

# HIFLOW CUPLA Flange mount type

**CUPLA Series for Temperature Control Equipment Piping** 

Semi-standard product Built-in valve

# No welding, flanges, or hose barbs required! Can be directly installed in a variety of manufacturing equipment.



### Size comparison with SP CUPLA Type A (Comparing sockets with the same connection size)



- Diamond-shaped flange allows for installation at close intervals.
- Both the plug and socket have built-in automatic shut-off valves.
- High flow characteristics for enhanced cooling effect.
- Enables quick connection and disconnection of cooling pipes.
- Compact, space-saving design with up to 22% shorter connection length compared to previous models.
- Allows for easy and quick installation and maintenance.

#### **Specifications**

Body material	Stainless steel (SUS304)			
Size (Thread)	1/4", 3/8", 1/2"			
Pressure unit	MPa	kgf/cm <sup>2</sup>	bar	PSI
Working pressure *1	1.0	10	10	145
Seal material	Seal material		Mark	Working temperature range
Working temperature range *2	Ethylene-propylene rubber		EPDM	-40°C to +150°C

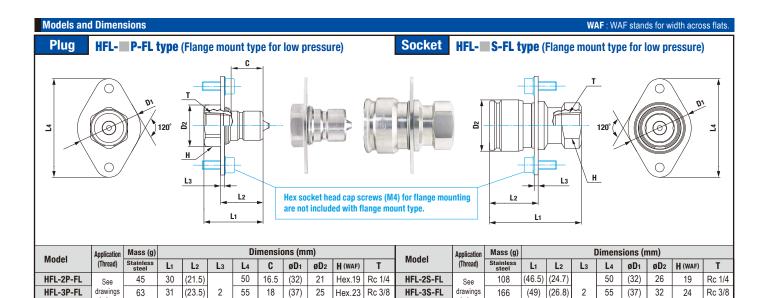
- \*1: The normal allowable fluid pressure under continuous use Exceeding the working pressure may cause damage and leakage
- \*2: The operable temperature range depends on the operating conditions.

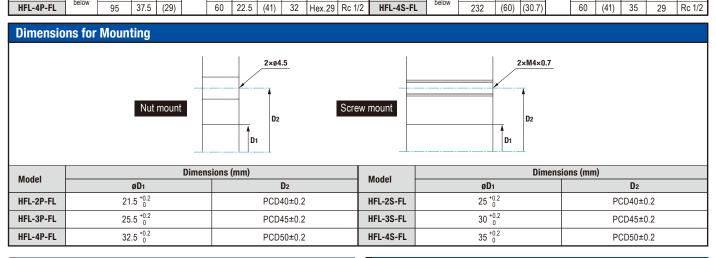
### Safety Guide

- Do not apply pressure to CUPLA socket or plug while they are disconnected.
- Do not use CUPLA continuously exceeding the rated working pressure.
- Only use CUPLA that are within their rated temperature range.
- Do not exceed the recommended maximum torque when installing CUPLA.
- The flange type does not include hex socket head cap screws (M4) or other components for fixing to the flange
- Please select hex socket head cap screws of appropriate length for installation. Care must be taken when installing CUPLA not to overtighten or cross thread.
- Do not connect/disconnect with fluid still under dynamic pressure or static residual pressure.
- Do not strike the tip of an automatic shut-off valve with a hammer or a similar tool However, if you need to relieve residual pressure, please consult us









Maximum Tightening Torque			Nm {kgf•cm}
Model	HFL-2P-FL / HFL-2S-FL	HFL-3P-FL / HFL-3S-FL	HFL-4P-FL / HFL-4S-FL
Torque	14 {143}	22 {224}	60 (612)

#### Interchangeability

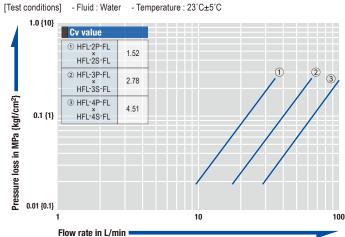
Socket and plug of different sizes cannot be connected.



Minimum Cross-Sectional Area (mm				
Model	HFL-2P-FL HFL-2S-FL	HFL-3P-FL HFL-3S-FL	HFL-4P-FL HFL-4S-FL	
Minimum cross-sectional area	32	53	91	

Suitability for Vacuum	1.3×10 <sup>-1</sup> Pa {1×10 <sup>-3</sup> mmHg}		
Socket only	Plug only	When connected	
_	_	Operational	

## Flow Rate – Pressure Loss Characteristics



## NITTO KOHKI CO., LTD.

#### **Head Office**

2-9-4, Nakaikegami, Ota-ku, Tokyo 146-8555, Japan Tel: +81-3-3755-1111 Fax: +81-3-3753-8791

E-mail: overseas@nitto-kohki.co.jp



Web www.nitto-kohki.co.jp/e/