# For Low Pressure (Air)

# **HI CUPLA for Connection to Braided Hoses NUT CUPLA NUT CUPLA 200 ROTARY NUT CUPLA**

For connection to urethane hose, braided hose











# No hose clamp required! Fitted with hose guard nut to prevent possible kinking. **HI CUPLA for connection to** braided hoses is now available.

- Nut types are available in HI CUPLA Series and HI CUPLA 200 Series. Hose guard nut type available to prevent hose kinking.
- To mount on hose, simply slide it over the nipple and tighten the nut.
- The design to tighten outside of hose reduces hose slip away or
- Also available are ROTARY NUT CUPLA equipped with ball bearing swivel mechanism to prevent and relieve tension on operator's hands.



Specifications (NUT CUPLA / NUT CUPLA 200 / ROTARY NUT CUPLA)									
Body material	Steel (0	Steel (Chrome plated), Stainless Steel (SUS304)							
Urethane hose size	For ø	6.5 mm×ø10 mm	ø6 mm×ø9 mm h , ø8 mm×ø12 mm , ø11 mm×ø16 m	hose					
Pressure unit	MPa kgf/cm² bar PSI								
Working pressure	1.5 15 15 218								
Seal material	Seal material	Mark	Working temperature range	Remarks					
Working temperature range 1	Nitrile rubber	NBR	-20°C to +60°C	Standard material					

<sup>\*1:</sup> The operable temperature range depends on the operating conditions

Specifications (HI CUPLA for Connection to Braided Hoses)								
Body material		Steel (Chro	me plated)	Brass				
Braided hose size			For ø9 mm×ø	ø15 mm hose				
	MPa	1	.5	1.0				
Working pressure	kgf/cm <sup>2</sup>	1	15		10			
morning process	bar	15		10				
	PSI	218 145						
Seal material Working temperature range 11		Seal material	Mark	Working temperature range	Remarks			
		Nitrile rubber	NBR	-20°C to +80°C	Standard material			

- Maximum working pressure and temperature range of PN/SN type for braided hoses depends upon the
- specification of the braided hose to be used.
  \*1: The operable temperature range depends on the operating conditions.

<b>Tightening Torque Rang</b>	je		Nm {kgf•cm}
Model	SN, PN, SNR Type	65SNG, PNG, SNRG Type	85SNG, PNG, SNRG Type
Torque	9 to 11 {92 to 112}	5 to 6 {51 to 61}	7 to 8 {71 to 82}

To mount on braided hose or 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.	4
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#### Interchangeability

Interchangeable with HI CUPLA models 10, 17, 20, 30 and 40.

Interchangeable with each models of NUT CUPLA series and HI CUPLA series (except models 400, 600, and 800) Please see page 21 for "HI CUPLA Series Interchangeability".

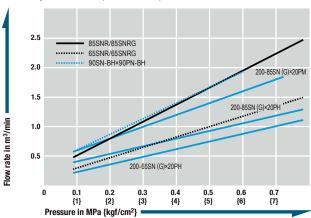
Minimur	n Cros	s-Sec	tional	Area							(1	nm²)
Socket Plug	17PH	20PH	30PH	40PH	10PM	20PM	30PM	40PM	20PF	30PF	40PF	90PN-BH
200-50SN	16	16	16	16	13	16	16	16	16	16	16	16
200-60SN	16	20	22	22	13	22	22	22	22	22	22	22
200-65SN	16	20	22	22	13	22	22	22	22	22	22	22
200-80SN	16	20	41	41	13	41	41	41	41	41	41	41
200-85SN	16	20	41	41	13	41	41	41	41	41	41	41
200-110SN	16	20	41	41	13	41	41	41	41	41	41	41
200-50SNG	16	16	16	16	13	16	16	16	16	16	16	16
200-65SNG	16	20	22	22	13	22	22	22	22	22	22	22
200-85SNG	16	20	40	41	13	41	41	41	41	41	41	41
90SN-BH	16	20	33	33	13	33	33	33	33	33	33	33

### **Suitability for Vacuum**

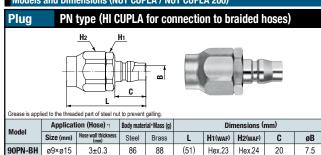
Not suitable for vacuum application in either connected or disconnected condition.

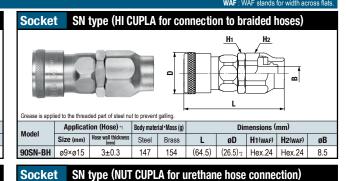
## **Pressure - Flow Characteristics**

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



#### Models and Dimensions (NUT CUPLA / NUT CUPLA 200)





H

4.5

5.3

5.3

7.5

H(WAF) T(WAF)

Hex.19 Hex.17

Hex.19 Hex.17

Hex.19 Hex.17

Hex.19 Hex.19

øD

(26.5)

(26.5)

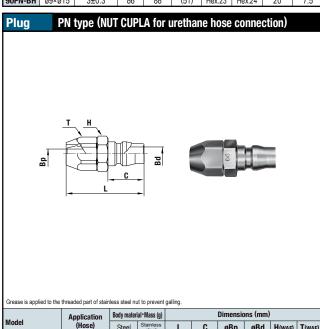
(26.5) +3

(61.5) (26.5) 13

(60)

(59.5)

(59.5)



C

20 5.3

20 7.5

(43)20 4.5

(43)

(43)20 5.3

(45)20 7.5

(45)

øBp

7.5

7.5

7.5

øBd H(WAF) T(WAF)

7.5 | Hex.17 | Hex.17

7.5 | Hex.19 | Hex.19

Hex.17 Hex.17

Hex.17 Hex.17

Model

50PN

60PN

65PN

80PN

ø5×ø8

ø6×ø9

ø6.5×ø10

ø8×ø12

30

40

42

50

43

52

85SN	ø8.5×ø12.5	120	115	(61.5)	(26.5) +3	7.5	Hex.19	Hex.19
110SN	ø11×ø16	153	-	(64.5)	(26.5)	10	Hex.23	Hex.24
Socket S	N type (NU	T CUPL	A 200 fo	or uret	hane h	ose c	connect	ion)
D EN	9 CN-ID		T			<u> </u>	Ţ	
			٥					
	Application	Mass			Dimensio	ins (mm		
Model		Mass (g)		øD		ns (mm		T(WAF)
	Application		L (64.5)	ø <b>D</b> (26.5	Ø			'
Model	Application (Hose)	(g)	L		) 4	В	H(waf)	T(WAF)
Model 200-50SN	Application (Hose) ø5×ø8	(g) 105	L (64.5)	(26.5	(d) 4 (e) 5	<b>B</b>	H(war) Hex.19	T(war) Hex.17

(66.5)

(66.5)

(26.5)

(26.5)

7.5

7.5

Hex.19

Hex.19

Hex.23

Hex.19

Hex.19

Hex.24

110

114

Body material • Mass (g)

Steel

117

115

115

120

112

113

Application

(Hose)

ø5×ø8

ø6×ø9

ø6.5×ø10

ø8×ø12

ø8×ø12

ø8.5×ø12.5

Model

50SN

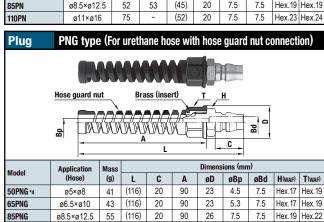
60SN

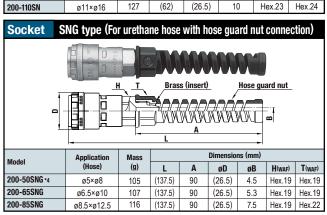
65SN

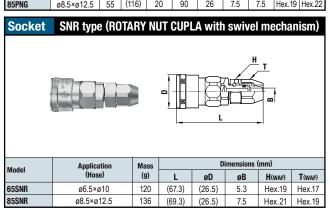
80SN

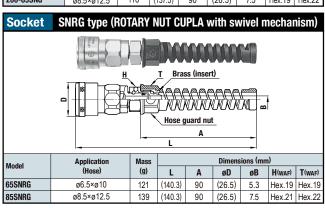
200-80SN

200-85SN









The pictures of HI CUPLA for connection to braided hoses and PN type and SN type of NUT CUPLA show steel bodies \*1 Braided hoses for HI CUPLA for Connection to Braided Hoses should be made of soft PVC and woven by reinforcement thread. \*2: Brass: øD=25.4 \*3: Stainless steel: øD=25.4 \*4: Made-to-order item