

FA648G / FA644G / FA658G / FA654G / FA678G / FA674G

Fully Lugged Gearbox Operated Butterfly Valves

ANSI 125

FA648G



Features & Benefits

- Valves are suitable for use with flanges conforming to ANSI B16.1 Class 125
- Valve generally conforms to MSS SP 67
- Ductile Iron, Stainless Steel, Aluminium Bronze Disc Options
- EPDM and Nitrile Seat Liner Options
- 420 Stainless Steel Shafts for superior strength

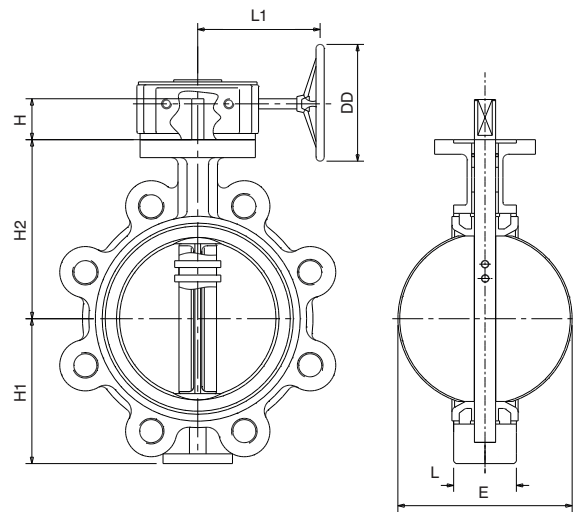
Valve Selection

| | EPDM LINER | NITRILE LINER |
|-----------------------|------------|---------------|
| DUCTILE IRON DISC | FA648G | FA644G |
| STAINLESS STEEL DISC | FA658G | FA654G |
| ALUMINIUM BRONZE DISC | FA678G | FA674G |

Materials

| PART | MATERIAL |
|---------------------------------|---|
| Body | Ductile Iron (EN-GJS-400-15) |
| Disc (FA648G & FA644G) (6"-24") | Ductile Iron (EN-GJS-400-15) Epoxy Coated |
| Disc (FA658G & FA654G) (6"-24") | Stainless Steel 304 (ASTM A351 CF8) |
| Disc (FA678G & FA674G) (2"-4") | Aluminium Bronze (ASTM B148 C95400) |
| Liner (FA648G, FA658G & FA678G) | EPDM |
| Liner (FA644G, FA654G & FA674G) | Nitrile rubber |
| Shaft | Stainless Steel 420 (ASTM A276 420) |
| Taper Pin | Stainless Steel 431 (ASTM A276 431) |
| O-Ring | Nitrile rubber |
| Bushing | PTFE |

Dimensional Drawing



Dimensions & Weights

| SIZE (inch) | WEIGHT (kg) | | H2 | H1 | L | H | L1 | ØE | DD | Kv |
|-------------|-------------|---------|-----|-------|-----|----|-----|-------|-----|-------|
| | BARESHAF | GEARBOX | | | | | | | | |
| 2 | 3.0 | 7.9 | 141 | 61 | 43 | 32 | 157 | 52.9 | 145 | 133 |
| 2.5 | 3.4 | 8.3 | 153 | 72 | 46 | 32 | 157 | 64.7 | 145 | 227 |
| 3 | 4.7 | 9.6 | 161 | 87 | 46 | 32 | 157 | 79.1 | 145 | 349 |
| 4 | 6.6 | 11.5 | 179 | 106 | 52 | 32 | 157 | 104.4 | 145 | 694 |
| 5 | 9.1 | 14.0 | 193 | 123 | 56 | 32 | 157 | 123.3 | 145 | 1181 |
| 6 | 10.0 | 14.9 | 204 | 137 | 56 | 32 | 157 | 155.6 | 145 | 1825 |
| 8 | 17.4 | 26.2 | 247 | 174 | 60 | 45 | 236 | 202.5 | 300 | 2503 |
| 10 | 25.0 | 34.0 | 280 | 209 | 68 | 45 | 236 | 250.5 | 300 | 3876 |
| 12 | 34.0 | 46.0 | 324 | 253 | 78 | 45 | 237 | 301.6 | 300 | 6736 |
| 14 | 52.0 | 63.0 | 310 | 260 | 78 | 48 | 237 | 333.6 | 300 | 8135 |
| 16 | 81.0 | 106.0 | 340 | 317.5 | 102 | 64 | 246 | 389.5 | 300 | 12041 |
| 18 | 106.0 | 131.0 | 375 | 330 | 114 | 64 | 246 | 440.5 | 380 | 14121 |
| 20 | 140.0 | 170.0 | 425 | 367 | 127 | 64 | 254 | 489.7 | 285 | 18449 |
| 24 | 220.0 | 270.0 | 505 | 443 | 154 | 82 | 301 | 592.7 | 400 | 24125 |

Pressure/Temperature Ratings

| | FA648G/FA658G/FA678G | FA644G/FA654G/FA674G |
|------------------|----------------------|----------------------|
| TEMPERATURE (°C) | -10 to 120 | -10 to 82 |
| PRESSURE (BAR) | 15.3 | 15.3 |

PRESSURE RATING: ANSI 125

END CONNECTION: Fully Lugged

OPERATOR: Gearbox

OTHER: Bare shaft options available (Fig No. FA648B / FA658B / FA644B / FA654B / FA678B / FA674B)

Please contact us for bare shaft top works details

SPECIFICATION: End connections compatible with ANSI B16.1 Class 125 flanges.

TEST PRESSURES: (Hydrostatic)

SHELL: 24 bar

SEAT: 17.6 bar

Valid as of 08/12/20

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