

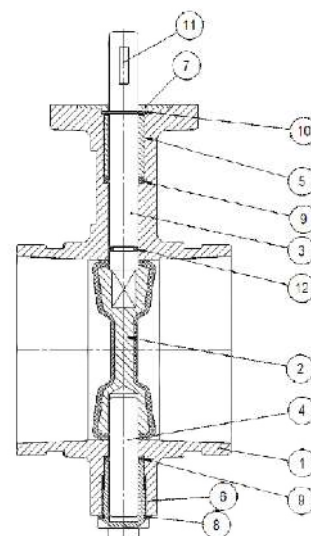
# GROOVED END 111

- Body construction 111 Grooved end 3"-8"
- Face to face MSS SP-67 table 4
- Groove acc. to AWWA C606
- Top flange EN ISO 5211
- Max working pressure PN 16
- Temperature range -20°C + 140°C according to material
- Operation Handwheel  
Lever  
Electric actuator  
Pneumatic actuator
- Coating Epoxy min 80 micron UV resistance
- Disc Bronze/ Ductile Iron rubber vulcanized EPDM/ NBR/ Hypalon/ Butyl
- Tightness test According to EN 12266-1:2003
- Material certificate EN 10204.3.1



## Materials

| Item | Description                   | Material             |
|------|-------------------------------|----------------------|
| 1    | Body                          | Ductile Iron         |
|      | Option Lining                 | Rilsan/ Halar        |
| 2    | Disc (vulcanized)             | As specified above   |
|      | Option Lining                 | EPDM/ NBR            |
| 3,4  | Shaft                         | SS316/ SS420/ Duplex |
| 4    | Axle                          |                      |
| 5,6  | Bushing                       | Brass/ Nylon 11      |
| 7    | Washer                        | Galvanized Steel     |
| 8    | Sealing Ring                  | Fiber                |
| 9    | O-Rings                       | NBR/ EPDM            |
| 10   | Circlip                       | Steel Spring         |
| 11   | Woodruff Key/ Rectangular Key | Steel                |



## Dimensions

| mm   | 80    | 100   | 150   | 200   |
|------|-------|-------|-------|-------|
| inch | 3"    | 4"    | 6"    | 8"    |
| A    | 120   | 135   | 176   | 202   |
| B    | 87    | 104   | 147   | 170   |
| C    | 97    | 116   | 148   | 133   |
| D    | 88.9  | 114   | 168.3 | 219   |
| D1   | 84.8  | 110   | 163.8 | 214.4 |
| M    | 7.8   | 9.4   | 9.4   | 11.9  |
| ds   | 15.87 | 15.87 | 25.4  | 28.6  |
| hs   | 5     | 5     | 6     | 6     |
| h1   | 18.4  | 18.4  | 28.4  | 31.6  |
| N    | 16    | 16    | 16    | 19    |
| E    | 42    | 42    | 62    | 62    |
| EL   | 37    | 37    | 35    | 35    |
| F    | 265   | 265   | 354   | 354   |

