

Cat.No. Ck043



Cupla for Air / Water

Hi Cupla Hi Cupla BL Nut Cupla



For low pressure

Hi Cupla

Stainless steel

Universal purpose couplings for air lines





From factory air line and pneumatic tool connection to water supply line, available in various sizes and end configurations. **Excellent durability.**

- Suitable for air or water, but note that fluid will come out from the plug when disconnected.
- Steel and brass body materials are also available as standard.

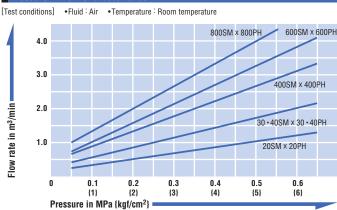


Socket	400111	4001 1011	000111	0001 111	000111	0001 111
400SH	64	64	64	64	64	64
400SM-SF	64	94	94	94	94	94
600SH	64	94	94	94	94	94
600SM·SF	64	94	94	94	94	94
800SH	64	94	94	94	94	94
800SM•SF	64	94	94	94	94	94

Suitability for Vacuum

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

Pressure – Flow Characteristics



Specifications Body material Stainless steel Size 1/4" (20 type) • 3/8" (30 type) • 1/2" (40 type, 400 type) • 3/4" (600 type) • 1" (800 type) Working pressure *1 MPa {kgf/cm2 1.5 {15} Pressure resistance *2 MPa {kgf/cm2 2.0 {20} Seal material Mark Remarks Working temperature range Seal material *3 Nitrile rubber NBR (SG) -20?C~+80?C Working temperature range Standard material Fluoro rubber FKM (X-100) -20?6~+180?6

*1 : This shows the normal allowable fluid pressure under continuous use.
 *2 : This shows the maximum pressure that will not affect the performance of the Cupla even if there is a temporary increase to reach the pressure.
 *3 : Available seal material for Hi Cupla BL is standard nitrile rubber only.

Max. Tightening Torque N • m {kgf • cm							
Size	1/4''	3/8''	1/2''	3/4''	1"		
Torque	14 {143}	22 {224}	60 {612}	100 {1020}	120 {1224}		

Flow Direction



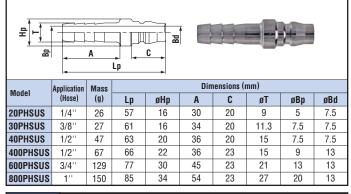
Interchangeability

- O Sockets and plugs for Models 20 (1/4"), 30 (3/8") and 40 (1/2") can be connected with each other regardless of end configurations
- Sockets and plugs for Models 400 (1/2"), 600 (3/4") and 800 (1") can be connected with each other regardless of end configurations. () and () can not be connected across each group.

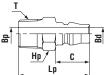
Hi Cupla (Stainless Steel Series)

Models and Dimensions

Plug PH type (Hose barb)



PM type (Male thread) Plua





Model	Application	Mass	Dimensions (mm)					
Wouer	мррисации	(g)	Lp	Hp(waf)	C	Т	øBp	øBd
20PMSUS	Rc 1/4	27	41	Hex.14	20	R 1/4	7.5	7.5
30PMSUS	Rc 3/8	40	42	Hex.17	20	R 3/8	7.5	7.5
40PMSUS	Rc 1/2	62	46	Hex.22	20	R 1/2	12	7.5
400PMSUS	Rc 1/2	70	50	Hex.22	23	R 1/2	13	13
600PMSUS	Rc 3/4	115	55	Hex.32	23	R 3/4	19	13
800PMSUS	Rc 1	180	63	Hex.35	23	R 1	22	13

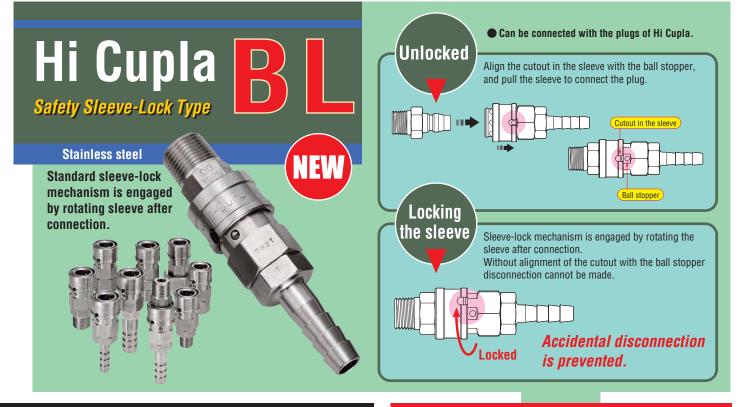
PF type (Female thread) Plug

<u> </u>		
	 C	B
łp /		



			Lp	•					
Model	Application	Mass		Dimensions (mm)					
WOUEI	мринсации	(g)	Lp	Hp(waf)	C	T	øBd		
20PFSUS	R 1/4	30	36	Hex.17	20	Rc 1/4	7.5		
30PFSUS	R 3/8	41	37	Hex.21	20	Rc 3/8	7.5		
40PFSUS	R 1/2	69	38	Hex.29	20	Rc 1/2	7.5		
400PFSUS	R 1/2	81	41	Hex.29	23	Rc 1/2	13		
600PFSUS	R 3/4	118	45	Hex.35	23	Rc 3/4	13		
800PFSUS	R 1	192	54	Hex.41	23	Rc 1	13		

3 Interchangeable with all other Hi Cupla Series products.



Below pictures are plugs and sockets of 20, 30 and 40 models.
 WAF : WAF stands for width across flat.

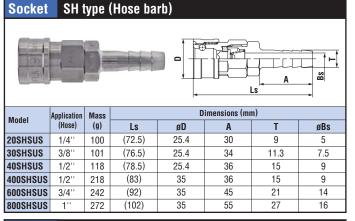
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40SM LOCK SUS

Rc 1/2

120

(Hs



Socket SM type (Male thread)

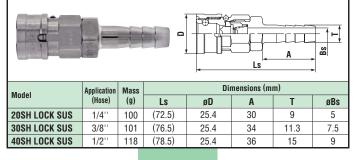
Model	Application	Mass	Dimensions (mm)						
Wouei	мррисации	(g)	Ls	øD	HS (WAF)	Т	øBs		
20SMSUS	Rc 1/4	96	(55.5)	25.4	Hex.19	R 1/4	7		
30SMSUS	Rc 3/8	105	(56.5)	25.4	Hex.19	R 3/8	8		
40SMSUS	Rc 1/2	120	(59.5)	25.4	Hex.22	R 1/2	9		
400SMSUS	Rc 1/2	207	(63)	35	Hex.29	R 1/2	13		
600SMSUS	Rc 3/4	241	(67)	35	Hex.32	R 3/4	16		
800SMSUS	Rc 1	303	(72)	35	Hex.36	R 1	16		

Socket SF type (Female thread)

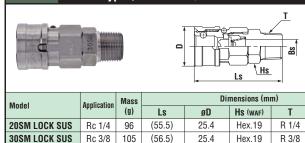
111 100 110						
Model	Application	Mass		Dimensio	ons (mm)	
WOUCI	Application	(g)	Ls	øD	HS (WAF)	T
20SFSUS	R 1/4	98	(49.5)	25.4	Hex.19	Rc 1/4
30SFSUS	R 3/8	99	(50.5)	25.4	Hex.21	Rc 3/8
40SFSUS	R 1/2	138	(52.5)	25.4	Hex.29	Rc 1/2
400SFSUS	R 1/2	216	(57)	35	Hex.29	Rc 1/2
600SFSUS	R 3/4	258	(61)	35	Hex.35	Rc 3/4
800SFSUS	R 1	317	(68)	35	Hex.41	Rc 1

Hi Cupla BL (Stainless Steel Series) • Below pictures are sockets of 30 models. Models and Dimensions WAF : WAF stands for width across flat.

Socket SH-BL type (Hose barb / with sleeve-lock mechanism)



Socket SM-BL type (Male thread / with sleeve-lock mechanism)



(59.5)

Socket SF-BL type (Female thread / with sleeve-lock mechanism)

25.4

Hex.22

R 1/2

øBs

7

8

9

Model	Application	Mass	Dimensions (mm)						
mouch	rippiroution	(g)	Ls	øD	HS (WAF)	Т			
20SF LOCK SUS	R 1/4	98	(49.5)	25.4	Hex.19	Rc 1/4			
30SF LOCK SUS	R 3/8	99	(50.5)	25.4	Hex.21	Rc 3/8			
40SF LOCK SUS	R 1/2	138	(52.5) 25.4 Hex.29 Rc 1/2						

For low pressure Nut Cupla For urethane hose connection

Stainless steel





No hose clamp required ! Simple and secure connection to urethane hose.

- To mount on hose, simply slide it over the hose barb and tighten the nut.
- The design to tighten outside of hose reduces hose slip away or fluid leaks.
- Steel body is also available as standard.



Specifications Body material Stainless steel Size For hose of ø6.5 x ø10, ø8 x ø12, ø8.5 x ø12.5 mm Working pressure *1 MPa {kgf/cm² 1.5 {15} Pressure resistance *2 MPa {kgf/cm² 2.0 {20} Mark Working temperature range Seal material Remarks Seal material Working temperature range -20?C~+60?C Standard material NBR (SG) Nitrile rubber

*1 : This shows the normal allowable fluid pressure under continuous use.
*2 : This shows the maximum pressure that will not affect the performance of the Cupla even if there is a temporary increase to reach the pressure.

Tightening Torque Range N•m {kgf•cm									
Model	65SN / 65PN	80SN / 80PN	85SN / 85PN						
Torque	9~11 {92~112}								

Flow Direction

Fluid must run from socket

to plug when coupled

Interchangeability

Interchangeable with Hi Cupla Models 20, 30, and 40.

Interchangeable with each corresponding Hi Cupla Series models.

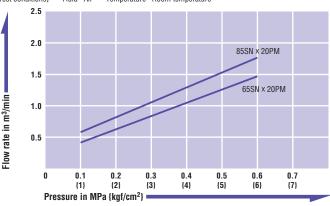
Min. Cross-Sectional Area (mm ²)									
Plug	20PH	30PH	40PH	20PM	30PM	40PM	20PF	30PF	40PF
65SN	20	22	22	22	22	22	22	22	22
80SN	20	33	33	33	33	33	33	33	33
85SN	20	33	33	33	33	33	33	33	33

Suitability for Vacuum

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

Pressure – Flow Characteristics

[Test conditions] •Fluid : Air •Temperature : Room temperature



mouels allu	Dimensions							
Plug	PN type (Fo	r ure	thane	hose	conne	ction)		
B 	T H	C				->-		
Model	Application	Mass			Dimensi	ons (mm)		
WOUGI	(Hose)	(g)	Lp	C	øBp	øBd	H (WAF)	T (WAF)
65PN NUT SUS	ø6.5mm × ø10mm	43	(43)	20	5.3	7.5	Hex.17	Hex.17
80PN NUT SUS	ø8mm x ø12mm	52	(45)	20	7.5	7.5	Hex.19	Hex.19
85PN NUT SUS	ø8.5mm x ø12.5mm	53	(45)	20	7.5	7.5	Hex.19	Hex.19
 Grease is applied 	to the threaded par	t of the r	nut to prev	ent galling				

★ Specifications and designs are subject to change at any time without notice.



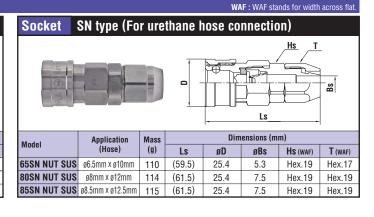
Models and Dim

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