

For Low Pressure (Air)

Hi Cupla 200

Push-to-connect type for air lines

Working pressure



Valve structure



Applicable fluid



Simple and secure push-to-connect type! Big flow rate! End-face seal design. Gives excellent handling touch.

- Just push the plug into the socket for simple and secure connection. This reduces connection time and improves efficiency.
- New valve design for low pressure loss to achieve flow rate increase (15% up over the conventional model).
- End-face seal is achieved when connected.
- Enhanced operability with low connection resistance.
- End-face seal design is superior to external seal with an O-ring due to no seal damage caused by exhausted lubrication.
- Available only with steel body. Not suitable for water or oil.
- Also available with quick connect/disconnect Tube Fitter type.



▼ With Tube Fitter

Specifications

Body material		Steel (Chrome plated)			
Size	Thread and hose barb	1/4", 3/8", 1/2"			
	Tube barb (Tube fitter)	Polyurethane tube: Outside Dia. $\phi 6 \pm 0.1$, $\phi 8 \pm 0.15$, $\phi 10 \pm 0.15$ Polyamide tube: Outside Dia. $\phi 6^{+0.05}_{-0.08}$, $\phi 8^{+0.05}_{-0.1}$, $\phi 10^{+0.05}_{-0.1}$ Fluorine contained resin tube: Outside Dia. $\phi 6 \pm 0.07$, $\phi 8 \pm 0.07$, $\phi 10 \pm 0.07$			
Pressure unit	MPa	kgf/cm ²	bar	PSI	
Working pressure	1.5	15	15	218	
Seal material	Seal material	Mark	Working temperature range	Remarks	
Working temperature range	Nitrile rubber	NBR (SG)	-20°C to +60°C	Standard material	

* Above are specifications only for Cuplas. Max working pressure and working temperature range may vary depending on materials of the tube and the working temperature.

Max. Tightening Torque Nm {kgf·cm}

Size (Thread)	1/4"	3/8"	1/2"
Torque	14 {143}	22 {224}	60 {612}

Flow Direction

Fluid must run from socket to plug.



Interchangeability

Interchangeable with Hi Cupla Models 20, 30 and 40.
Interchangeable with each corresponding Hi Cupla Series models.

Min. Cross-Sectional Area (mm²)

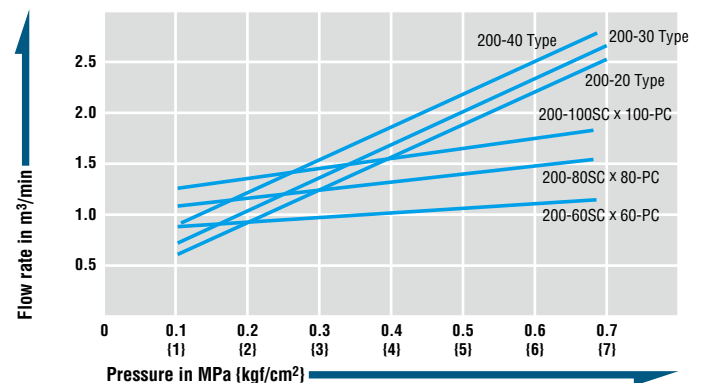
Socket	Plug	17PH	20PH	30PH	40PH	10PM	20PM	30PM	40PM	20PF	30PF	40PF
200-17SH		16	16	16	16	13	16	16	16	16	16	16
200-20SH		16	20	20	20	13	20	20	20	20	20	20
200-30SH		16	20	41	41	13	41	41	41	41	41	41
200-40SH		16	20	41	41	13	41	41	41	41	41	41
200-20SM		16	20	41	41	13	41	41	41	41	41	41
200-30SM		16	20	41	41	13	41	41	41	41	41	41
200-40SM		16	20	41	41	13	41	41	41	41	41	41
200-20SF		16	20	41	41	13	41	41	41	41	41	41
200-30SF		16	20	41	41	13	41	41	41	41	41	41
200-40SF		16	20	41	41	13	41	41	41	41	41	41

Suitability for Vacuum

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

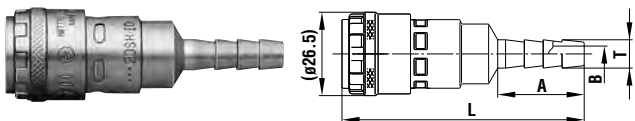
Pressure - Flow Characteristics

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



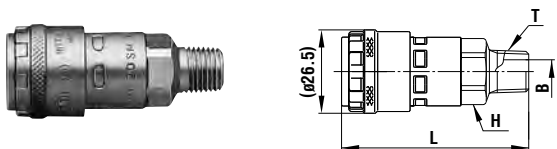
Models and Dimensions WAF : WAF stands for width across flats.

Socket SH type (Hose barb)



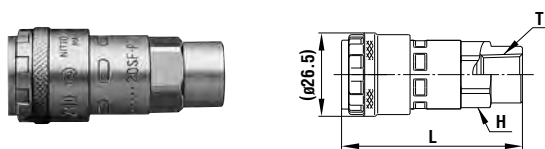
Model	Application (Hose)	Mass (g)	Dimensions (mm)			
			L	A	øT	øB
200-17SH	1/4"	86	(77)	27	7.2	4.5
200-20SH	1/4"	90	(77)	27.5	9	5
200-30SH	3/8"	92	(79)	32	11.3	7.5
200-40SH	1/2"	104	(79.5)	32	15	10

Socket SM type (Male thread)



Model	Application	Mass (g)	Dimensions (mm)			
			L	H(WAF)	T	øB
200-20SM	Rc 1/4	89	(60)	Hex.19	R 1/4	7.5
200-30SM	Rc 3/8	91	(60.5)	Hex.19	R 3/8	10
200-40SM	Rc 1/2	102	(56)	Hex.24	R 1/2	13

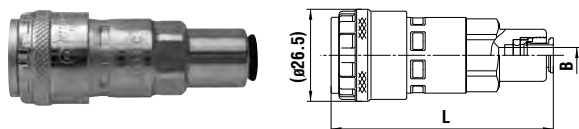
Socket SF type (Female thread)



Models	Application	Mass (g)	Dimensions (mm)		
			L	H(WAF)	T
200-20SF	R 1/4	94	(57.5)	Hex.19	Rc 1/4
200-30SF	R 3/8	103	(55.5)	Hex.22	Rc 3/8
200-40SF	R 1/2	138	(57.5)	Hex.29	Rc 1/2

Models and Dimensions (With Tube Fitter)

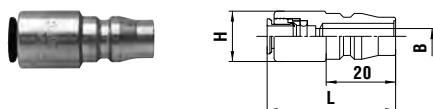
Socket SC type (Tube Fitter)



Model	Application	Mass (g)	Dimensions (mm)	
			L	øB
200-60SC	For 6 mm OD tube	100	(64)	5
200-80SC	For 8 mm OD tube	105	(67.5)	6.5
200-100SC	For 10 mm OD tube	123	(70.5)	8.5

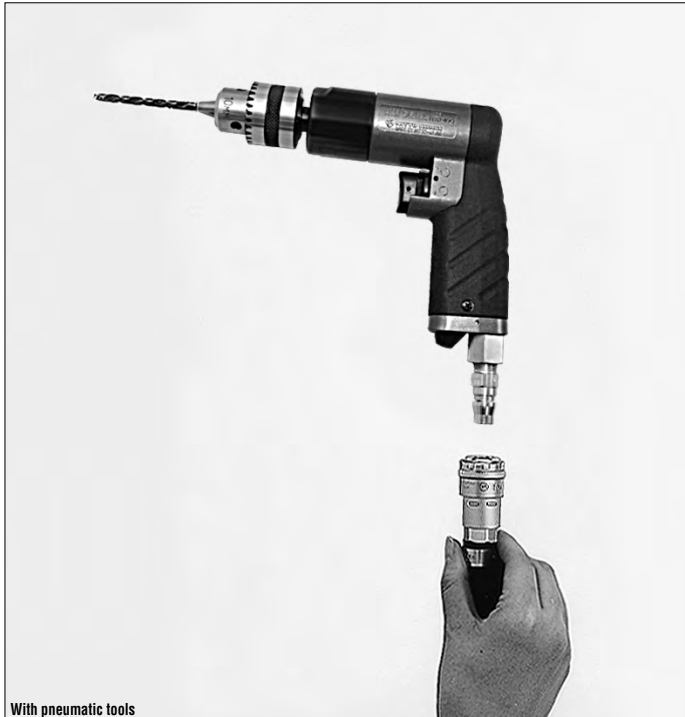
• The outer dimensions of Model 200-100SC are a little bit different from those of other models.

Plug PC type (Tube Fitter)

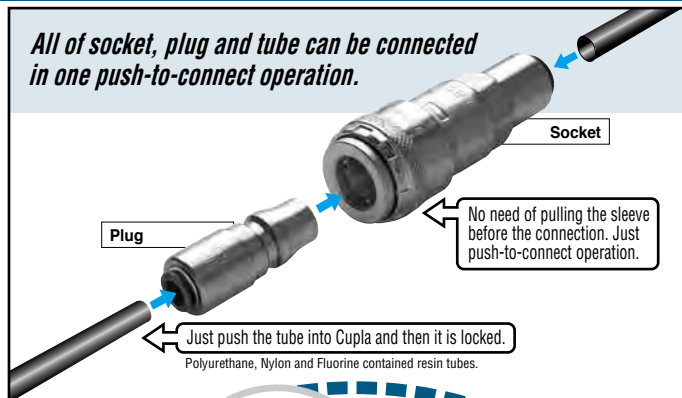


Model	Application	Mass (g)	Dimensions (mm)		
			L	øH	øB
60PC	For 6 mm OD tube	25	(37)	14.5	4.5
80PC	For 8 mm OD tube	30	(41)	16.5	6.5
100PC	For 10 mm OD tube	43	(45)	19.5	7.5

Application example



All of socket, plug and tube can be connected in one push-to-connect operation.



Hi Cupla 200 and Tube Fitter are now integrated.

Major applications: miniature pneumatic equipment, automatic control equipment, physicochemical equipment and medical devices.

Just push in for quick connection.