

LIGHT COUPLER

Application

- Used for piping of compressed air connections.
- Used for air tool equipped with drive and impact.

Feature

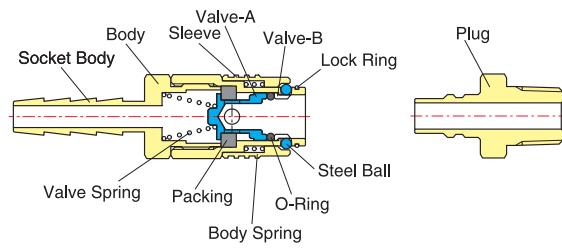
- Compact and lightweight coupler for air piping.
- Easy to assemble on the connection of plug.
- Uni-directional shut-off coupler with an automatic shut-off valve built in the socket.

Specification

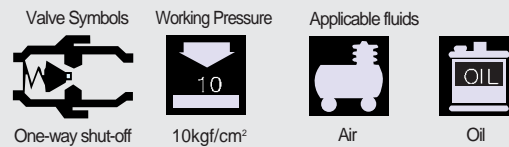
Fluid	Air, Oil
Material	Steel
Working Pressure Range	10kgf/cm ² (1500kPa)
Maximum Pressure	15kgf/cm ² (2000kPa)



Structural Diagram



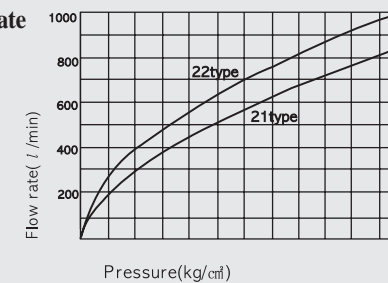
Light Coupler



Minimum Sectional Area (mm²)

Model	21 Type	22 Type
Minimum Sectional Area	19	19

Flow Rate



Measuring Condition

Fluid type : Air
Temperature : Room temperature

How to check the table

This table indicates flow rate at each amount of pressure when flowing air.

Product Code System

LC H 21

① ② ③

① Model

LC	Plug
LH	Socket

② Type

H	Hose Stem
M	Male Thread
F	Female Thread
N	Hose Nut Type

③ Thread Size(T)

Size	21	22	23
H	1/8"	1/4"	3/8"
M	R1/8	R 1/4	R3/8
F	Rc1/8	Rc 1/4	Rc3/8
N	8 × 5	9 × 6	10 × 6.5

Common Using Precautions of Coupler Series

Never fail to check the following

⚠ WARNING

1. Avoid applying or removing when pressure is on. It causes the danger of jumping of plug body.
2. Never touch the equipment under pressure in the state of putting plug and socket on the body. It causes "opening" by touch.
3. Never use coupler in place of rotary joint or other revolving joint.
4. Secure to flow the fluid from socket to plug.
5. Avoid the instrument or machine giving strong bending weight, excessive vibration or shock.
6. To use the coupler on a vibration tool such as jet chisel, be sure to connect with 30_{CM} rubber tube between tool and coupler.

⚠ CAUTION

1. When putting plug into socket, secure to push it until it stops.
Otherwise it may cause leakage. In addition, be sure to check whether it will come out or not by pulling it out.
2. Be careful of plug body jumping by compressed air discharging when disconnecting.
3. Be sure not only to have dust or contamination with intended fluid but also to have flaws on body. It may cause leakage.
4. When pushing tube into the socket body, fix it with hose-band after wearing silicon.
5. Never fasten the thread over maximum limit of torque. It may cause breakage.

LCH

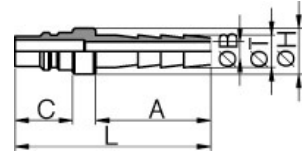
Plug Nipple



MODEL [T]

Tube (Metric) - Thread(R)

MODEL	C	ØT
LCH22 STEEL	15	8.5



LCM

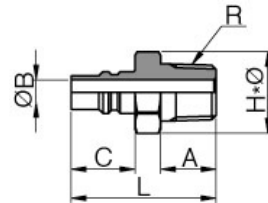
Plug Male



MODEL [T]

Tube (Metric) - Thread(R)

MODEL	C	R
LCM21 STEEL	15	R1/8
LCM22 STEEL	15	R1/4



LCF

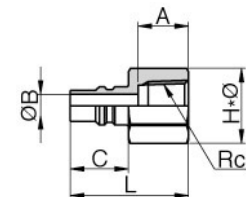
Plug Female



MODEL [T]

Tube (Metric) - Thread(R)

MODEL	C	Rc
LCF22 STEEL	15	Rc1/4



LCN

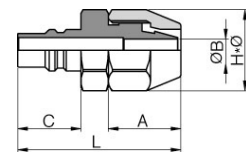
Plug Nut



MODEL [ØD]

Tube (Metric) - Thread(R)

MODEL	C	Tube
LCN21 STEEL	15	8×5
LCN23 STEEL	15	10×6.5



LHH

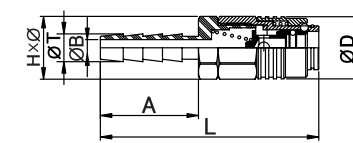
Socket Nipple



MODEL [T]

Tube (Metric) - Thread(R)

MODEL	ØD	ØT
LHH22 STEEL	19	8.5



LHM

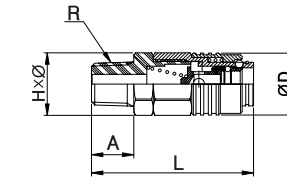
Socket Male



MODEL [T]

Tube (Metric) - Thread(R)

MODEL	ØD	R
LHM22 STEEL	19	1/4



LHF

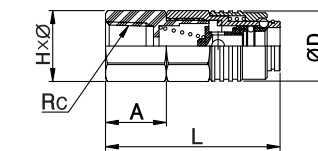
Socket Female



MODEL [T]

Tube (Metric) - Thread(R)

MODEL	ØD	Rc
LHF22 STEEL	19	Rc1/4



LHN

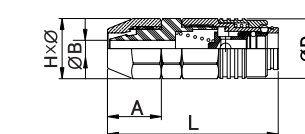
Socket Nut



MODEL [ØD]

Tube (Metric) - Thread(R)

MODEL	ØD	Tube
LHN21 STEEL	19	8×5
LHN23 STEEL	19	10×6.5



LHP

Socket Plug



MODEL(T)

Tube (Metric) - Thread(R)

MODEL	ØD	H×Ø
LHP22 STEEL	19.0	17×19.2

