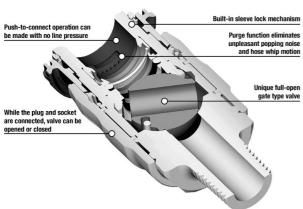
For Low Pressure (Air) FULL-BLOW CUPLA Air line coupling with low pressure loss and high flow rate Working pressure Valve structure Valve structure One-way shut-off (15 kgl/cm²) Applicable fluid Air Applicable fluid Air

Unique full-open gate type valve mechanism realizes low pressure loss and high flow rate, which reduces required source air volume.

- The flow rate is increased by up to 40% more than that of conventional CUPLA.
- During connection and disconnection, the valve is closed, enabling connection/disconnection under zero line pressure.
- When the sleeve of socket is returned to its original position, the purge mechanism releases the residual air pressure in the plug, eliminating unpleasant popping noise and hose whip motion on disconnection.
- Built-in sleeve lock mechanism prevents accidental disconnection of CUPLA, ensuring safe operation.
- The valve can be opened and closed while the socket and plug are connected.
- The weight is reduced by 30 to 45% compared with that of conventional CUPLA.
 Note: Direct mounting of FULL-BLOW CUPLA to percussive and vibrating tools should be avoided.







Spec	ifications								
Body material		Aluminum alloy							
Size	Thread and hose barb	1/4", 3/8", 1/2"							
	SN type for urethane hose	For ø6.5 mm × ø10 mm, ø8 mm × ø12 mm polyurethane hose For ø8.5 mm × ø12.5 mm, ø11 mm × ø16 mm polyurethane hose							
Pressure unit		MPa	kgf/cm ²	bar	PSI				
Working pressure		1.5	15	15	218				
Seal material Working temperature range		Seal material	Mark	Working temperature range	Remarks				
		Nitrile rubber	NBR (SG)	-20°C to +60°C	Standard materia				

Maximum Tightening To	Nm {kgf•cm}				
Size (Thread)	1/4"	3/8"	1/2"		
Torque	14 {143}	22 {224}	60 (612)		

Tightening Torque Range	Nm {kgf•cm}
SN Type for urethane hose	
9 to 11 {92 to 112}	

To mount on urethane hose, slide it over to the hose barb and tighten the nut until it is flush against the hose barb base. It is recommended that grease is applied to the inside of the nut (threaded part and hose contact part) for easy tightening.



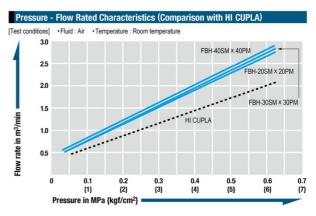
Interchangeabilit

Interchangeable with plugs of HI CUPLA models 10, 17, 20, 30 and 40. Interchangeable with each models of NUT CUPLA series and HI CUPLA series. Not interchangeable with some plugs of plastic HI CUPLA 250 (discontinued product). Please see page 19 for "HI CUPLA Series Interchangeability".

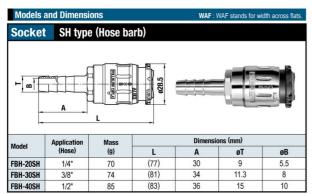
Minimum Cross-Sectional Area						(mm²)					
Socket	17PH	20PH	30PH	40PH	10PM	20PM	30PM	40PM	20PF	30PF	40PF
FBH-20SH	16	20	24	24	13	24	24	24	24	24	24
FBH-30SH	16	20	44	44	13	44	44	44	44	44	44
FBH-40SH	16	20	44	44	13	44	44	44	44	44	44
FBH-20SM	16	20	44	44	13	44	44	44	44	44	44
FBH-30SM	16	20	44	44	13	44	44	44	44	44	44
FBH-40SM	16	20	44	44	13	44	44	44	44	44	44
FBH-20SF	16	20	44	44	13	44	44	44	44	44	44
FBH-30SF	16	20	44	44	13	44	44	44	44	44	44
FBH-40SF	16	20	44	44	13	44	44	44	44	44	44
FBH-65SN	16	20	24	24	13	24	24	24	24	24	24
FBH-80SN	16	20	44	44	13	44	44	44	44	44	44
FBH-85SN	16	20	44	44	13	44	44	44	44	44	44
FBH-110SN	16	20	44	44	13	44	44	44	44	44	44

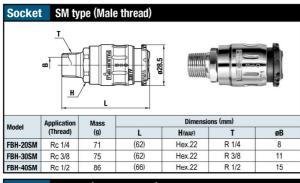
Suitability for Vacuum

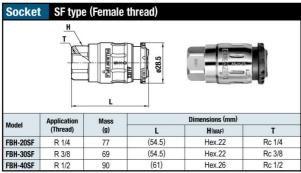
Not suitable for vacuum application in either connected or disconnected condition

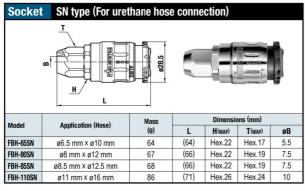


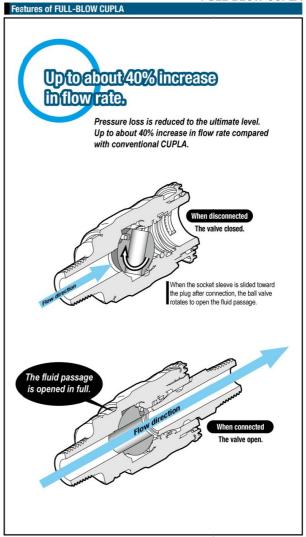
FULL-BLOW CUPLA





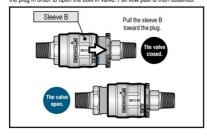






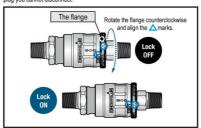


Only after connection with the plug, you can slide the socket sleeve B toward the plug in order to open the built-in valve. Full flow path is then obtained.



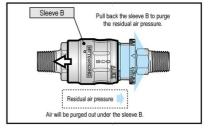
2. Lock the sleeve

Rotate the flange counterclockwise to lock the sleeve B. Without unlocking the plug you cannot disconnect.



3. Purge the residual air

To disconnect the plug, first turn the flange back to its original position for unlocking and then pull the sleeve B back to the original position. The built-in valve will be closed to purge the residual air pressure



Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.



