GROOVED BUTTERFLY VALVE GEAR OPERATED WITH TAMPER SWITCH

Model VM-300-G
Grooved 300 psi
Sizes: 2”, 2 ½”, 3”, 4”, 5”, 6”, 8”, 10” & 12”

LISTED
EX15826

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

Model	VM-300-G Butterfly valve FM/UL Grooved 300 psi Gear operated with tamper switch
Sizes	2” DN50 (1) 2 ½” DN65 3” DN80 4” DN100 6” DN150 8” DN200 10” DN250 (1) 12” DN300 (1)
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)
Uses	Outdoors and indoors
Coating	Fusion bonded epoxy coating in accordance with ANSI/AWWA C550
Finish	Fire red RAL 3000

(1) 2”, 10” & 12” butterfly valves only UL listed, not FM.

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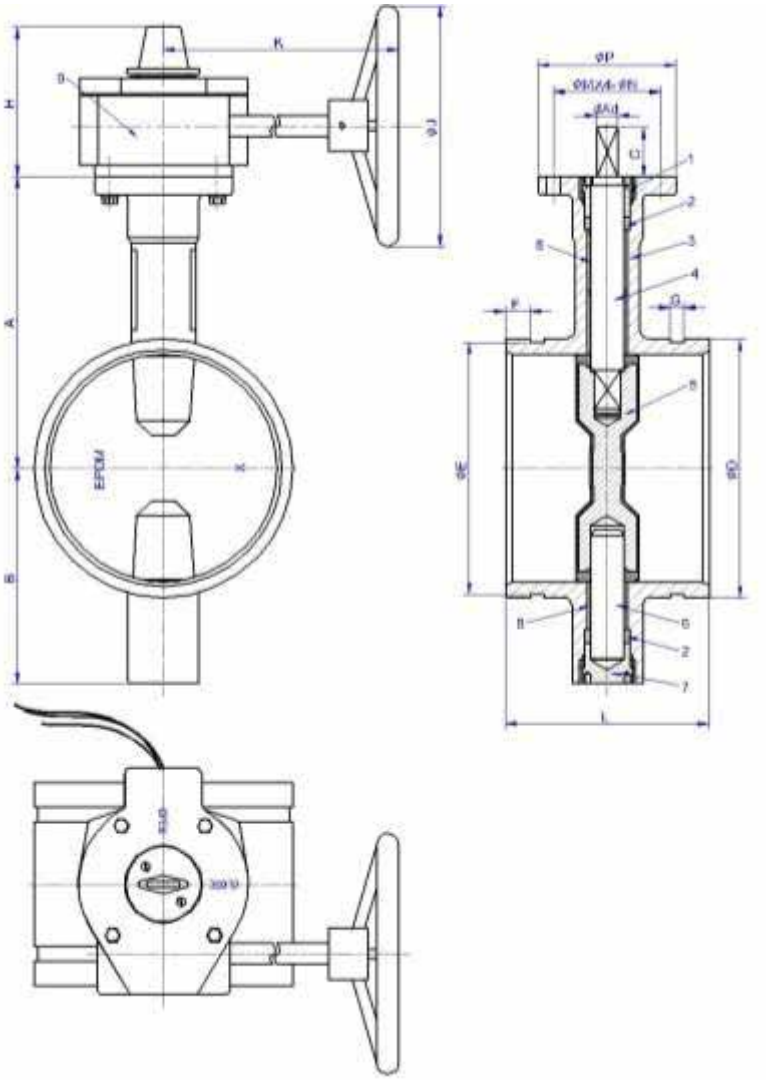
DIMENSIONS



SIZES		DIMENSIONS (mm)														
Inch	mm	A	B	C	D	E	F	G	H	K	J	P	M	N	d	L
2	50	110	85	32	60,3	57,15	15,9	7,9	111	153	152	90	70	9	10	81
2 ½	65	125	95	32	73	69,1	15,9	7,9	111	153	152	90	70	9	10	96,4
					76,1	72,3										
3	75	140	100	32	88,9	84,9	15,9	7,9	111	153	152	90	70	9	11	97
4	100	160	100	32	114,3	110,1	15,9	9,5	111	153	152	90	70	9	14	115,1
5	125	170	125	32	139,7	135,5	15,9	9,5	111	218	152	90	70	9	14	132,4
					141,3	137										
6	150	190	140	32	165,1	160,9	15,9	9,5	111	153	200	90	70	9	16	132,4
					168,3	164										
8	200	230	175	32	216,3	211,6	19	11,1	126	210	300	125	102	12	19	147,4
					219,1	214,4										
10	250	260	200	45	267,4	262,6	19	12,7	126	210	300	125	102	12	24	159
					273	268,3										
12	300	300	240	45	318,5	312,9	19	12,7	161	249	350	150	125	14	26	165
					323,8	318,3										

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MATERIALS

ITEM	NAME	MATERIAL	ESPECIFICATION
1	Upper Shaft Sealing Nut	WCB	ASTM A216
2	Shaft Seal	EDPM	ASTM D2000
3	Body	DI	ASTM A536
4	Upper Shaft	SS416	ASTM A582
5	Disc	DI+EDPM	
6	Lower Shaft	SS416	ASTM A582
7	Lower Shaft Sealing Nut	WCB	ASTM A216
8	Stem Bushing	PTFE	ASTM D4894
9	Gear Box	-	-

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.

Switch #1:
For connection to the supervisory circuit.
Normally closed: 2 red.
Normally open: 2 yellow.
Common: 2 white.

Switch #2:
Auxiliary switch connected per authority.
Normally closed: 1 orange.
Normally open: 1 blue.
Common: 1 black.
Ground Lead: 1 green.