



# FFP SERIES

## CONNECT UNDER PRESSURE FLAT FACE MALE COUPLERS

AKJia's FFP Series male couplers are designed to connect under pressure by hand with up to 350 bar locked in the male half, making it an ideal choice for applications where the ability to connect under pressure is essential. The FFP Series also benefits from all the key features of the FF Series flat face couplers.

## Series FFP // Carbon Steel

<b>Material</b>	Carbon Steel
<b>Surface Finishing</b>	Zinc-Nickel, Zinc-Plating
<b>Standard Seal Material(s)</b>	NBR (Buna-N®), PTFE, <sup>2</sup>
<b>Working Temperature</b>	-25° C ... +100° C / -13° F ... +212° F
<b>Valve Design</b>	Flat Face
<b>Connection</b>	Push
<b>Disconnection</b>	Actuate Push Sleeve
<b>Connect Under Pressure</b>	allowed
<b>Application</b>	Hot environments where thermal expansion of trapped oil may take place, Hammer circuits, High pressure pulse applications, Construction plant, mobile equipment, general industrial
<b>ISO Interchange</b>	ISO 16028

<sup>2</sup> Alternative seal materials are available on request.

## Features

- Designed to connect with the FF Series female half
- Push to connect operation
- Standard sleeve lock guards against accidental disconnection
- Flat faces are easily wiped clean
- Flat face design prevents fluid loss during disconnection
- Allows for minimal inclusion of air and contaminants during connection
- Connect under pressure with up to 350 bar locked in the male half
- Female half (FF Series) must have zero pressure when connecting male half under pressure

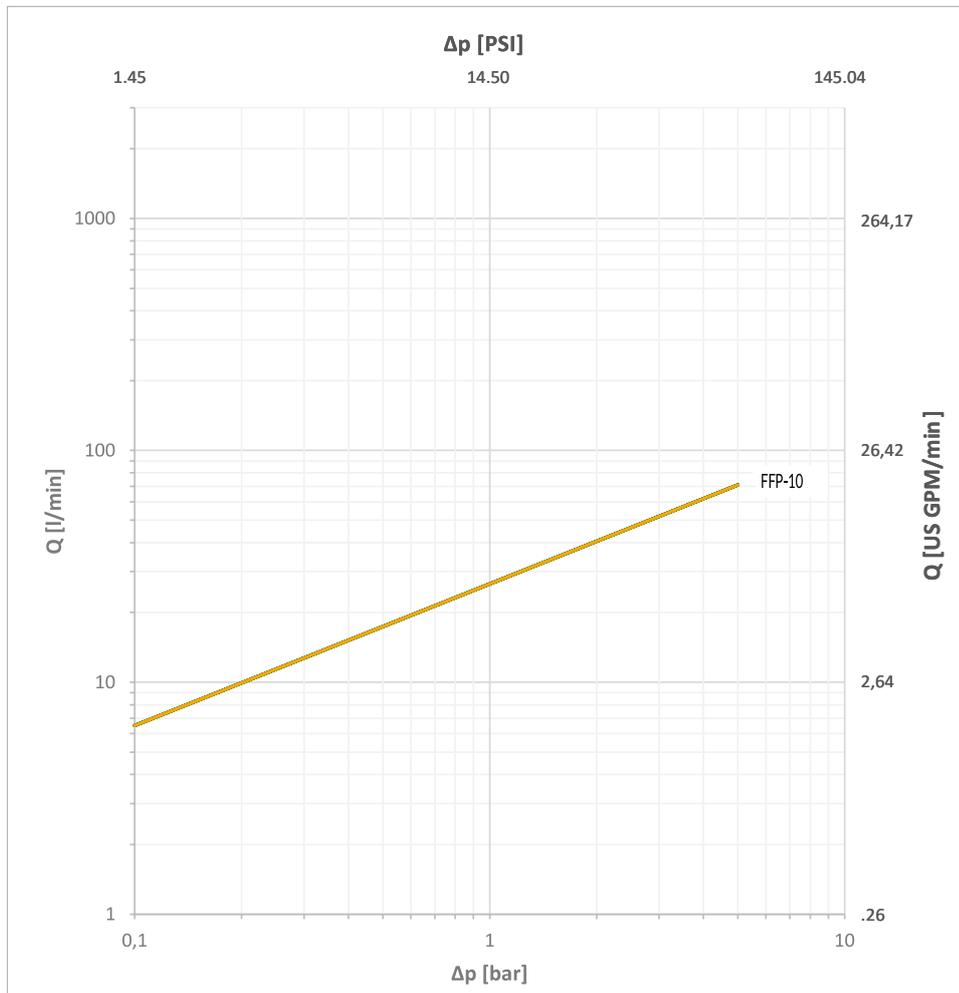
## Applications

- Hot environments where thermal expansion of trapped oil may take place
- Hammer circuits
- High pressure pulse applications
- Leak free environments
- Construction plant
- mobile equipment
- general industrial
- nuclear
- mining

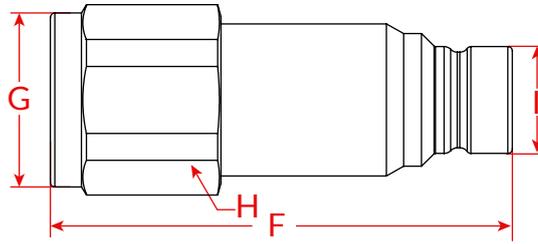
# Technical Data

Series	DN Inch	DN Metric	Q <sub>max</sub>		Working Pressure		bursting puresure coupled		female body		male tip		spillage ml
			l/min	US GPM	bar	psi	bar	psi	bar	psi	bar	psi	
FF-10	3/8"	10	80	21.13	350	5076	1500	21756	1050	15229	1100	15954	0.015
FF-12	1/2"	12,5	120	31.70	350	5076	1200	17404	1000	14504	1050	15229	0.02
FF-19	3/4"	19	180	47.55	350	5076	1450	21030	1050	15229	1050	15229	0.032

# Flow Characteristics



## Dimensions



Series	Size	Thread	Overall Length	M Length	O.D	Hex	O.D	Weight(g)
			A	F	G	H	I	
FFP-06	1/4"	1/4"	95.2	48	24	22	16.1	96
FFP-10	3/8"	3/8"	113.9	61.5	26	24	19.7	156
FFP-12	3/8"	1/2"	120.9	61.5	29	27	19.7	159

Dimensions in mm

Dimensions and weights are based on NPT internal threads. For data on other threads, please contact us. Or view data on specific products on our website.

FFP Series connect under pressure flat face quick couplings can be found in some brand equipments, like bobcat. They are interchangeable with fast 3FFH series. They usually work with flat face female couplers, for example our FF Series. Some users will search the replacement by the OEM number like Bobcat 7246777, it is a 1/2" size 3/4" SAE thread FFP-12 Coupler. For information, pls contact us.

## Code Rules

FFP - 10 F NPT3/8

①
②
③
④

- ① Series - FFP
- ② Body Size, 06 = 1/4", 10 = 3/8", 12 = 1/2"
- ③ Part, M = Male Nipple
- ④ Thread Type and Size, NPT3/8, G3/8, SAE3/4 etc.

## Dust Caps



Size	Male Tip
1/4"	DC-FF-06 M
3/8"	DC-FF-10 M
1/2"	DC-FF-12 M

The FFP Series also complies with ISO 16028, so the dust caps are the same as the FF Series, and the FFP is the male coupler, you can find the male dust caps above.