



NEW

For Medium Pressure

Working pressure
1.0
1.0 MPa
(10 kgf/cm²)

Valve structure
One-way shut-off

Applicable fluids
Water

Hydraulic oil

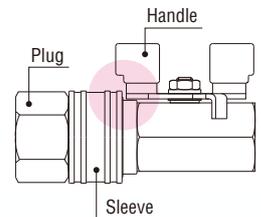
Air

Gas

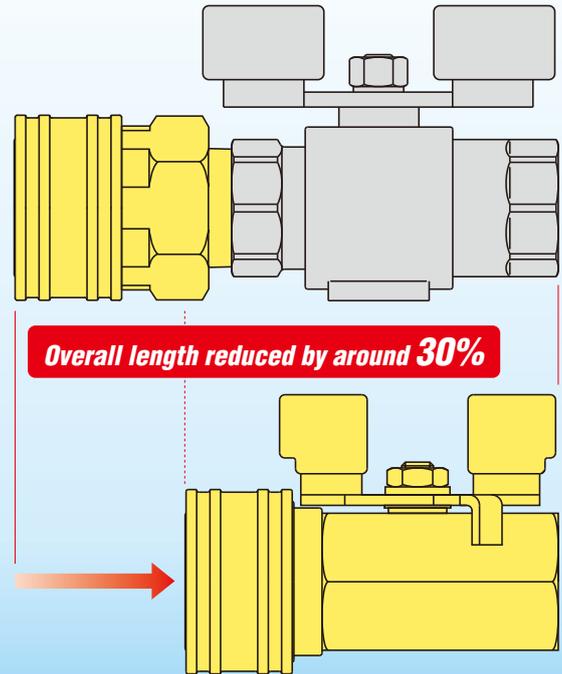
TSP Cupla Socket with Ball Valve

**One-piece Design of TSP Cupla Socket and Ball Valve.
Socket valve can be opened and shut off while socket and plug are connected.**

**Safety mechanism locks the sleeve
to prevent accidental disconnection.**



**TSP Cupla Socket
+
Commercially Available Ball Valve**



TSP Cupla Socket with Ball Valve



Interchangeable with standard
TSP Cupla plug in the same size.

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%.

Specifications					
Model	BV-2TSF	BV-3TSF	BV-4TSF	BV-6TSF	BV-8TSF
Size	1/4"	3/8"	1/2"	3/4"	1"
Body material	Brass				
Working pressure *1	1.0 MPa (10 kgf/cm ²)				
	10 bar				
	145 PSI				
Seal material Working temperature range *2		Seal material	Mark	Working temperature range	
	Cupla Part	Fluoro rubber	FKM	-5°C~+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)

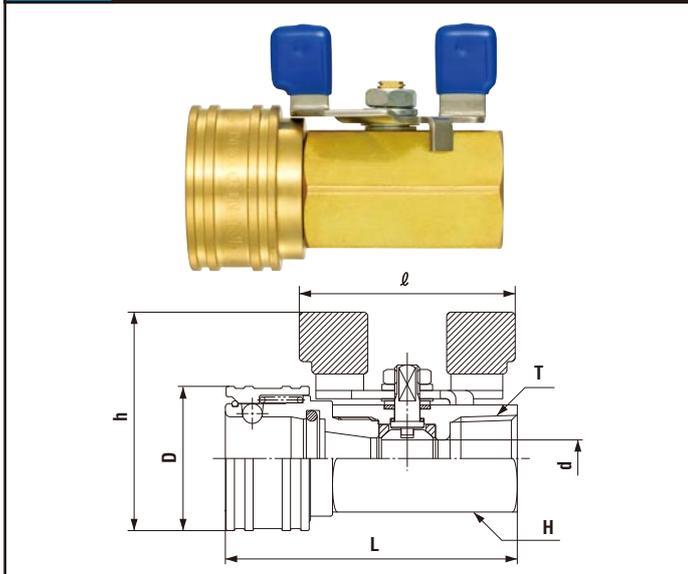


Interchangeability

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

Models and Dimensions WAF : WAF stands for width across flat.

Socket BV-TSF type (Female thread)



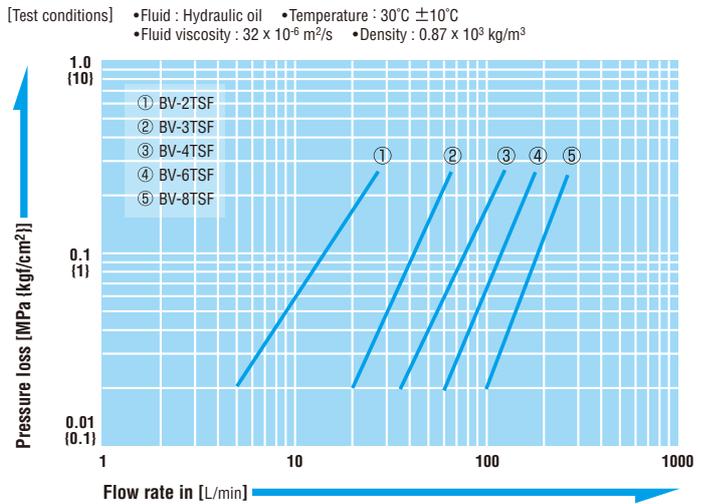
Model	Application	Mass (g)	Dimensions (mm)						
			L	h	øD	H(WAF)	T	ød	ℓ
BV-2TSF	R 1/4	104	(52.3)	(43)	24	Hex.17	Rc 1/4	5	(38.5)
BV-3TSF	R 3/8	163	(60.5)	(47.5)	28	Hex.21	Rc 3/8	7.5	(44)
BV-4TSF	R 1/2	270	(70.3)	(53)	35	Hex.26	Rc 1/2	9	(52)
BV-6TSF	R 3/4	491	(82.8)	(66)	45	Hex.32	Rc 3/4	12.5	(60.5)
BV-8TSF	R 1	904	(102.3)	(77)	58	Hex.41	Rc 1	16	(74.5)

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

Suitability for Vacuum

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

Flow Rate – Pressure Loss Characteristics



Standard TSP Cuplas

For Medium Pressure

TSP Cupla

Body material: Brass, stainless steel, steel with nickel plating
(Body materials for TSP Cupla for connection to braided hoses are brass and stainless steel.)

*Valveless structure suits high viscosity fluids.
Various body materials, sizes,
and end configurations.
Braided hose connection types
are newly added.*

For braided hose connection
Use commercially available braided hoses.

Plug Socket

Hose barb (1/8" · 1/4" · 3/8" · 1/2" · 3/4" · 1" · 1 1/4" · 1 1/2" · 2")
Male thread (1/8" · 1/4" · 3/8" · 1/2" · 3/4" · 1" · 1 1/4" · 1 1/2" · 2")
Female thread (1/8" · 1/4" · 3/8" · 1/2" · 3/4" · 1" · 1 1/4" · 1 1/2" · 2")
For braided hose connection (ø6 x ø11 · ø9 x ø15 · ø12 x ø18 · ø15 x ø22 · ø19 x ø26 · ø25 x ø33)

See our Cupla general catalog for more details.

*1 : This is the normal allowable fluid pressure under continuous use.
*2 : Working temperature range may vary depending upon the usage conditions.
*3 : Value of BV type only. The minimum cross-sectional area may vary depending upon the end configuration of the plug.

★ Specifications and designs are subject to change at any time without notice.

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