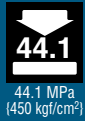


For High Pressure

# 450B Cupla

For hydraulic pressure up to 44.1 MPa {450 kgf/cm<sup>2</sup>}

Working pressure



Valve structure

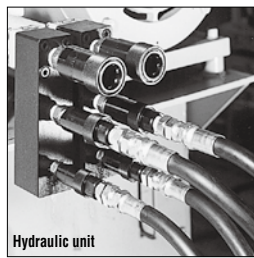


Applicable fluid



**Metal-touch valve system with superior durability! Sleeve stopper mechanism gives secure connection.**

- Cupla for higher working pressure up to 44.1 MPa (450 kgf/cm<sup>2</sup>).
- Sleeve stopper mechanism can be engaged by rotating sleeve after connection.
- Both socket and plug have metal-touch automatic shut-off valves that prevent fluid spill out on disconnection.



Hydraulic unit

Specifications				
Body material	Special steel (Nickel plated)			
Size (Thread)	3/8"			
Pressure unit	MPa	kgf/cm <sup>2</sup>	bar	PSI
Working pressure	44.1	450	441	6400
Seal material Working temperature range	Seal material	Mark	Working temperature range	Remarks
	Nitrile rubber	NBR (SG)	-20°C to +80°C	Standard material
	Fluoro rubber	FKM (X-100)	-20°C to +180°C	Made-to-order item
Stand-alone leakage rate on either socket or plug	0.1 mL/min at 0.3 MPa {3 kgf/cm <sup>2</sup> }			

Max. Tightening Torque		Nm {kgf·cm}
Torque	40 {408}	

**Flow Direction**

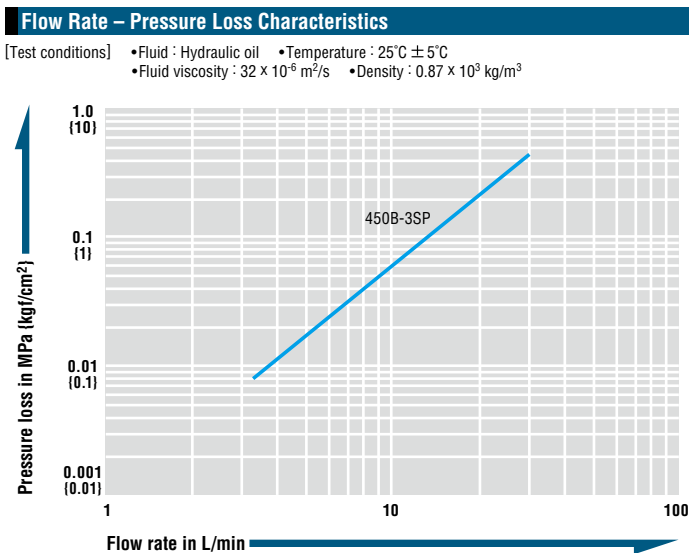
Fluid flow can be bi-directional when socket and plug are connected.

**Interchangeability**  
Different sizes are not interchangeable.

Min. Cross-Sectional Area	(mm <sup>2</sup> )
Min. cross-sectional area	37

Suitability for Vacuum			1.3 Pa {1 x 10 <sup>-2</sup> mmHg}
Socket only	Plug only	When connected	
—	—	Operational	

Admixture of Air on Connection		May vary depending upon the usage conditions.	(mL)
Volume of air admixture	1.43		



**Models and Dimensions**

WAF : WAF stands for width across flats.

**Plug Female thread**

Model	Application	Mass (g)	Dimensions (mm)				
			L	C	øD	H(WAF)	T
450B-3P	R 3/8	95	37.5	22.5	28	24 x ø28	Rc 3/8

**Socket Female thread**

Model	Application	Mass (g)	Dimensions (mm)			
			L	øD	H(WAF)	T
450B-3S	R 3/8	285	59.5	(36)	24	Rc 3/8

Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.