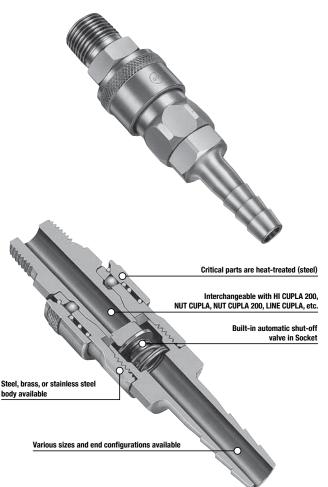
# **For Low Pressure HI CUPLA** Universal purpose couplings for air lines

## 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.



Specifications										
Body mater	rial		Steel (Chrome pla	ated)	) Brass			Stainless steel (SUS304)		
Thread		1/8" to 1"								
Size	Hose barb		1/4" to 1" hose							
MPa		1.5		1	.0	1.5				
Working pr	essure	kgf/cm <sup>2</sup>	15		1	0	15			
		bar	15		10		15			
		PSI	218		14	45		218		
Cool material			Seal material		Mark	Working temperature range		Remarks		
Seal material Working temperature range		Nitrile rubber	N	BR (SG)	-20°C to +80°C		Standard material			
		Fluoro rubber	FK	M (X-100)	-20°C to +180°C					

Maximum Tightening Torque Nm {kgf⋅cm}											
Size (Threa	ad)	1/8"	1/4"	3/8"	1/2"	3/4"	1"				
	Steel	7 {71}	14 {143}	22 {224}	60 (612)	100 {1020}	120 {1224}				
Torque	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

- Sockets and plugs of models 10, 17, 20, 30, and 40 can be connected with each other regardless of end configurations.
- 2 Sockets and plugs of 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.
- Interchangeable with each models of NUT CUPLA series and HI CUPLA series. Please see page 19 for "HI CUPLA Series Interchangeability".

Minimum	Minimum Cross-Sectional Area (mm²)												
10, 17, 20,	■ 10, 17, 20, 30, 40 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, 600, 800 type

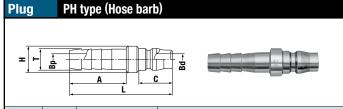
Socket Plug	400PH	600PH	800PH	400PM	600PM	800PM	400PF	600PF	800PF
400SH	64	64	64	64	64	64	64	64	64
400SM, SF	64	94	94	94	94	94	94	94	94
600SH	64	94	94	94	94	94	94	94	94
600SM, SF	64	94	94	94	94	94	94	94	94
800SH	64	94	94	94	94	94	94	94	94
800SM, SF	64	94	94	94	94	94	94	94	94

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

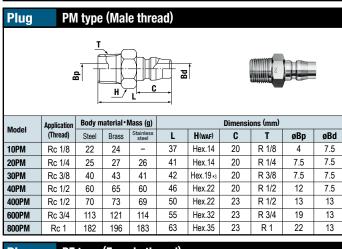
### **Pressure - Flow Characteristics** [Test conditions] 800SM x 800PH 600SM × 600PH 4.0 3.0 400SM × 400PH

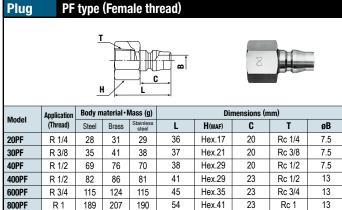
2.0

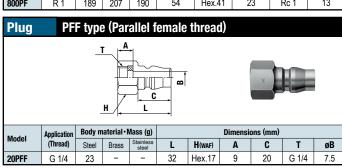
**Models and Dimensions** WAF: WAF stands for width across flat

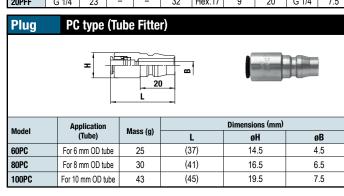


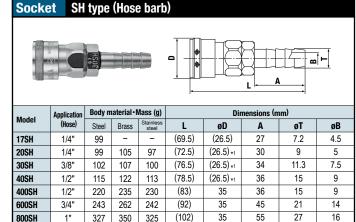
Model	Application (Hose)	Body material • Mass (g)			Dimensions (mm)								
		Steel	Brass	Stainless steel	L	øΗ	Α	C	øΤ	øBp	øBd		
17PH	1/4"	24	-	-	54	16	27	20	7.2	4.5	7.5		
20PH	1/4"	28	31	27	57	16	30	20	9	5	7.5		
30PH	3/8"	32	34	33	61	16	34	20	11.3	7.5	7.5		
40PH	1/2"	59	64	60	63	20	36	20	15	9	7.5		
400PH	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		

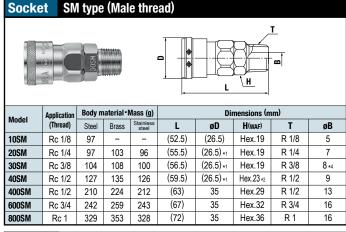


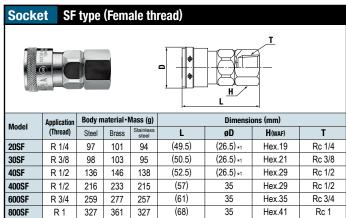












- Above pictures are plugs and sockets of steel 20, 30 and 40 models.
- = 25.4 for brass and stainless steel models. \*2 : H = Hex 22 for brass and stainless steel models
- \*3: H = Hex. 17 for brass and stainless steel models.
- \*4: B = 9 for brass and stainless steel models

