# For Low Pressure (Air)

# **ROTARY LINE CUPLA**

Simple design air line couplings on free turn manifold

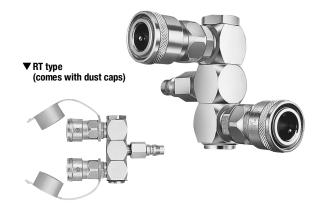


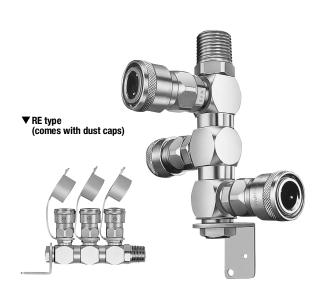




# Each air outlet can be turned freely to any angle independently.

- Multiple outlets are available from single air supply source.
- Sideway air outlets are rotatable to any angle. Possible hose twists can be eliminated by the component couplings' swivel mechanism.
- Choose either RT type (2 outlets) or RE type (3 outlets) to suit your application.





Specifications						
Body material	Body	Body : Brass (Chrome plated), CUPLA : Steel (Chrome plated)				
Model	RT Type	RT Type (for two branch lines) RE Type (for three			e branch lines)	
	Inlet HI CUPLA Plug 20PF			Inlet		R 1/2
Size	Outlet 2 sockets for HI CUPLA Model 20		Outlet	3 sockets for HI CUPLA Model 20		
Pressure unit	MI	Pa	kgf/cm²	ba	ar	PSI
Working pressure	1.	5	15	1	5	218
Seal material	Seal material		Mark	Working temperature range		Remarks
Working temperature range	Nitrile rubber		NBR (SG)	-20°C to	+60°C	Standard material

<sup>.</sup> The products come with dust caps

Maximum Tightening Torque (RE Type) Nm {kgf∙c					
Size (Thread)	1/2"				
Torque	30 {306}				

# **Fluid Flow Direction** Fluid must run from the inlet port to the outlet ports

#### Interchangeability

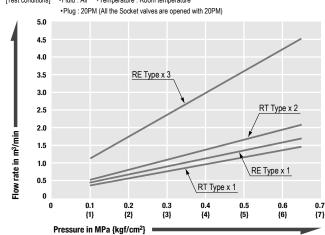
Interchangeable with plugs of HI CUPLA models 10, 17, 20, 30 and 40. Interchangeable with each models of NUT CUPLA series and HI CUPLA series. Please see page 19 for "HI CUPLA Series Interchangeability".

Minimum Cross-Sectional Area (mm²)					
Model	RT type	RE type			
Minimum cross-sectional area	33				

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

#### **Pressure - Flow Characteristics**

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

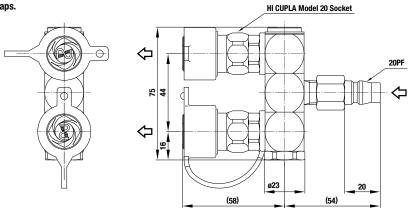


**Models and Dimensions** WAF: WAF stands for width across fla

#### RT type (For two outlets) Socket

Mass: 490 g

- Fluid must run in the direction of the arrow.
- The product comes with dust caps.

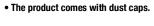


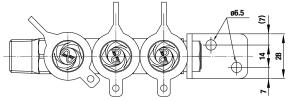
Dimensions (mm)

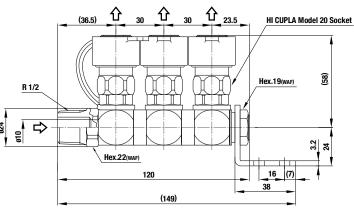
#### Socket RE type (For three outlets)

Mass: 660 g

• Fluid must run in the direction of the arrow.







Dimensions (mm)



# For Low Pressure (Air)

**200T Type, 200L Type, 200S Type** 

Simple design air line coupling on manifold



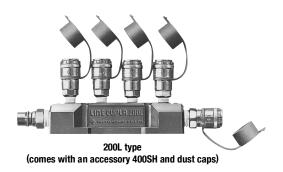




# **Enables several air lines to be taken** simultaneously from one supply line!

- Just push in the plug into socket for simple and secure connection.
- Multiple outlets are available from single air supply source.
- Choose from the 2-outlet type (Model 200T), the 5-outlet straight type (Model 200L) and the 5-outlet star type (Model 200S) to suit your application.







Specifications					
Body material	E	Body : Aluminum alloy, CUPLA : Steel (Chrome plated)			
Size	Inlet   200T Type : 20PM   200L Type / 200S Type : 400PM			e : 400PM	
3126	Outlet   200T Type : 200-20SM   200L Type / 200S Type : 200-20SM, 40S				: 200-20SM, 40SM
Pressure unit	MPa		kgf/cm <sup>2</sup>	bar	PSI
Working pressure	1.5		15	15	218
Seal material	Seal material Nitrile rubber		Mark	Working temperature range	Remarks
Working temperature range			NBR (SG)	-20°C to +60°C	Standard material

The products come with dustproof caps.

# Flow Direction Fluid must run from the inlet port to the outlet ports.

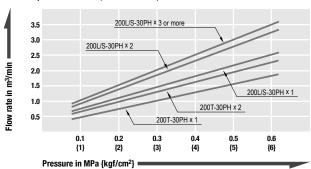
Interchangeable with plugs of HI CUPLA models 10, 17, 20, 30 and 40. Interchangeable with each models of NUT CUPLA series and HI CUPLA series. Please see page 19 for "HI CUPLA Series Interchangeability".

Minimum Cross-Sectional Area (mm²					
Model	200T type, 200L type, 200S type				
Minimum cross-sectional area	19				

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

#### **Pressure - Flow Characteristics**

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



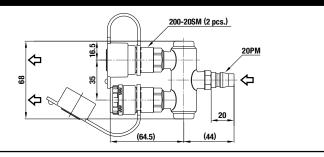
Dimensions (mm)

**Models and Dimensions** 

#### Socket 200T type (For two outlets)

Mass: 272 g

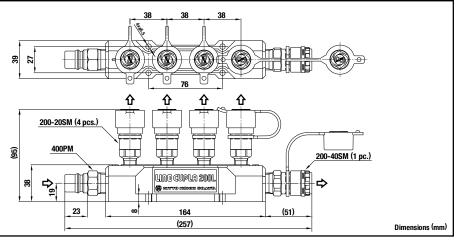
- Fluid must run in the direction of the a
- The product comes with dust caps.



## Socket 200L type (For five outlets, in-line type)

Mass: 890 g

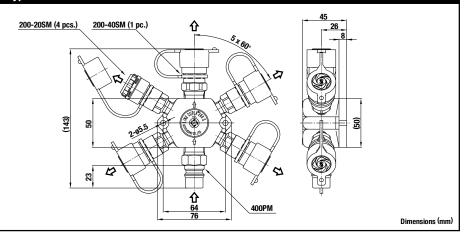
- Fluid must run in the direction of the arr
- The product comes with dust caps.
- Accessory : 400SH



#### 200S type (For five outlets, star type) Socket

Mass: 769 g

- Fluid must run in the direction of the arrow.
- The product comes with dust caps.
- Accessory : 400SH



## **Application Example**







#### Optional Items: PRESSURE GAUGE and DRAIN COCK

"PRESSURE GAUGE" and "DRAIN COCK" are available as optional items to be mounted on LINE CUPLA 200. (See page 151) PRESSURE GAUGE DRAIN COCK Um 3 (Tura La 2000) Appearance subject to change for improvement without notice.

# For Low Pressure (Air) **ROTARY FULL-BLOW LINE CUPLA** Free rotating branch air line coupling with low pressure loss & high flow rate

# Each air outlet can be turned freely to any angle independently.

- Multiple outlets are available from single air supply source.
- . Sideway air outlets are rotatable to any angle.
- Choose either RT type (2 outlets) or RE type (3 outlets) to suit your application.
- The flow rate increases by 40% to 50% over that of conventional CUPLA.
- During connection and disconnection, the valve is closed, enabling connection/disconnection under zero line pressure.
- When the sleeve of socket is returned to its original position, the purge mechanism releases the residual air pressure in the plug, eliminating unpleasant popping noise and hose whip motion on disconnection.
- . Built-in sleeve lock mechanism prevents accidental disconnection of CUPLA, ensuring safe operation.
- The valve can be opened and closed while the socket and plug is connected.



Specifications						
Body material	Zinc alloy					
	RT type (For two outlets) RE type (For three outlets)				three outlets)	
Size	Inlet Plug (20PFF)			Inlet	R 1/2	
	Outlet FULL-BLOW CUPLA			Outlet	FULL-	BLOW CUPLA
Pressure unit	М	Pa	kgf/cm <sup>2</sup>	b	ar	PSI
Working pressure	1	.5	15	1	5	218
Seal material	Seal material		Mark	Working temperature range		Remarks
Working temperature range	Nitrile	rubber	NBR (SG)	-20°C to	o +60°C	Standard material

<sup>.</sup> The product comes with dust caps.

Maximum Tightening Torque (FBH-RE Type) Nm {kgf·cn				
Size (Thread)	1/2"			
Torque	30 {306}			

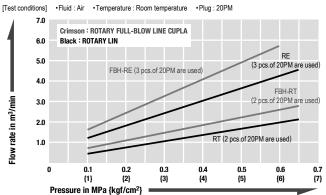
# **Flow Direction** Fluid must run from the inlet port to the outlet ports.

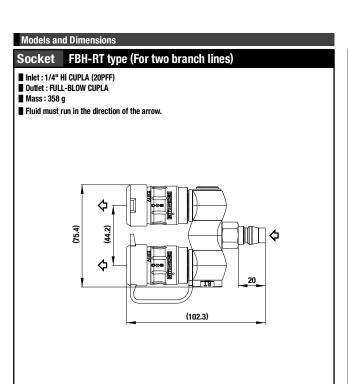
Interchangeable with plugs of HI CUPLA models 10, 17, 20, 30 and 40. Interchangeable with each models of NUT CUPLA series and HI CUPLA series. Not interchangeable with some plugs of plastic HI CUPLA 250 (discontinued product). Please see page 19 for "HI CUPLA Series Interchangeability".

Minimum Cross-Sectional Area (mm²)					
Model	FBH-RT	FBH-RE			
Minimum cross-sectional area	44	44			

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

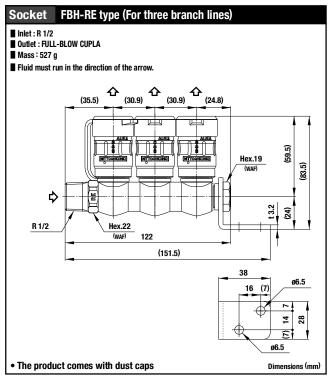
#### Pressure - Flow Rated Characteristics (Comparison with ROTARY LINE CUPLA)

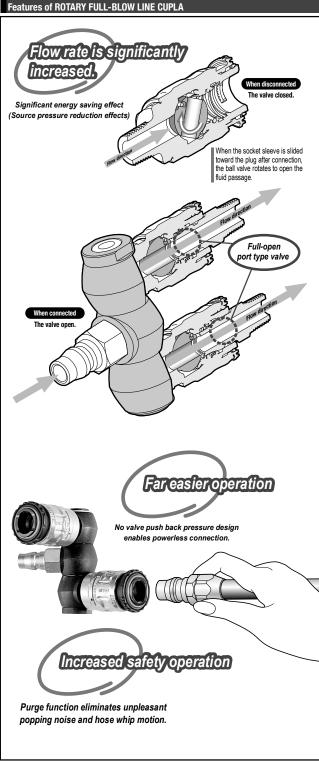




• The product comes with dust ca

Dimensions (mm)

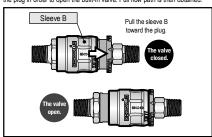




#### **How It Works**

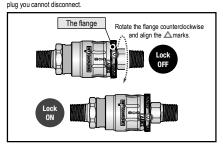
### 1. Open the valve

Only after connection with the plug, you can slide the socket sleeve B toward the plug in order to open the built-in valve. Full flow path is then obtained.



### 2. Lock the sleeve

Rotate the flange counterclockwise to lock the sleeve B. Without unlocking the



## 3. Purge the residual air

To disconnect the plug, first turn the flange back to its original position for unlocking and then pull the sleeve B back to the original position. The built-in valve will be closed to purge the residual air pressure.

