

For Low Pressure

Hi Cupla Ace

Lightweight plastic coupling with automatic safety lock for air line applications

Working pressure



1.5 MPa
(15 kgf/cm²)

Valve structure



One-way shut-off

Applicable fluid



Air

Water

The weight is merely a quarter of steel Hi Cupla's and smooth push-in connection is achieved. Automatic sleeve lock for safety operation.

- Pressure ratings comparable to steel Cuplas.
- A built-in "automatic lock mechanism" locks the sleeve upon connection, thus prevents accidental disconnection.
- Just push plug into socket for simple connection.
- The weight is a quarter of steel Hi Cupla for easy handling.
- Can be used for air and water.
- Less likely to damage painted or easily dented surfaces than metal couplings.
- Air flows in either direction from plug or from socket side when coupled.
- Plug and socket with hose guard nut are also available (see the pages of NK Cupla Hose / NK Cupla Coil Hose for details).



Specifications

Body material		Engineering plastics (PBT, POM)		
Size	Thread and hose barb	1/4", 3/8" / 1/4", 3/8"		
	PN type, SN type (PNG type, SNG type)	For ø5 mm x ø8 mm, ø6 mm x ø9 mm, ø6.5 mm x ø10 mm, ø8 mm x ø12 mm, ø8.5 mm x ø12.5 mm polyurethane hose		
	T type	HA-T type • Inlet : 20P-PLA • Outlet : HA-65S x 2		
Working pressure		MPa	1.5 / 1.0 for Model HA-T	
		kgf/cm²	15 / 10 for Model HA-T	
		bar	15 / 10 for Model HA-T	
		PSI	218 / 145 for Model HA-T	
Seal material		Seal material	Mark	Working temperature range
Working temperature range		Nitrile rubber	NBR (SG)	-20°C to +60°C
		Standard material		

Tightening Torque Range

Nm [kgf·cm]

Model	20/30SM 20/30PM	50/60/65SN 50/60/65PN	80/85SN 80/85PN	20PFF
Torque	2.5 to 3.0 (26 to 31)	1.6 to 2.0 (16 to 20)	2.2 to 2.8 (22 to 29)	2.0 to 2.5 (20 to 25)

Flow Direction

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



Interchangeability

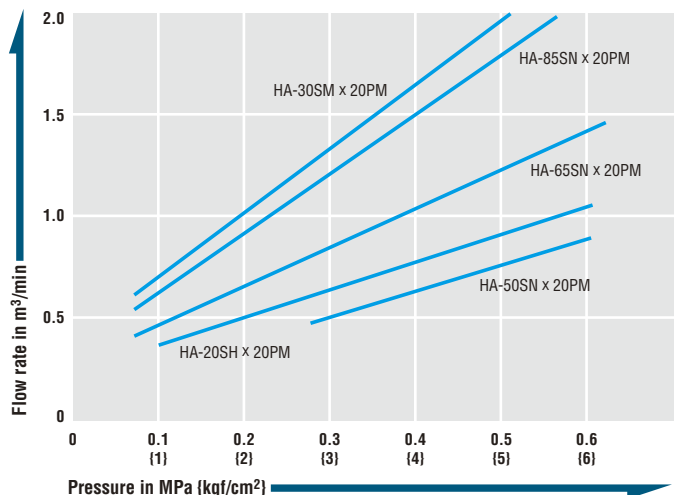
Can be connected with Hi Cupla Models 10, 17, 20, 30 and 40. Interchangeable with models of Nut Cupla Series and Hi Cupla Series except models 400, 600, and 800.

Suitability for Vacuum

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

Pressure - Flow Characteristics

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



Sleeve lock function

