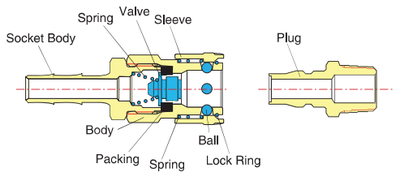
MINOR COUPLER

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

Feature
- Light and easy to use for it's made of ZnDc.

Structural Diagram



Specification

Fluid	Air
Material	ZnDc(chrome~plated)
Working Pressure Range	10kgf/cm2 (1000kPa)
Maximum Pressure	15kgf/cm2 (1500kPa)

Product Code System

MC H 22

① ② ③

①Model

MC	Plug
MH	Socket

②Type

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

③Thread Size(T)

Size	22	23	24
H	9.0	11.0	15.0
M	R1/4	R 3/8	R1/2
F	Rc1/4	Rc 3/8	Rc1/2

Size	21	22	23
N	8 ×5	10 ×6.5	12 ×8

▶Minimum Sectional Area(㎟)

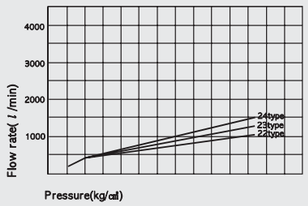
22 Type		23 Type		24 Type	
H	M · F	H	M · F	H	M · F
19	32	32	32	32	32

Minor Coupler

MCH 162p	**MCM** 162p	**MCF** 162p	**MCN** 162p	**MCN-S** 163p	**MHH** 163p	**MHM** 163p
Plug Nipple	Plug Male	Plug Female	Plug Nut	Plug Nut-Spring	Socket Nipple	Socket Male
MHF 163p	**MHN** 164p	**MHN-S** 164p	**MLY** 164p	**MLW** 164p	**MLR** 165p	
Socket Female	Socket Nut	Socket Nut-Spring	Branch Y	Branch Triple	Branch R	

Valve Symbols: One-way shut-off
Working Pressure: 10kgf/cm²
Applicable fluids: Air

▶Flow Rate



▶Measuring Conditions
- Fluid type : Air
- Temperature : Room temperature(20 ℃)

▶How to check table
This diagram shows the flow quantity of input condition in flowing air.

▶Example
For 24 type, in case using pressure is 5 kg/㎠, find out flowing rate of vertical part according to the interchange of 24 type's round line and indicated arrow's pressure.

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㎝ 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.

Minor Coupler

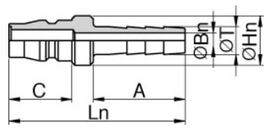
MCH

Plug Nipple

MODEL[T]

Tube (Metric) - Thread(R)

MODEL	C	ØT
MCH22-S ZNDC	20.5	9
MCH23-S ZNDC	20.5	9.6
MCH24-S ZNDC	20.5	15



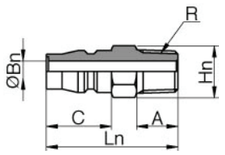
MCM

Plug Male

MODEL[T]

Tube (Metric) - Thread(R)

MODEL	C	R
MCM22-S ZNDC	20.5	R1/4
MCM23-S ZNDC	20.5	R3/8
MCM24-S ZNDC	20.5	R1/2



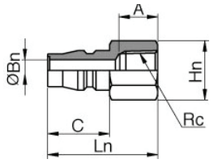
MCF

Plug Female

MODEL[T]

Tube (Metric) - Thread(R)

MODEL	C	Rc
MCF22-S ZNDC	20.5	Rc1/4
MCF23-S ZNDC	20.5	Rc3/8
MCF24-S ZNDC	20.5	Rc1/2



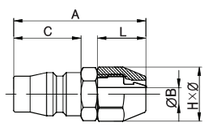
MCN

Plug Nut

MODEL[ØD]

Tube (Metric) - Thread(R)

MODEL	C	Tube
MCN21-S ZNDC	20.5	8 ×5
MCN23-S ZNDC	20.5	10 × 6.5
MCN24-S ZNDC	20.5	12 ×8



Minor Coupler

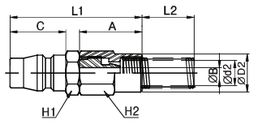
MCN-S

Plug Nut - Spring

MODEL[T]

Tube (Metric) - Thread(R)

MODEL	C	Tube
MCN-S21S ZNDC	20.5	8×5
MCN-S23S ZNDC	20.5	10 × 6.5
MCN-S24S ZNDC	20.5	12 ×8



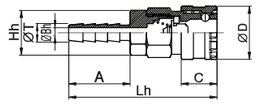
MHH

Socket Nipple

MODEL[T]

Tube (Metric) - Thread(R)

MODEL	ØD	ØT
MHH22-S ZNDC	26	9
MHH23-S ZNDC	26	11
MHH24-S ZNDC	26	15



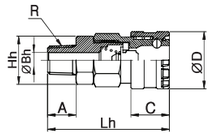
MHM

Socket Male

MODEL[T]

Tube (Metric) - Thread(R)

MODEL	ØD	R
MHM22-S ZNDC	26	R1/4
MHM23-S ZNDC	26	R3/8
MHM24-S ZNDC	26	R1/2



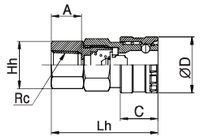
MHF

Socket Female

MODEL[ØD]

Tube (Metric) - Thread(R)

MODEL	ØD	Rc
MHF22-S ZNDC	26	Rc1/4
MHF23-S ZNDC	26	Rc3/8
MHF24-S ZNDC	26	Rc1/2



Minor Coupler

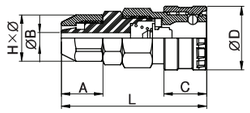
MHN

Socket Nut

MODEL[ØD]

Tube (Metric) - Thread(R)

MODEL	ØD	Tube
MHN21-S ZNDC	26	8×5
MHN23-S ZNDC	26	10×6.5
MHN24-S ZNDC	26	12×8



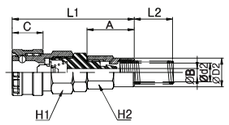
MHN-S

Socket Nut Spring

MODEL[ØD]

Tube (Metric) - Thread(R)

MODEL	ØD	Tube
MHN-S21S ZNDC	26	8×5
MHN-S23S ZNDC	26	10×6.5
MHN-S24S ZNDC	26	12×8



MLY

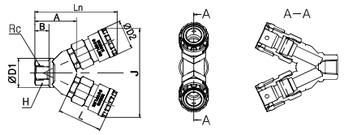
Branch Y

Rc

MODEL[T]

Tube (Metric) - Thread(R)

MODEL	Rc	ØD
MLY 22	Rc1/4	26



MLW

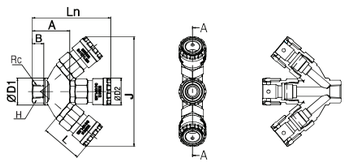
Branch Triple

Rc

MODEL[T]

Tube (Metric) - Thread(R)

MODEL	Rc	ØD
MLW 22	Rc1/4	26



MLR

Branch R

Rc

MODEL[T]

Tube (Metric) - Thread(R)

MODEL	Rc	ØD
MLR 22	Rc1/4	26
MLR 23	Rc3/8	26