

For Low Pressure

Hi Cupla BL

Universal purpose couplings with sleeve lock mechanism for air lines

Working pressure



1.5 MPa
(15 kgf/cm²)

Valve structure



One-way shut-off

Applicable fluids (Steel applies to air only)



Air

Water

Sleeve-lock mechanism is engaged by rotating the sleeve after connection.

- Sleeve-lock mechanism prevents accidental disconnection.
- An excellent general purpose coupling for connecting factory air supply to pneumatic tools.
- Steel coupling is suitable for air. Stainless steel is suitable for water. Note that fluid will come out from the plug when disconnected.
- Critical structural parts made of steel are heat-treated for increased strength giving greater durability and resistance to wear.
- Various body materials, sizes, and end configurations are available.
- SN-BL type for connection to urethane hose requires no hose clamp.



Specifications

Body material			Steel (Chrome-plated)	Stainless steel		
Size	Thread and hose barb		1/4", 3/8", 1/2"			
	SN Type		For ø6.5 x ø10 mm hose	-		
			For ø8 x ø12 mm hose			
			For ø8.5 x ø12.5 mm hose			
Working pressure		MPa	1.5			
		kg/cm ²	15			
		bar	15			
		PSI	218			
Seal material			Seal material	Mark	Working temperature range	Remarks
Working temperature range			Nitrile rubber	NBR (SG)	-20°C to +80°C	Standard material

Note: Working temperature range of SN-BL type is -20°C ~ +60°C.

Max. Tightening Torque

Nm (kgf·cm)

Size (Thread)		1/4"	3/8"	1/2"
Torque	Steel	14 {143}	22 {224}	60 {612}
	Stainless steel	14 {143}	22 {224}	60 {612}

Tightening Torque Range

Nm (kgf·cm)

SN Type	
9 to 11 {92 to 112}	

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 Interchangeable with all other Hi Cupla Series products. Please see the page for "Hi Cupla Series Interchangeability."

Min. Cross-Sectional Area

(mm²)

Socket \ Plug	17PH	20PH	30PH	40PH	10PM	20PM	30PM	40PM	20PF	30PF	40PF
20SH-BL	16	20	20	20	13	20	20	20	20	20	20
20SM-BL	16	20	33	33	13	33	33	33	33	33	33
20SF-BL	16	20	33	33	13	33	33	33	33	33	33
30SH-BL	16	20	33	33	13	33	33	33	33	33	33
30SM-BL	16	20	33	33	13	33	33	33	33	33	33
30SF-BL	16	20	33	33	13	33	33	33	33	33	33
40SH-BL	16	20	33	33	13	33	33	33	33	33	33
40SM-BL	16	20	33	33	13	33	33	33	33	33	33
40SF-BL	16	20	33	33	13	33	33	33	33	33	33
65SN-BL	16	20	22	22	13	22	22	22	22	22	22
80SN-BL	16	20	33	33	13	33	33	33	33	33	33
85SN-BL	16	20	33	33	13	33	33	33	33	33	33

Suitability for Vacuum

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

Pressure - Flow Characteristics

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

