

For Low Pressure (Air)

# LOCK CUPLA 200

Air line coupling with separation prevention mechanism

Working pressure: **1.5** MPa (15 kgf/cm<sup>2</sup>)

Valve structure: One-way shut-off

Applicable fluid: Air

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

- Separation prevention 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.



### Suitability for Vacuum

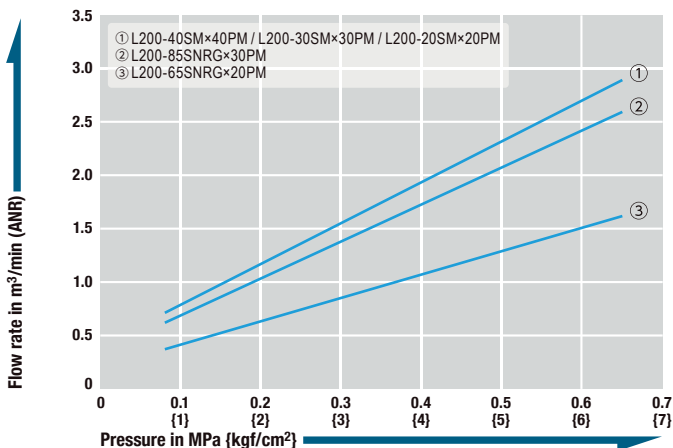
Not suitable for vacuum application in either connected or disconnected condition.

### Minimum Cross-sectional Area (mm<sup>2</sup>)

Plug	17PH	20PH	30PH	40PH	10PM	20PM	30PM	40PM	20PF	30PF	40PF
LOCK CUPLA 200											
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



Specifications				
Body material	Steel (Chrome plated)			
Size	Thread and hose barb	1/4", 3/8", 1/2"		
	SNRG type	For ø6.5 mm×ø10 mm, ø8.5 mm×ø12.5 mm hose		
Pressure unit	MPa	kgf/cm <sup>2</sup>	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

\*1: The operable temperature range depends on the operating conditions.

Maximum 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×ø10 mm	ø8.5 mm×ø12.5 mm
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 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 plugs of HI CUPLA models 10, 17, 20, 30 and 40. Interchangeable with each models of NUT CUPLA series and HI CUPLA series. Please see page 21 for "HI CUPLA Series Interchangeability".

### 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 (Thread)	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 (Thread)	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)

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