21)	18.5	16.8	29	21	8	(42.5)	4.5
K-03SHL	3/8"	87	(52)	(21)	18.5	16.8	29	21	12	(42.5)	7

Note: Also available without socket valve (Made-to-order item), identified by product code TS (e.g. K-03SH without valve is K-03TSH). Also available are Cuplas with sleeve stopper (Made-to-order item).

Socket SN type (For braided hose connection)

NEW





Model	Application (Hose) (mm)	Hose wall thickness (mm)	Mass (g)	Dimensions (mm)							
				L	øD	ød	N	A	H1(WAF)	H2(WAF)	øB
K-90SN	ø9 x ø15	3±0.3	122	(63)	(21)	18.5	16.8	29	Hex.23	Hex.24	8.5

Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.