



# FULL-BLOW CUPLA

Low pressure loss & high flow rate

UNIQUE FULL-OPEN GATE TYPE VALVE MECHANISM REALISES LOW PRESSURE LOSS AND HIGH FLOW RATE, WHICH REDUCES REQUIRED SOURCE AIR VOLUME.



## Specifications

Body Material	Aluminum alloy	
Working Pressure	215 PSI	1.5 MPa (15 kgf/cm <sup>2</sup> )
Pressure Resistance	285 PSI	2.0 MPa (20 kgf/cm <sup>2</sup> )
Flow Rate	2.93 <sup>3</sup> /min. (103 CFM)	
Seal Material	Nitrile rubber (NBR)	
Working Temperature	-5°C ~ +60°C	

## Interchangeability

Can be connected to Hi Cupla Models 20, 30 and 40. Interchangeable with all Hi Cupla Series products.

Socket dust caps available - NPCQ12434

## NO RESIDUAL PRESSURE ON CONNECTION OR DISCONNECTION!

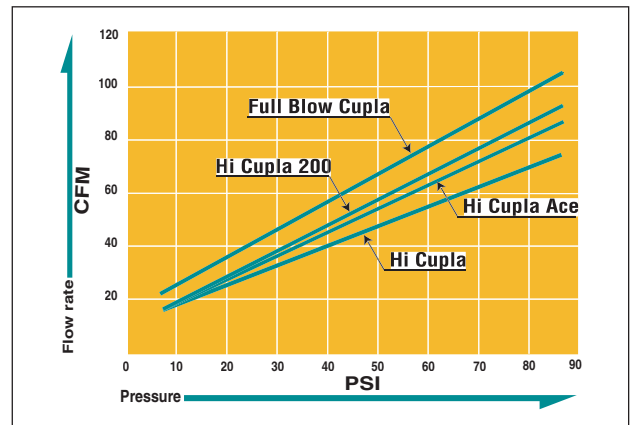
## SAFETY LOCK MECHANISM

## SAFETY PURGE FUNCTION

## Features

- The flow rate is increased by up to 40% more than that of conventional Cuplas.
- Built-in sleeve lock mechanism prevents unexpected disconnection of Cuplas, assuring safe operation.
- The valve can be opened and closed while the socket and plug is connected.
- The weight is reduced by 30 to 45% compared with that of conventional Cuplas.

## PRESSURE - FLOW RATE



SAFETY CUPLAS

## SOCKET

FOR URETHANE HOSE CONNECTION (SN)



Model	Application
FBH-65SN	For ø6.5 x ø10 hose
FBH-85SN	For ø8.5 x ø 12.5 hose
FBH-110SN	For ø11 x ø16 hose

FOR FEMALE THREAD CONNECTION (SM)



Model	Application
FBH-20SM	1/4"
FBH-30SM	3/8"
FBH-40SM	1/2"

## SOCKET

FOR MALE THREAD CONNECTION (SF)



Model	Application
FBH-20SF	1/4"
FBH-30SF	3/8"
FBH-40SF	1/2"

FOR HOSE CONNECTION (SH)

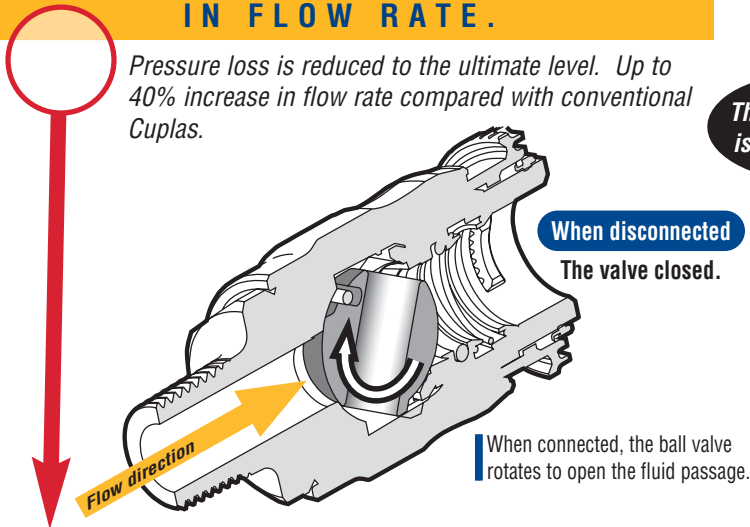


Model	Application
FBH-20SH	For 1/4" hose
FBH-30SH	For 3/8" hose
FBH-40SH	For 1/2" hose

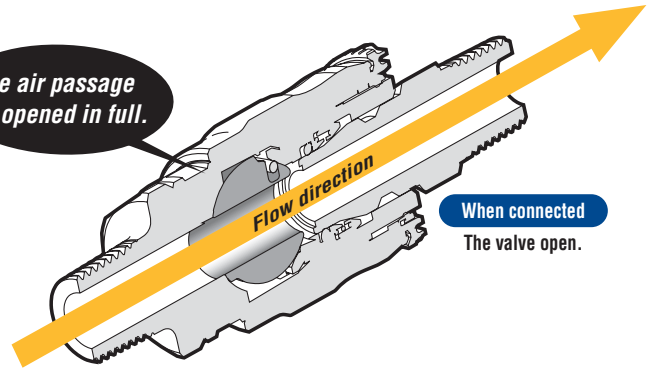


## UP TO 40% INCREASE IN FLOW RATE.

Pressure loss is reduced to the ultimate level. Up to 40% increase in flow rate compared with conventional Couplas.



The air passage is opened in full.

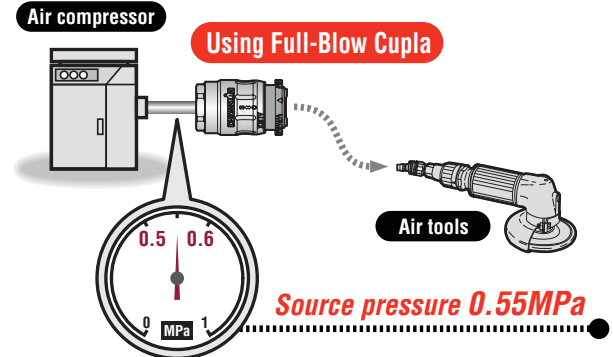
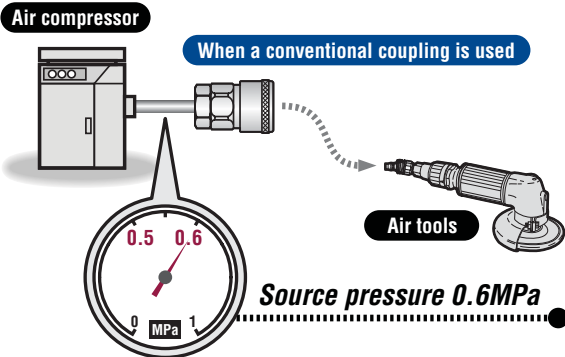


## ENERGY SAVING EFFECT

If conventional Couplas are replaced by Full-Blow Couplas, pressure loss in the air lines can be reduced. Thanks to this, the source pressure at the outlet port of the compressor can be saved.

Note: Energy saving effect depends on the conditions of air piping and the compressor.

### For instance

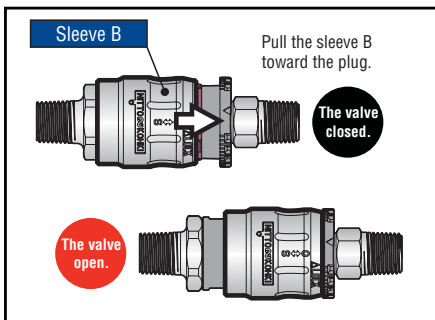


UNIT CONVERSION TABLE		
PRESSURE		
PSI	MPa	kgf/cm <sup>2</sup>
145	1.0	10
215	1.5	15
285	2.0	20

## HOW IT WORKS

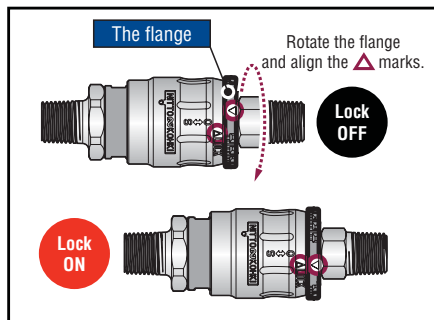
### 1. Open the valve

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 to lock the sleeve B. Without unlocking the plug you cannot disconnect.



### 3. Purge the residual air

To disconnect the plug, first turn the flange back to the 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.

