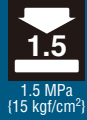


For Low Pressure (Air)

# 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 (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. $\phi 6 \pm 0.07$ , $\phi 8 \pm 0.07$ , $\phi 10 \pm 0.07$		
Working pressure	MPa	1.5		
	kgf/cm <sup>2</sup>	15		
	bar	15		
	PSI	218		
Seal material		Nitrile rubber	Mark	NBR (SG)
Working temperature range		-20°C to +60°C		Remarks
Standard material				

• Above are specifications only for Cuplas. Working pressures, maximum pressures and working temperature ranges may vary depending on materials of the tube and its working temperature range.

## 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

(mm<sup>2</sup>)

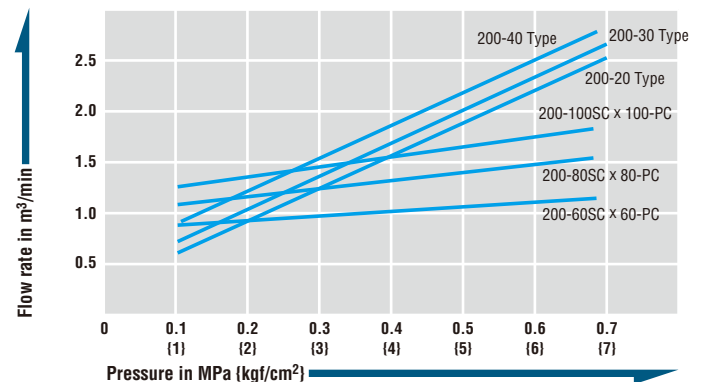
Socket	Plug	17PH	20PH	30PH	40PH	10PM	20PM	30PM	40PM	20PF	30PF	40PF
200-17SH		16	16	16	16	13	16	16	16	16	16	16
200-20SH		16	20	20	20	13	20	20	20	20	20	20
200-30SH		16	20	41	41	13	41	41	41	41	41	41
200-40SH		16	20	41	41	13	41	41	41	41	41	41
200-20SM		16	20	41	41	13	41	41	41	41	41	41
200-30SM		16	20	41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

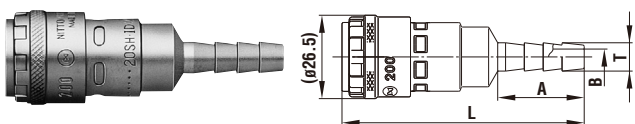
## Pressure - Flow Characteristics

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



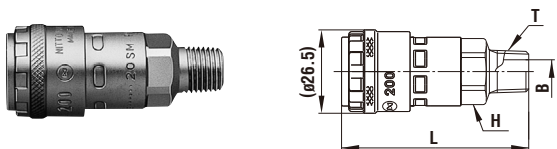
**Models and Dimensions** WAF : WAF stands for width across flats.

**Socket SH type (Hose barb)**



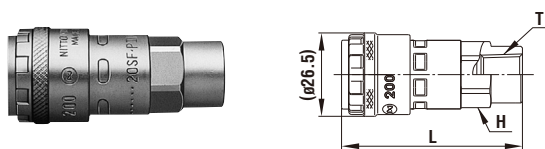
Model	Application (Hose)	Mass (g)	Dimensions (mm)			
			L	A	øT	øB
200-17SH	1/4"	86	(77)	27	7.2	4.5
200-20SH	1/4"	90	(77)	27.5	9	5
200-30SH	3/8"	92	(79)	32	11.3	7.5
200-40SH	1/2"	104	(79.5)	32	15	10

**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

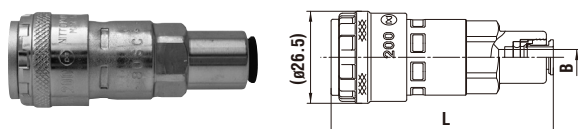
**Socket SF type (Female thread)**



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)**

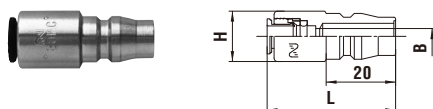
**Socket SC type (Tube Fitter)**



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

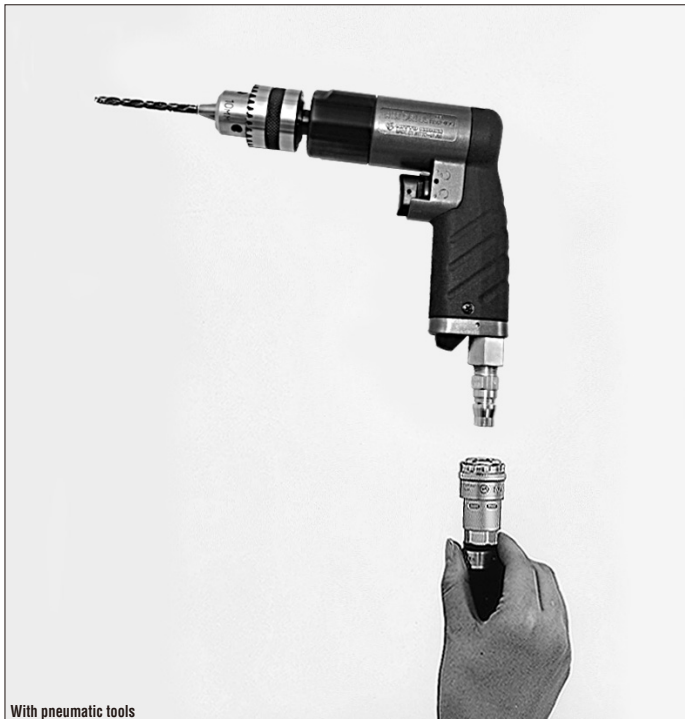
• The outer dimensions of Model 200-100SC are a little bit different from those of other models.

**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.*

Socket

Plug

No need of pulling the sleeve before the connection. Just push-to-connect operation.

Just push the tube into Cupla and then it is locked.

Polyurethane, Nylon and Fluorine contained resin tubes.

**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.**

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