For Air

Full-Blow Cupla

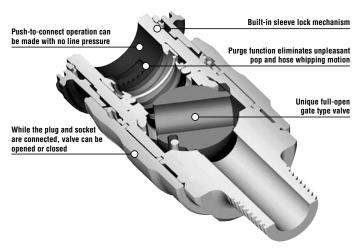
Low pressure loss & high flow rate











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 Cuplas.
- During connection and disconnection, the valve is closed, enabling connection/disconnection under zero line pressure.
- When the sleeve of socket is returned to the original position, the purge mechanism releases the residual pressure inside the plug eliminating unpleasant pop and hose whipping motion.
- Built-in sleeve lock mechanism prevents unexpected disconnection of Cuplas, assuring safe operation.
- The valve can be opened and closed while the socket and plug is connected.
- The weight is reduced by 30 to 45% compared with that of conventional Cuplas.
 Note: Direct mounting of Full-Blow Cupla to percussive and vibrating tools should be avoided.

Specifications							
Body material	Aluminum alloy						
	1/4" (20 type) • 3/8" (30 type) • 1/2" (40 type)						
Size	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						
Working pressure MPa {kgf/cm²}	1.5 {15}						
Pressure resistance MPa {kgf/cm²}	2.0 {20}						
Seal material	Seal material	Mark	Working temperature range	Remarks			
Working temperature range	Nitrile rubber	NBR (SG)	-5°C~+60°C	Standard material			

Max. Tightening Torque N·m {kgf·cm						
Size	1/4"	3/8"	1/2"	spring nut		
Torque	14 {143}	22 {224}	66 {612}	9~11 {92~112}		

Fluid must run from socket to plug.

Interchangeability

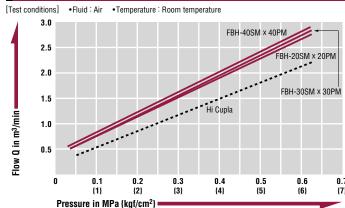
Can be connected with plugs from Hi Cupla Models 20, 30 and 40. Interchangeable with each corresponding Hi Cupla Series models.

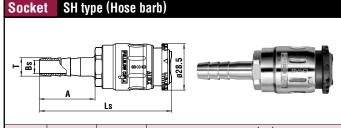
Min. Cross-Sectional Area							
Model	17PH	20PH	20PM/PF	30PH	30PM/PF	40PH	40PM/PF
FBH-20SH	16	20	23.8	23.8	23.8	23.8	23.8
FBH-30SH	16	20	44.2	44.2	44.2	44.2	44.2
FBH-40SH	16	20	44.2	44.2	44.2	44.2	44.2
FBH-20SM	16	20	44.2	44.2	44.2	44.2	44.2
FBH-30SM	16	20	44.2	44.2	44.2	44.2	44.2
FBH-40SM	16	20	44.2	44.2	44.2	44.2	44.2
FBH-20SF	16	20	44.2	44.2	44.2	44.2	44.2
FBH-30SF	16	20	44.2	44.2	44.2	44.2	44.2
FBH-40SF	16	20	44.2	44.2	44.2	44.2	44.2
FBH-65SN	16	20	23.8	23.8	23.8	23.8	23.8
FBH-80SN	16	20	44.2	44.2	44.2	44.2	44.2
FBH-85SN	16	20	44.2	44.2	44.2	44.2	44.2
FBH-110SN	16	20	44.2	44.2	44.2	44.2	44.2

Suitability for Vacuum

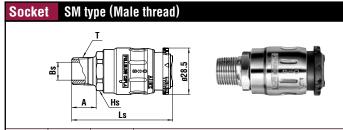
Not suitable for vacuum application in either connected or disconnected condition.

Pressure - Flow Rated Characteristics (Comparison with Hi Cupla)

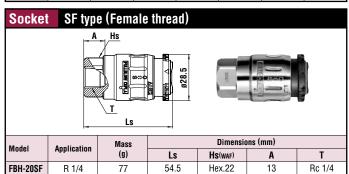


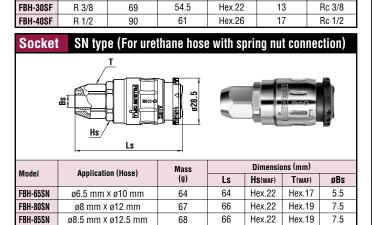


Model	Application	Mass	Dimensions (mm)				
Wouei	(Hose)	(g)	Ls	A	øT	øBs	
FBH-20SH	1/4"	70	77	30	9	5.5	
FBH-30SH	3/8"	74	81	34	11.3	8	
FBH-40SH	1/2"	85	83	36	15	10	



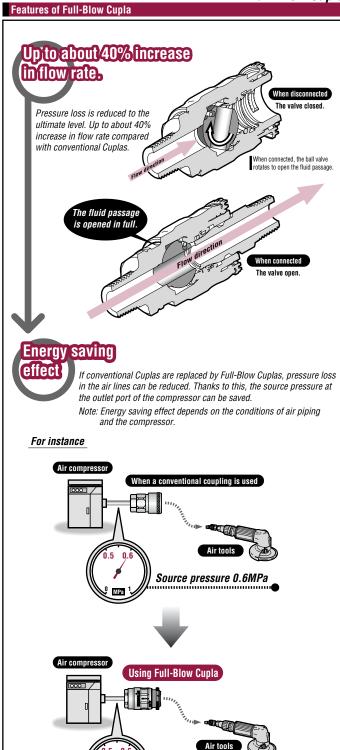
Model	Application	Mass	Dimensions (mm)					
Monei	Application	(g)	Ls	Hs(waf)	A	T	øBs	
FBH-20SM	Rc 1/4	71	62	Hex.22	15	R 1/4	8	
FBH-30SM	Rc 3/8	75	62	Hex.22	15	R 3/8	11	
FBH-40SM	Rc 1/2	86	66	Hex.22	19	R 1/2	15	





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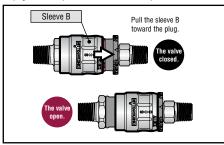
How it works 1. Open the valve

FBH-110SN

Only after connection with the plug, you can slide the socket sleeve B toward

ø11 mm × ø16 mm

the plug in order to open the built-in valve. Full flow path is then obtained.



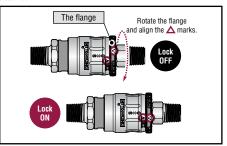
2. Lock the sleeve

Hex.24

Hex.26

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

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3. Purge the residual air

To disconnect the plug, first turn the flange back to the 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.

Source pressure 0.55MPa

