

For Low Pressure (Air)

Super Cupla

Light, compact for air piping connections

Working pressure



1.0 MPa
(10 kgf/cm²)

Valve structure



One-way shut-off

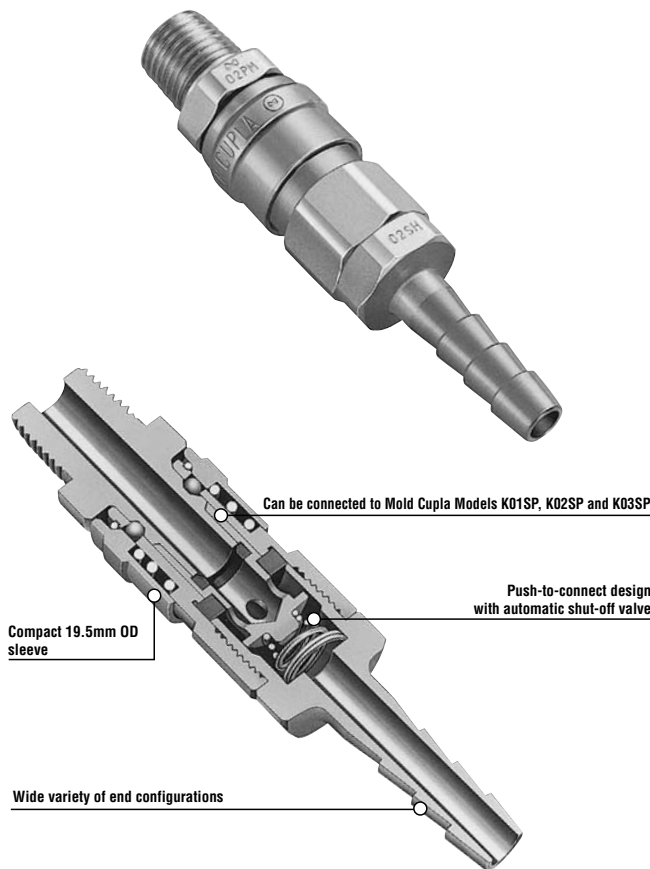
Applicable fluids



Air

The lightweight design makes the Cupla best suited to power tools!
Push-to-connect for easy operation.

- Lightweight design suits direct connection to power tools. Aluminum body is adopted for some models to reduce the weight.
- Just push the plug into socket for easy one hand connection.
- Available in various end configurations for a wide range of pneumatic applications.
- Model O2S20P can be connected with sockets for Hi Cupla Models 20, 30 and 40.
- Also available with quick connect / disconnect Tube Fitter type.



Specifications

Body material	Cupla : Steel (Chrome-plated), Aluminum Tube Fitter Type: Brass (Nickel-plated)			
Size	1/8" • 1/4"			
Tube size (for Tube Fitter end configurations)	Polyurethane : $\phi 6 \pm 0.1$ • $\phi 8 \pm 0.15$ Nylon : $\phi 6^{+0.05}_{-0.08}$ • $\phi 8^{+0.05}_{-0.1}$ Teflon : $\phi 6 \pm 0.07$ • $\phi 8 \pm 0.07$			
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	Made-to-order item

* Above specifications apply only to Cuplas. Working pressure, pressure resistance and working temperature range may vary depending on tube materials you use with and temperature conditions you use under. Micro Cupla with Tube Fitter has NBR packing material only.

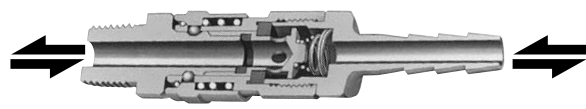
Max. Tightening Torque

N·m (kgf·cm)

Size	1/8"	1/4"
Torque	7 (71)	14 (143)

Flow Direction

Air flows in either direction from plug or socket side when coupled.



Interchangeability

Any socket and plug can be connected regardless of their sizes and end configurations.
* Can be connected with Mold Cuplas.

* When conversion socket+plug Model O2S20P is used, Super Cupla plugs can be connected with sockets for Hi Cupla Models 20, 30 and 40.

Min. Cross-Sectional Area

(mm²)

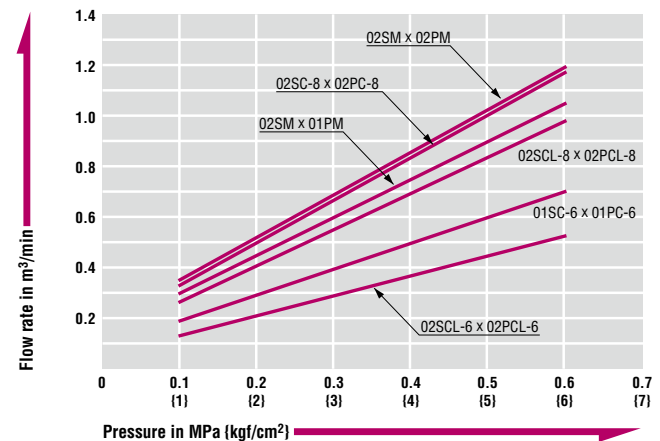
Model	O1SP	O2SP	Tube Fitter Type for 6mm OD tube	Tube Fitter Type for 8mm OD tube
Min. cross-sectional area	19	19	12.5	19

Suitability for Vacuum

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

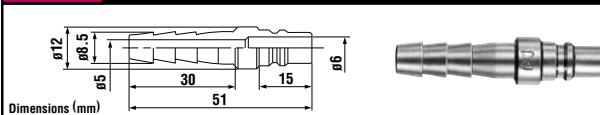
Pressure - Flow Characteristics

[Test conditions] • Fluid : Air • Temperature : Room temperature
• Tube size : $\phi 6\text{mm} \times \phi 4\text{mm}$, $\phi 8\text{mm} \times \phi 6\text{mm}$ (Super Cupla with Tube Fitter)



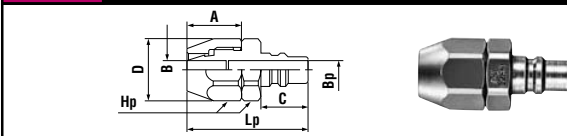
Models and Dimensions

Plug O2PH type (Hose barb)



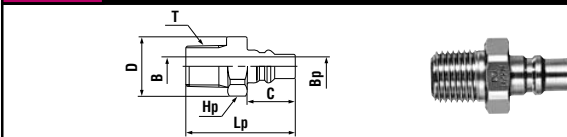
Model	Application (Hose)	Mass (g)
O2PH	1/4"	16

Plug PN type (For connection to urethane hose)



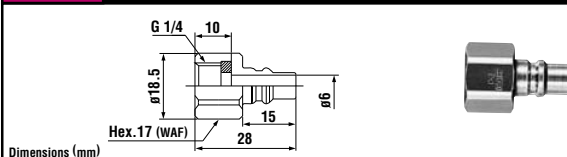
Model	Application (Hose)	Mass (g)	Dimensions (mm)						
			Lp	C	σD	A	Hp(WAF)	σBp	σB
O1PN	φ5mm x φ8mm	27.6	(38.5)	15	18.5	17	Hex.17	6	3.8
O2PN	φ6.5mm x φ10mm	27.6	(38.5)	15	18.5	17	Hex.17	6	5.3

Plug PM type (Male thread)



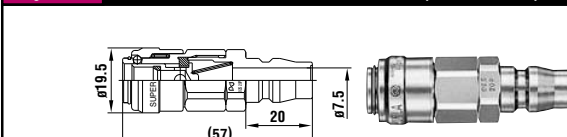
Model	Application	Mass (g)	Dimensions (mm)						
			Lp	C	σD	Hp(WAF)	T	σBp	σB
O1PM	Rc 1/8	12	31	15	-	Hex.12	R 1/8	6	5
O2PM	Rc 1/4	22.7	34	15	18.5	Hex.17	R 1/4	6	6

Plug O2PFF type (Parallel female thread)



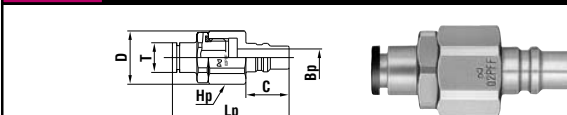
Model	Application	Mass (g)
O2PFF	G 1/4	17.7

Plug/Socket Model O2S20P (Conversion model to connect Hi Cupla socket and Super Cupla plug)



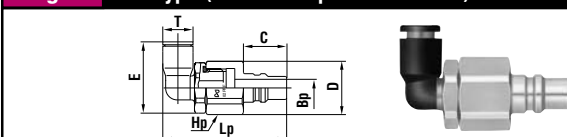
Model	Application	Mass (g)
O2S20P	Hi Cupla (Socket)	58

Plug PC type (With Tube Fitter)



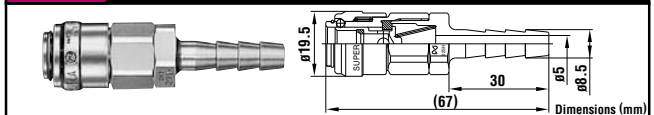
Model	Application (Tube)	Mass (g)	Dimensions (mm)						
			Lp	C	σD	E	Hp(WAF)	σT	σBp
O2PC-6	6mm OD	28.5	(40.5)	15	18.5	18.5	Hex.17	10.3	6
O2PC-8	8mm OD	33	(47.5)	15	18.5	18.5	Hex.17	13.5	6

Plug PCL type (With L-shaped Tube Fitter)



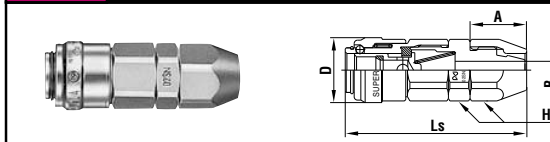
Model	Application (Tube)	Mass (g)	Dimensions (mm)						
			Lp	C	σD	E	Hp(WAF)	σT	σBp
O2PCL-6	6mm OD	29.5	(43)	15	18.5	(25.3)	Hex.17	10.5	6
O2PCL-8	8mm OD	34.5	(46.5)	15	18.5	(32.3)	Hex.17	13.5	6

Socket O2SH type (Hose barb)



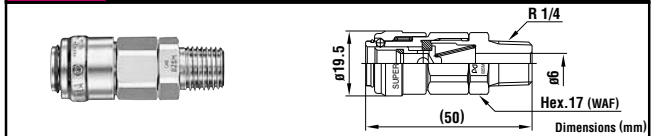
Model	Application (Hose)	Mass (g)
O2SH	1/4"	56

Socket SN type (For connection to urethane hose)



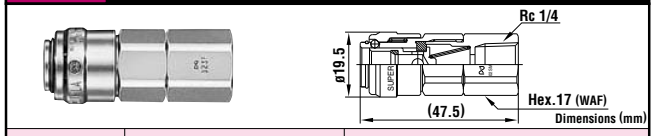
Model	Application (Hose)	Mass (g)	Dimensions (mm)				
			Ls	A	σD	Hs(WAF)	σB
O1SN	φ5mm x φ8mm	35	(54.5)	17	19.5	Hex.17	3.8
O2SN	φ6.5mm x φ10mm	35	(54.5)	17	19.5	Hex.17	5.3

Socket SM type (Male thread)



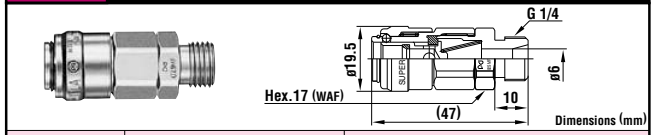
Model	Application	Mass (g)
O2SM	Rc 1/4	57

Socket O2SF type (Female thread)



Model	Application	Mass (g)
O2SF	R 1/4	26

Socket O2SMF type (Parallel female thread)



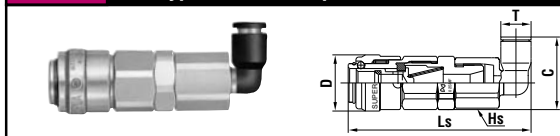
Model	Application	Mass (g)
O2SMF	G 1/4	27

Socket SC type (With Tube Fitter)



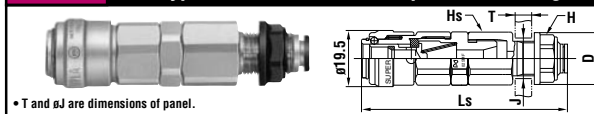
Model	Application (Tube)	Mass (g)	Dimensions (mm)		
			Ls	σD	σT
O2SC-6	6mm OD	46	(65.5)	19.5	10.5
O2SC-8	8mm OD	50.5	(70)	19.5	13.5

Socket SCL type (With L-shaped Tube Fitter)



Model	Application (Tube)	Mass (g)	Dimensions (mm)				
			Ls	σD	Hs(WAF)	C	σT
O2SCL-6	6mm OD	47.5	(63.5)	19.5	Hex.16	(25.7)	10.3
O2SCL-8	8mm OD	49.5	(67.7)	19.5	Hex.16	(32.8)	13.5

Socket SCB type (With Tube Fitter for panel mounting)



* T and σJ are dimensions of panel.

Model	Application (Tube)	Mass (g)	Dimensions (mm)					
			Ls	σD	Hs(WAF)	H(WAF)	T	σJ
O2SCB-6	6mm OD	45.5	(71.5)	18	Hex.17	Hex.15	7 or less	12.5 ^{+0.3} ₀
O2SCB-8	8mm OD	46.5	(72)	21	Hex.17	Hex.18	8 or less	15.5 ^{+0.3} ₀