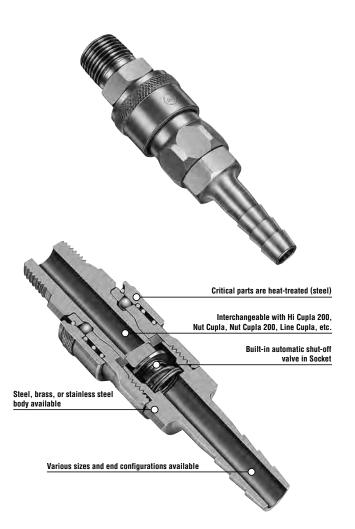
For Low Pressure Hi Cupla Universal purpose couplings for air lines

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.



Specific	cations								
Body mate	rial		Steel (Chrome pl	ated)	Br	ass	Stain	less steel (SUS304)	
Size	Thre	ad			1/8	" to 1"			
Size	Hose barb		1/4" to 1" hose						
MPa		1.5		1.0			1.5		
Working pr	essure	kgf/cm²	15		10			15	
		bar	15		10		15		
	PSI		218		14	145		218	
Coal mater	Seal material Working temperature range		Seal material		Mark	Working temperature range		Remarks	
			Nitrile rubber	N	BR (SG)	-20°C to +80°C		04	
			Fluoro rubber	FKI	И (X-100)	-20°C to +	180°C	Standard material	

Max. T	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

- O 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. • and • can not be connected across each group.
- Interchangeable with all other Hi Cupla Series products. Please see the page for "Hi Cupla

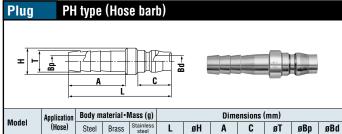
Min. Cros	Min. Cross-Sectional Area (mm²)												
1 0, 17, 20), 30, 4	0 type											
Socket Plug	17PH	20PH	30PH	40PH	10PM	20PM	30PM	40PM	20PF	30PF	40PF		
10SM	16	20	20	20	13	20	20	20	20	20	20		
17SH	16	16	16	16	13	16	16	16	16	16	16		
20SH	16	20	20	20	13	20	20	20	20	20	20		
20SM, SF	16	20	33	33	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		
400 000													

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			

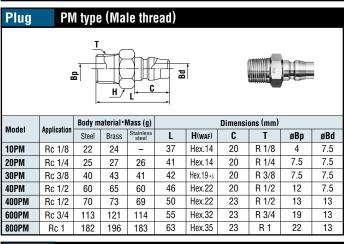
Suitability for Vacuum

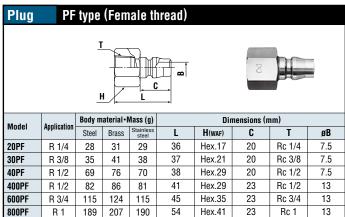
Not suitable for vacuum application in either connected or disconnected condition.

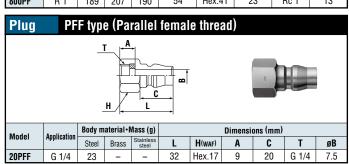
Pressure -	Flow Charac	teristics					
[Test conditions]	•Fluid : Air	•Temperature :	Room temp	erature			
4.0				800SM ×	800PH	600SM × 60	0PH
3.0						100SM × 400PI	1
2.0 					30 • 40	0SM × 30 • 40P	Н
Flow rate in m ³ /min					2081	M × 20PH	
O Flow	0.1 {1}	0.2 {2}	0.3 {3}	0.4 {4}	0.5 {5}	0.6 {6}	
P	ressure in MF	a {kgf/cm²} •					

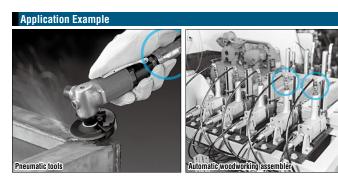


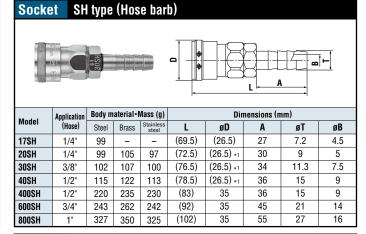
Madel	Application Body material • Mass (g)			Aass (g)	Dimensions (mm)							
Model	(Hose)	Steel	Brass	Stainless steel	L	øΗ	Α	C	øΤ	øВр	øBd	
17PH	1/4"	24	_	-	54	16	27	20	7.2	4.5	7.5	
20PH	1/4"	28	31	27	57	16	30	20	9	5	7.5	
30PH	3/8"	32	34	33	61	16	34	20	11.3	7.5	7.5	
40PH	1/2"	59	64	60	63	20	36	20	15	9	7.5	
400PH	1/2"	65	71	66	66	22	36	23	15	9	13	
600PH	3/4"	123	130	124	77	30	45	23	21	13	13	
800PH	1"	151	161	151	85	34	54	23	27	20	13	

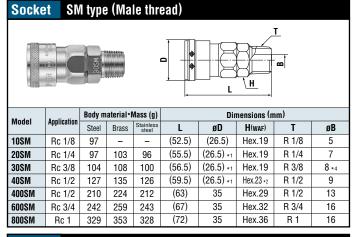


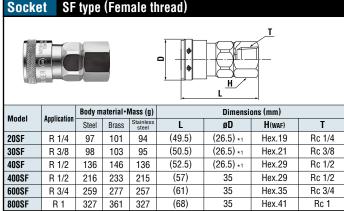












- Above pictures are plugs and sockets of steel 20, 30 and 40 models.
- *1: D = 25.4 for brass and stainless steel models
- *2 : H = Hex. 22 for brass and stainless steel models. *3 : H = Hex. 17 for brass and stainless steel models.
- *4: B = 9 for brass and stainless steel models.

For Low Pressure

Hi Cupla BL

Universal purpose couplings with sleeve lock mechanism for air lines









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.



Specif	Specifications										
Body mat	erial	Steel (Chr	ome plated)	Stainless steel (SUS304)							
	Thread and hose barb		1/4", 3	/8", 1/2"							
Size	SN Type	For ø8 x ø	or ø6.5 x ø10 mm hose For ø8 x ø12 mm hose – r ø8.5 x ø12.5 mm hose								
Pressure	unit	MPa	kgf/cm²	bar	PSI						
Working p	oressure	1.5	15	15 218							
Seal material		Seal material	Mark	Working temperature range	Remarks						
Working t	emperature 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•cr								
Size (Thread)		1/4"	3/8"	1/2"				
Токано	Steel	14 {143}	22 {224}	60 {612}				
Torque	Stainless steel	14 {143}	22 {224}	60 {612}				

Tightening Torque Range	Nm {kgf•cm}
SN Type	
ON Type	
0 to 11 (02 to 112)	

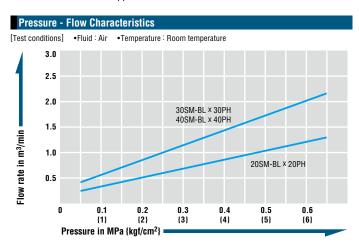
To mount on urethane hose, slide it over to the hose barb and tighten the nut until it is flush against the hose barb base. It is recommended that grease is applied to the inside of the nut (threaded part and hose contact part) for easy tightening.

Flow Direction
Fluid must run from socket to plug.

- Sockets and plugs for Models 10, 17, 20, 30, and 40 can be connected with each other regardless of end configurations
- a Interchangeable with all other Hi Cupla Series products. Please see the page for "Hi Cupla" Series Interchangeability.'

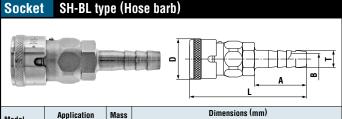
Min. Cros	Min. Cross-Sectional Area (mi												
Socket Plug	17PH	20PH	30PH	40PH	10PM	20PM	30PM	40PM	20PF	30PF	40PF		
20SH-BL	16	20	20	20	13	20	20	20	20	20	20		
20SM-BL	16	20	33	33	13	33	33	33	33	33	33		
20SF-BL	16	20	33	33	13	33	33	33	33	33	33		
30SH-BL	16	20	33	33	13	33	33	33	33	33	33		
30SM-BL	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		

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



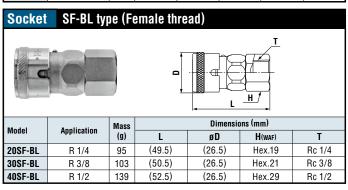
Socket

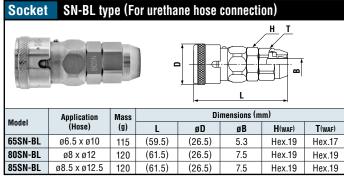
Steel



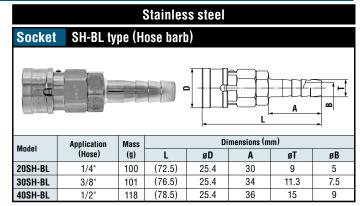
Model	Application (Hose)	Mass (g)	Dimensions (mm)				
			L	øD	A	øT	øΒ
20SH-BL	1/4"	103	(72.5)	(26.5)	30	9	5
30SH-BL	3/8"	106	(76.5)	(26.5)	34	11.3	7.5
40SH-BL	1/2"	118	(78.5)	(26.5)	36	15	9

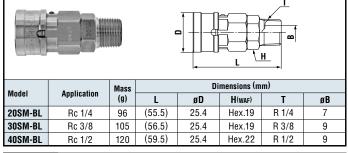
SM-BL type (Male thread) **Socket** H Dimensions (mm) Mass Model Application (g) øD H(WAF) øΒ 20SM-BL Rc 1/4 101 (55.5)(26.5)Hex.19 R 1/4 30SM-BL Rc 3/8 108 (56.5) (26.5)Hex.19 R 3/8 8 40SM-BL Rc 1/2 131 (59.5)(26.5)Hex.23 R 1/2 9





[·] Above pictures are sockets of 30 and 80 models





SM-BL type (Male thread)

