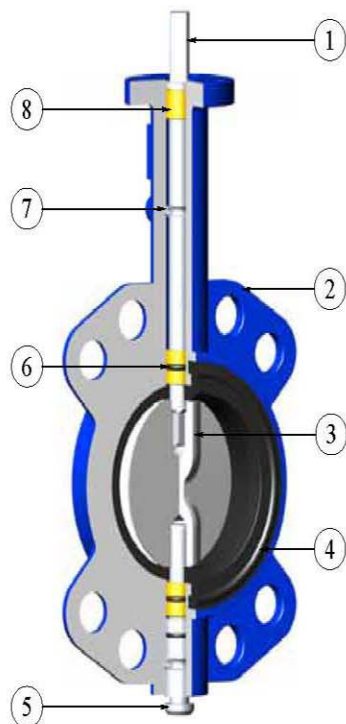




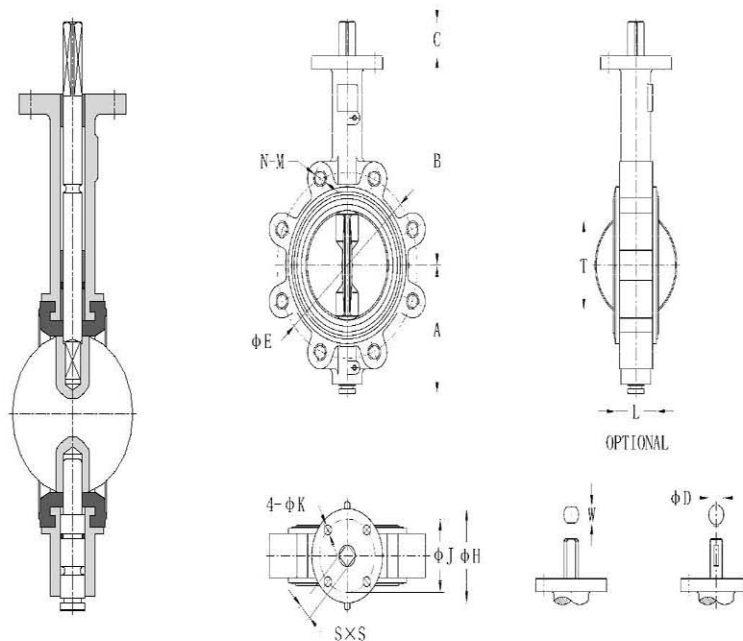
Series F203 butterfly valves designed to comply with MSS SP-67, BS5155 and API 609. Compatible with GB, ANSI, DIN, BS, JIS flanges. The seat of series F203 butterfly valve is designed into without back. The tongue-and -groove seat is lower torque and field replaceable. There is O-ring casted on the seal surface of the seat, negates need for flange gaskets. Available in size 1" to 24". Available in wafer type, lug type body. Available with handles, manual gear operators, and electric or pneumatic actuators.

### Materials List

| Item | Part Name  | Materials                                                                                                                                                                                                                                          |
|------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Upper Stem | Zinc Plated Steel;<br>Stainless Steel: ASTM A276 Type 316, Type 410, Type 420; ASTM A582 Type 416;                                                                                                                                                 |
| 2    | Body       | Cast Iron: ASTM A126CL. B, DIN1691 GG25, EN 1561 EN-GJL-200; GB12226 HT200;<br>Ductile Cast Iron:<br>ASTM A536 65-45-12, DIN 1693 GGG40, EN1563 EN-GJS-400-15, GB12227 QT450-10;                                                                   |
| 3    | Disc       | Ductile Cast Iron(Nickel plated or Nylon coated):<br>ASTM A536 65-45-12, DIN 1693 GGG40, EN1563 EN-GJS-400-15, GB12227 QT450-10;<br>Stainless Steel:<br>ASTM A351 CF8, CF8M; CF3, CF3M; EN 1.4408, 1.4469; 1.4501;<br>AL-Bronze: ASTM B148 C95400; |
| 4    | Seat       | NBR, EPDM, Neoprene, Viton;                                                                                                                                                                                                                        |
| 5    | Lower Stem | Zinc Plated Steel;<br>Stainless Steel: ASTM A276 Type 316, Type 410, Type 420; ASTM A582 Type 416;                                                                                                                                                 |
| 6    | O-Ring     | NBR, EPDM, Neoprene, Viton;                                                                                                                                                                                                                        |
| 7    | Spring Pin | Carbon Steel; Stainless Steel                                                                                                                                                                                                                      |
| 8    | Bushing    | PTFE, Nylon, Lubricated Bronze;                                                                                                                                                                                                                    |



## Series F203 Lug Type Butterfly Valve



Dimensions List (mm)

| Size |      | E   |     |    |      |              |      |      |     | N-M          |        |        |        |     |     |      |     |     |    |    |
|------|------|-----|-----|----|------|--------------|------|------|-----|--------------|--------|--------|--------|-----|-----|------|-----|-----|----|----|
| Mm   | inch | A   | B   | C  | D    | ANSI 125/150 | PN10 | PN16 | 10K | ANSI 125/150 | PN10   | PN16   | 10K    | H   | J   | K    | L   | T   | S  | V  |
| 25   | 1    | 61  | 110 | 32 | 12.7 | 79.4         | 85   | 85   | 90  | 4-1/2"-12    | 4-M12  | 4-M12  | 4-M16  | 65  | 50  | 7    | 30  | 16  | 9  | 10 |
| 32   | 1¼   | 61  | 110 | 32 | 12.7 | 88.9         | 100  | 100  | 100 | 4-1/2"-12    | 4-M16  | 4-M16  | 4-M16  | 65  | 50  | 7    | 30  | 16  | 9  | 10 |
| 40   | 1½   | 79  | 145 | 32 | 12.7 | 98.4         | 110  | 110  | 105 | 4-1/2"-12    | 4-M16  | 4-M16  | 4-M16  | 65  | 50  | 7    | 33  | 27  | 9  | 10 |
| 50   | 2    | 85  | 162 | 32 | 12.7 | 120.7        | 125  | 125  | 120 | 4-¾"-11      | 4-M16  | 4-M16  | 4-M16  | 65  | 50  | 7    | 42  | 32  | 9  | 10 |
| 65   | 2½   | 98  | 174 | 32 | 12.7 | 139.7        | 145  | 145  | 140 | 4-¾"-11      | 4-M16  | 4-M16  | 4-M16  | 65  | 50  | 7    | 45  | 47  | 9  | 10 |
| 80   | 3    | 104 | 181 | 32 | 12.7 | 152.4        | 160  | 160  | 150 | 4-¾"-11      | 4-M16  | 8-M16  | 8-M16  | 65  | 50  | 7    | 45  | 65  | 9  | 10 |
| 100  | 4    | 123 | 200 | 32 | 15.9 | 190.5        | 180  | 180  | 175 | 8-¾"-11      | 8-M16  | 8-M16  | 8-M16  | 90  | 70  | 9.5  | 52  | 90  | 11 | 12 |
| 125  | 5    | 136 | 213 | 32 | 19.1 | 215.9        | 210  | 210  | 210 | 8-¾"-10      | 8-M16  | 8-M16  | 8-M20  | 90  | 70  | 9.5  | 54  | 111 | 14 | 14 |
| 150  | 6    | 148 | 225 | 32 | 19.1 | 241.3        | 240  | 240  | 240 | 8-¾"-10      | 8-M20  | 8-M20  | 8-M20  | 90  | 70  | 9.5  | 56  | 145 | 14 | 14 |
| 200  | 8    | 186 | 260 | 38 | 22.2 | 298.5        | 295  | 295  | 290 | 8-¾"-10      | 8-M20  | 12-M20 | 12-M20 | 125 | 102 | 11.5 | 60  | 193 | 17 | 17 |
| 250  | 10   | 212 | 292 | 38 | 28.6 | 362          | 350  | 355  | 355 | 12-1/4"-9    | 12-M20 | 12-M24 | 12-M22 | 125 | 102 | 11.5 | 66  | 241 | 22 | 22 |
| 300  | 12   | 251 | 337 | 38 | 31.8 | 431.8        | 400  | 410  | 400 | 12-1/4"-9    | 12-M20 | 12-M24 | 16-M22 | 125 | 102 | 11.5 | 77  | 292 | 22 | 22 |
| 350  | 14   | 277 | 368 | 45 | 31.8 | 476.3        | 460  | 470  | 445 | 12-1"-8      | 16-M20 | 16-M24 | 16-M22 | 125 | 102 | 11.5 | 77  | 325 | 22 | 22 |
| 400  | 16   | 308 | 400 | 51 | 33.3 | 539.8        | 515  | 525  | 510 | 16-1"-8      | 16-M24 | 16-M27 | 16-M24 | 210 | 165 | 22   | 102 | 380 | 27 | 27 |
| 450  | 18   | 342 | 422 | 51 | 38.1 | 577.9        | 565  | 585  | 565 | 16-1¼"-7     | 20-M24 | 20-M27 | 20-M24 | 210 | 165 | 22   | 114 | 428 | 27 | 27 |
| 500  | 20   | 374 | 479 | 64 | 41.3 | 635          | 620  | 650  | 620 | 20-1¼"-7     | 20-M24 | 20-M30 | 20-M24 | 210 | 165 | 22   | 130 | 474 | 27 | 32 |
| 600  | 24   | 459 | 562 | 70 | 50.8 | 749.3        | 725  | 770  | 730 | 20-1¼"-7     | 20-M27 | 20-M33 | 24-M30 | 210 | 165 | 22   | 152 | 575 | 36 | 36 |

✧ Please contact manufacturer if you want more flange standards.