# For Low Pressure HI CUPLA ACE Lightweight plastic coupling with automatic safety lock for air line applications Working pressure Valve structure Applicable fluids Applicable fluids

# The weight is merely a quarter of steel HI CUPLA's and smooth push-in connection is achieved. Sleeve lock mechanism for safety operation.

- . Pressure ratings comparable to steel CUPLA.
- A built-in "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.
- Air flows in either direction from plug or from socket side when coupled.
- Plug and socket with hose guard nut are also available (see page 64 of NK CUPLA HOSE / NK CUPLA COIL HOSE for details).





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

Tightening Torque Range Nm {kgf∙cn							
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



# Interchangeability

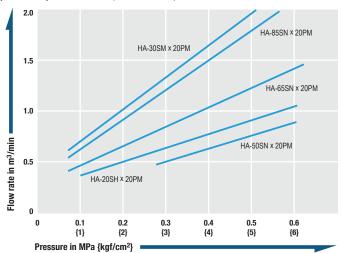
Interchangeable with HI CUPLA models 10, 17, 20, 30 and 40. Interchangeable with each models of NUT CUPLA series and HI CUPLA series (except models 400, 600, and 800). Please see page 19 for "HI CUPLA Series Interchangeability".

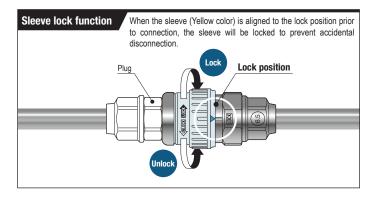
### **Suitability for Vacuum**

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

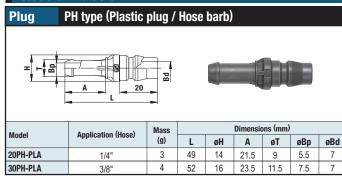
### **Pressure - Flow Characteristics**

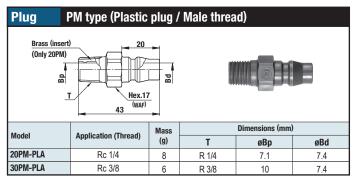
[Test conditions] • Fluid : Air • Temperature : Room temperature





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





Plug

PN type (Plastic plug / For urethane hose connection)

