

For Air

# Hi Cupla

Universal purpose couplings for air lines

Working pressure



Valve structure



Applicable fluids (steel applies to air only)



## Specifications

Body material	Steel (Chrome-plated)	Brass	Stainless steel
Size	1/8" (10 type) • 1/4" (20 type) • 3/8" (30 type) 1/2" (40 type, 400 type) • 3/4" (600 type) • 1" (800 type)		
Working pressure MPa (kgf/cm <sup>2</sup> )	1.5 (15)	1.0 (10)	1.5 (15)
Pressure resistance MPa (kgf/cm <sup>2</sup> )	2.0 (20)	1.5 (15)	2.0 (20)
Seal material Working temperature range	Seal material	Mark	Working temperature range
	Nitrile rubber	NBR (SG)	-20°C~+80°C
	Fluoro rubber	FKM (X-100)	-20°C~+180°C
			Remarks
			Standard material
			Available on request

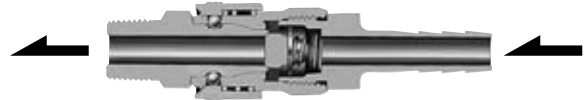
## Max. Tightening Torque

N·m (kgf·cm)

Size		1/8"	1/4"	3/8"	1/2"	3/4"	1"
Torque	Steel	7 {71}	14 {143}	22 {224}	60 {612}	100 {1020}	120 {1224}
	Brass	—	9 {92}	11 {112}	30 {306}	50 {510}	65 {663}
	Stainless steel	—	14 {143}	22 {224}	60 {612}	100 {1020}	120 {1224}

## Flow Direction

Fluid must run from socket to plug.



## Interchangeability

- Sockets and plugs for Models 10 (1/8"), 17 (1/4"), 20 (1/4"), 30 (3/8") and 40 (1/2") can be connected with each other.
- Sockets and plugs for Models 400 (1/2"), 600 (3/4") and 800 (1") can be connected with each other. ① and ② can not be connected across each group.
- Interchangeable with all other Hi Cupla Series products.

## Min. Cross-Sectional Area

(mm<sup>2</sup>)

### 17, 20, 30, 40 type

Socket \ Plug	17PH	20PH	20PM-PF	30PH	30PM-PF	40PH	40PM-PF
17SH	16	16	16	16	16	16	16
20SH	16	20	20	20	20	20	20
20SM-SF	16	20	33	33	33	33	33
30SH	16	20	33	33	33	33	33
30SM-SF	16	20	33	33	33	33	33
40SH	16	20	33	33	33	33	33
40SM-SF	16	20	33	33	33	33	33

### 400, 600, 800 type

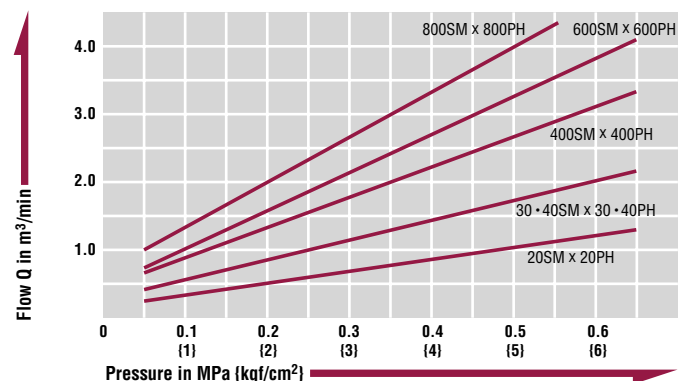
Socket \ Plug	400PH	400PM-PF	600PH	600PM-PF	800PH	800PM-PF
400SH	64	64	64	64	64	64
400SM-SF	64	94	94	94	94	94
600SH	64	94	94	94	94	94
600SM-SF	64	94	94	94	94	94
800SH	64	94	94	94	94	94
800SM-SF	64	94	94	94	94	94

## Suitability for Vacuum

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

## Pressure - Flow Characteristics

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



From factory air line to pneumatic tool connection, available in various body materials, sizes and connection types. Excellent durability.

- An excellent general purpose coupling for connecting factory air supply to pneumatic tools.
- Steel coupling is suitable for air. Brass or stainless steel are suitable for water. Note that fluid will come out from the plug when disconnected.
- Critical structural parts of steel models are heat-treated for increased strength giving greater durability and resistance to wear.
- Available in various body materials, sizes and end configurations applicable to a wide range of applications.