

FL SERIES

STAINLESS STEEL

FLAT FACE COUPLINGS

INTRODUCTION

FL Series couplings have been designed for applications involving the transmission of corrosive fluids and/or operation in corrosive environments. One of the most important benefits of these couplings is no fluid spillage on disconnection. Holmbury flat face couplings have been produced since 1984. Over the years, extensive experience has been gained in the design, manufacture and application of these products. Consequently, Holmbury couplings have won design innovation awards and are widely regarded as the World's leading brand of flat face coupling.

APPLICATIONS

Holmbury FL Series Stainless Steel Couplings have a high resistance to corrosion and are suitable for use with many fluids which include: acids, gas, and demineralized water. They are the ideal choice for many industries such as marine, food, gas, chemical and pharmaceutical.

ADVANTAGES

- ★ Flat faces can easily be wiped clean before connection to prevent the ingress of contaminants into the circuit.
- ★ Clean disconnection - non-spill design.
- ★ No air intrusion during connection.
- ★ Streamlined flow path minimizes pressure drop.
- ★ Locking sleeve prevents accidental disconnection.
- ★ Bi-directional flow

MATERIALS

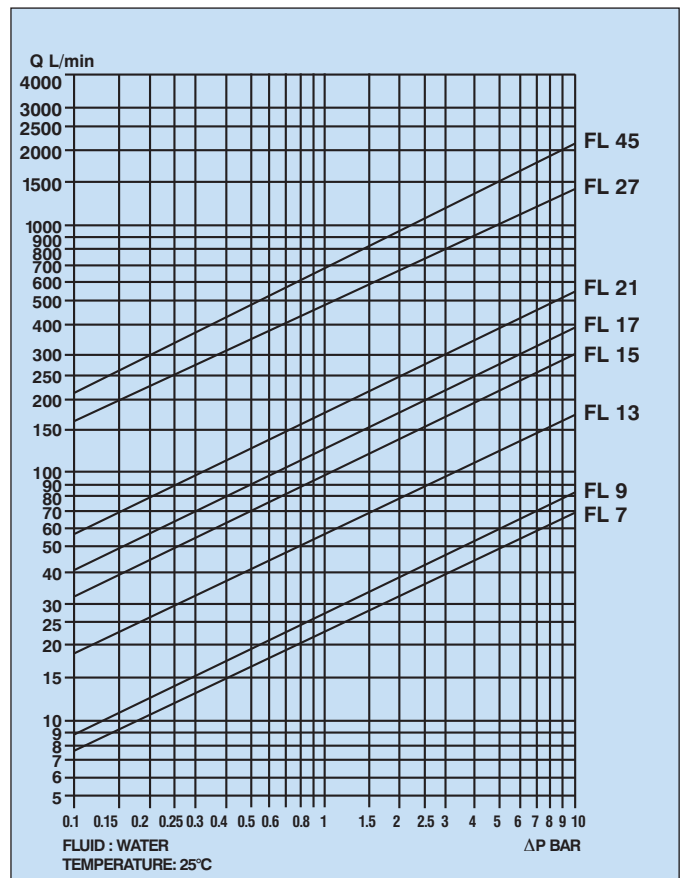
Body and structural components - AISI 316*
Spring guide in male coupling - brass
Springs - AISI 302
Locking balls - AISI 316
Seals - Viton and PTFE as standard, see Operating Temperature table for full listing.

* AISI 303 is available as a special option for large quantities, e.g. 100 or more units.

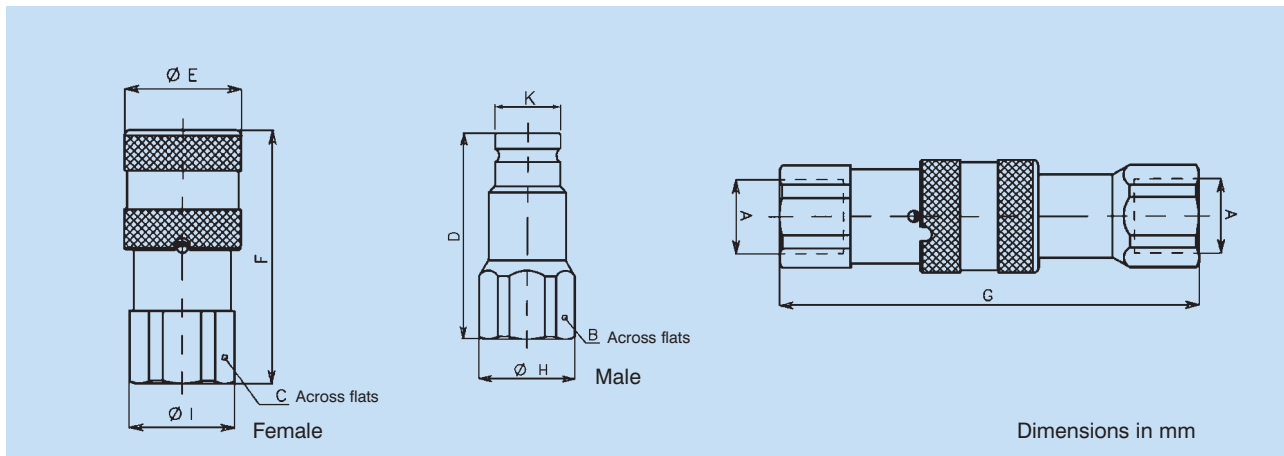
For operation on fluids other than water or standard mineral oil please contact the Holmbury Technical Office.



PRESSURE DROP CHARACTERISTICS



FL SERIES, FLAT FACE COUPLINGS



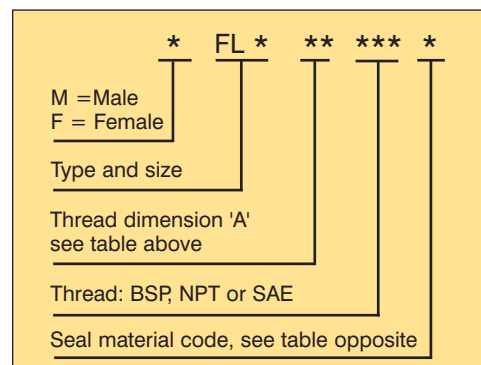
DIMENSIONS AND PRESSURE RATINGS

Type and size	Nominal diameter of hose in mm	Maximum working pressure (bar)	Burst pressure coupled (bar)	Burst pressure male (bar)	Burst pressure female (bar)	A	B	C	D	E	F	G	H	I	K	Connection force (N)	Weight (kg)
FL 7	7	200	800	1300	600	1/4"	22	22	48	28	48	85.5	24	24	16.2	179	0.20
FL 9	9	200	800	1250	800	3/8"	24	27	60	32	64.5	109	26	29	19.8	173	0.35
FL 9	9	200	800	1250	800	1/2"	27	27	62.5	32	69.5	116.5	29	29	19.8	173	0.35
FL 13	13	170	700	1000	700	1/2"	32	32	68	38	73.5	125	34	34	24.5	181	0.48
FL 13	13	170	700	1000	700	3/4"	36	36	70.5	38	80.5	134.5	38.5	38.5	24.5	181	0.48
FL 15	16	140	600	850	500	3/4"	36	36	70.5	42	78	132	38.5	38.5	27	195	0.5
FL 17	19	140	600	900	600	1"	45	45	82.5	48	92.5	154	48	48	30	244	1.0
FL 21	25	110	450	750	500	1 1/4"	55	55	90	55	105	173	60	60	36	304	1.5
FL 27	32	90	400	750	400	1 1/2"	70	65	111	80	132.5	215	75	72	57	427	4.5
FL 45	45	90	400	750	400	2"	75	80	125	100	165	250	83.5	88.5	73	450	7.0

OPERATING TEMPERATURE TABLE

Seal Material Code	Seal Material	Maximum temperature	Minimum temperature	Maximum pressure at max temperature
N	Nitrile	100°C	-20°C	140 bar
NEO	Neoprene	90°C	-40°C	80 bar
EP	EPDM	150°C	-40°C	140 bar
V	Viton	180°C	-15°C	140 bar
FS	Fluorosilicone	150°C	-50°C	140 bar
K	Kalrez	300°C	-25°C	80 bar

ORDER CODES



DUST CAPS - SEE PAGE 52

