For High Pressure

Flat Face Cupla FF

For hydraulic pressure up to 35.0 MPa {357 kgf/cm²} with flat contact face







Compared with Nitto's conventional 35 MPa Cuplas, the flow volume is increased 1.5 to 2 times.

*Increase ratio of each flow volume depends on the Cupla size.

- "Airless valve shut-off" design minimizes spillage volume on disconnection and admixture volume of air on connection.
- Best suited for hydraulic lines with drastic high pressure pulsation such as in die-casting machines.
- Sleeve stopper design preventing accidental disconnection under vibration or impacts enhances workability and safety.

• Sizes are Rc 3/8, Rc 1/2, Rc 3/4, and Rc 1.

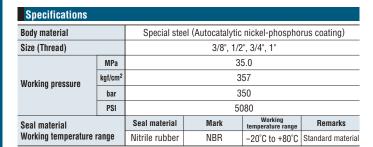


Offset concave flat face enables quick and smooth connection

Unique flat face design

Concaved offset for the flat face on socket guides plug for quick and smooth centering and connection, but still easy to wipe off dirt and dusts.





Max. Tightening Torqu		N m {kgf•cm}			
Size (Thread)	3/8"	1/2"	3/4"	1"	
Torque	40 {408}	80 {816}	150 {1530}	250 {2550}	

Flow Direction

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





Different size socket and plug cannot be connected each other.

Min. Cross-Sectional Area (mn					
Model	FF-3S x FF-3P FF-4S x FF-4P		FF-6S x FF-6P	FF-8S x FF-8P	
Min. cross-sectional area	51	106	215	332	

Suitability for Vacuum

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

Admixture of Air on Connection (r						
Model	FF-3S x FF-3P	FF-4S x FF-4P	FF-6S x FF-6P	FF-8S x FF-8P		
Volume of air admixture	0.018	0.029	0.033	0.080		

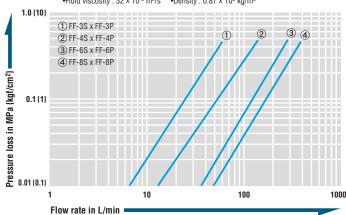
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Volume of Spillage per Disconnection						
Model	FF-3S x FF-3P FF-4S x FF-4P		FF-6S x FF-6P	FF-8S x FF-8P		
Volume of spillage	0.009	0.023	0.031	0.110		

^{*}Spillage volume of liquid on each disconnection depends on usage conditions

Flow Rate – Pressure Loss Characteristics

[Test conditions] •Fluid : Hydraulic oil •Temperature : $30^{\circ}\text{C} \pm 5^{\circ}\text{C}$ •Fluid viscosity: 32 x 10⁻⁶ m²/s •Density: 0.87 x 10³ kg/m³



$oldsymbol{\Lambda}$ Precautions for use

Do not connect / disconnect Cuplas when pressure is applied or remaining.