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

Flow Direction



Different size socket and plug cannot be connected each other.

Min. Cross-Sectional Area (mm²						
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

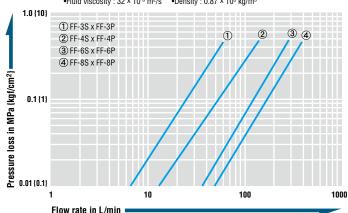
Not suitable for vacuum application in either connected or disconnected condition.

Admixture of Air on Co	(mL)			
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

Volume of Spillage per Disconnection May vary depending upon the usage conditions. (mL)						
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		

Flow Rate - Pressure Loss Characteristics

•Fluid : Hydraulic oil •Temperature : 30°C ± 5°C •Fluid viscosity : 32 × 10⁻⁶ m²/s •Density : 0.87 × 10³ kg/m³



$oldsymbol{\Lambda}$ Precautions for use

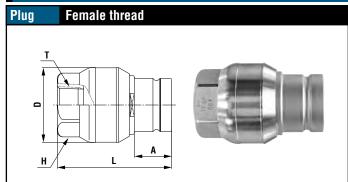
Do not connect / disconnect Cuplas when pressure is applied or remaining.

Hexagon nut for easy mount

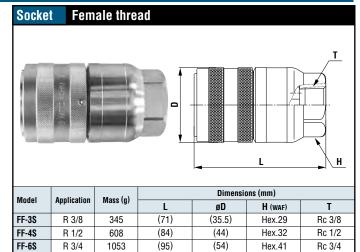
FF-8S

R 1

1865



Model	Application	Mass (g)	Dimensions (mm)					
Model			L	øD	A	H (WAF)	T	
FF-3P	R 3/8	252	(66)	34	20.5	Hex.29	Rc 3/8	
FF-4P	R 1/2	409	(74)	42	22.8	Hex.32	Rc 1/2	
FF-6P	R 3/4	709	(82.5)	54	27	Hex.41	Rc 3/4	
FF-8P	R 1	1314	(96.5)	66	29.5	Hex.54	Rc 1	



(109.5)

(66)

Hex.54

Rc 1

Applications

- Hydraulic piping for die-casting machines
- Casting machines
- Electric furnaces
- Molding presses
- Forging press
- Powdery alloy presses
- Extrusion molding machines
- Machine tools
- Iron manufacturing blast furnaces
- Continuous casting machines
- Rolling mills
- Pipe forging machines
- Furnace opening / closing machines
- Glass molding machines, etc.

