

For Air

# Hi Cupla Ace

Lightweight plastic coupling with automatic safety lock for air line applications

Working pressure



1.5 MPa  
(15 kgf/cm<sup>2</sup>)

Valve structure



One-way shut-off

Applicable fluid



Air

Water

Inert gas



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" to lock the sleeve when connected, thus prevents accidental detachment.
- 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, water, and inert gases.
- Plastic body will cause minimum risk of damage even when in contact with tools or equipment.
- 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	1/4" (20 type) • 3/8" (30 type)			
	For ø5mm x ø8mm • ø6mm x ø9mm • ø6.5mm x ø10mm polyurethane hose			
	For ø8mm x ø12mm • ø8.5mm x ø12.5mm polyurethane hose			
	HA-T type • Inlet : 20P-PLA • Outlet : HA-65S x 2			
Working pressure MPa (kgf/cm <sup>2</sup> )	1.5 (15) / 1.0 (10) for Model HA-T			
Pressure resistance MPa (kgf/cm <sup>2</sup> )	2.0 (20) / 1.5 (15) for Model HA-T			
Seal material	Seal material	Mark	Working temperature range	Remarks
Working temperature range	Nitrile rubber	NBR (SG)	-5°C~+60°C	Standard material

• Plastic Plug : Working pressure 1.0MPa (10kgf/cm<sup>2</sup>), Pressure resistance 1.5MPa (15kgf/cm<sup>2</sup>)

## Tightening Torque Range

Size	20/30SM	50/60/65SN	80/85SN
Torque	2.5~3 (26~29)	1.6~2.0 (16~20)	2.2~2.8 (22~29)

## Flow Direction

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



## Interchangeability

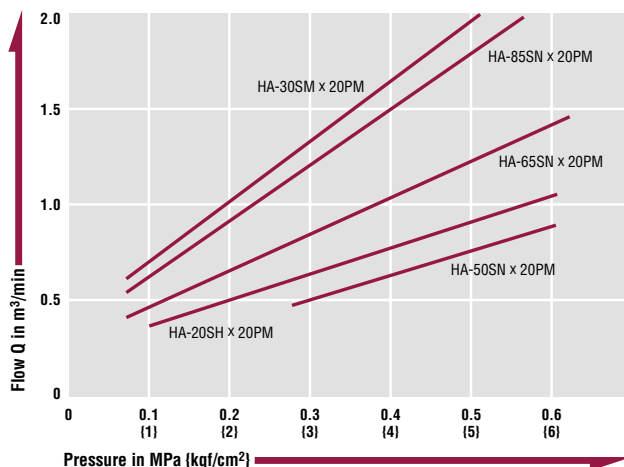
Can be connected with Hi Cupla Models 20, 30 and 40. Interchangeable with each corresponding Hi Cupla Series models.

## Suitability for Vacuum

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

## Pressure - Flow Characteristics

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



## Automatic sleeve lock function

Hi Cupla Ace can be connected even if the locking sleeve is in the "lock" position, but when connected it cannot be disconnected without turning the sleeve to unlock position.

