



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

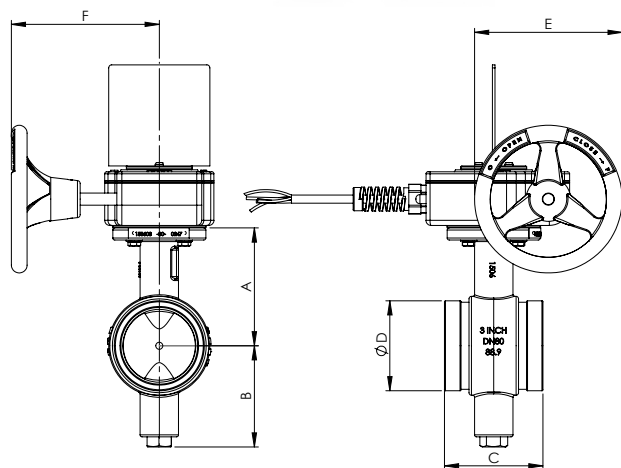
Valve complies with EN 593/BS 5155/MSS SP-67

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.

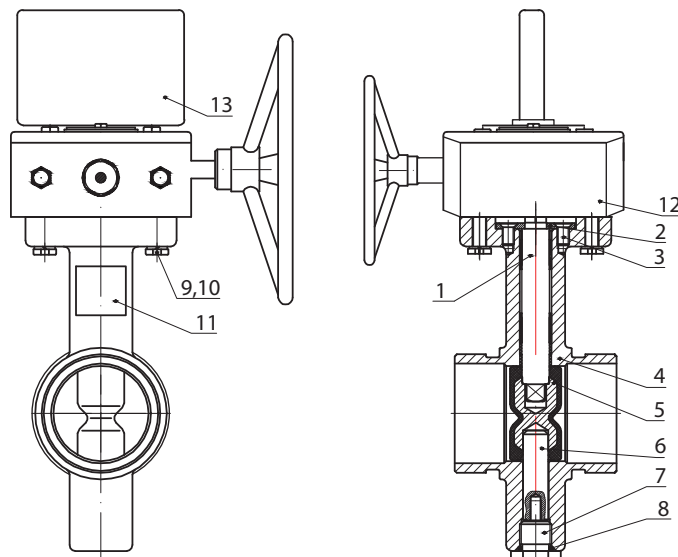
The inspection should include a visual check for leakage at the pipe connection and body to gearbox connection. Inspection and maintenance should be performed by a competent person in accordance with national codes/ requirements.

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.



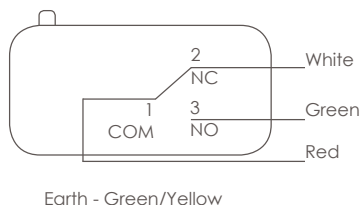
Material Specification

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



Valve closed

Switch indicates on valve opening

