Lock Cupla 200

Air line coupling with sleeve safety lock feature

Working pressure	Valve structure	Applicable fluid
1.5		
1.5 MPa {15 kgf/cm²}	One-way shut-off	Air

Push-to-connect operation. Added easy lock design for safety!

- Locking mechanism prevents accidental disconnection after connection. Good for connections between hoses.
- Simple one push of plug and socket to each other for connection. Easy handling improves job efficiency.
- Ball bearing swivel mechanism prevents hose twists and relieves load on holding hands (SNRG type).
- To mount on hose, simply slide it over the nipple and tighten the nut (SNRG type).
- Hose guard nut to prevent hose from kinking as a standard feature (SNRG type).
- Low pressure loss valve design gives improved flow rate.

Application Example

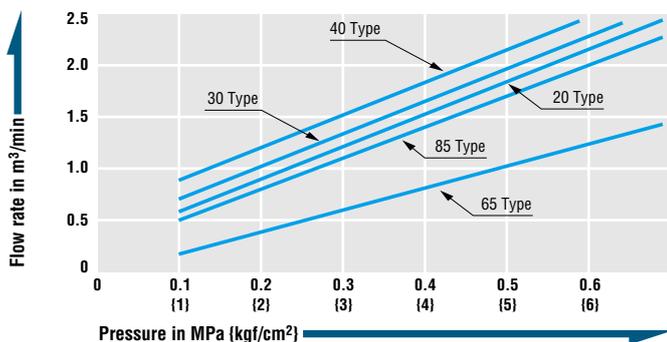| Applicable fluid	Application
Air	Pneumatic tools, Pneumatic devices, Various air piping

Suitability for Vacuum

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

Min. Cross-sectional Area (mm²)

Plug / Lock Cupla 200	17PH	20PH	30PH	40PH	10PM	20PM	30PM	40PM	20PF	30PF	40PF
L200-20SH	16	20	20	20	13	20	20	20	20	20	20
L200-30SH	16	20	41	41	13	41	41	41	41	41	41
L200-40SH	16	20	41	41	13	41	41	41	41	41	41
L200-20SM	16	20	41	41	13	41	41	41	41	41	41
L200-30SM	16	20	41	41	13	41	41	41	41	41	41
L200-40SM	16	20	41	41	13	41	41	41	41	41	41
L200-20SF	16	20	41	41	13	41	41	41	41	41	41
L200-30SF	16	20	41	41	13	41	41	41	41	41	41
L200-40SF	16	20	41	41	13	41	41	41	41	41	41
L200-65SNRG	16	20	20	20	13	20	20	20	20	20	20
L200-85SNRG	16	38	38	38	13	38	38	38	38	38	38

Pressure - Flow Characteristics

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

Flow rate in m³/min vs Pressure in MPa {kgf/cm²}

Specifications

Body material		Steel (Chrome plated)		
Size	Thread and hose barb	1/4", 3/8", 1/2"		
	SNRG type	For ø6.5 mm x ø10mm, ø8.5 mm x ø12.5 mm hose		
Pressure unit		MPa	kgf/cm²	bar	PSI
Working pressure		1.5	15	15	218

Seal material / Working temperature range	Seal material	Mark	Working temperature range	Remarks
	Nitrile rubber	NBR (SG)	−20°C to +60°C	Standard material

Max. Tightening Torque, Tightening Torque Range   Nm {kgf·cm}

Type of connection	Thread			Hose guard nut	
Applicable size	1/4"	3/8"	1/2"	ø6.5 mm x ø10mm	ø8.5 mm x ø12.5mm
Torque	14 {143}	22 {224}	60 {612}	5 to 6 {51 to 61}	7 to 8 {71 to 82}

To mount on urethane hose, slide it over 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

Can be connected with plugs for Hi Cupla Models 10, 17, 20, 30 and 40.
Interchangeable with each corresponding Hi Cupla Series models.

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

Socket   SH type (Hose barb)

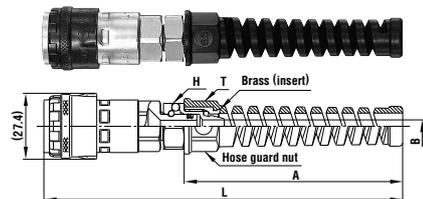| Model	Application (Hose)	Mass (g)	Dimensions (mm)			
			L	A	øT	øB
L200-20SH	1/4"	90	(77)	27.5	9	5
L200-30SH	3/8"	92	(79)	32	11.3	7.5
L200-40SH	1/2"	104	(79.5)	32	15	10

Socket   SM type (Male thread)

Model	Application	Mass (g)	Dimensions (mm)			
			L	H(WAF)	T	øB
L200-20SM	Rc 1/4	89	(60)	Hex.19	R 1/4	7.5
L200-30SM	Rc 3/8	91	(60.5)	Hex.19	R 3/8	10
L200-40SM	Rc 1/2	102	(56)	Hex.24	R 1/2	13

Socket   SF type (Female thread)

Model	Application	Mass (g)	Dimensions (mm)		
			L	H(WAF)	T
L200-20SF	R 1/4	94	(57.5)	Hex.19	Rc 1/4
L200-30SF	R 3/8	103	(55.5)	Hex.22	Rc 3/8
L200-40SF	R 1/2	138	(57.5)	Hex.29	Rc 1/2

Socket   SNRG type (For hose with hose guard nut connection)

Brass (insert) · Hose guard nut

Model	Application (Hose)	Mass (g)	Dimensions (mm)				
			L	A	H(WAF)	T(WAF)	øB
L200-65SNRG	ø6.5 mm x ø10 mm	125	(147.8)	(90)	Hex.19	Hex.19	5.3
L200-85SNRG	ø8.5 mm x ø12.5 mm	132	(146.8)	(90)	Hex.21	Hex.22	7.5

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