For Low Pressure (Air)

Hi Cupla 200

Push-to-connect type for air lines



Simple and secure push-to-connect type! Big flow rate! **End-face seal design.** Gives excellent handling touch.

- Just push the plug into the socket for simple and secure connection. This reduces connection time and improves efficiency.
- New valve design for low pressure loss to achieve flow rate increase (15% up over the conventional model).
- End-face seal is achieved when connected.
- Enhanced operability with low connection resistance.
- End-face seal design is superior to external seal with an O-ring due to no seal damage caused by exhausted lubrication.
- Available only with steel body. Not suitable for water or oil.
- Also available with quick connect/disconnect Tube Fitter type.



Specifications								
Body material			Steel (Chrome-plated)					
	Thread and h	ose barb		1/4", 3,	/8", 1/2"			
Size	Tube ba (Tube fit		Polyurethane tube: Outside Dia. $\emptyset 6 \pm 0.1$, $\emptyset 8 \pm 0.15$, $\emptyset 10 \pm 0.15$ Polyamide tube: Outside Dia. $\emptyset 6^{+0.05}_{-0.08}$, $\emptyset 8^{+0.05}_{-0.1}$, $\emptyset 10^{+0.05}_{-0.1}$ Fluorine contained resin tube: Outside Dia. $\emptyset 6 \pm 0.07$, $\vartheta 8 \pm 0.07$, $\vartheta 10 \pm 0.07$					
		MPa	1.5					
Working	nressure	kgf/cm²	15					
working	prossure	bar	15					
		PSI	218					
Seal mat	erial		Seal material	Mark	Working temperature range	Remarks		
Working temperature range		Nitrile rubber	NBR (SG)	-20°C to +60°C	Standard material			

 Above are specifications only for Cuplas. Working pressures, maximum pressures and working temperature ranges may vary depending on materials of the tube and its working temperature range

Max. Tightening Torque Nm {kgf•								
Size (Thread)	1/4"	3/8"	1/2"					
Torque	14 {143}	22 {224}	60 {612}					

Flow Direction

Fluid must run from socket to plug.



Interchangeability

Interchangeable with Hi Cupla Models 20, 30 and 40. Interchangeable with each corresponding Hi Cupla Series models.

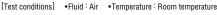
Min. Cros	Min. Cross-Sectional Area (mm²)											
Socket	17PH	20PH	30PH	40PH	10PM	20PM	30PM	40PM	20PF	30PF	40PF	
200-17SH	16	16	16	16	13	16	16	16	16	16	16	
200-20SH	16	20	20	20	13	20	20	20	20	20	20	
200-30SH	16	20	41	41	13	41	41	41	41	41	41	
200-40SH	16	20	41	41	13	41	41	41	41	41	41	
200-20SM	16	20	41	41	13	41	41	41	41	41	41	
200-30SM	16	20	41	41	13	41	41	41	41	41	41	
200-40SM	16	20	41	41	13	41	41	41	41	41	41	
200-20SF	16	20	41	41	13	41	41	41	41	41	41	
200-30SF	16	20	41	41	13	41	41	41	41	41	41	
200-40SF	16	20	41	41	13	41	41	41	41	41	41	

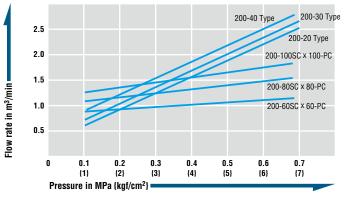
Suitability for Vacuum

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









Models and Dimensions

SH type (Hose barb)

Socket

Dimensions (mm) Application (Hose) Model Mass (g) Т A øΤ øΒ 200-17SH (77) 1/4" 86 27 7.2 4.5 200-20SH 1/4" 90 (77) 27.5 9 5 200-30SH 3/8" 92 (79) 32 11.3 7.5 32 200-40SH 1/2" 104 (79.5) 15 10

WAF : WAF stands for width across flats.

Socket SM type (Male thread)

Model	Application	Mass (g)	Dimensions (mm)					
Wouer	Аррисации	wass (y)	L	H(WAF)	T	øB		
200-20SM	Rc 1/4	89	(60)	Hex.19	R 1/4	7.5		
200-30SM	Rc 3/8	91	(60.5)	Hex.19	R 3/8	10		
200-40SM	Rc 1/2	102	(56)	Hex.24	R 1/2	13		

Socket SF type (Female thread)

	- SDSF#						
Models	Application	Mass (g)		Dimensions (mm)			
Wouers	Application	wass (y)	L	H(WAF)	Т		
200-20SF	R 1/4	94	(57.5)	Hex.19	Rc 1/4		
200-30SF	R 3/8	103	(55.5)	Rc 3/8			
200-40SF	R 1/2	138	(57.5)	Hex.29	Rc 1/2		

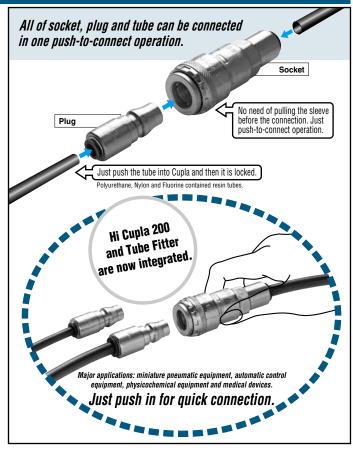
Models and Dimensions (With Tube Fitter) Socket SC type (Tube Fitter)

		/ \	Dimensi	Dimensions (mm)					
Model									
Model	Application	Mass (g)	L	øB					
Model 200-60SC	Application For 6 mm OD tube	Mass (g) 100	L (64)	øB 5					
			L (64) (67.5)						
200-60SC	For 6 mm OD tube	100	. ,	5					

Plug PC type (Tube Fitter) h -20 Dimensions (mm) Model Application Mass (g) øΒ L øΗ 60PC For 6 mm OD tube 25 (37) 14.5 4.5 80PC For 8 mm OD tube 30 (41) 16.5 6.5 (45) 19.5 100PC For 10 mm OD tube 43 7.5

Application example





Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.

For Low Pressure (Air)

Hi Cupla for Connection to Braided Hoses Nut Cupla Nut Cupla 200 Rotary Nut Cupla For connection to urethane 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 fluid leaks.
- Also available are Rotary Nut Cupla equipped with ball bearing swivel mechanism to prevent and relieve tension on operator's hands.



Specifications (Nut Cup	ola / Nut Cupla	a 200 / Rotary	Nut Cupla)						
Body material		Steel (Chrome-plated)								
		For ø5 mm × ø8 mm, ø6 mm × ø9 mm hose								
Urethane hose size		For ø6.5 mm × ø10 mm, ø8 mm × ø12 mm hose								
		For ø8.5 mm × ø12.5 mm, ø11 mm × ø16 mm hose								
	MPa		1	.5						
Working pressure			1	5						
working pressure	bar		15							
	PSI	218								
Seal material		Seal material	Mark	Working temperature range	Remarks					
Working temperature	range	Nitrile rubber	NBR (SG)	-20°C to +60°C	Standard materia					
Specifications (Hi Cupl	a for Connect	ion to Braideo	l Hoses)						
Body material		Steel (Chro	me-plated)	Brass						
Braided hose size		For ø9 mm × ø15 mm hose								
	MPa	1.	5	1.0						
Working pressure	kgf/cm ²	1	5	10						
working pressure	bar	1	5	10						
	PSI	21	18	145						
Seal material		Seal material	Mark	Working temperature range	Remarks					
Working temperature	range	Nitrile rubber	NBR (SG)	-20°C to +80°C Standard materi						
Working pressure and tempera	ature range o	f PN/SN type for braide	d hoses depends upon t	the specification of the t	praided hose to be used					

Tightening Torque Range 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.									

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.



Interchangeability

Interchangeable with Hi Cupla Models 10, 17, 20, 30 and 40. Interchangeable with each corresponding Hi Cupla Series models.

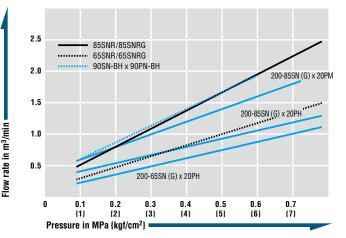
Min. Cross-Sectional Area (mm²)												nm²)
Plug Socket	17PH	20PH	30PH	40PH	10PM	20PM	30PM	40PM	20PF	30PF	40PF	90PN-BH
200-50SN	16	16	16	16	13	16	16	16	16	16	16	16
200-60SN	16	20	22	22	13	22	22	22	22	22	22	22
200-65SN	16	20	22	22	13	22	22	22	22	22	22	22
200-80SN	16	20	41	41	13	41	41	41	41	41	41	41
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

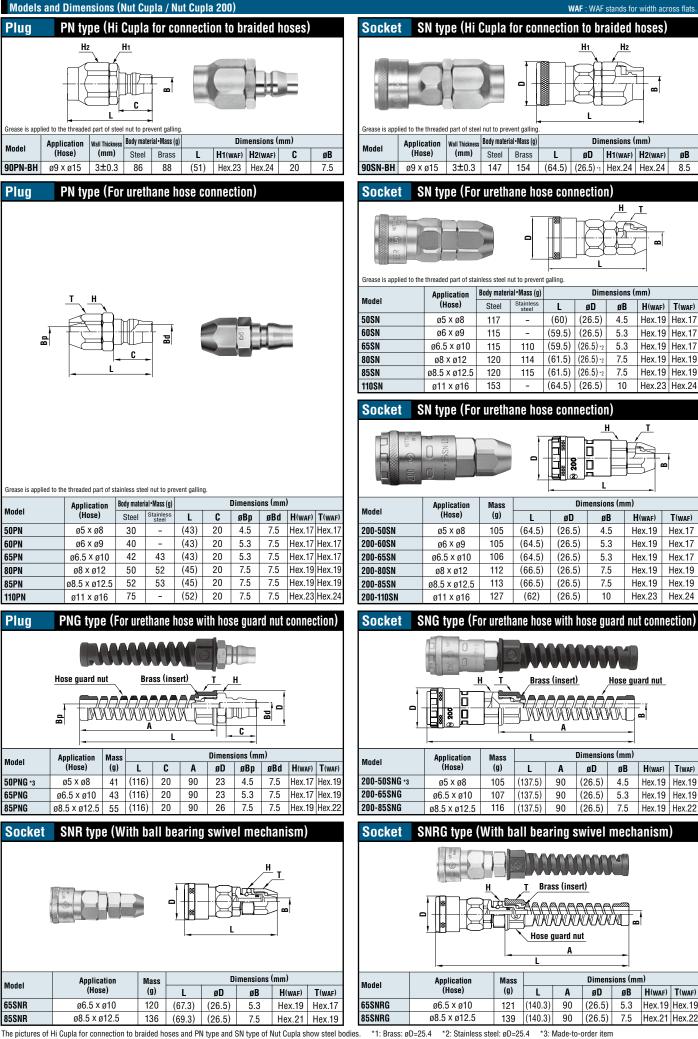
Not suitable for vacuum application in either connected or disconnected condition.

Pressure - Flow Characteristics

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



Hi Cupla for Connection to Braided Hoses / Nut Cupla / Nut Cupla 200 / Rotary Nut Cupla Nut Cupla 200) WAF stands for width across flats



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