

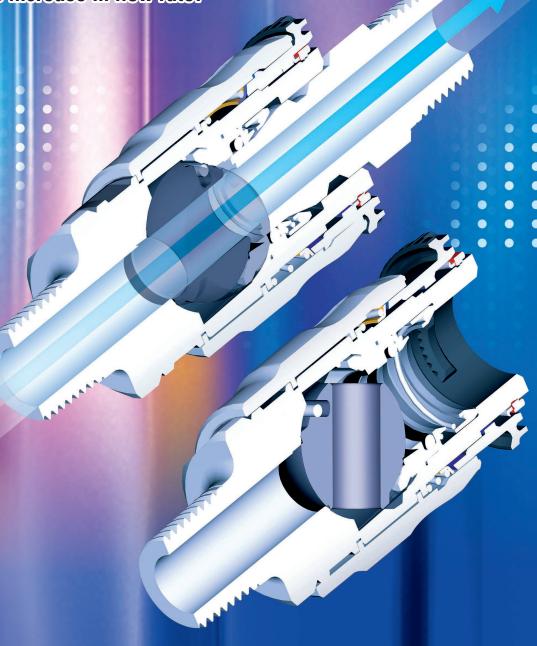
Quick-action Couplings for Air



Full-Blow Gupla

FBH CUPLA SERIES

Energy-saving design for new pneumatic system. Up to about 40% increase in flow rate.





Low pressure loss & high flow rate Full-open ball-type valve designed

Full-Blow Cupla

Easy connection

The connection to a plug is very easy. It is not affected any residual air pressure. After connection, open the Built-in valve by sliding outside sleeve.

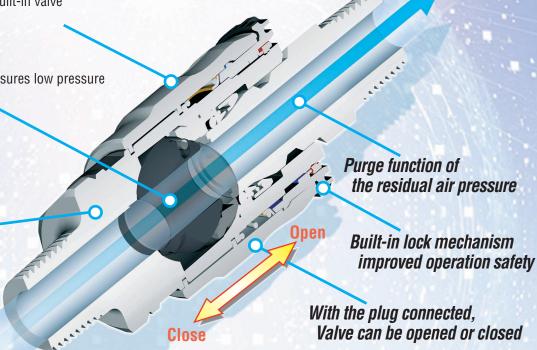
Full-open type valve

Unique valve construction assures low pressure loss and high flow rate.

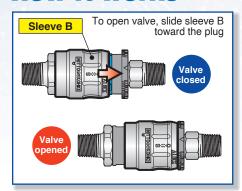


Lightweight

The weight (mass) is 30 to 45% lighter than conventional Cuplas.



How it works



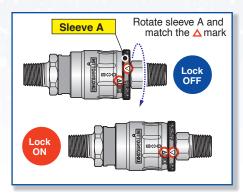
Valve open or close operation

The valve can be opened and closed while the Cupla is connected.

After the connection to the plug, slide sleeve B to open the built-in valve.

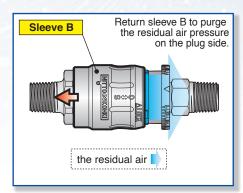
Full flow path is then obtained.

Slide sleeve B to the original position and the flow path closes.



Built-in lock operation

Slide sleeve B towards plug. Rotate sleeve A to lock. The sleeve lock function prevents unexpected disconnection.



Purge operation

Closing the valve slide sleeve B to open position. Relieves the residual air from the plug side.
Reduces risk of hose whip.

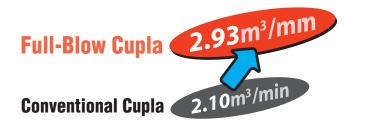
Energy-saving design

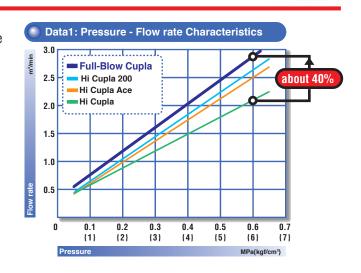
for establishing a new pneumatic system

Flow rate up to 40% increase

The "Full-Blow Cupla" minimizes pressure loss and offers a flow rate up to 40% higher than conventional Cuplas.

As show in the chart, at 0.6 MPa source pressure, Full-Blow Cupla performs flow rate of 2.93m³/min compare to conventional cupla's 2.10m³/min. (Reference data)

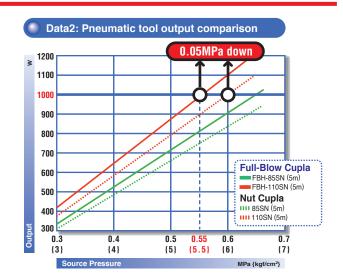




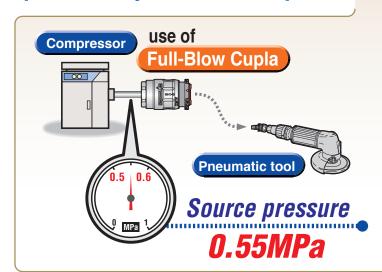
Effects of energy savings

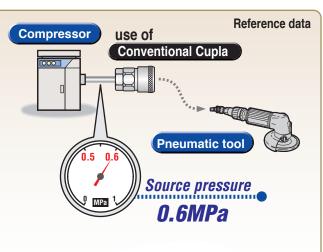
Using Full-Blow Cupla lowers usage of compressor power and results in lower cost using 1000(W) pneumatic tool, a conventional Cupla requiers 0.6 MPa. Switching to Full-Blow Cupla reduces needed pressure to 0.55 MPa.

Required source pressure reduced by 0.05 MPa. This reduces needed air consumption by 7%, a 2.5% reduction in energy expense is also achieved.



Source pressure decrease effects produced by "Full-Blow Cupla" use





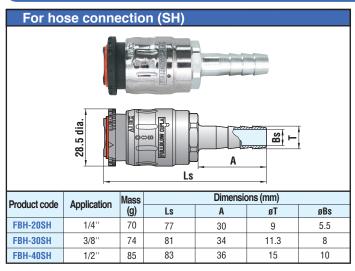
Result of energy savings **0.05MPa**

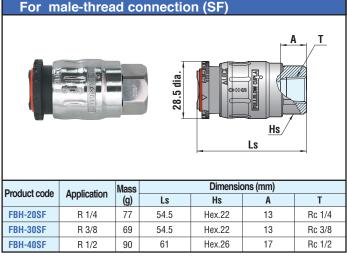
Specifications

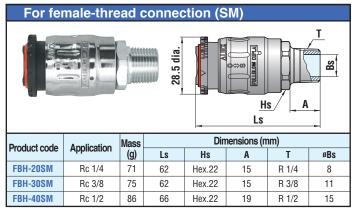
Applicable fluids	Air
Body material	Aluminum alloy
Working pressure *1	1.5MPa {15kgf/cm²}
Pressure resistance *2	2.0MPa {20kgf/cm²}
Packing material	Nitrile butadiene rubber
Working temperature range	−5°C ~ +60°C
Suitability for vacuum applications	Not suitable for use with vacuum, either alone or in combination.
Interchangeability	Hi Cupla Series plugs ∗₃

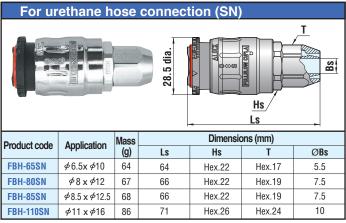
- *1) Allowable pressure when the Cupla used continuously.
- *2) Maximum surge pressure that will not affect the performance of the Cupla.
- *3) Can not be interchanged with some plastic plugs.
- ★ Fluid flow in either direction from plug or socket.

Product Codes and Dimensions Tables











*Before using, please be sure to read the "Precaution" sheet attached to the product or the "Precautions" items on the package.

**All design and specifications are subject to change with or without notice.

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