

For Low Pressure

Hi Cupla

Universal purpose couplings for air lines

Working pressure

1.5


1.5 MPa
(15 kgf/cm²)

Working pressure

1.0


1.0 MPa
(10 kgf/cm²)

Valve structure




One-way shut-off

Applicable fluids (Steel applies to air only)



Air



Water

From factory air line to pneumatic tool connection, available in various body materials, sizes and end configurations. 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 is 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.

Specifications					
Body material		Steel (Chrome-plated)	Brass	Stainless steel	
Size	Thread	1/8" to 1"			
	Hose barb	1/4" to 1" hose			
Working pressure		MPa	1.5	1.0	1.5
		kgf/cm ²	15	10	15
		bar	15	10	15
		PSI	218	145	218
Seal material	Working temperature range	Seal material	Mark	Working temperature range	Remarks
Nitrile rubber		NBR (SG)	-20°C to +80°C	Standard material	
Fluoro rubber		FKM (X-100)	-20°C to +180°C		

Max. Tightening Torque		Nm (kgf·cm)					
Size (Thread)		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	5 {51}	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

- ① Sockets and plugs for Models 10, 17, 20, 30, and 40 can be connected with each other regardless of end configurations.
- ② Sockets and plugs for Models 400, 600, and 800 can be connected with each other regardless of end configurations. ① and ② can not be connected across each group.
- ③ Interchangeable with all other Hi Cupla Series products. Please see the page for "Hi Cupla Series Interchangeability."

Min. Cross-Sectional Area

(mm²)

10, 17, 20, 30, 40 type

Socket	Plug	17PH	20PH	30PH	40PH	10PM	20PM	30PM	40PM	20PF	30PF	40PF
10SM		13	13	13	13	13	13	13	13	13	13	13
17SH		16	16	16	16	13	16	16	16	16	16	16
20SH		16	20	20	20	13	20	20	20	20	20	20
20SM, SF		16	20	33	33	13	33	33	33	33	33	33
30SH		16	20	33	33	13	33	33	33	33	33	33
30SM, SF		16	20	33	33	13	33	33	33	33	33	33
40SH		16	20	33	33	13	33	33	33	33	33	33
40SM, SF		16	20	33	33	13	33	33	33	33	33	33

400, 600, 800 type

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

Suitability for Vacuum

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

