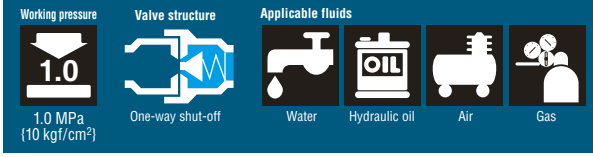
For Low Pressure

TSP Cupla

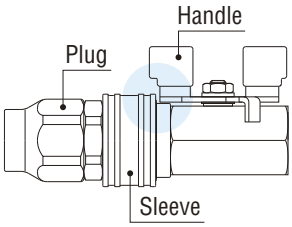
Socket with Ball Valve

For low pressure general applications



One-piece design of TSP Cupla socket and ball valve. Sleeve stopper mechanism prevent accidental disconnection during connection. (when the valve is open.)

- Socket valve can be opened and shut off while socket and plug are connected.
- Ball valve design provides for high flow rate.
- A high viscosity fluid such as grease can be applied.



The handle of the ball valve locks the sleeve to prevent disconnection of the plug during use.

NEW

Interchangeable with standard TSP Cupla plug in the same size.

Specifications

Model		BV-2TSF	BV-3TSF	BV-4TSF	BV-6TSF	BV-8TSF
Size (Thread)		1/4"	3/8"	1/2"	3/4"	1"
Body material		Brass				
Working pressure	MPa	1.0				
	kgf/cm²	10				
	bar	10				
	PSI	145				

Seal material Working temperature range		Seal material	Mark	Working temperature range
	Cupla Part	Fluoro rubber	FKM	−5°C to +120°C
	Ball Valve Part	Fluoropolymer resin	–	

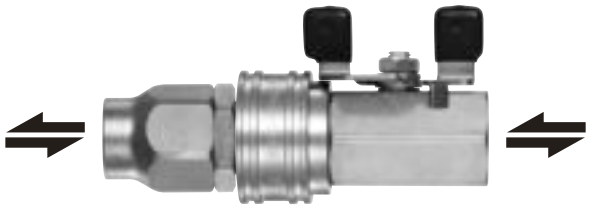
Max. Tightening Torque

Nm {kgf•cm}

Model	BV-2TSF	BV-3TSF	BV-4TSF	BV-6TSF	BV-8TSF
Torque	9 {92}	12 {122}	30 {306}	50 {510}	65 {663}

Flow Direction

Fluid may flow in either direction from plug or from socket side when coupled.



Interchangeability

Can be connected with the plug for TSP Cupla in the same size.

Min. Cross-Sectional Area

(mm²)

Model	BV-2TSF	BV-3TSF	BV-4TSF	BV-6TSF	BV-8TSF
Min. cross-sectional area	19.6	44.1	63.6	122	201

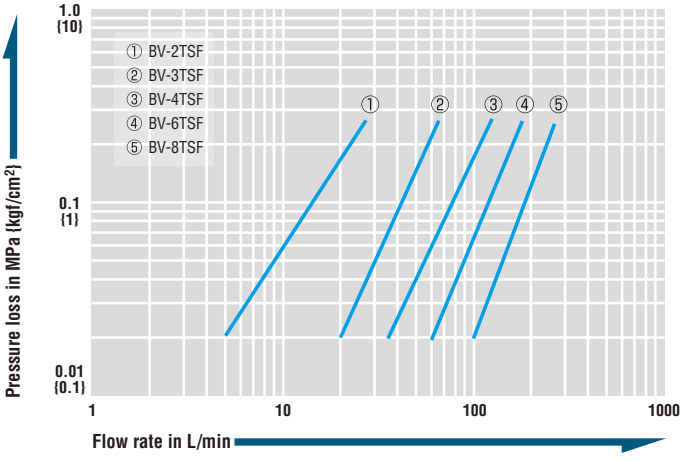
• Value of BV type only. The minimum cross-sectional area may vary depending upon the end configuration of the plug.

Suitability for Vacuum

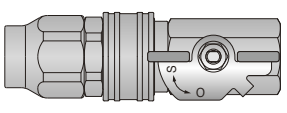
Not suitable for vacuum application in either connected or disconnected condition.

Flow Rate – Pressure Loss Characteristics

[Test conditions] •Fluid : Hydraulic oil •Temperature : 30°C ± 5°C
•Fluid viscosity : 32 x 10^{-6} m^2/s •Density : 0.87 x 10^3 kg/m^3

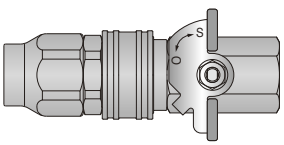


Ball Valve Open



Sleeve is locked.

Ball Valve Shut



Sleeve is free.