

For Cooling Water and Heat Transfer Oil

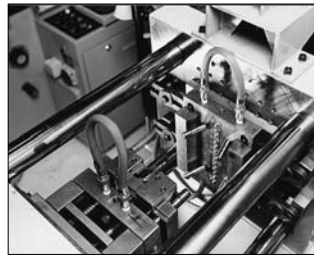
Mold Cupla

General purpose and mold coolant port coupling

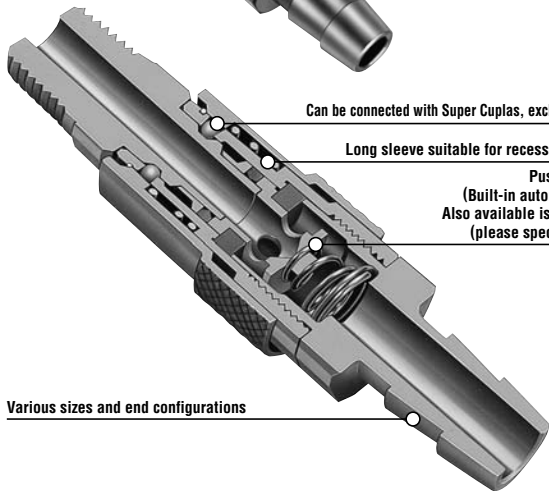
Working pressure: **1.0** MPa (10kgf/cm²)

Valve structure: One-way shut-off, Straight through

Applicable fluids: Water, Heated Oil



Mold coolant hoses



Can be connected with Super Cuplas, excluding K3 and K4 types

Long sleeve suitable for recessed pockets on molds

Push-to-connect design (Built-in automatic shut-off valve)
Also available is Cupla without valve (please specify the basic model)

Various sizes and end configurations

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 coolant hose connection/disconnection.
- Newly introduced are K3 & K4 series with almost double flow rate compared with our standard K01 & K2 series contributing to productivity.
- Various sizes and configurations to suit a wide variety of mold applications.

Specifications

Body material	Brass			
Size	1/8" • 1/4" • 3/8" • 1/2"			
Working pressure MPa (kgf/cm ²)	1.0 (10)			
Pressure resistance MPa (kgf/cm ²)	1.5 (15)			
Seal material Working temperature range	Seal material	Mark	Working temperature range	Remarks
	Nitrile rubber	NBR (SG)	-20°C~+80°C	Standard material
	Fluoro rubber	FKM (X-100)	-20°C~+180°C	Available on request

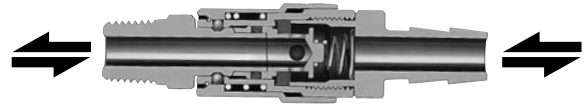
Max. Tightening Torque

N·m (kgf·cm)

Size	1/8"	1/4"	3/8"	1/2"
Torque	5 (51)	9 (92)	11 (112)	80 (816)

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. Can be connected to Super Cupla.

Large flow K3 & K4 series can neither be connected with other mold Cuplas series, nor with K3 series and K4 series each other.

Min. Cross-Sectional Area

(mm²)

K01SP, K02SP, K03SP type

Plug \ Socket	K02SH	K03SH	K02SM	K03SM	K02SF	K02SHL	K03SHL
K02PH	15.5	15.5	15.5	15.5	15.5	15.5	15.5
K03PH	15.5	28	28	28	28	15.5	28
K01PM	15.5	23	23	23	23	15.5	23
K02PM	15.5	28	28	28	28	15.5	28
K03PM	15.5	28	28	28	28	15.5	28
K01PF	15.5	28	28	28	28	15.5	28
K02PF	15.5	28	28	28	28	15.5	28
K03PF	15.5	28	28	28	28	15.5	28
K01PML	15.5	19	19	19	19	15.5	19
K02PML	15.5	28	28	28	28	15.5	28
K03PML	15.5	28	28	28	28	15.5	28

K3SP, K4SP type

Plug \ Socket	K3-03SH	K3-04SH	K4-04SH
K3-02PM	38	63.5	—
K3-03PM	38	70.5	—
K4-04PM	—	—	78.5

Suitability for Vacuum

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

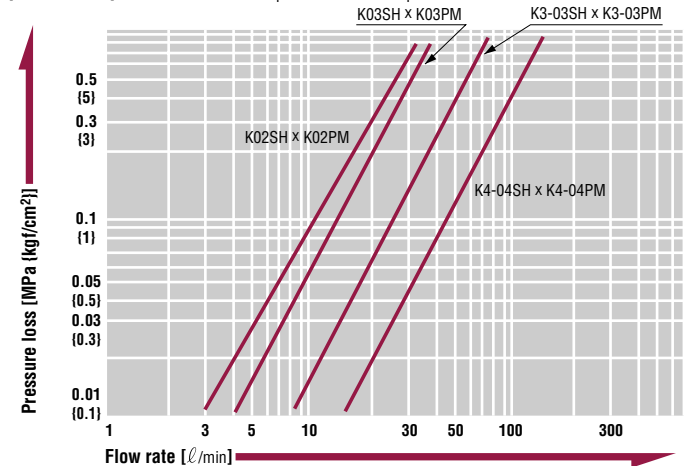
Plug Embedment Dimensions

(mm)

Model	D*	C*	L	Remarks
K01PM	20 or more	0~3	28	* Socket interference prevents connection/disconnection when C exceeds 3mm.
K02PM	20 or more	0~3	29	
K03PM	20 or more	0~3	30	
K3-02PM	24 or more	0~3	31	* Size D should be bigger than the outer diameter of the socket wrench to be used. (See JISB4636-1, JISB4636-2)
K3-03PM	24 or more	0~3	31	
K4-04PM	32 or more	0~3	39	

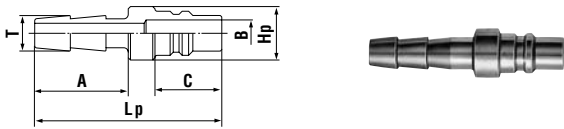
Flow Rate – Pressure Loss Characteristics

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



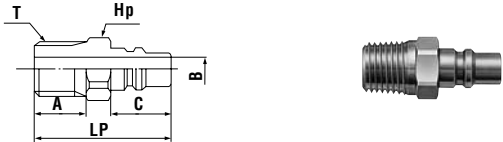
Models and Dimensions

Plug PH type (Hose barb)



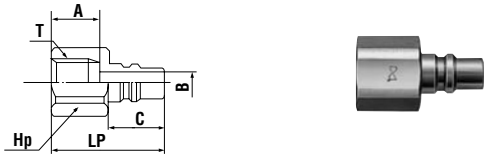
Model	Application (Hose)	Mass (g)	Dimensions (mm)					
			Lp	A	C	øHp	øT	øB
K02PH	1/4"	17	42	21	15	12	8	6
K03PH	3/8"	19	42	21	15	15	12	6

Plug PM type (Male thread)



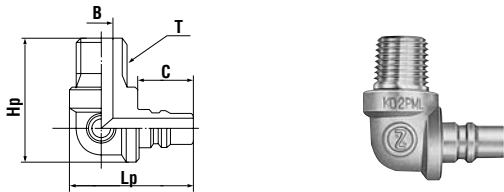
Model	Application	Mass (g)	Dimensions (mm)					
			Lp	Hp(WAF)	C	A	T	øB
K01PM	Rc 1/8	14	31	Hex.12	15	10	R 1/8	5.5
K02PM	Rc 1/4	20	34	Hex.14	15	13	R 1/4	6
K03PM	Rc 3/8	35	35	Hex.17	15	14	R 3/8	6

Plug PF type (Female thread)



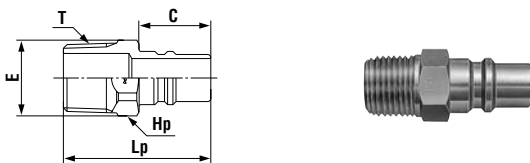
Model	Application	Mass (g)	Dimensions (mm)					
			Lp	Hp(WAF)	C	A	T	øB
K01PF	R 1/8	16	28	Hex.14	15	10	Rc 1/8	6
K02PF	R 1/4	22	30.5	Hex.17	15	13	Rc 1/4	6
K03PF	R 3/8	35	32	Hex.21	15	14	Rc 3/8	6

Plug PML type (Male thread)



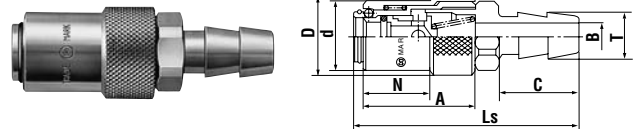
Model	Application	Mass (g)	Dimensions (mm)				
			Lp	C	Hp	T	øB
K01PML	Rc 1/8	43	33.5	15	30.5	R 1/8	5
K02PML	Rc 1/4	53	33.5	15	33.5	R 1/4	6
K03PML	Rc 3/8	71	33.5	15	33.5	R 3/8	6

Plug PM type (Male thread / Large Flow Type)



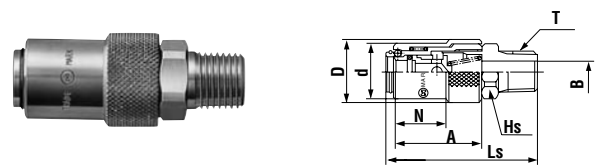
Model	Application	Mass (g)	Dimensions (mm)				
			Lp	C	Hp(WAF)	øE	øT
K3-02PM	Rc 1/4	16	36	17.5	Hex.14	15.5	R 1/4
K3-03PM	Rc 3/8	25	36	17.5	Hex.17	18.5	R 3/8
K4-04PM	Rc 1/2	50	46	21.5	Hex.22	24	R 1/2

Socket SH type (Hose barb)



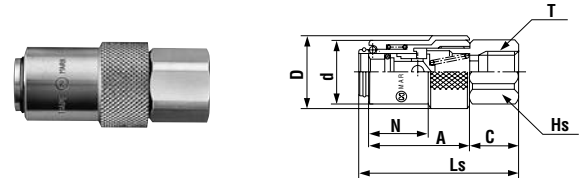
Model	Application (Hose)	Mass (g)	Dimensions (mm)							
			Ls	øD	ød	N	A	C	øT	øB
K02SH	1/4"	52	67	21	18.5	16.8	29	29	8	5
K03SH	3/8"	60	59	21	18.5	16.8	29	21	12	7

Socket SM type (Male thread)



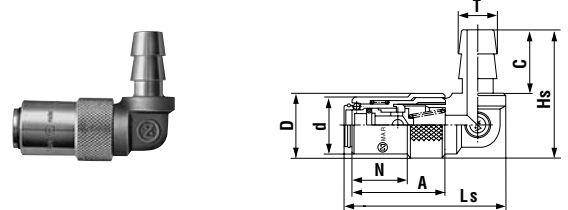
Model	Application	Mass (g)	Dimensions (mm)							
			Ls	øD	ød	N	A	Hs(WAF)	T	øB
K02SM	Rc 1/4	70	51	21	18.5	16.8	29	Hex.17	R 1/4	6
K03SM	Rc 3/8	82	52	21	18.5	16.8	29	Hex.19	R 3/8	6

Socket SF type (Female thread)



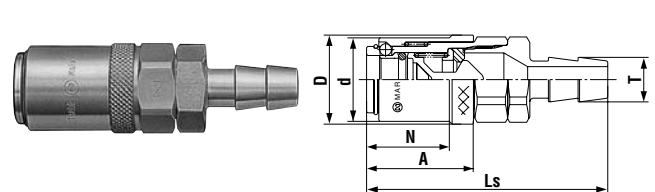
Model	Application	Mass (g)	Dimensions (mm)							
			Ls	øD	ød	N	A	C	T	Hs(WAF)
K02SF	R 1/4	57	46.5	21	18.5	16.8	29	14.5	Rc 1/4	Hex.17

Socket SHL type (Hose barb)



Model	Application (Hose)	Mass (g)	Dimensions (mm)							
			Ls	øD	ød	N	A	C	øT	Hs
K02SHL	1/4"	79	52	21	18.5	16.8	29	21	8	42.5
K03SHL	3/8"	87	52	21	18.5	16.8	29	21	12	42.5

Socket SH type (Hose barb / Large Flow Type)



Model	Application (Hose)	Mass (g)	Dimensions (mm)					
			Ls	øD	ød	N	A	øT
K3-03SH	3/8"	100	65	24	22.5	19	25.5	12
K3-04SH	1/2"	102	67	24	22.5	19	25.5	15
K4-04SH	1/2"	226	82	32	30	26.5	34	15

Notes: Also available without socket valve, identified by product code TS (e.g. K03SH without valve is K03TSH)
 Also available are Cuplas with sleeve stopper. (Made-to-order item)