GROOVED BUTTERFLY VALVE GEAR OPERATED WITH TAMPER SWITCH

Model GLR-300-G
Grooved 300 psi
Sizes: 1 ¼", 1 ½", 2" & 2 ½"

LISTED
EX15826



PRODUCT DESCRIPTION

AG butterfly valves have a hand wheel operator, which close slowly in order to prevent water hammer and shock in the fier protection on service. These butterfly valves have been designed to be installed in any orientation and monitored to signal if the valve is opened or closed.

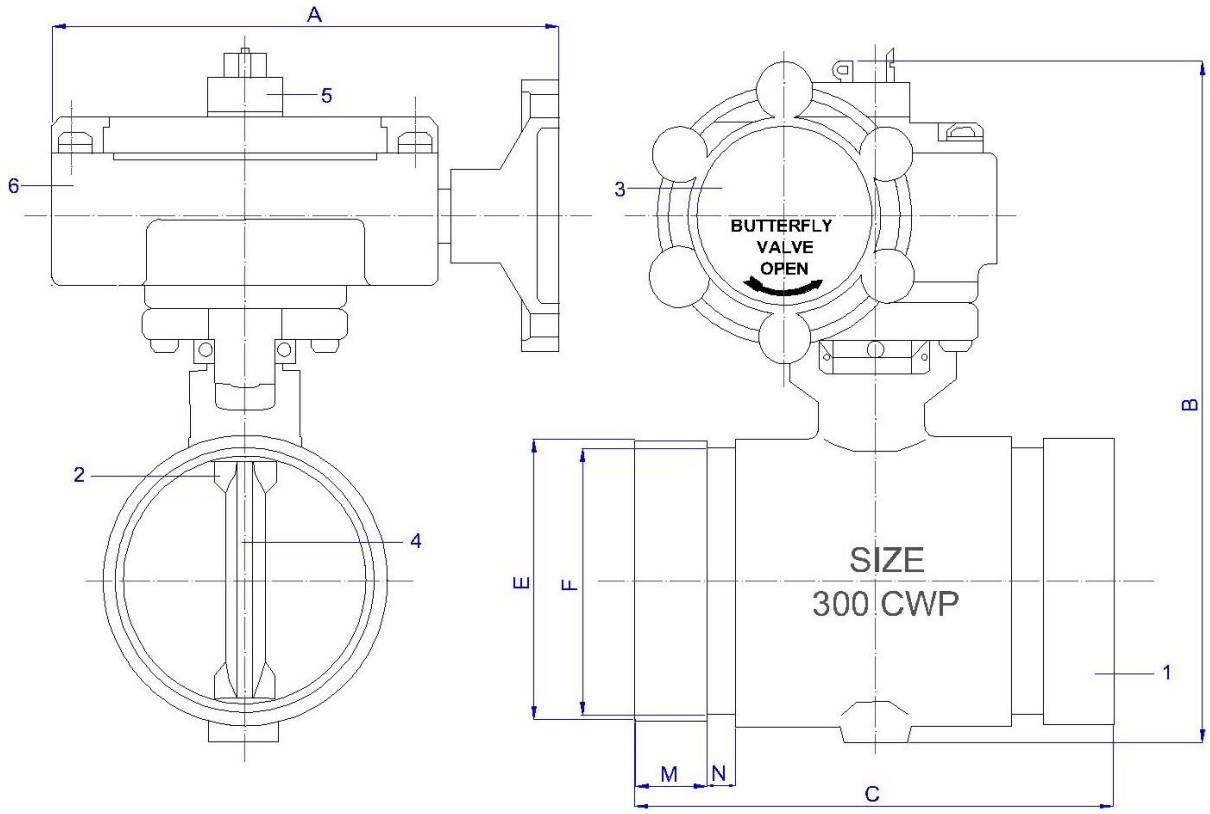
The AG grooved butterfly valve should be connected to the piping system with approved couplings or flange adapters. Flow may be from either direction, and the valve may be positioned in any direction.

TECHNICAL DATA

Model	GLR-300-G Butterfly valve FM/UL Grooved 300 psi Gear operated with tamper switch
Sizes	1 ¼" DN32 1 ½" DN40 2" DN50 2 ½" DN65
End connection	Grooved ANSI / AWWA C606
Operated	Gear Position Indicator Tamper Switch
Maximum working pressure	21,4 bar (300 psi)
Maximum test pressure	42,8 bar (600 psi)
Maximum working temperature	250º F (120ºC)
Switch rating	10,1 A / 115 VAC – 60 Hz 0,5 A / 28 VDC
Uses	Indoors and outdoors

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DIMENSIONS (mm)



SIZES		DIMENSIONS (mm)							EN12116 ISO5211
Inch	mm	A±3	B±3	C±1	ØE	ΦF +0 -0,38	M±0,76	N±0,76	
1 ¼	32	118	132,2	98	42,4±0,41	38,99	15,88	7,95	F04/F05
1 ½	40	118	138,9	102	48,3±0,48	45,09	15,88	7,95	F04/F05
2	50	118	154,2	104	60,3±0,61	57,15	15,88	7,95	F04/F05
2 ½	65	118	175,5	114	73,0±0,74	69,09	15,88	7,95	F04/F05

MATERIAL LIST

ITEM	NAME	MATERIAL	QUANTITY
1	Body	Bronze	1
2	Disc	Stainless steel	2
3	Handwheel	WCB	1
4	Seat	Viton	1
5	Indicator	Powder metal	1
6	Housing	Brass	1

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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.

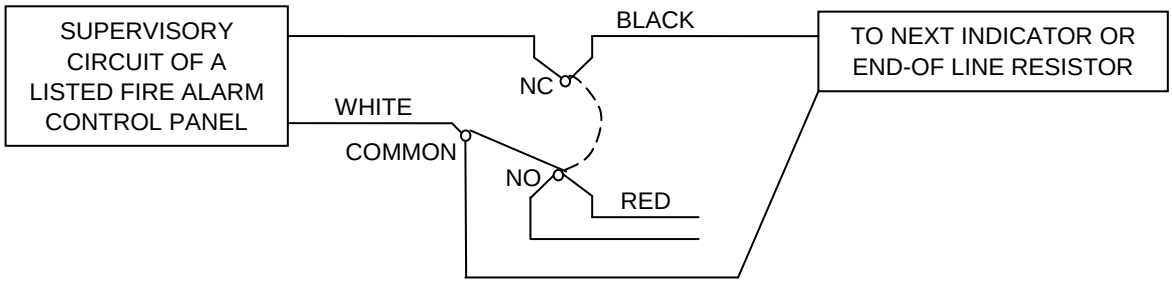
All replacement parts must be obtained from the manufacturer to assure proper operation of the valve, and to maintain approval of the device.

1. The valve can be installed in any orientation in a piping system with standard ASME B1.20.1 NPT (PT available upon request) or standard roll or cut grooved pipe.
2. When threading to pipe, apply adequate pipe sealants, use a wrench to cramp on the hexagon end of the valve.
3. The tamper switch-1 has dual leads on the terminals. This switch is used for connection of the supervisory circuit of a listed fire alarm control panel. Switch 2 has a single lead and used for connection of auxiliary equipment. All the unused wires need to be capped with lead nuts and tucked into a junction box. All connections need to be reviewed and approved by the jurisdictional authorities.
4. A nº 14 green wire is fixed in inner of the switch housing. It is provided as a ground for the housing.
5. Installation must comply with NFPA 13 and NFPA 72.
6. The valves are intended for use with ANSI B36.10 Schedule 40 and/or Schedule 80 pipes.

SWITCH INSTALATION

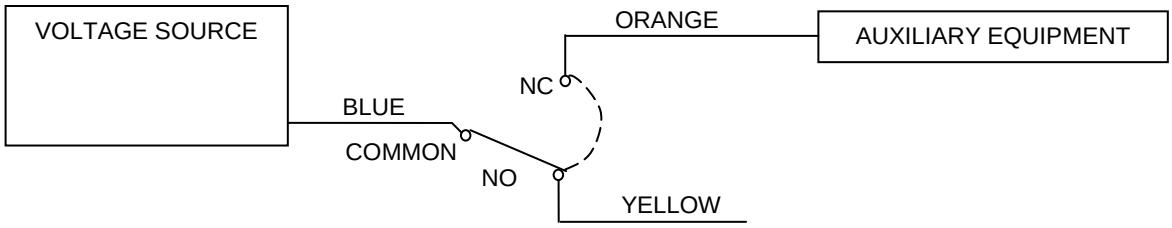
AG butterfly valves are provided with internal supervisory position switches. The tamper switch operates by a cam connected to the valves stem. The switch will change position within two (2) full turns of the hand wheel fro, the fully open position.

SWITCH #1: DUAL LEADS SOLDERED TO SWITCH TABS



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SWITCH #2: SINGLE LEADS SOLDERED TO SWITCH TABS



Green wire is provided as ground for the switch housing.

Switch rating: 10.1 Amps-125/250VAC-60Hz.

Actual switch application rating: 10 Amps/115 VAC-60Hz, 0,5 Amps/28 VDC.

ORDERING INFORMATION

SIZE	CODE
1 ¼" DN32	VM032RA300V0
1 ½" DN40	VM040RA300V0
2" DN50	VM050RA300V0
2 ½" DN65	VM065RA300V0

Specify:

Model	
Quantity	
Size of valve	

The equipment presented in this data sheet is to be installed in accordance with the latest published Standards of the national fire protection association (NFPA), FM Global, LPCB, VdS or other similar organizations, also with the provisions of governmental codes or ordinances whenever applicable.
This documentation is not contractual. AG Fire Sprinkler reserves the right to any kind of change without notice.

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