

# **Compared with Nitto Kohki's** conventional 35 MPa CUPLA, 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. \*Only the same size of





103 NITTO KOHKI CO., LTD. CUPLA CONSET

Specifications				
Body material	Special steel (Nickel plated)			
Size (Thread)	3/8", 1/2", 3/4", 1"			
Pressure unit	MPa	kgf/cm <sup>2</sup>	bar	PSI
Working pressure	35.0	357	350	5080
Seal material	Seal material	Mark	Working temperature range	Remarks
Working temperature range	Nitrile rubber	NBR	-20°C to +80°C	Standard materia

Maximum Tightening Torque				Nm {kgf•cm}	
Size (Thread)	3/8"	1/2"	3/4"	1"	
Torque	40 {408}	80 {816}	150 {1:530}	250 {2550}	



Socket and plug of different sizes cannot be connected

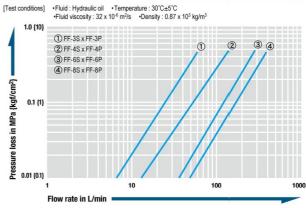
Minimum Cross-Sectional Area				(mm²)	
Model	FF-3S × FF-3P	FF-4S × FF-4P	FF-6S ×	FF-6P	FF-8S × FF-8P
Minimum cross-sectional area	51	106	215	5	332

Not suitable for vacuum application in either connected or disconnected condition

Admixture of Air on Connection 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 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	

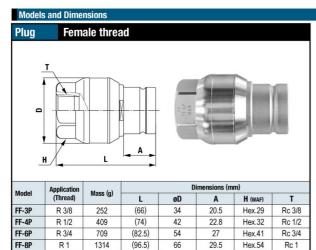
### Flow Rate - Pressure Loss Characteristics

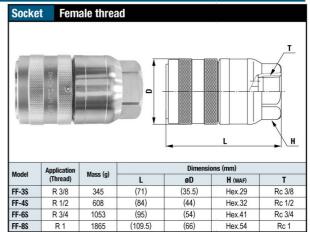


♠ Precautions for use

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

## FLAT FACE CUPLA FF





### **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.



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

