For Hydraulics

450B Cupla

For hydraulic pressure up to 44.1MPa {450kgf/cm²}











Metal-touch valve system with superior durability! Sleeve stopper mechanism gives carefree safety.

- Cupla for higher working pressure up to 44.1MPa {450kgf/cm²}.
- Mechanism to prevent involuntary disconnection maintains tight connection even under vibration or impact when connected.
- Both socket and plug have metal-touch automatic shut-off valves that prevent fluid spill out on disconnection.

Specifications					
Body material	Special steel (Nickel-plated)				
Size	3/8" • 1/2"				
Working pressure MPa {kgf/cm²}	44.1 {450}				
Pressure resistance MPa {kgf/cm²}	68.6 {700}				
Seal material	Seal material	Mark	Working temperature range	Remarks	
Working temperature range	Nitrile rubber	NBR (SG)	-20°C~+80°C	Standard materia	
3 × p × × 3	Fluoro rubber	FKM (X-100)	-20°C~+180°C	Available on reques	
	0.1m ℓ/min at 0.3MPa {3kgf/cm²}				
Stand-alone leakage rate on either socket or plug	* Owing to the metal contact seal structure design, there will be very minimal amount of leakage from both socket and plug respectively, when they are separated.				

Max. Tightening Torque N•m {kgf•cı			
Size	3/8"	1/2"	
Torque	40 {408}	85 {867}	

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

Interchangeability

Different sizes are not connectable.

Min. Cross-Sectional Area (mm²)				
Model	450B-3SP	450B-4SP		
Min. Cross-Sectional Area	37	66		

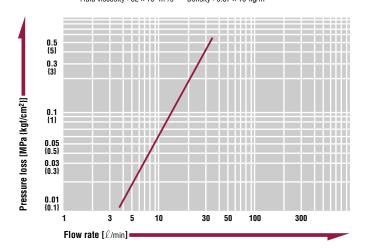
Suitability for Vacuum

Can be used to for vacuum applications up to 1.3Pa {1x10-2mmHg} only when socket and plug are connected.

Admixture of Air on Cor	Admixture of Air on Connection			
Model	450B-3SP	450B-4SP		
Volume of air	1.43	3.44		

Flow Rate - Pressure Loss Characteristics

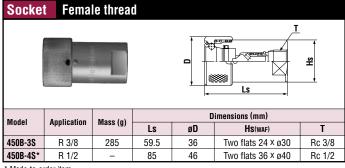
[Test conditions]



Models and Dimensions Female thread Plug

	Lp →					
Model Application	Mass (a)	Dimensions (mm)				
	Application	Mass (g)	Lp	C	Hp(waf)	T
450B-3P	R 3/8	95	37.5	22.5	Two flats 24 x ø28	Rc 3/8
VEUD VD*	D 1/2		50	25	Two flate 22 V g25	Do 1/2

Made-to-order item



WAF: WAF stands for width across flats.

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