

# GROOVED BUTTERFLY VALVE GEAR OPERATED WITH TAMPER SWITCH

Model VMG300S

Grooved 300 psi

Sizes: 2", 2 1/2", 3", 4", 4", 6", 8", 10" & 12"



## PRODUCT DESCRIPTION

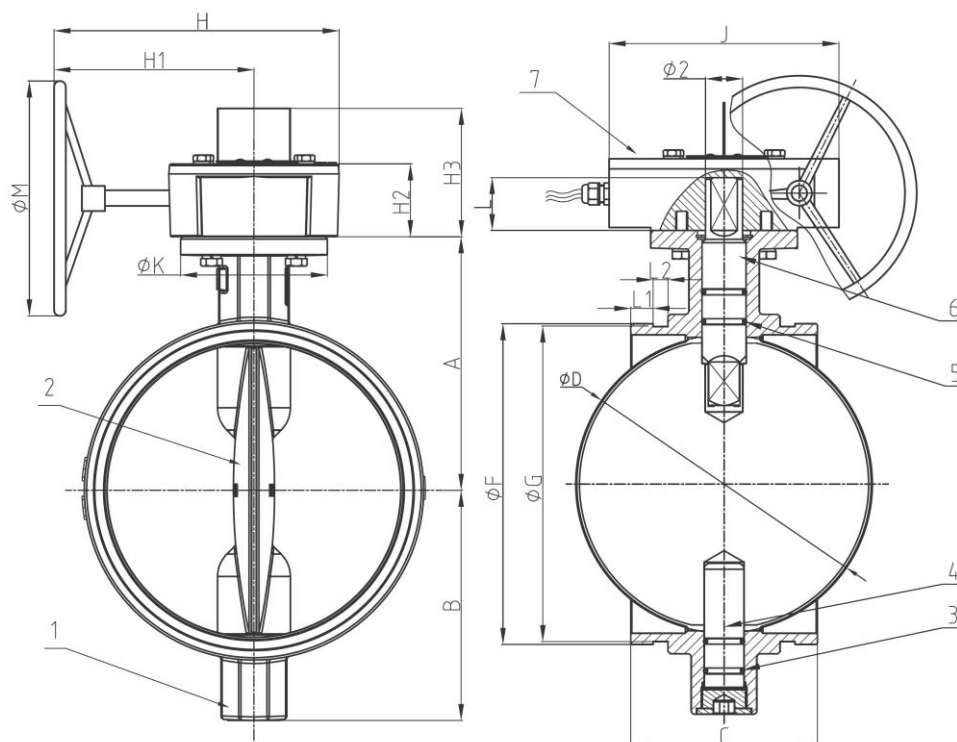
AG butterfly valves have been designed with a slow close gear operator, which effectively minimizes water hammer. These valves feature minimum flow restriction and pressure loss when in the fully open position.

The AG grooved butterfly valve should be connected to the piping system with approved couplings or flange adapters. Flow may be from either direction, and the valve may be positioned in any direction.

## TECHNICAL DATA

|                                    |                                                                                                             |
|------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Model</b>                       | VMG300S<br>Butterfly valve FM/UL Grooved 300 psi Gear operated with tamper switch                           |
| <b>Sizes</b>                       | 2" DN50<br>2 1/2" DN65<br>3" DN80<br>4" DN100<br>5" DN125<br>6" DN150<br>8" DN200<br>10" DN250<br>12" DN300 |
| <b>End connection</b>              | Grooved ANSI / AWWA C606                                                                                    |
| <b>Operated</b>                    | Gear<br>Position indicator<br>Tamper Switch                                                                 |
| <b>Maximum working pressure</b>    | 21,4 bar (300 psi)                                                                                          |
| <b>Maximum test pressure</b>       | 42,8 bar (600 psi)                                                                                          |
| <b>Maximum working temperature</b> | 250° F (120°C)                                                                                              |
| <b>Uses</b>                        | Outdoors and indoors                                                                                        |
| <b>Coating</b>                     | Fusion bonded epoxy coating in accordance with ANSI/AWWA C550                                               |
| <b>Finish</b>                      | Fire red RAL 3000                                                                                           |

## DIMENSIONS



| SIZES   |     | DIMENSIONS (mm) |     |     |          |          |       |      |       |       |       |
|---------|-----|-----------------|-----|-----|----------|----------|-------|------|-------|-------|-------|
| Inch    | mm  | A               | B   | C   | $\phi F$ | $\phi G$ | L     | L1   | L2    | H1    | H     |
| 2       | 50  | 89              | 65  | 81  | 60,3     | 57,15    | 122,5 | 7,93 | 15,88 | 127   | 202,2 |
| 2 ½     | 65  | 102             | 71  | 97  | 73       | 69,09    | 122,5 | 7,93 | 15,88 | 127   | 202,2 |
| 2 ½ DIN | 65  | 102             | 71  | 97  | 76,1     | 69,09    | 122,5 | 7,93 | 15,88 | 127   | 202,2 |
| 3       | 75  | 109             | 81  | 97  | 88,9     | 84,94    | 122,5 | 7,93 | 15,88 | 127   | 202,2 |
| 4       | 100 | 128             | 95  | 116 | 114,3    | 110,08   | 122,5 | 9,53 | 15,88 | 127   | 202,2 |
| 5 DIN   | 125 | 141             | 111 | 148 | 139,7    | 137,03   | 122,5 | 9,53 | 15,88 | 127   | 202,2 |
| 5       | 125 | 141             | 111 | 148 | 141,3    | 137,03   | 122,5 | 9,53 | 15,88 | 127   | 202,2 |
| 6 DIN   | 150 | 153             | 133 | 148 | 165,1    | 163,96   | 122,5 | 9,53 | 15,88 | 127   | 202,2 |
| 6       | 150 | 153             | 133 | 148 | 168,3    | 163,96   | 122,5 | 9,53 | 15,88 | 127   | 202,2 |
| 8       | 200 | 184             | 164 | 133 | 219,1    | 214,4    | 122,5 | 11,1 | 19,05 | 185   | 260,2 |
| 10      | 250 | 216             | 196 | 159 | 273      | 268,3    | 122,5 | 12,7 | 19,05 | 185   | 260,2 |
| 12      | 300 | 254             | 226 | 165 | 323,9    | 318,3    | 132   | 12,7 | 19,05 | 202,5 | 297,5 |

## MATERIALS

| ITEM | NAME            | MATERIAL                   |
|------|-----------------|----------------------------|
| 1    | Body            | ASTM A536, 65-45-12        |
| 2    | Disc            | ASTM A536, 65-45-12 + EDPM |
| 3    | O-ring          | NBR                        |
| 4    | Stem            | AISI 431                   |
| 5    | O-ring          | NBR                        |
| 6    | Stem            | AISI 431                   |
| 7    | Signal Gear Box | ASTM A536, 65-45-12        |

## INSTALLATION

When the valves are received from the manufacturer they should be handled carefully to avoid breakage and damage to the seating area. Before installation of the valve, clean piping, flange and coupling. When the valve closes hard, it is usually due to debris lodged in the sealing area. Often this may be corrected by backing off the hand wheel and closing again.

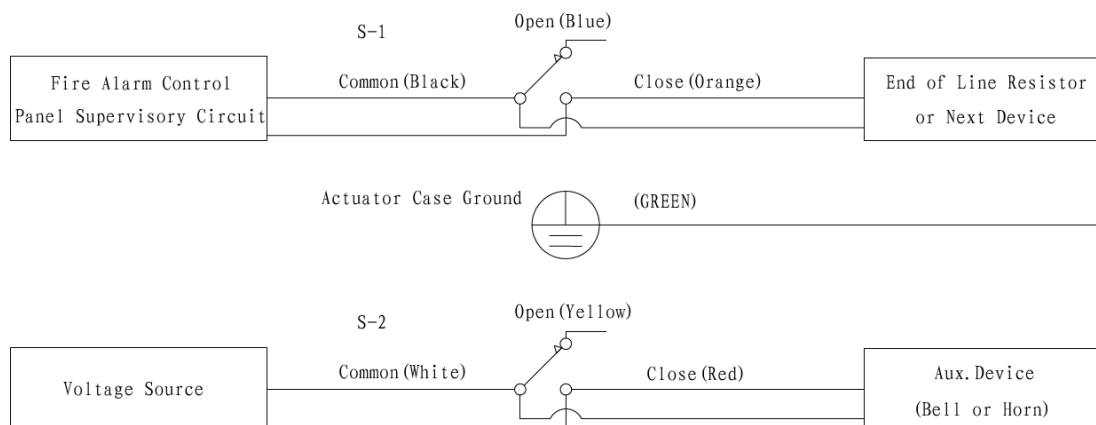
The valve should never be forced to seat by applying a wrench to the hand wheel as this may distort the valve components or score the sealing surface. The use of excessive force to open or close the valve violates all warranties whether express or implied.

The inlet and outlet pipe adjacent to the valve should be properly supported to prevent excessive stress on the valve body. The valves should not be used to force a pipeline into position as this may result in distortion of the valve body.

Conduit and electrical connections to the optional tamper switch must be in accordance with National Electrical Code (NFPA 72) and requirements of the local authority having jurisdiction.

## SWITCH INSTALATION

AG butterfly valves are provided with internal supervisory position switches. The tamper switch operates by a cam connected to the valves stem. The switch will change position within two (2) full turns of the hand wheel fro, the fully open position.



## ORDERING INFORMATION

| SIZE      | CODE          |
|-----------|---------------|
| 2" DN50   | VM050RA300V0S |
| 2 ½" DN65 | VM065RA300V*S |
| 3" DN80   | VM080RA300V0S |
| 4" DN100  | VM100RA300V0S |
| 5" DN125  | VM125RA300V‡S |
| 6" DN150  | VM150RA300V#S |
| 8" DN200  | VM200RA300V0S |
| 10" DN250 | VM250RA300V0S |
| 12" DN300 | VM300RA300V0S |

- Substitute the symbol \* by 0 (76mm) or 1 (73mm)

- Substitute the symbol ‡ by 0 (141mm) or 1 (140mm)

- Substitute the symbol # by 0 (168mm) or 1 (165mm)

Specify:

|               |  |
|---------------|--|
| Model         |  |
| Quantity      |  |
| Size of valve |  |