

# F646L / F641L / F656L / F651L / F676L / F671L

Semi-Lugged Wafer Pattern Lever Operated Butterfly Valves

PN16 / ANSI 125



F646L

## Features & Benefits

- Universal Pattern - Valves are suitable for use with flanges conforming to BS EN 1092-2 PN16 or ANSI B16.1 Class 125
- Valve to BS EN593
- Ductile Iron, Stainless Steel, Aluminium Bronze Disc Options
- EPDM and Nitrile Seat Liner Options
- 420 Stainless Steel Shafts for superior strength

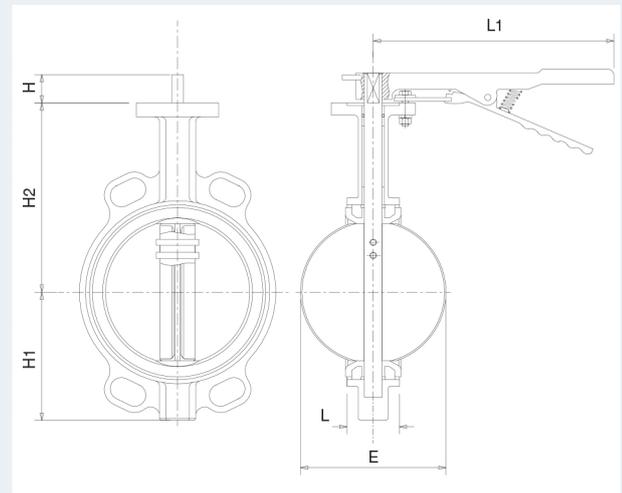
## Valve Selection

	EPDM LINER	NITRILE LINER
DUCTILE IRON DISC	F646L	F641L
STAINLESS STEEL DISC	F656L	F651L
ALUMINIUM BRONZE DISC	F676L	F671L

## Materials

PART	MATERIAL
Body	Ductile Iron (EN-GJS-400-15)
Disc (F646L & F641L)	Ductile Iron (EN-GJS-400-15) Epoxy coated
Disc (F656L & F651L)	Stainless Steel 304 (ASTM A351 CF8)
Disc (F676G & F671G)	Aluminium Bronze (ASTM B148 C95400)
Liner (F646L, F656L & F676L)	EPDM
Liner (F641L, F651L & F671L)	Nitrile Rubber
Shaft	Stainless Steel 420 (ASTM A276 420)
Taper Pin	Stainless Steel 431 (ASTM A276 431)
O-Ring	Nitrile Rubber
Bushing	PTFE
Lever & Screw	Malleable Iron ASTM Gr.32510
Stop Plate	Mild Steel (GB700 Q235) Chromium Plated

## Dimensional Drawing



## Dimensions & Weights

SIZE (mm)	WEIGHT (kg)	H2	H1	L	H	L1	OE	Kv
50	2.6	141	61	43	32	216	52.9	133
65	3.0	153	72	46	32	216	64.7	227
80	3.4	161	87	46	32	216	79.1	349
100	4.9	179	106	52	32	265	104.4	694
125	6.3	193	123	56	32	265	123.3	1181
150	7.3	204	137	56	32	265	155.6	1825
200	12.2	247	174	60	45	374	202.5	2503

## Pressure/Temperature Ratings

	F646L/F656L/F676L	F641L/F651L/F671L
TEMPERATURE (°C)	-10 to 120	-10 to 82
PRESSURE (BAR)	16	16

**PRESSURE RATING:** PN16 & ANSI Class 125

**END CONNECTION:** Semi-Lugged

**OPERATOR:** Trigger Lever

**OTHER:** Bare shaft options available  
(Fig No. F646B / F641B / F656B / F651B / F676B / F671B)  
Please contact us for bare shaft top works details

**SPECIFICATION:** End connections compatible with BS EN1092-2 PN16 & ANSI B16.1 Class 125 flanges.

**TEST PRESSURES:** (Hydrostatic)

**SHELL:** 24 bar

**SEAT:** 17.6 bar

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