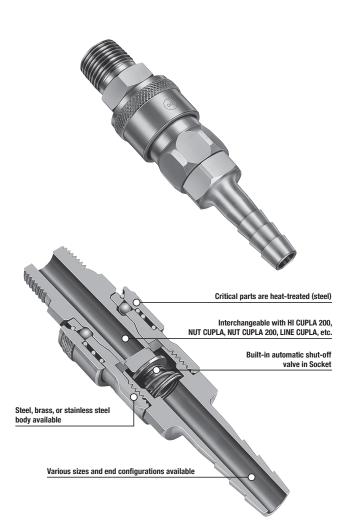


From factory air line to pneumatic tool connection, available in various body materials, sizes and end configurations. Excellent durability.

- 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			less steel (SUS304)				
Thread		ad		1/8" to 1"								
Size	Hose barb				1/4" to	1" hose						
		MPa	1.5		1	.0	1.5					
Working pr	essure	kgf/cm ²	15		10		15					
		bar	15		10		15					
		PSI	218		14	4 5		218				
Oct on the first			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	Fluoro rubber FK		-20°C to +1	-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

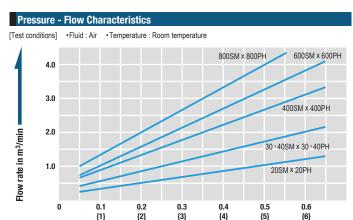
- Sockets and plugs of models 10, 17, 20, 30, and 40 can be connected with each other regardless
 of end configurations.
- Sockets and plugs of models 400, 600, and 800 can be connected with each other regardless of end configurations. • and • can not be connected across each group.
- Interchangeable with each models of NUT CUPLA series and HI CUPLA series. Please see page 19 for "HI CUPLA Series Interchangeability".

Minimum Cross-Sectional Area (mn														
10, 17, 20, 30, 40 type														
ocket Plug	17PH	20PH	30PH	40PH	10PM	20PM	30PM	40PM	20PF	30PF	40PF			
OSM	16	20	20	20	13	20	20	20	20	20	20			
7SH	16	16	16	16	13	16	16	16	16	16	16			
20SH	16	20	20	20	13	20	20	20	20	20	20			
OSM, SF	16	20	33	33	13	33	33	33	33	33	33			
BOSH	16	20	33	33	13	33	33	33	33	33	33			
OSM, SF	16	20	33	33	13	33	33	33	33	33	33			
IOSH	16	20	33	33	13	33	33	33	33	33	33			
IOSM, SF	16	20	33	33	13	33	33	33	33	33	33			

400, 600, 8	зии туре								
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

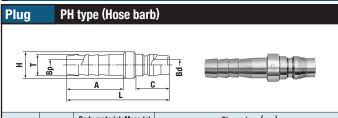
Suitability for Vacuum

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

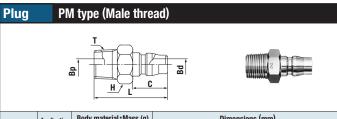


Pressure in MPa {kgf/cm²}

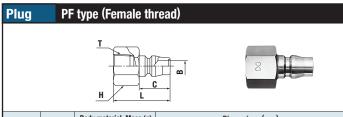
Models and Dimensions WAF: WAF stands for width across flats.



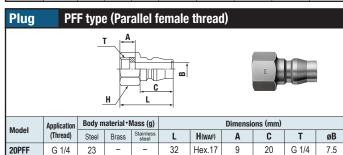
	Application	lication Body material • Mass (g)				Dimensions (mm)							
Model	(Hose)	Steel	Brass	Stainless steel	L	øΗ	Α	C	øΤ	øBp	øBd		
17PH	1/4"	24	-	-	54	16	27	20	7.2	4.5	7.5		
20PH	1/4"	28	31	27	57	16	30	20	9	5	7.5		
30PH	3/8"	32	34	33	61	16	34	20	11.3	7.5	7.5		
40PH	1/2"	59	64	60	63	20	36	20	15	9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

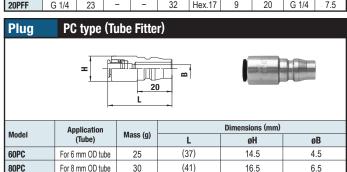


Model	Application	Body material • Mass (g)			Dimensions (mm)							
Wodel	(Thread)	Steel	Brass	Stainless steel	L	H(WAF)	C	T	øBp	øBd		
10PM	Rc 1/8	22	24	-	37	Hex.14	20	R 1/8	4	7.5		
20PM	Rc 1/4	25	27	26	41	Hex.14	20	R 1/4	7.5	7.5		
30PM	Rc 3/8	40	43	41	42	Hex.19 ∗3	20	R 3/8	7.5	7.5		
40PM	Rc 1/2	60	65	60	46	Hex.22	20	R 1/2	12	7.5		
400PM	Rc 1/2	70	73	69	50	Hex.22	23	R 1/2	13	13		
600PM	Rc 3/4	113	121	114	55	Hex.32	23	R 3/4	19	13		
800PM	Rc 1	182	196	183	63	Hex.35	23	R1	22	13		



Model	Application	ation Body material • Mass (g)			Dimensions (mm)							
iviodei	(Thread)	Steel	Brass	Stainless steel	L	H(WAF)	C	T	øB			
20PF	R 1/4	28	31	29	36	Hex.17	20	Rc 1/4	7.5			
30PF	R 3/8	35	41	38	37	Hex.21	20	Rc 3/8	7.5			
40PF	R 1/2	69	76	70	38	Hex.29	20	Rc 1/2	7.5			
400PF	R 1/2	82	86	81	41	Hex.29	23	Rc 1/2	13			
600PF	R 3/4	115	124	115	45	Hex.35	23	Rc 3/4	13			
800PF	R1	189	207	190	54	Hex.41	23	Rc 1	13			





(45)

19.5

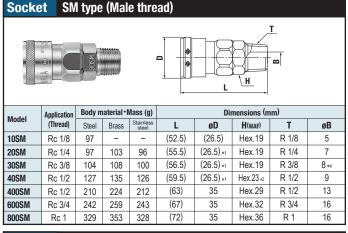
7.5

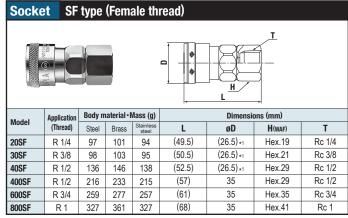
100PC

For 10 mm OD tube

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Socket SH type (Hose barb) Body material • Mass (g) Dimensions (mm) Model øD øΒ Brass 17SH 99 (69.5)(26.5)4.5 (72.5)20SH 1/4" 99 105 97 (26.5)*130 9 5 30SH (76.5) (26.5)*1 34 11.3 7.5 3/8 102 107 100 (78.5) (26.5)*1 36 40SH 1/2" 115 122 113 15 9 400SH 1/2" 220 235 230 (83) 35 36 15 9 (92)35 45 21 14 600SH 3/4' 243 262 242 1" 325 (102) 27 800SH 327 350 35 55 16





- 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.

