




For Air

# Lock Cupla 200

Air line coupling with sleeve safety lock feature

Working pressure  1.0 MPa (10 kgf/cm<sup>2</sup>)

Valve structure  One-way shut-off

Applicable fluid  Air

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



- Locking design prevents unexpected detachment 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

### Specifications

Body material	Steel (Chrome-plated)			
Size	1/4" (20 type) • 3/8" (30 type) • 1/2" (40 type) For $\phi 6.5$ mm x $\phi 10$ mm • $\phi 8.5$ mm x $\phi 12.5$ mm polyurethane hose			
Working pressure MPa (kgf/cm <sup>2</sup> )	1.0 (10)			
Pressure resistance MPa (kgf/cm <sup>2</sup> )	1.5 (15)			
Seal material	Seal material	Mark	Working temperature range	Remarks
Working temperature range	Nitrile rubber	NBR (SG)	-5°C~+60°C	Standard material

### Max. Tightening Torque, Tightening Torque Range N·m (kgf·cm)

Type of connection	Thread			Hose guard nut	
Applicable size	1/4"	3/8"	1/2"	$\phi 6.5$ mm x $\phi 10$ mm	$\phi 8.5$ mm x $\phi 12.5$ mm
Torque	14 {143}	22 {224}	60 {612}	5~6 {51~61}	7~8 {71~82}

### Flow Direction

Fluid must run from socket to plug.



### Interchangeability

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

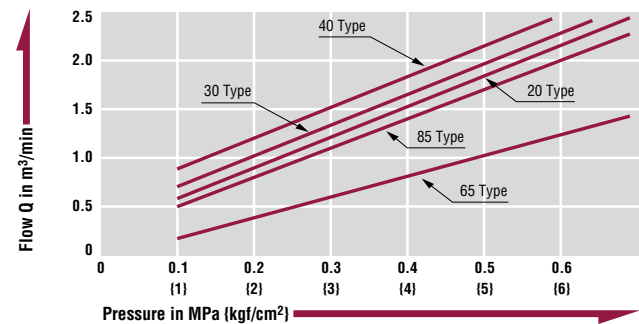
### Suitability for Vacuum

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

Min. Cross-sectional Area (mm <sup>2</sup> )	Plug									
	20PH	30PH	40PH	20PM	30PM	40PM	20PF	30PF	40PF	
Lock Cupla 200										
L200-20SH	20	20	20	20	20	20	20	20	20	20
L200-30SH	20	41	41	41	41	41	41	41	41	41
L200-40SH	20	41	41	41	41	41	41	41	41	41
L200-20SM	20	41	41	41	41	41	41	41	41	41
L200-30SM	20	41	41	41	41	41	41	41	41	41
L200-40SM	20	41	41	41	41	41	41	41	41	41
L200-20SF	20	41	41	41	41	41	41	41	41	41
L200-30SF	20	41	41	41	41	41	41	41	41	41
L200-40SF	20	41	41	41	41	41	41	41	41	41
L200-65SNRG	20	20	20	20	20	20	20	20	20	20
L200-85SNRG	38	38	38	38	38	38	38	38	38	38

### Pressure - Flow Characteristics

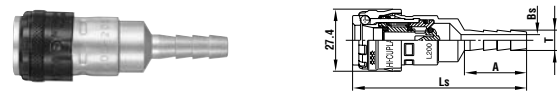
[Test conditions] • Fluid : Air • Temperature : Room temperature



### Models and Dimensions

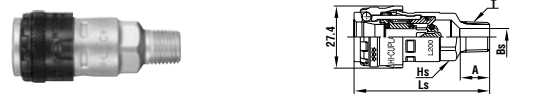
WAF : WAF stands for width across flats.

#### Socket SH type (Hose barb)



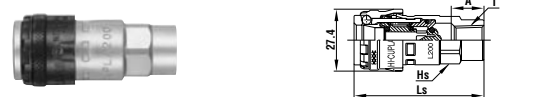
Model	Application (Hose)	Mass (g)	Dimensions (mm)			
			Ls	A	T	øBs
L200-20SH	1/4"	90	77	27.5	9	5
L200-30SH	3/8"	92	79	32	11.3	7.5
L200-40SH	1/2"	104	79.5	32	15	10

#### Socket SM type (Male thread)



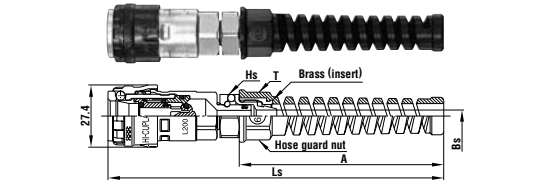
Model	Application	Mass (g)	Dimensions (mm)			
			Ls	Hs(WAF)	A	T
L200-20SM	Rc 1/4	89	60	Hex.19	13	R 1/4
L200-30SM	Rc 3/8	91	60.5	Hex.19	13.5	R 3/8
L200-40SM	Rc 1/2	102	56	Hex.24	16	R 1/2

#### Socket SF type (Female thread)



Model	Application	Mass (g)	Dimensions (mm)			
			Ls	Hs(WAF)	A	T
L200-20SF	R 1/4	94	57.5	Hex.19	14.5	Rc 1/4
L200-30SF	R 3/8	103	55.5	Hex.22	13	Rc 3/8
L200-40SF	R 1/2	138	57.5	Hex.29	16	Rc 1/2

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



Model	Application (Hose)	Mass (g)	Dimensions (mm)			
			Ls	A	Hs(WAF)	T(WAF)
L200-65SNRG	$\phi 6.5$ mm x $\phi 10$ mm	125	147.8	90	Hex.19	Hex.19
L200-85SNRG	$\phi 8.5$ mm x $\phi 12.5$ mm	132	146.8	90	Hex.21	Hex.22

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