

For Air

Hi Cupla 200

Push-to-connect type for air lines

Working pressure



1.5 MPa
(15 kgf/cm²)

Valve structure



One-way shut-off

Applicable fluid



Air



▼ with Tube Fitter

Simple and secure push-to-connect type! Big flow rate!
Tube edge 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 previous model).
- Tube edge seal is achieved when connected.
- Low connection resistance allows easier connection/disconnection.
- No seal damage caused by exhausted lubricant is observed and the handling is superior to external O-ring design.
- Available only with steel body. Not suitable for water or oil.
- Tube Fitter type is available for push-to-connect operation.

Specifications

Body material	Steel (Chrome-plated)			
Size	1/4" (20 type) • 3/8" (30 type) • 1/2" (40 type)			
Tube size (for Tube Fitter end configurations)	Polyurethane : $\phi 6 \pm 0.1$ • $\phi 8 \pm 0.15$ • $\phi 10 \pm 0.15$ Nylon : $\phi 6^{+0.05}_{-0.08}$ • $\phi 8^{+0.05}_{-0.1}$ • $\phi 10^{+0.05}_{-0.1}$ Teflon : $\phi 6 \pm 0.07$ • $\phi 8 \pm 0.07$ • $\phi 10 \pm 0.07$			
Working pressure MPa (kgf/cm ²)	1.5 {15}			
Pressure resistance MPa (kgf/cm ²)	2.0 {20}			
Seal material	Seal material	Mark	Working temperature range	Remarks
Working temperature range	Nitrile rubber	NBR (SG)	-5°C~+60°C	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 temperature conditions in use. The seal material of Micro Cupla with Tube Fitter is NBR only.

Max. Tightening Torque

N·m (kgf·cm)

Size	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	20PM	30PM	40PM	20PF	30PF	40PF
200-17SH	16	16	16	16	16	16	16	16	16	16
200-20SH	16	20	20	20	20	20	20	20	20	20
200-30SH	16	20	41	41	41	41	41	41	41	41
200-40SH	16	20	41	41	41	41	41	41	41	41
200-20SM	16	20	41	41	41	41	41	41	41	41
200-30SM	16	20	41	41	41	41	41	41	41	41
200-40SM	16	20	41	41	41	41	41	41	41	41
200-20SF	16	20	41	41	41	41	41	41	41	41
200-30SF	16	20	41	41	41	41	41	41	41	41
200-40SF	16	20	41	41	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

