



Flat Face: 316 Stainless Steel

Series: FL Series 316 Stainless Steel

Interchange: ISO 16028

The FL variation of the FIRG series is the Stucchi solution for high corrosion applications. The resistance to corrosion and excellent fatigue life make this product ideal for applications in the chemical, pharmaceutical, food and offshore industries. The interchangeability of FL series couplings is in accordance with ISO 16028.

Overview

The FL couplings are manufactured in stainless steel AISI 316; standard seals are Viton/Fluorocarbon with the option of other seal materials upon request for use with various fluids and operating temperatures. The features of flat face couplings in stainless steel to eliminate leakage during connection/disconnection reduce contamination in the circuit, and offer optimal resistance to corrosion, making the FL series ideal for applications such as: offshore, marine, industrial equipment, chemical, pharmaceutical and food processing.

Features & Options

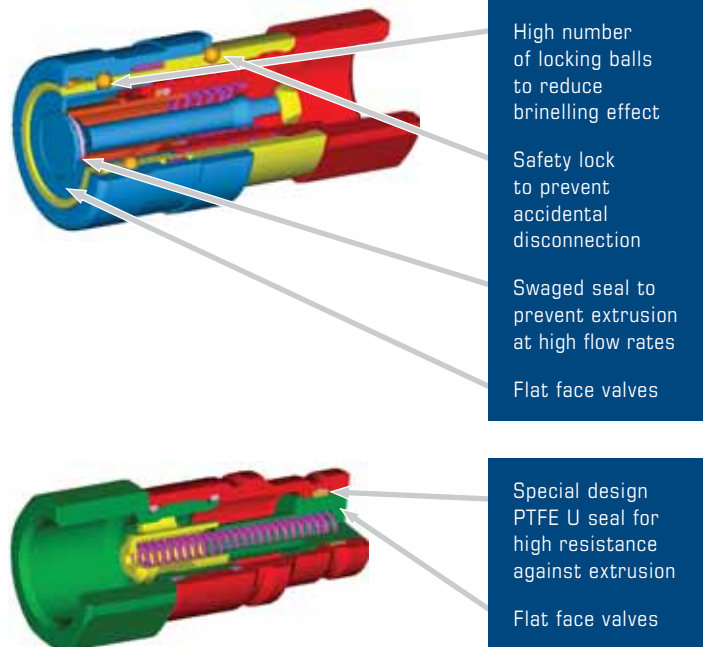
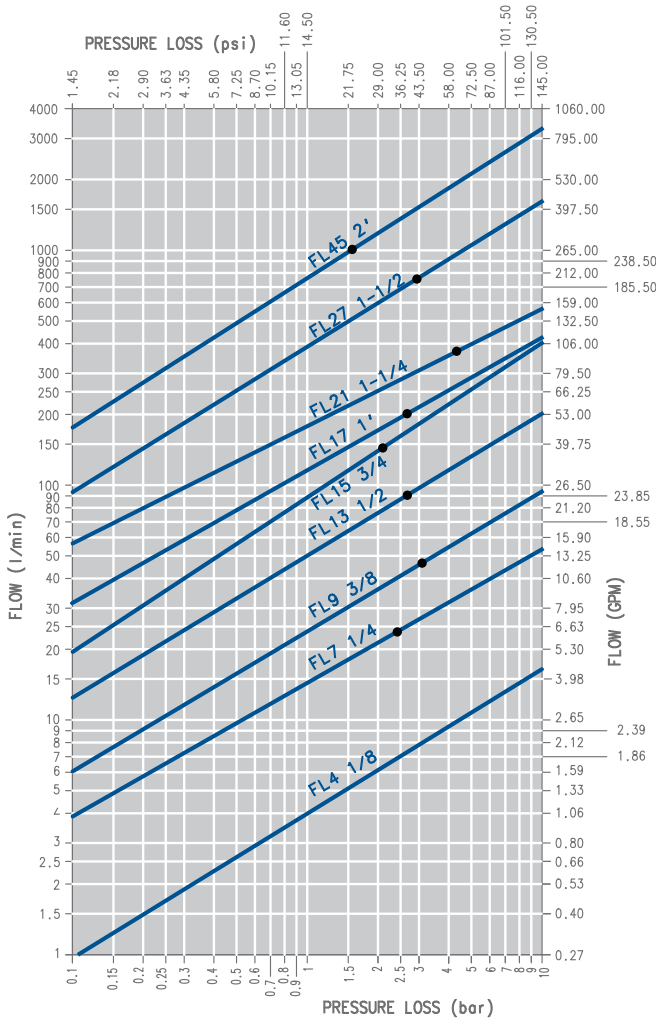
- No air inclusion during connection
- Flat face can easily be cleaned limiting contamination into system
- Non-spill design eliminates leaks
- Minimal pressure drop design



ISO 16028 Interchange Couplings 316 Stainless Steel

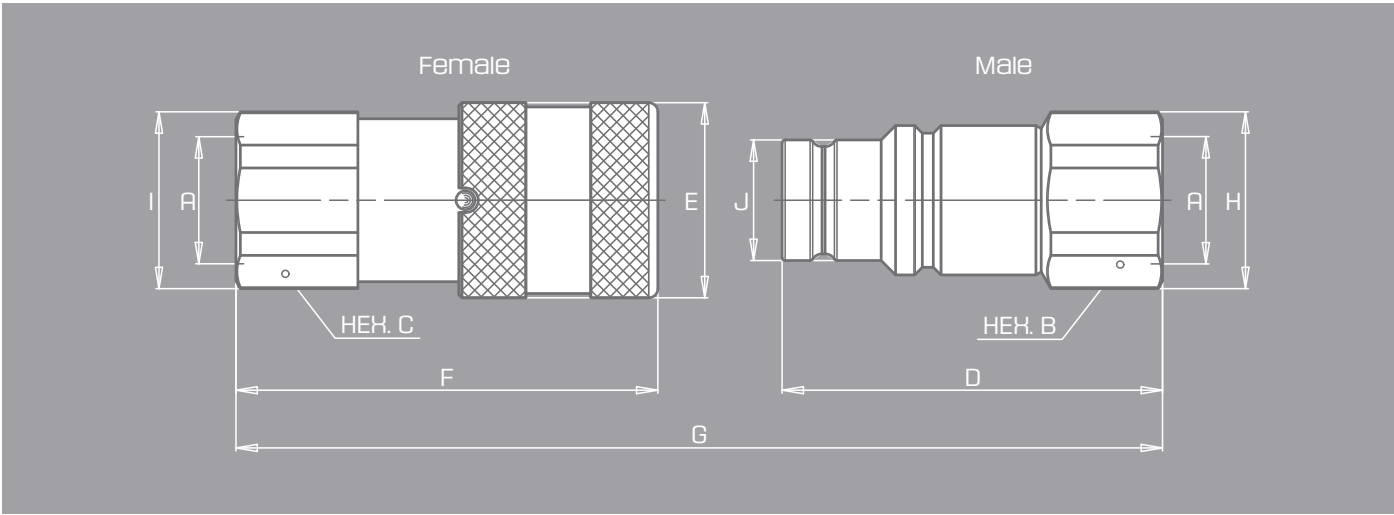
DESCRIPTION	SIZE	ISO SIZE	MAX OPERATING PRESSURE						BURST PRESSURE						SPILLAGE*
			COUPLED		MALE		FEMALE		COUPLED		MALE		FEMALE		
			MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	
FL4	1/8	-	35	5075	35	5075	33	4785	140	20300	140	20300	120	17400	0.005
FL7	1/4	6.3	35	5075	35	5075	12	1740	140	20300	120	17400	48	6960	0.006
FL9	3/8	10.0	35	5075	35	5075	15	2175	140	20300	120	17400	60	8700	0.012
FL13	1/2	12.5	35	5075	35	5075	15	2175	120	17400	110	15950	60	8700	0.020
FL15	5/8	16.0	35	5075	30	4350	12	1740	120	17400	100	14500	48	6960	0.026
FL17	3/4	19.0	33	4785	28	4060	12	1740	100	14500	80	11600	48	6960	0.032
FL21	1	25.0	28	4060	28	4060	12	1740	90	13050	80	11600	48	6960	0.035
FL27	1 1/2	-	23	3335	23	3335	8	1160	80	11600	70	10150	32	4640	0.050
FL45	2	-	15	2175	15	2175	7	1015	60	8700	60	8700	28	4060	0.100

* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE





Flat Face: 316 Stainless Steel Series Size Diagram



DESCRIPTION	BODY SIZE	A	UNIT	B	C	D	E	F	G	H	I	J	UNIT	WEIGHT	
														MALE	FEMALE
FL4 1/8	1/8	1/8	mm	17.0	19.0	36.3	20.0	40.0	68.4	18.5	20.5	11.6	Kg	0.037	0.074
			inch	0.67	0.75	1.43	0.79	1.57	2.69	0.73	0.81	0.46	lb	0.08	0.16
FL7 1/4	1/4	1/4	mm	22.0	22.0	49.4	28.0	48.3	86.7	23.8	23.8	16.1	Kg	0.098	0.142
			inch	0.87	0.87	1.94	1.10	1.90	3.41	0.94	0.94	0.63	lb	0.22	0.31
FL9 3/8	3/8	3/8	mm	24.0	27.0	59.9	32.0	64.2	108.6	26.0	29.0	19.7	Kg	0.124	0.245
			inch	0.94	1.06	2.36	1.26	2.53	4.28	1.02	1.14	0.78	lb	0.27	0.54
FL9 1/2	3/8	1/2	mm	27.0	27.0	62.4	32.0	69.2	116.1	29.0	29.0	19.7	Kg	0.120	0.242
			inch	1.06	1.06	2.46	1.26	2.72	4.57	1.14	1.14	0.78	lb	0.26	0.53
FL13 1/2	1/2	1/2	mm	32.0	32.0	70.5	38.0	73.8	127.0	33.8	33.8	24.5	Kg	0.259	0.378
			inch	1.26	1.26	2.78	1.50	2.91	5.00	1.33	1.33	0.96	lb	0.57	0.83
FL13 3/4	1/2	3/4	mm	36.0	36.0	70.5	38.0	80.8	134.0	38.5	38.5	24.5	Kg	0.255	0.375
			inch	1.42	1.42	2.78	1.50	3.18	5.28	1.52	1.52	0.96	lb	0.56	0.83
FL15 3/4	5/8	3/4	mm	36.0	36.0	70.5	42.0	80.9	133.8	38.5	38.5	27.0	Kg	0.282	0.492
			inch	1.42	1.42	2.78	1.65	3.19	5.27	1.52	1.52	1.06	lb	0.62	1.08
FL17 1	3/4	1	mm	46.0	46.0	82.2	48.0	92.9	153.3	49.5	49.5	30.0	Kg	0.432	0.795
			inch	1.81	1.81	3.24	1.89	3.66	6.04	1.95	1.95	1.18	lb	0.95	1.75
FL21 1 1/4	1	1 1/4	mm	55.0	55.0	90.0	55.0	106.2	173.0	59.8	59.8	36.0	Kg	0.672	1.226
			inch	2.17	2.17	3.54	2.17	4.18	6.81	2.35	2.35	1.42	lb	1.48	2.70
FL27 1 1/2	1 1/2	1 1/2	mm	70.0	65.0	111.0	80.0	132.4	214.8	76.0	72.0	57.0	Kg	1.890	2.908
			inch	2.76	2.56	4.37	3.15	5.21	8.46	2.99	2.83	2.24	lb	4.17	6.41
FL45 2	2	2	mm	75.0	80.0	123.8	100.0	156.6	241.5	83.5	88.5	73.0	Kg	2.290	5.230
			inch	2.95	3.15	4.87	3.94	6.17	9.51	3.29	3.48	2.87	lb	5.05	11.53

ISO 16028 Interchange Couplings 316 Stainless Steel



COUPLER



NIPPLE

FL 316 NPT, SAE Thread_Stainless Steel | ISO 16028

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	PART DESCRIPTION
FL NPT THREAD					
COUPLER	1/8	1/8	NPT	802401118	F. FL4 1/8 NPT
NIPPLE	1/8	1/8	NPT	802401119	M. FL4 1/8 NPT
COUPLER	1/4	1/4	NPT	802401100	F. FL7 1/4 NPT
NIPPLE	1/4	1/4	NPT	802401101	M. FL7 1/4 NPT
COUPLER	3/8	3/8	NPT	802401102	F. FL9 3/8 NPT
NIPPLE	3/8	3/8	NPT	802401103	M. FL9 3/8 NPT
COUPLER	3/8	1/2	NPT	802401104	F. FL9 1/2 NPT
NIPPLE	3/8	1/2	NPT	802401105	M. FL9 1/2 NPT
COUPLER	1/2	1/2	NPT	802401106	F. FL13 1/2 NPT
NIPPLE	1/2	1/2	NPT	802401107	M. FL13 1/2 NPT
COUPLER	1/2	3/4	NPT	802401108	F. FL13 3/4 NPT
NIPPLE	1/2	3/4	NPT	802401109	M. FL13 3/4 NPT
COUPLER	5/8	3/4	NPT	802401110	F. FL15 3/4 NPT
NIPPLE	5/8	3/4	NPT	802401111	M. FL15 3/4 NPT
COUPLER	3/4	1	NPT	802401112	F. FL17 1 NPT
NIPPLE	3/4	1	NPT	802401113	M. FL17 1 NPT
COUPLER	1	1 1/4	NPT	802401114	F. FL21 1 1/4 NPT
NIPPLE	1	1 1/4	NPT	802401115	M. FL21 1 1/4 NPT
COUPLER	1 1/2	1 1/2	NPT	802401116	F. FL27 1 1/2 NPT
NIPPLE	1 1/2	1 1/2	NPT	802401117	M. FL27 1 1/2 NPT
COUPLER	2	2	NPT	802401120	F. FL45 2 NPT
NIPPLE	2	2	NPT	802401121	M. FL45 2 NPT
FL SAE THREAD					
COUPLER	1/8	3/16	SAE	802404100	F. FL4 3/16 SAE
NIPPLE	1/8	3/16	SAE	802404101	M. FL4 3/16 SAE
COUPLER	1/4	3/8	SAE	802404102	F. FL7 3/8 SAE
NIPPLE	1/4	3/8	SAE	802404103	M. FL7 3/8 SAE
COUPLER	3/8	1/2	SAE	802404104	F. FL9 1/2 SAE
NIPPLE	3/8	1/2	SAE	802404105	M. FL9 1/2 SAE
COUPLER	3/8	5/8	SAE	802404106	F. FL9 5/8 SAE
NIPPLE	3/8	5/8	SAE	802404107	M. FL9 5/8 SAE
COUPLER	1/2	5/8	SAE	802404108	F. FL13 5/8 SAE
NIPPLE	1/2	5/8	SAE	802404109	M. FL13 5/8 SAE
COUPLER	1/2	1/2	SAE	802404110	F. FL13 1/2 SAE
NIPPLE	1/2	1/2	SAE	802404111	M. FL13 1/2 SAE
COUPLER	1/2	3/4	SAE	802404112	F. FL13 3/4 SAE
NIPPLE	1/2	3/4	SAE	802404113	M. FL13 3/4 SAE
COUPLER	5/8	3/4	SAE	802404114	F. FL15 3/4 SAE
NIPPLE	5/8	3/4	SAE	802404115	M. FL15 3/4 SAE
COUPLER	3/4	1	SAE	802404116	F. FL17 1 SAE
NIPPLE	3/4	1	SAE	802404117	M. FL17 1 SAE
COUPLER	1	1 1/4	SAE	802404118	F. FL21 1 1/4 SAE
NIPPLE	1	1 1/4	SAE	802404119	M. FL21 1 1/4 SAE
COUPLER	1 1/2	1 1/2	SAE	802404120	F. FL27 1 1/2 SAE
NIPPLE	1 1/2	1 1/2	SAE	802404121	M. FL27 1 1/2 SAE
COUPLER	2	2	SAE	802404122	F. FL45 200 SAE
NIPPLE	2	2	SAE	802404123	M. FL45 200 SAE