



Grooved Butterfly Valve Model: 204

Product Description

Rapidrop Figure 204 Grooved Butterfly Valve is a rotary type valve with a visual indication (flag height 100mm) whether the valve is in fully open position or not. Butterfly valves are commonly used in fire protection systems as system control valves, sectional or pump water control valves. These valves have been designed with minimum flow restriction and pressure loss when in fully open position. To reduce the risk of a water hammer Rapidrop Butterfly Valves are provided with a slow close hand wheel operated gearbox. Valves supplied as standard with gear operator with two internal CE approved switches with 1 meter flying lead. One switch indicates upon opening, the second switch indicates upon closing. External extended bolts to adjust open/close position of the disc. The valve can be supplied with padlock and chain for APSAD requirements.



Maximum Working Pressure

20.7 bar (300 PSI)

Temperature Range

0°C to 100°C (32°F to 212°F) (EPDM Seat)

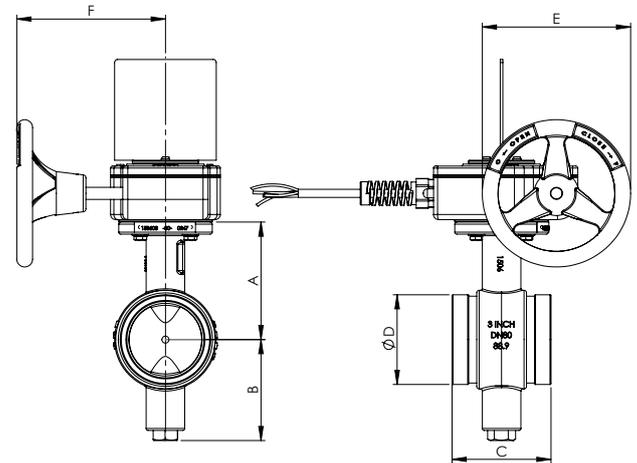
Connections

Groove to ISO6182 / AWWA C606

Standards

Valve complies with EN 593/BS 5155/MSS SP-67

Gearbox mounting flange ISO 5211



Dimensions

| Sizes | | Dimensions (mm) | | | | | | Weight (kg) | Product Ordering Code |
|-------|--------|-----------------|-----|-------|-------|-----|-----|-------------|-----------------------|
| mm | inch | A | B | C | D | E | F | | |
| DN50 | 2" | 100 | 70 | 82.4 | 60.3 | 142 | 160 | 7.6 | RD204-050APSAD |
| DN65 | 2 1/2" | 106 | 75 | 96.8 | 73.0 | 142 | 160 | 7.7 | RD204-065APSAD |
| DN65 | 2 1/2" | 106 | 75 | 96.8 | 76.1 | 142 | 160 | 7.7 | RD204-076APSAD |
| DN80 | 3" | 112.5 | 82 | 96.8 | 88.9 | 142 | 160 | 8.1 | RD204-080APSAD |
| DN100 | 4" | 135 | 100 | 116 | 114.3 | 142 | 160 | 10.3 | RD204-100APSAD |
| DN125 | 5" | 148.7 | 119 | 147.6 | 139.7 | 142 | 160 | 12.6 | RD204-125APSAD |
| DN150 | 6" | 176 | 130 | 147.6 | 165.1 | 142 | 160 | 15.4 | RD204-150APSAD |
| DN150 | 6" | 176 | 130 | 147.6 | 168.3 | 142 | 160 | 15.4 | RD204-168APSAD |
| DN200 | 8" | 204 | 162 | 133.4 | 219.1 | 290 | 235 | 19.4 | RD204-200APSAD |
| DN250 | 10" | 228 | 200 | 158.8 | 273.0 | 290 | 235 | 31.8 | RD204-250APSAD |
| DN300 | 12" | 266.2 | 224 | 163.6 | 323.9 | 290 | 235 | 42.0 | RD204-300APSAD |

Note: Valve is APSAD approved only when it is supplied with chain and padlock



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Installation

Rapidrop Figure 204 Grooved Butterfly Valve is suitable for indoor and outdoor use. The valve may be installed in any position and the flow may be from either direction through the valve. Valves should be supported independently to prevent the movement and stresses from the connecting piping system.

1. Ensure that the valve is in closed or almost closed position.
2. Visually inspect the valve, make sure the seating area is not damaged and that the connecting faces are clean of debris and any foreign materials.
3. Using appropriate grooved couplings connect the valve with adjacent pipe or fitting. Follow the instructions supplied by the manufacturer of the couplings.
4. Check the operation by fully opening and closing the valve.

Care and Maintenance

Rapidrop butterfly valves require no regular maintenance, however it is advisable to inspect and verify proper operation of the unit annually or in accordance with the authority having jurisdiction.

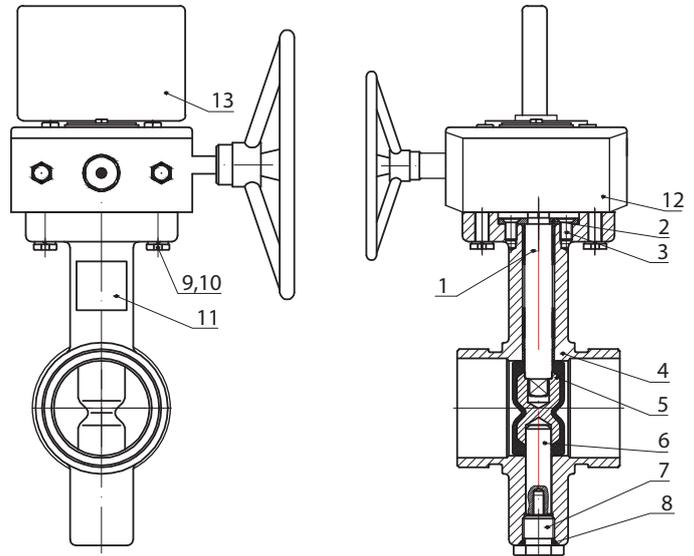
The inspection should include a visual check for leakage at the pipe connection and body to gearbox connection. Inspection and maintenance should be performed by a competent person in accordance with national codes/ requirements.

Debris in the piping system might cause difficulties in closing the valve, this problem can be fixed by backing off the handwheel and closing the valve again.

Rapidrop Figure 204 Grooved Butterfly Valves are suitable for both indoor and outdoor use. Minor degradations of surface finish should not affect the performance of the valve.

The valve should never be forced to seat by applying a wrench to the hand wheel as this may distort the valve components. The use of excessive force to open or close the valve violates all warranties.

The valve should not be used to force a pipeline into position as this may result in the distortion of the valve body.



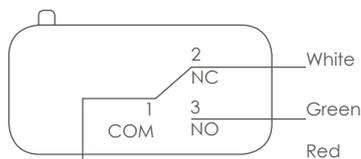
Material Specification

| Part No. | Description | Material |
|----------|----------------|--------------------|
| 1 | Upper Stem | ASTM A582 416 |
| 2 | Stop Cover | Steel |
| 3 | Bolt | Steel |
| 4 | Body | ASTM A536 65-45-12 |
| 5 | Disc | ASTM A536 65-45-12 |
| 6 | Lower Stem | ASTM A582 416 |
| 7 | Screw End | Carbon Steel |
| 8 | O-Ring | ASTM D2000 NBR |
| 9 | Bolts | Steel |
| 10 | Spring Spacer | AISI 1566 |
| 11 | Nameplate | Aluminum |
| 12 | Gearbox | - |
| 13 | Indicator Flag | - |

Wiring Diagram

Valve open

Switch indicates on valve closing



Earth - Green/Yellow

Valve closed

Switch indicates on valve opening

