

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

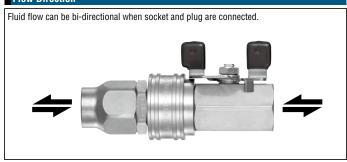
- Socket valve can be opened and shut off while socket and plug are connected.
- Ball valve design provides for high flow rate.
- High viscosity fluids such as grease can be applied.



Specifications							
Model	BV-2TSF	BV-3TSF	BV-4TSF		BV-6TS	F BV-8TSF	
Size (Thread)	1/4"	3/8"	1,	/2"	3/4"	1"	
Body material	Brass						
Pressure unit	MPa	kgf/cı	kgf/cm²		bar	PSI	
Working pressure	1.0	10	10		10	145	
Seal material		Seal ma	terial	Mark		Working temperature range	
Working temperature range	Cupla Part	Fluoro ru	Fluoro rubber		FKM	-5°C to +120°C	
· ·	Ball Valve Par	t Fluoropolym	Fluoropolymer resin		-	3 0 10 1120 0	

Max. Tighte	c. 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**



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

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

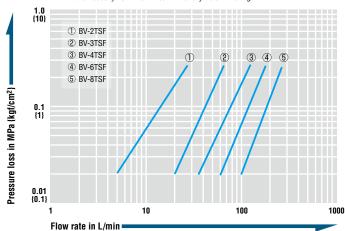
Value of BV type only. The minimum cross-sectional area may vary depending upon the end configuration of the plug.

### **Suitability for Vacuum**

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

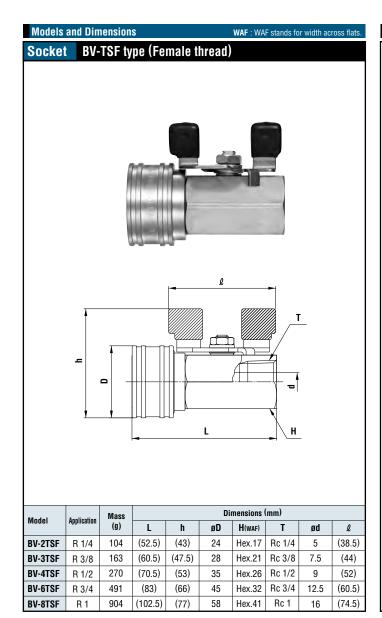
#### Flow Rate - Pressure Loss Characteristics

•Fluid : Hydraulic oil •Temperature :  $30^{\circ}\text{C} \pm 5^{\circ}\text{C}$ •Fluid viscosity :  $32 \times 10^{-6} \text{ m}^2/\text{s}$  •Density :  $0.87 \times 10^{3} \text{ kg/m}^3$ 









# **Application** TSP Cupla Socket with Ball Valve TSP Cupla Socket Commercially Available Ball Valve Overall length reduced by around 30%Compact and enhanced sealing design

Connection part between a Standard TSP Cupla socket and a

commercially available ball valve is eliminated for enhanced

sealing and the overall length is reduced by around 30%.