



# FFS SERIES

## FLAT FACE COUPLERS MADE TO THE ISO 16028 STANDARD

AKJia's FFS Series stainless steel flat face couplers incorporate all the benefits of the carbon steel FF Series couplers, while being perfectly suited for corrosive fluids and environments. The FFS Series dry disconnect couplings are ideal for closed system transfer and dispensing of chemicals and other fluids. The flush valves eliminate spillage and air inclusion when connecting and disconnecting to result in minimal environmental contamination.

## Series FFS //Stainless Steel

<b>Material</b>	Stainless Steel
<b>Surface Finishing</b>	No plating required
<b>Standard Seal Material(s)</b>	FKM <sup>2</sup>
<b>Working Temperature</b>	-20° C ... +200° C / -4° F ... +392° F
<b>Valve Design</b>	Flat Face
<b>Connection</b>	Push
<b>Disconnection</b>	Actuate Push Sleeve
<b>Connect Under Pressure</b>	not allowed
<b>Application</b>	Corrosive fluids and environments, Marine, Oil and gas, Chemical, Pharmaceutical, Nuclear
<b>ISO Interchange</b>	ISO 16028

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

## Features

- Flush, non-spill valves enable ease of cleaning
- Corrosive fluids and environments
- 304 or 316 stainless steel material for chemical compatibility
- 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

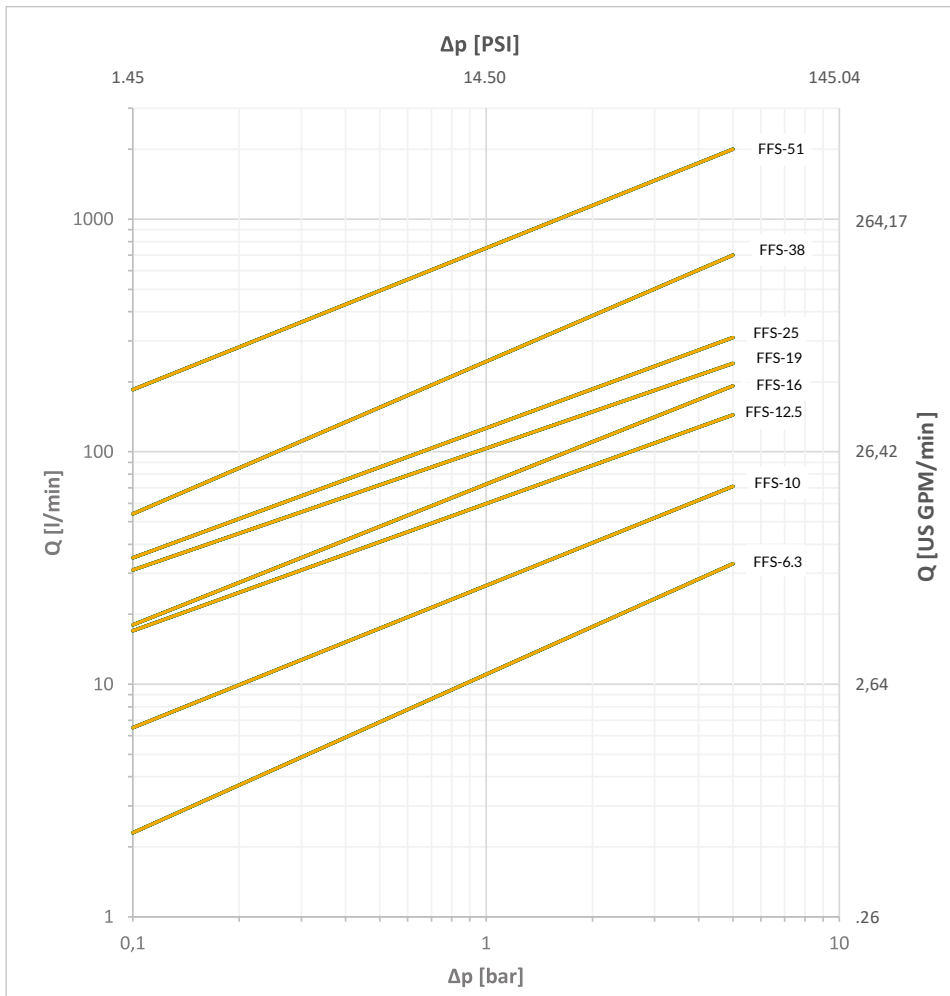
## Applications

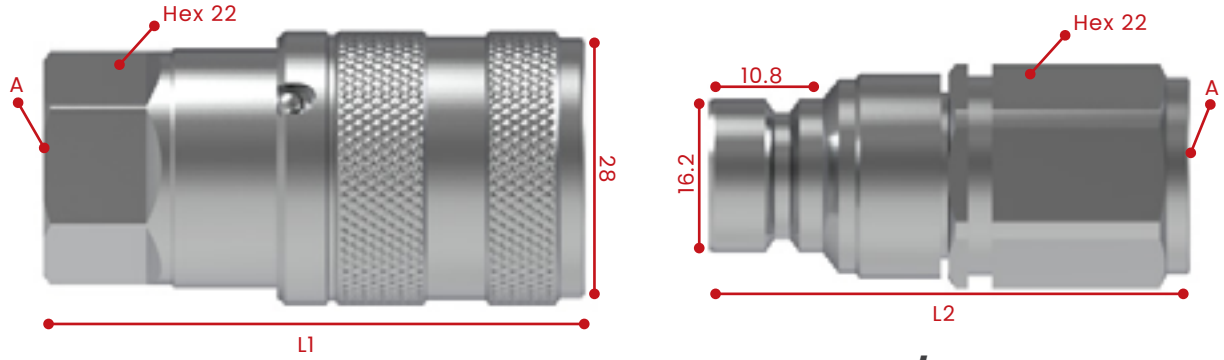
- Corrosive fluids and environments
- Marine
- Oil and gas
- Chemical
- Pharmaceutical
- Nuclear

# Technical Data

Series	DN Inch	DN Metric	Q <sub>max</sub>		Working Pressure		bursting pressure coupled		female body		male tip		spillage ml
			l/min	US GPM	bar	psi	bar	psi	bar	psi	bar	psi	
FFS-06	1/4"	6,3	40	10.57	350	5076	1400	20305	1400	20305	1400	20305	0.01
FFS-10	3/8"	10	80	21.13	250	3625	1000	14503	1000	14503	1000	14503	0.015
FFS-12	1/2"	12,5	120	31.70	250	3625	1000	14503	1000	14503	1000	14503	0.02
FFS-16	5/8"	16	140	36.98	250	3625	1000	14503	1000	14503	1000	14503	0.02
FFS-19	3/4"	19	180	47.55	200	2900	900	13053	900	13053	900	13053	0.032
FFS-25	1"	25	260	68.68	200	2900	800	11603	800	11603	800	11603	0.03
FFS-31	1 1/4"	31,5	600	158.50	200	2900	800	11603	800	11603	800	11603	0.1
FFS-38	1 1/2"	38	1000	264.17	150	2176	650	9427	650	9427	650	9427	0.1
FFS-51	2"	51	2350	620.80	150	2176	650	9427	650	9427	650	9427	

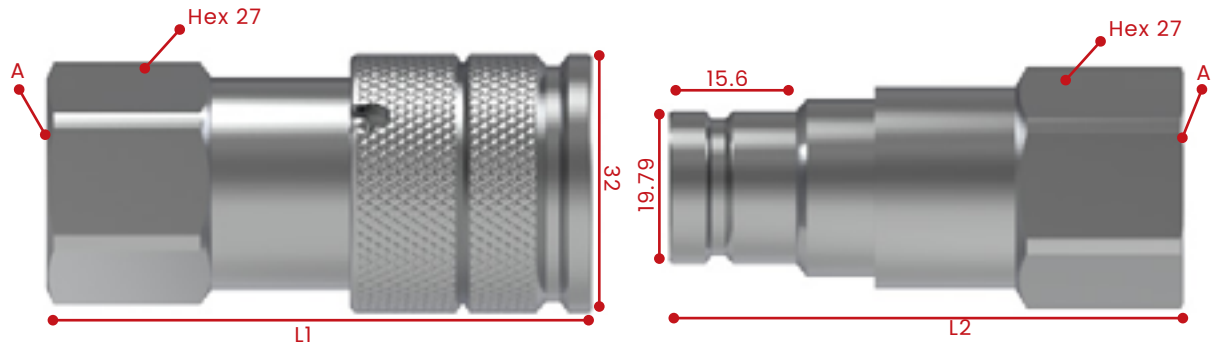
# Flow Characteristics





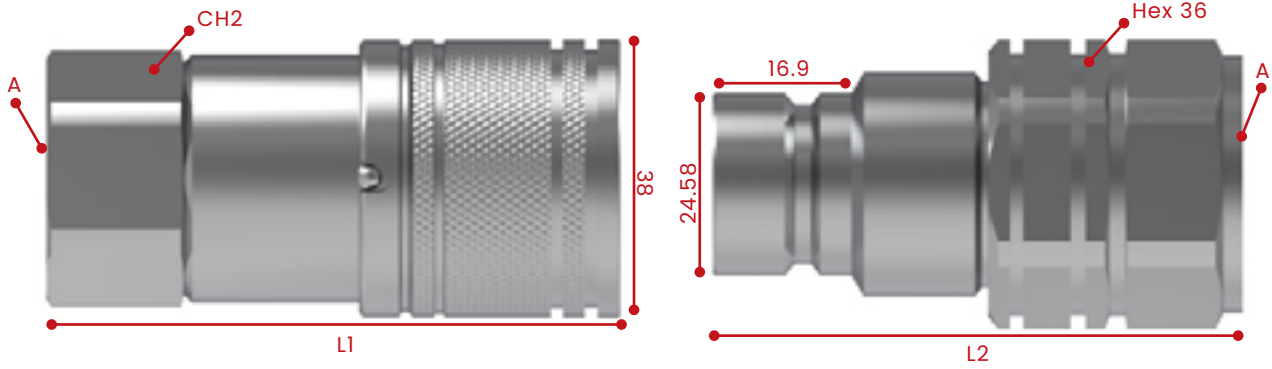
**Series FFS - 06 / Nominal Size 6,3**

	Port A	Dimensions				Female Body	Weight(g)	Male Tip	Weight(g)
		L1	L2	L3	L4				
Female Thread According to DIN3852 - ANSI B 1.20.3 - SAE J1926-1									
	G 1/4"	58.5	52		12	FFS-06 F G1/4	181	FFS-06 M G1/4	96
	NPT 1/4"-18	58.5	52			FFS-06 F NPT1/4	181	FFS-06 M NPT1/4	96
	UNF 9/16-18	58.5	52		12.8	FFS-06 F U1/4	182	FFS-06 M U1/4	97



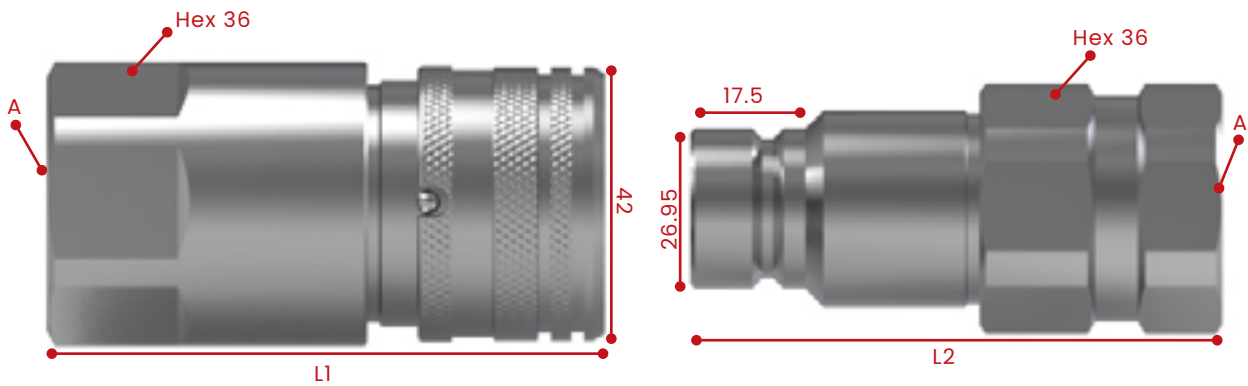
**Series FFS - 10 / Nominal Size 10**

	Port A	Dimensions				Female Body	Weight(g)	Male Tip	Weight(g)
		L1	L2	L3	L4				
Female Thread According to DIN3852 - ANSI B 1.20.3 - SAE J1926-1									
	G 3/8"	67.3	63.5		14.2	FFS-10 F G3/8	256	FFS-10 M G3/8	156
	G 1/2"	67.3	63.5		14.2	FFS-10 F G1/2	259	FFS-10 M G1/2	159
	NPT 3/8"-18	72.3	67.5			FFS-10 F NPT3/8	253	FFS-10 M NPT3/8	151
	NPT 1/2"-14	72.3	67.5			FFS-10 F NPT1/2	256	FFS-10 M NPT1/2	154



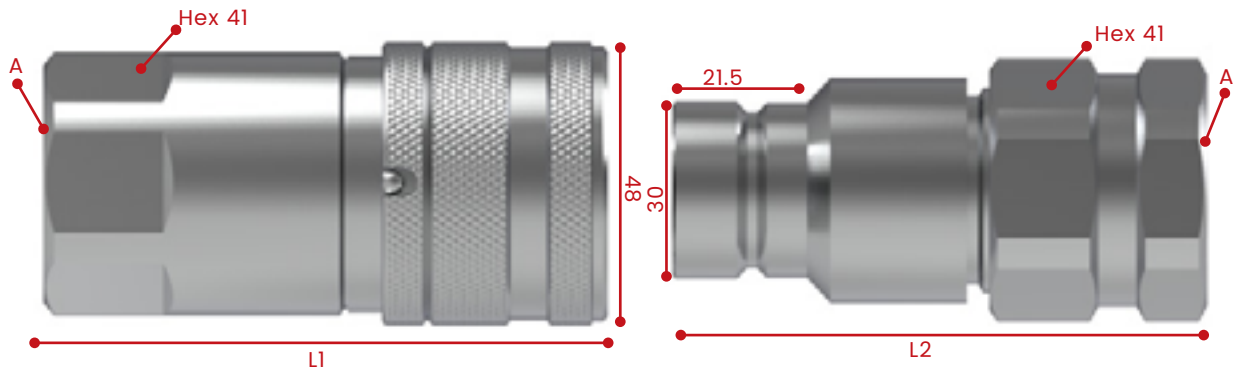
**Series FFS - 12 / Nominal Size 12,5**

	Port A	Dimensions					Female Body	Weight(g)	Male Tip	Weight(g)
		CH2	L1	L2	L3	L4				
Female Thread According to DIN3852 - ANSI B 1.20.3 - SAE J1926-1										
	G 1/2"	32	78.5	72.5		14	FFS-12 F G1/2	413	FFS-12 F G1/2	305
	NPT 1/2"-14	32	84	74			FFS-12 F NPT1/2	408	FFS-12 F NPT1/2	314
	G 3/4"	36	84	74.5		18	FFS-12 F G3/4	445	FFS-12 F G3/4	282
	NPT 3/4"-14	36	84	74			FFS-12 F NPT3/4	451	FFS-12 F NPT3/4	290



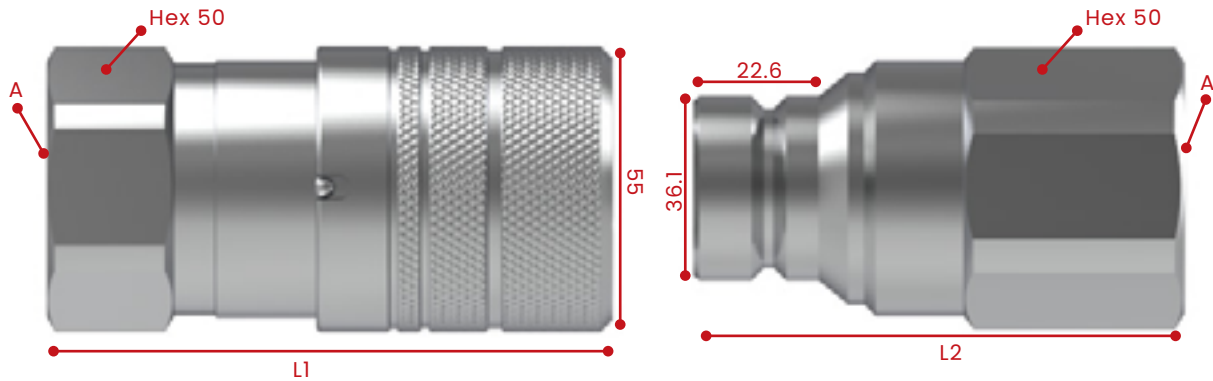
**Series FFS - 16 / Nominal Size 16**

	Port A	Dimensions				Female Body	Weight(g)	Male Tip	Weight(g)	
		L1	L2	L3	L4					
Female Thread According to DIN3852 - ANSI B 1.20.3 - SAE J1926-1										
	G 3/4"		86	83		16	FFS-16 F G3/4	557	FFS-16 M G3/4	360
	NPT 3/4"-14		86	83		36	FFS-16 F NPT3/4	566	FFS-16 M NPT3/4	370



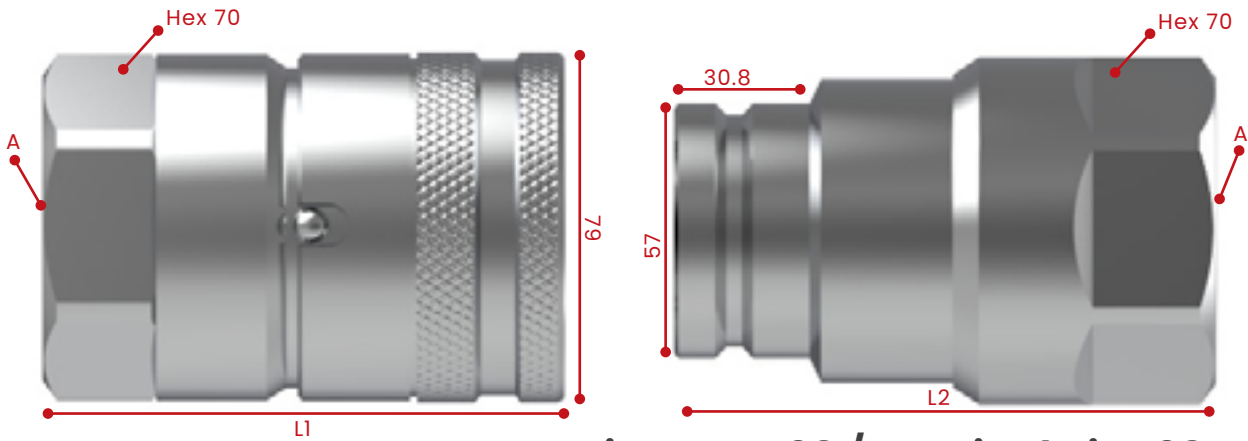
**Series FFS - 19 / Nominal Size 19**

	Port A	Dimensions				Female Body	Weight(g)	Male Tip	Weight(g)
		L1	L2	L3	L4				
Female Thread According to DIN3852 - ANSI B 1.20.3 - SAE J1926-1									
	G 3/4"	95.5	90.5	16	FFS-19 F G34	850	FFS-19 M G34	496	
	G 1"	97.5	90.5	18	FFS-19 F G1	803	FFS-19 M G1	451	
	NPT 3/4"-14	95.5	90.5		FFS-19 F NPT3/4	855	FFS-19 M NPT3/4	503	
	NPT 1"-11 1/2	97.5	9.35		FFS-19 F NPT1	814	FFS-19 M NPT1	480	
	UN 1" 5/16-12	95	93.5	19	FFS-19 F UI6	794	FFS-19 M UI6	431	



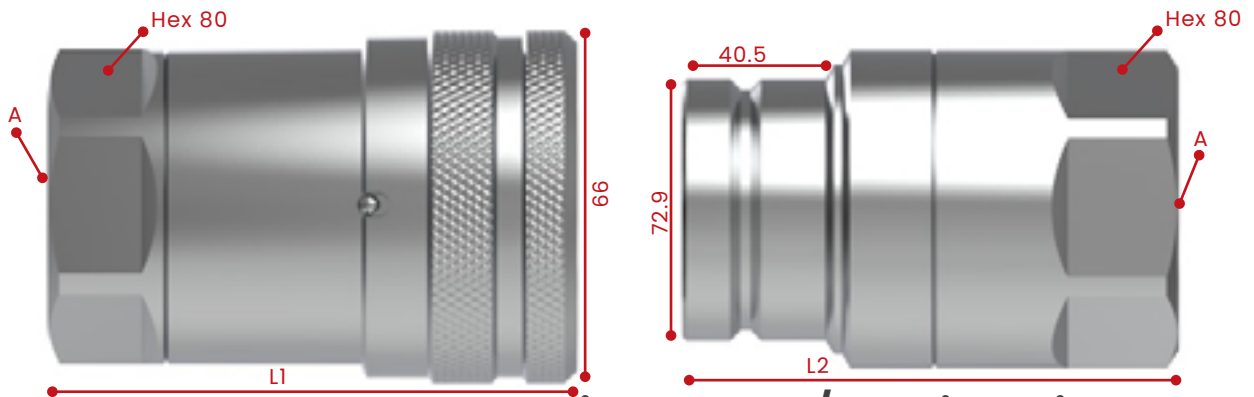
**Series FFS - 25 / Nominal Size 25**

	Port A	Dimensions				Female Body	Weight(g)	Male Tip	Weight(g)
		L1	L2	L3	L4				
Female Thread According to DIN3852 - ANSI B 1.20.3 - SAE J1926-1									
	G 1"	109.3	95		FFS-25 F G1	1275	FF-25 M G1	820	
	NPT1"	109.3	95		FFS-25 F NPT1	1295	FFS-25 M NPT1	831	
	G 1" 1/4	109.3	95		FFS-25 F G1 1/4	1164	FFS-25 M G1 1/4	744	
	NPT 1" 1/4	109.3	95		FFS-25 F NPT1 1/4	1175	FFS-25 M NPT1 1/4	757	



**Series FFS - 38 / Nominal Size 38**

	Port A	Dimensions				Female Body	Weight(g)	Male Tip	Weight(g)
		L1	L2	L3	L4				
Female Thread According to DIN3852 - ANSI B 1.20.3 - SAE J1926-1									
	G 1" 1/2	118	122.5		23	FFS-38 F G1 1/2	2844	FFS-38 M G1 1/2	2134
	NPT 1" 1/2	118	122.5			FFS-38 F NPT1 1/2	2859	FFS-38 M NPT1 1/2	2149



**Series FFS - 51 / Nominal Size 51**

	Port A	Dimensions				Female Body	Weight(g)	Male Tip	Weight(g)
		L1	L2	L3	L4				
Female Thread According to DIN3852 - ANSI B 1.20.3 - SAE J1926-1									
	G 2"	149	139.6		24	FFS-51 F G2	4790	FFS-51 M G2	3200
	NPT 2"	149	139.6			FFS-51 F NPT2	4650	FFS-51 M NPT2	3100