For Cooling Water and Heat Transfer Oil

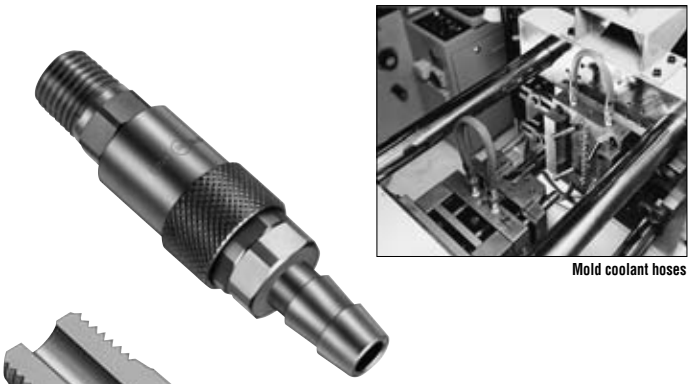
Mold Cupla

General purpose and mold coolant port coupling

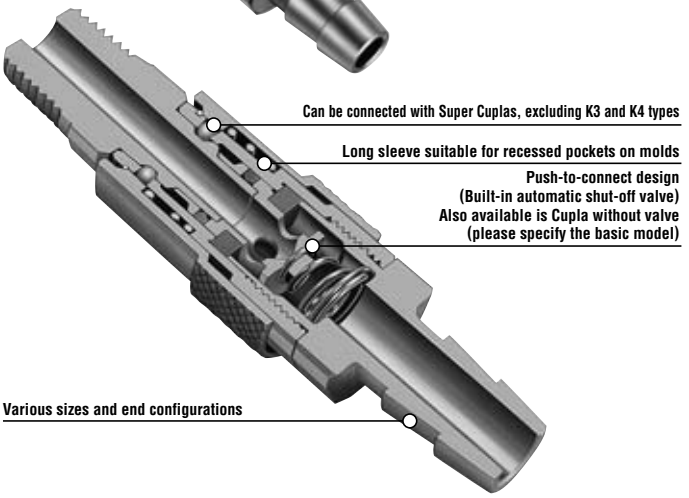
Working pressure: 1.0 — 1.0MPa {10kgf/cm²}

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

Applicable fluids: Water; Heated Oil



Mold coolant hoses



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/cm²}	1.0 {10}			
Pressure resistance MPa {kgf/cm²}	1.5 {15}			
Seal material Working temperature range	Seal material	Mark	Working temperature range	Remarks
	Nitrile rubber	NBR (SG)	-20℃~+80℃	Standard material
	Fluoro rubber	FKM (X-100)	-20℃~+180℃	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

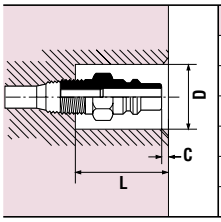
K3SP, K4SP type

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
K01PM	20 or more	0~3	28
K02PM	20 or more	0~3	29
K03PM	20 or more	0~3	30
K3-02PM	24 or more	0~3	31
K3-03PM	24 or more	0~3	31
K4-04PM	32 or more	0~3	39

Remarks:
* Socket interference prevents connection/disconnection when C exceeds 3mm.
* Size D should be bigger than the outer diameter of the socket wrench to be used. (See JISB4636-1, JISB4636-2)

Flow Rate – Pressure Loss Characteristics

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