

FF SERIES

FLAT FACE COUPLERS MADE TO THE ISO 16028 STANDARD

The FF Series flat face couplers are AKJia's flagship products, known globally for their leak free performance in high pressure pulse, hammer circuits and many other applications. The flush valves eliminate spillage and air inclusion when connecting and disconnecting. Coupler and nipple bodies have a modular design with increased flexibility for end port options.

Series FF //Carbon Steel

Material	Carbon Steel
Surface Finishing	Zinc-Nickel, Zinc-Plating
Standard Seal Material(s)	NBR (Buna-N®), PTFE,²
Working Temperature	-25° C +100° C / -13° F +212° F
Valve Design	Flat Face
Connection	Push
Disconnection	Actuate Push Sleeve
Connect Under Pressure	not allowed
Application	Hammer circuits, High pressure pulse applications, Construction plant, mobile equipment, general industrial
ISO Interchange	ISO 16028

² Alternative seal materials are available on request.

Features

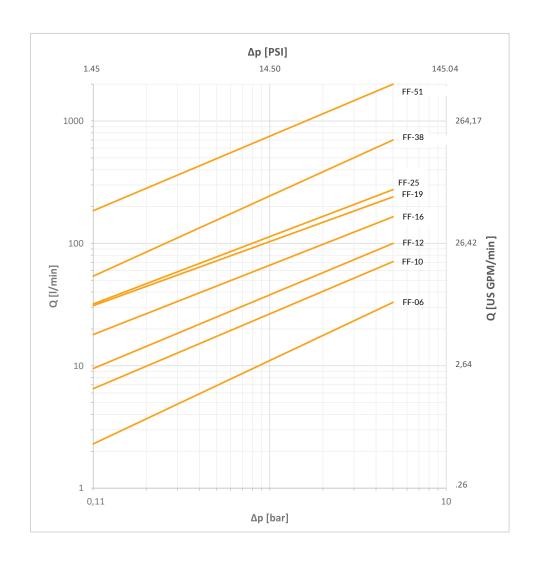
- Flush, non-spill valving
- Push to connect operation
- Global interchangeability with other ISO 16028 compliant couplings
- Standard sleeve lock guards against accidental disconnection
- Flat faces are easily wiped clean
- Flat face design prevents fluid loss during disconnection

Applications

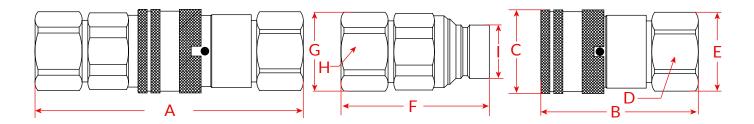
- Hammer circuits
- High pressure pulse applications
- Leak free environments
- Construction plant
- mobile equipment
- general industrial
- nuclear
- mining
- agricultural industries
- oil and gas industries
- Skid loader attachments
- portable car lift
- hydraulic tools

DN Series Inch		DN Metric	Q _{max}		Working Pressure		bursting puresure coupled		female body		male tip		spillage
			I/min	US GPM	bar	psi	bar	psi	bar	psi	bar	psi	ml
FF-06	1/4"	6,3	40	10.57	400	5801	1700	24656	1220	17695	1500	21756	0.01
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-16	5/8"	16	140	36.98	350	5076	1200	17404	1100	15954	1100	15954	0.02
FF-19	3/4"	19	180	47.55	350	5076	1450	21030	1050	15229	1050	15229	0.032
FF-25	1″	25	260	68.68	260	3771	800	<u>11603</u>	800	11603	800	<u>11603</u>	0.03
FF-31	11/4"	31,5	600	158.50	300	4351	1000	14504	1000	14504	1000	14504	0.1
FF-38	11/2"	38	1000	264.17	150	2176	650	9427	650	9427	700	10153	0.1
FF-51	2"	51	2350	620.80	150	2176	650	9427					

Flow Characteristics



Dimensions



Series Size Thre	Size	Thread	Overall Length	F Length	O.D	Hex	O.D	M Length	O.D	Hex	O.D	Weight (g)	
				С	D	Е	F	G	Н	I	Female	Male	
FF-06	1/4"	1/4"	95.2	58.2	28	22	24	48	24	22	16.1	181	96
FF-10	3/8"	3/8"	113.9	68.1	32	27	29	61.5	26	24	19.7	256	156
FF-10	3/8"	1/2"	120.9	73.3	32	27	29	61.5	29	27	19.7	259	159
FF-12	1/2"	1/2"	125.3	75.1	38	32	34	68	34	32	24.5	408	305
FF-12	1/2"	3/4"	136.3	81.1	38	36	38	73	38	36	24.5	451	314
FF-16	5/8"	3/4"	132.9	79.9	42	36	38	70.5	38	36	27	460	320
FF-19	3/4"	1"	163.1	99.2	48	41	44	85.5	44	41	30	850	478
FF-25	1"	11/4"	178	111.5	56	55	58	90	58	55	36	1139	648
FF-31	11/4"	1 1/2"	233.4	150	79.5	65	68	112	68	65	57	2370	1117
FF-38	1 1/2"	2"	251.7	167	98.5	85	88	123.9	78	75	73	2700	1800

Dimensions in mm, O.D(I) can help users identify the size of the quick connector. You can compare it with the ISO16028 standard document to help users identify.

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.

Code Rules

- Series FF
- 2 Body Size, 06 = 1/4", 10= 3/8", 12 = 1/2", 16 = 5/8", 19 = 3/4", 25 = 1" 31 = 1 1/4", 38 = 1 1/2", 51 = 2"
- Part, F = Female Coupler, M = Male Nipple, Blank = Set(Female+Male)
- 4 Thread Type and Size, NPT1/2, JIC3/8, G1/2...etc

Dust Caps



Size	Female Body	Male Tip	Size	Female Body	Male Tip
1/4"	DC-FF-06 F	DC-FF-06 M	1"	DC-FF-25 F	DC-FF-25 M
3/8"	DC-FF-10 F	DC-FF-10 M	11/4"	DC-FF-31 F	DC-FF-31 M
1/2"	DC-FF-12 F	DC-FF-12 M	1 1/2"	DC-FF-38 F	DC-FF-38 M
3/4"	DC-FF-19 F	DC-FF-19 M	2"	DC-FF-51 F	DC-FF-51 M

The male coupler dust cap of the flat face quick coupling can be applied to any brand of quick couplings with corresponding interchangeable sizes couplings. The dimensions are 100% compatible. However, the outer diameter of the female coupler dust cap of the flat quick connector may be slightly different. It is more reasonable to purchase a matching dust cap when purchasing a quick coupling. If you purchase a dust cap separately, you need to pay attention to the outer diameter.