

For Low Pressure (Air)

# Rotary Full-Blow Line Cupla

Free rotating branch air line coupling with low pressure loss & high flow rate

Working pressure

1.5  
1.5 MPa  
(15 kgf/cm<sup>2</sup>)

Valve structure



One-way shut-off

Applicable fluid

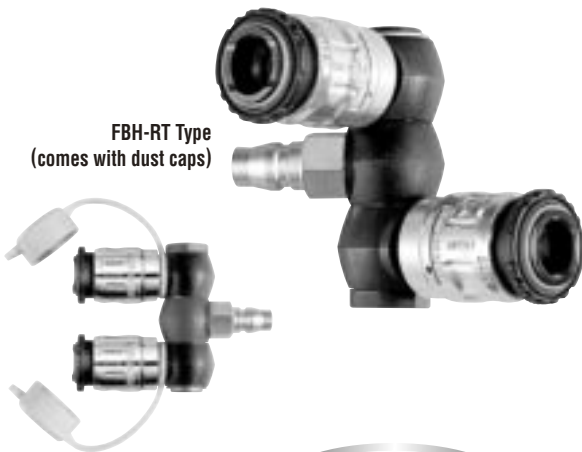


Air

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 Cuplas.
- 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 pressure inside the plug, eliminating an unpleasant popping noise and a hose whip back motion.
- Built-in sleeve lock mechanism prevents accidental disconnection of Cuplas, ensuring safe operation.
- The valve can be opened and closed while the socket and plug is connected.

FBH-RT Type  
(comes with dust caps)



FBH-RE Type  
(comes with dust caps)



## Specifications

Body material		Zinc alloy			
Size		RT type (For two outlets)		RE type (For three outlets)	
		Inlet	Plug (20PFF)	Inlet	R 1/2
		Outlet	Full-Blow Cupla	Outlet	Full-Blow Cupla
Working pressure	MPa	1.5			
	kgf/cm <sup>2</sup>	15			
	bar	15			
	PSI	218			
Seal material		Seal material	Mark	Working temperature range	Remarks
Working temperature range		Nitrile rubber	NBR (SG)	-20°C to +60°C	Standard material

• The product comes with dust caps.

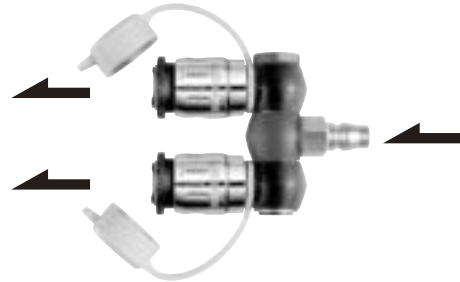
## Max. Tightening Torque (FBH-RE Type)

Nm {kgf·cm}

Size (Thread)	1/2"
Torque	30 {306}

## Flow Direction

Fluid must run from the inlet port to the outlet ports.



## Interchangeability

Can be connected with plugs for Hi Cupla Models 10, 17, 20, 30, and 40.

Interchangeable with all other Hi Cupla Series products. Please see the page for "Hi Cupla Series Interchangeability."

Cannot be interchangeable with some plugs for plastic Hi Cupla 250 (discontinued product).

## Min. Cross-Sectional Area

(mm<sup>2</sup>)

Model	FBH-RT	FBH-RE
Min. cross-sectional area	44	44

## Suitability for Vacuum

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

## Pressure - Flow Rated Characteristics (Comparison with Rotary Line Cupla)

[Test conditions] • Fluid : Air • Temperature : Room temperature • Plug : 20PM

