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AWWA BUTTERFLY VALVES



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AWWA BUTTERFLY VALVES

SCOPE OF THE LINE: AWWA RUBBER SEATED BUTTERFLY VALVES



MODEL 511A BUTTERFLY VALVE

MODEL 511A FLANGED BUTTERFLY VALVE

SIZES

3" through 20"

BODY STYLE

Flanged x flanged ends

PRESSURE CLASS

Class 150B per AWWA Standard C504

WORKING PRESSURE

150 psig

FLANGES

Flat faced and drilled in accordance with ANSI B16.1, Class 125 standards

RUBBER SEAT

Bonded seat-in-body

ACTUATION OPTIONS

- MDT manual actuator with AWWA nut, handwheel or chainwheel
- Hydraulic or pneumatic cylinder
- Electric actuator

MODEL 510A MECHANICAL JOINT BUTTERFLY VALVE

SIZES

4" through 20"

BODY STYLE

MJ x MJ ends

PRESSURE CLASS

Class 150B per AWWA Standard C504

WORKING PRESSURE

150 psig

RUBBER SEAT

Bonded seat-in-body extends over inner surface to form self-gasketing feature

ACTUATION OPTIONS

MDT manual actuator with AWWA nut

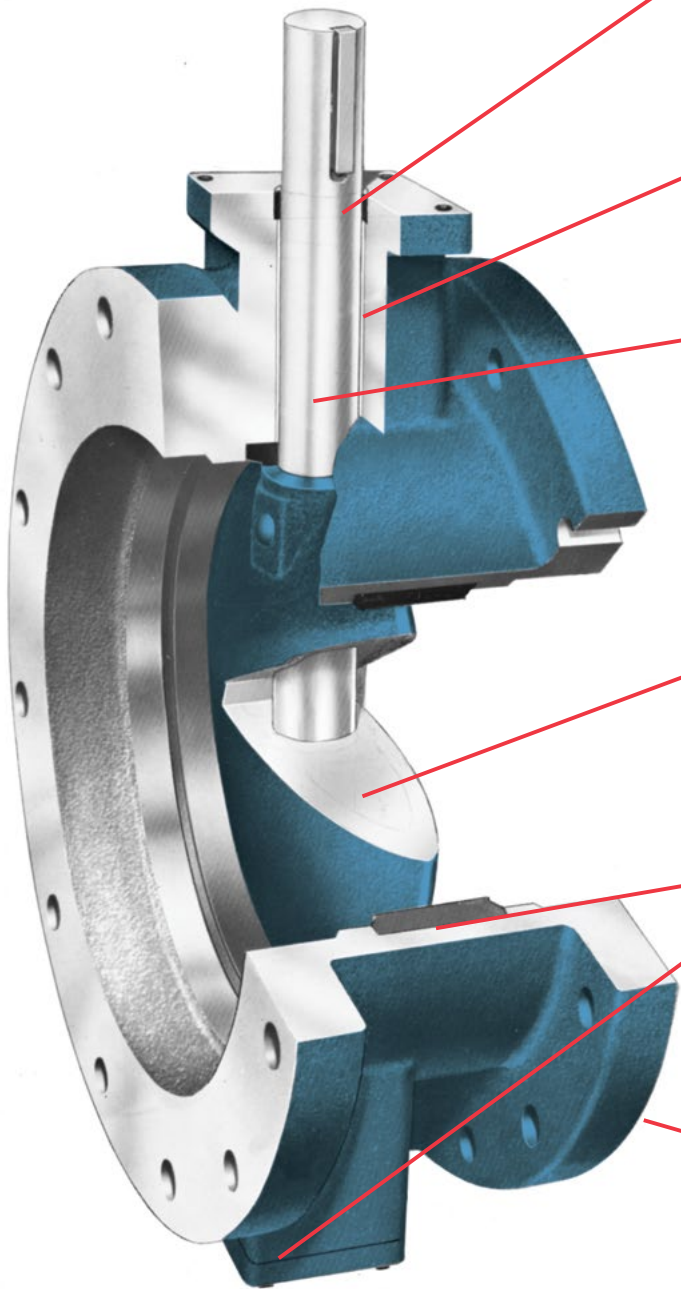
Please see the outside back cover for a listing of other Milliken products



MODEL 510A BUTTERFLY VALVE

AWWA BUTTERFLY VALVES

Design Details: Models 511A and 510A — 20" and Smaller



SELF ADJUSTING PERMANENT PACKING

Chevron type packing increases sealing force as line pressure increases. The self adjusting packing bears on turned, ground and polished stainless steel, minimizing wear and assuring long life. Packing is accessible for replacement without dismantling the valve per AWWA Standard C504.

LIFETIME BEARINGS

Chemically inert nylon bearings are sized to meet or exceed AWWA specification pressure loads. They are self-lubricating, require no periodic maintenance and are designed to outlast the life of the pipe line.

CORROSION RESISTANT SHAFTS

Shafts in rubber seated butterfly valves, 3" through 20", are constructed of centerless, ground ASTM A276 type 304 or type 316 stainless steel bar and thus are not susceptible to corrosion as are carbon steel or other similar materials. Shafts are one-piece, through-shaft construction, sized to meet or exceed the requirements of AWWA Standard C504 for Class 150B butterfly valves.

STREAMLINED DISCS

The lens-shaped discs are designed to minimize pressure drop and turbulence. In the full open position, the disc creates no more friction loss than a 45° elbow. Discs are secured to shafts by stainless steel pins to transmit required torques and with stand stresses imposed under a variety of operating conditions.

BODY SEAT

Our standard seats are constructed of Buna N rubber and bonded to the valve body. This molding process ensures that the disc-to-seat interference will not cause excessive wear or abrasion under normal operating conditions. The seat-in-body design minimizes the effects of corrosive build up on the inside of the valve because deposits are swept away by the hard sealing edge of the disc each time the valve is exercised.

HEAVY DUTY BODIES

Both Models 511A and 510A bodies are heavy duty cast iron. Model 511A flanges are fully faced and drilled in accordance with ANSI B16.1, Class 125 standard for cast iron flanges. Model 510A mechanical joint end connections are in accordance with AWWA C111 and ANSI 21.11. The actuator mounting trunnion is machined and drilled for a 4-bolt connection.

AWWA BUTTERFLY VALVES

Features and Benefits of Milliken Models 511A and 510A – 20” and Smaller

FEATURE

- Seat-in-body design
- Seat molded in recessed body cavity, protected by metal on 3 sides
- Valve withstood proof-of-design testing of 100,000 cycles - AWWA only requires 10,000 cycle proof-of-design testing
- Through-disc pinning
- Symmetrical lens-shaped disc
- Nonmetallic bearings
- Chevron V-type packing

BENEFIT

- Reduces seat failure due to corrosive buildup in the valve and pipeline. No hard ware to loosen. No periodic maintenance required. Rubber protected from flow media to increase seat life.
- Proven reliability over the life of the valve
- Provides a tight disc-to-shaft pin connection, greatly reducing the possibility of loosening through vibration
- Higher C_v ; lower head loss results in energy savings for customer's system
- Prevents galvanic corrosion and provides lower coefficient of friction
- Self-adjusting, lasts the life of the valve

VALVE SIZE	C_v	VALVE SIZE	C_v	VALVE SIZE	C_v
3"	323	10"	4458	16"	11413
4"	575	12"	6420	18"	14444
6"	1294	14"	8738	20"	17832
8"	2300	C_v values for the 511A and 510A in the full open position			

TYPE OF MATERIAL

VALVE SIZE	BODY	DISC	SHAFT
3" - 4"	Ductile Iron	CF-8M	Type 304SS
6"	Cast Iron	CF-8M	Type 304SS
8" - 20"	Cast Iron	Cast Iron / 316SS Edge	Type 304SS

Other materials available upon request

AWWA BUTTERFLY VALVES

Suggested Specification for the Milliken Rubber Seated Butterfly Valve, Sizes 3” through 20”

GENERAL

Butterfly valves shall be manufactured in accordance with the latest revision of AWWA C504, Class 150B and conform to NSF Standard 61. The manufacturer shall have produced AWWA butterfly valves for a minimum of five years. All valves shall be either 511A Flanged or 510A Mechanical Joint and comply with the following details.

VALVE BODIES

Valve bodies shall be constructed of ASTM A126, Class B cast iron. Flanged valves shall be fully faced and drilled in accordance with ANSI Standard B16.1, Class 125. Mechanical joint end connections are in accordance with AWWA C111 and ANSI 21.11.

VALVE SEATS

Rubber body seats shall be of one piece construction, simultaneously molded and bonded into a recessed cavity in the valve body. Seats may not be located on the disc or be retained by segments and/or screws.

VALVE BEARINGS

Valve bearings shall be of a self-lubricating, non-metallic material to effectively isolate the disc-shaft assembly from the valve body. Metal-to-metal thrust bearings in the flow stream are not allowed.

VALVE DISC

The disc shall be a lens-shaped design to afford minimal pressure drop and line turbulence. Materials of construction shall be:

- 3” - 6” — ASTM A351 Gr. CF8M stainless steel disc
- 8” - 20” — ASTM A126, Class B cast iron disc with a stainless steel type 316 edge

Discs shall be retained by stainless steel pins which extends through the full diameter of the shaft to withstand the specified line pressure up to valve rating and the torque required to operate the valve. Disc stops located in the flow stream are not allowed.

VALVE DISC

Valve shafts shall be of stainless steel type 304. At the operator end of the valve shaft, a packing gland utilizing “V” type chevron packing shall be utilized.

PAINTING

All surfaces of the valve interior shall be clean, dry and free from grease before painting. The valve interior and exterior, except for disc edge, rubber seat and finished portions shall be evenly coated with a 2-part liquid epoxy to comply with NSF61 and AWWA Standard C504.

TESTING

Hydrostatic and seat leakage tests shall be conducted in strict accordance with AWWA Standard C504.

PROOF OF DESIGN

The manufacturer furnishing valves under the specification shall be prepared to provide Proof of Design Test reports to illustrate that the valves supplied meet the design requirements of AWWA C504.

MANUAL ACTUATORS

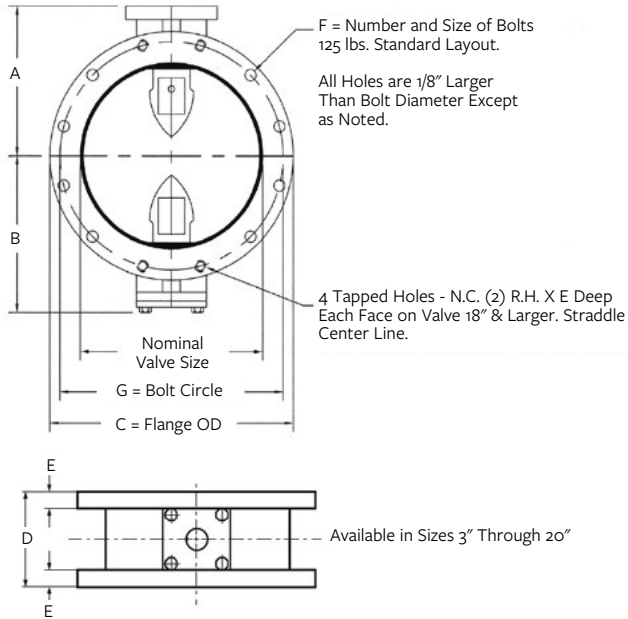
Manual actuators shall be of the traveling nut, self-locking type and shall be designed to hold the valve in any intermediate position between fully open and fully closed without creeping or fluttering. Actuators shall be equipped with mechanical stop-limiting devices to prevent overtravel of the disc in the open and closed positions. Actuators shall be fully enclosed and designed to produce the specified torque with a maximum pull of 80 lb. on the handwheel or chain wheel. Actuator components shall withstand an input torque of 450 lb. ft. at extreme operator position without damage. Manual actuators shall conform to AWWA C504 and shall be Milliken MDT or an approved equal.



AWWA BUTTERFLY VALVES

Dimensional Data

MODEL 511A, FLANGED BUTTERFLY VALVE 3" - 20"

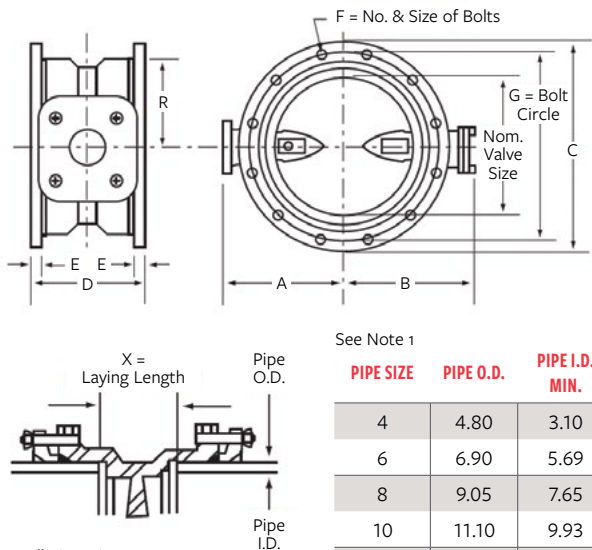


NOMINAL VALVE

SIZE	A	B	C	D	E	F	G
3	4-3/4	3-7/8	7-1/2	5	3/4	4 - 5/8	6
4	5-1/2	4-1/8	9	5	1-5/16	8 - 5/8	7-1/2
6	6-1/2	5-1/8	11	5	1	8 - 3/4	9-1/2
8	7-3/4	6-1/2	13-1/2	6	1-1/8	8 - 3/4	11-3/4
10	9	9-7/8	16	8	1-3/16	12 - 7/8	14-1/4
12	10-1/2	11-3/8	19	8	1-1/4	12 - 7/8	17
14	11-7/8	12-3/4	21	8	1-3/8	12 - 1	18-3/4
16	13-1/2	14-3/8	23-1/2	8	1-7/16	16 - 1	21-1/4
18	14-3/8	15-1/4	25	8	1-9/16	16 - 1-1/8	22-3/4
20	16	16-7/8	27-1/2	8	1-11/16	20 - 1-1/8	25

All dimensions shown in inches.

MODEL 510A, MECHANICAL JOINT BUTTERFLY VALVE — 4" - 20"



NOMINAL VALVE

SIZE	A	B	C	D	E	F	G	X
4	5-1/2	3-1/2	9	8-1/8	1	4 - 3/4	7-1/2	3-1/8
6	6-1/2	5-1/8	11	8-1/2	11/16	6 - 3/4	9-1/2	3-1/2
8	7-3/4	6-1/2	13-1/4	8-5/8	1-1/8	6 - 3/4	11-3/4	3-5/8
10	9	9-3/4	15-9/16	9-1/4	13/16	8 - 3/4	14	4-1/4
12	10-1/2	11-3/8	17-15/16	9-1/4	1-1/4	8 - 3/4	16-1/4	4-1/4
14	11-7/8	12-3/4	20-5/16	11-1/2	15/16	10 - 3/4	18-3/4	4-1/2
16	13-1/2	14-1/2	22-9/16	12	1-3/8	12-3/4	21	5
18	14-3/8	15-3/8	24-11/16	12-1/4	1-3/8	12-3/4	23-1/4	5-1/4
20	16	17	27-3/32	12-1/2	1-1/2	14-3/4	25-1/2	5-1/2

All dimensions shown in inches.

Mechanical joint end is in compliance with ANSI 21.11.

Installation Diagram
Note: The following items to be furnished
by others unless otherwise specified in
contract: Bolts, Glands, Nuts, Gaskets

See Note 1

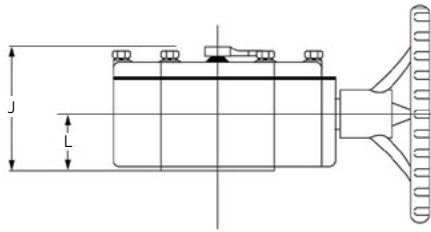
PIPE SIZE	PIPE O.D.	PIPE I.D. MIN.
4	4.80	3.10
6	6.90	5.69
8	9.05	7.65
10	11.10	9.93
12	13.20	11.70
14	15.30	12.91
16	17.40	14.91
18	19.50	16.95
20	21.60	18.96

Available in sizes 4" through 20"

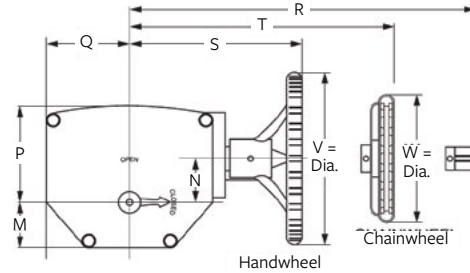
AWWA BUTTERFLY VALVES

Actuator Dimensional Data for Models 511A and 510A – 20" and Smaller

MDT MANUAL ACTUATOR



All dimensions shown in inches



VALVE SIZE	MDT SIZE	J	L	M	N	P	Q	R	S	T	V	W	# OF TURNS TO CLOSE
3" to 12"	MDT-2	4-11/16	2	2-1/8	2	4-1/2	4-1/4	8-1/4	7-7/8	7-7/8	8	9-1/8	32
14", 16"	MDT-3	5-5/8	2-7/16	3-1/4	3-5/32	5-3/8	5-3/8	10-3/8	10-1/2	10-1/8	12	9-1/8	30
18", 20"	MDT-4	6-3/8	22-7/32	3-3/8	4	7-5/16	6-3/4	11-5/16	11-1/2	11	12	9-1/8	40

OPTIONAL ACCESSORIES

We offer a variety of actuator extensions to meet our customer's requirements. The choice of extension style is determined by the need for valve position indication, location of the actuator and application.

EXTENSION STEM WITH AWWA NUT

Pneumatic, electric and hydraulic operation is available, complete with limit switches and solenoid valves when required.

EXTENSION BONNET

The valve may be ordered with the plug positions pre-set at the factory to suit the port flow requirements. This is achieved by fitting a styling ring to the valve stem.

INDICATING HANDWHEEL FLOORSTAND, TORQUE TUBE FLOORSTAND, MOTOR ACTUATOR ON FLOORSTAND

Gear operators are available for all sizes. They can be provided with 90°, 180° or 270° travel and are fitted with travel stops. 360° travel is also available.

EXTERNAL PACKING BONNET

Factory fitted locking devices are available for wrench operated and gear operated valves.

STEM GUIDE

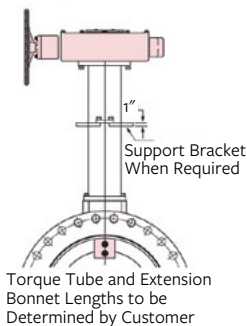
To provide 90° flow paths only, a double-style plug is available which operates through 90° travel and isolates either straight-through port (Style A90 only).

EXTENSION STEM WITH 2" AWWA NUT



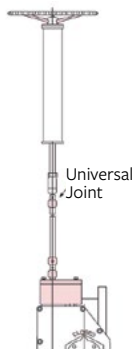
Shown in a Valve Box

EXTENSION BONNET



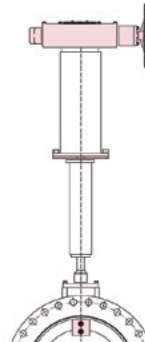
Torque Tube and Extension Bonnet Lengths to be Determined by Customer

INDICATING HANDWHEEL FLOORSTAND

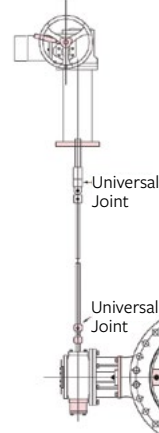


Universal Joint

TORQUE TUBE FLOORSTAND



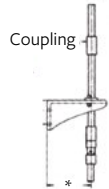
MOTOR ACTUATOR FLOORSTAND



Universal Joint

Universal Joint

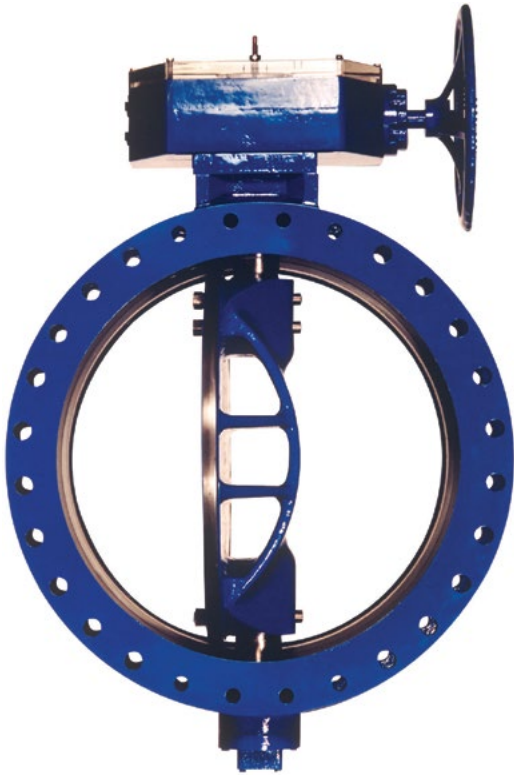
STEADY BEARING



*To be Determined by Customer When Wall Bracket is Required.

AWWA BUTTERFLY VALVES

MILLIKEN MODEL 511 FLANGED / 510 MECHANICAL JOINT



SIZES

24" through 72"

BODY STYLE

- Flanged (24" - 72")
- Mechanical Joint (24" - 48")

PRESSURE CLASS

Class 150B per AWWA Standard C504

ACTUATION OPTIONS

- Handwheel
- Electric Motor
- Pneumatic or Hydraulic Cylinder
- Buried Service
- Chainwheel

MATERIALS OF CONSTRUCTION

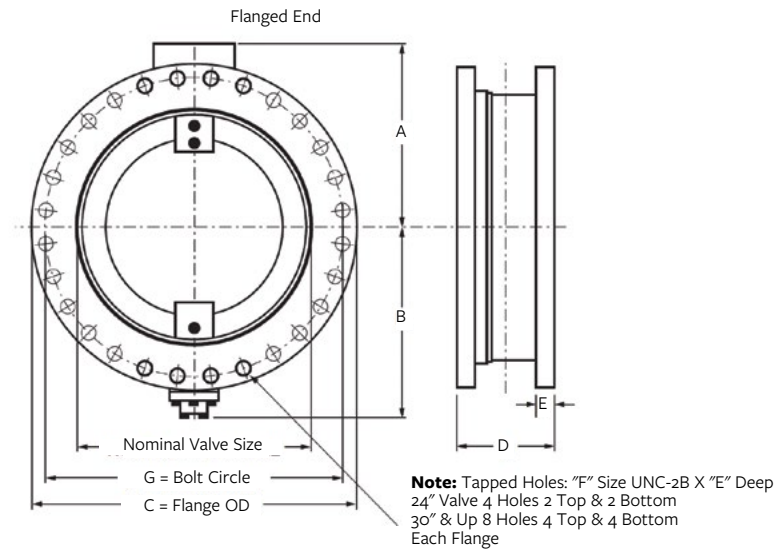
- Body – ASTM A126 CLB cast iron
- Disc – ASTM A536 Ductile Iron
- Disc Edge – ASTM A276 Type 316 stainless steel
- Seat – Buna N/EPDM rubber retained in the body
- Seat Segments – ASTM A276 Type 316 stainless steel
- Shaft – ASTM A276 Type 304 stainless steel
- Bearings – Teflon lined fiberglass backed
- Packing – Buna N/EPDM – V type packing
- Paint – Liquid epoxy conforming to NSF 61 (lined and coated)

FEATURES AND BENEFITS

- Rubber seat in body
- Recessed segmented seat retention
- Mechanically adjustable seat Epoxy paint
- Flow through disc design
- Reduces the chance of seat damage from tuberculation or other solids
- Allows for simple bi-directional point adjustment on rubber seat while keeping hardware out of flowstream
- No special tools or training required to adjust and/or replace the seat
- Reduces potential corrosion and extends valve life
- Disc design results in lower head-loss than solid or hollow disc designs

AWWA BUTTERFLY VALVES

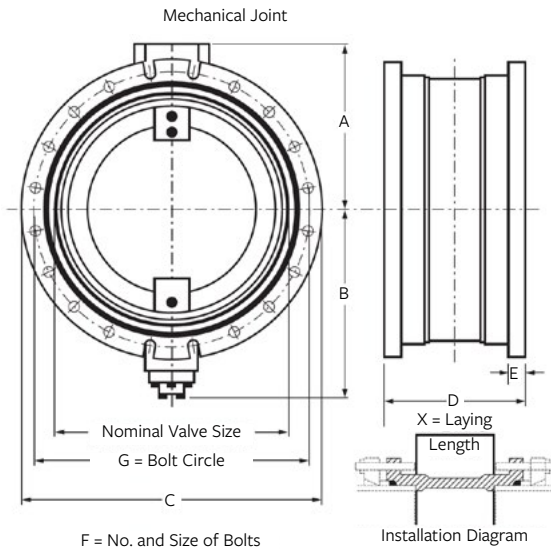
FIGURE 511: 24" - 72" CLASS 150 B FLANGED ENDS



VALVE SIZE	A	B	C	D	E	F	G
24	18-5/8	16-1/2	32	8	1-7/8	20 - 1-1/4	29-1/2
30	21-1/2	24-1/8	38-3/4	12	2-1/8	28 - 1-1/4	36
36	25-7/16	28	46	12	2-3/8	32 - 1-1/2	42-3/4
42	29-7/8	32-11/16	53	12	2-5/8	36 - 1-1/2	49-1/2
48	34-1/16	36-7/8	59-1/2	15	2-3/4	44 - 1-1/2	56
54	37-1/2	40-11/16	66-1/4	15	3	44 - 1-1/2	62-3/4
60	41-3/4	45-3/16	73	15	3-1/8	52 - 1-3/4	69-1/4
66	46-1/16	45-3/16	73	15	3-1/8	52 - 1-3/4	76
72	50	53-1/8	86-1/2	18	3-1/2	60 - 1-3/4	82-1/2

*Contact us for larger sizes

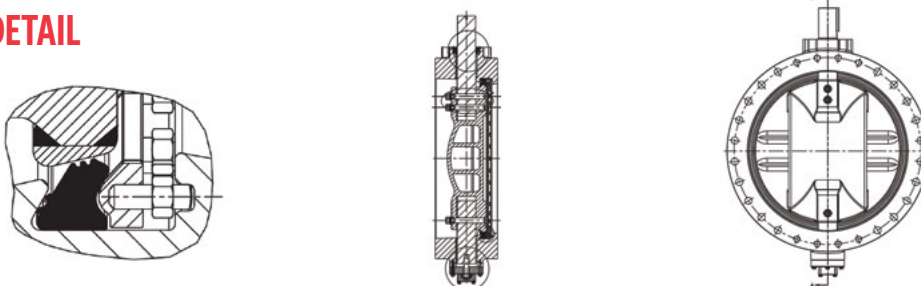
FIGURE 510: 24" - 48" CLASS 150 B MECHANICAL JOINT



VALVE SIZE	A	B	C	D	E	F	G	X
24	18-5/8	16-1/2	31-9/16	14-1/8	1-5/8	16-3/4	30	7-1/8
30	21-1/2	24-1/8	39	20	1-13/16	20 - 1	36-7/8	10
36	25-7/16	28	45-7/8	22	2	24 - 1	43-3/4	14
42	29-7/8	33	53	22	2	28 - 1-1/4	50-5/8	14
48	34-1/16	36-7/8	59-7/8	24	2	32 - 1-1/4	57-1/2	16

*Contact us for larger sizes

DESIGN DETAIL



AWWA BUTTERFLY VALVES

Suggested Specifications (24" and Larger)

GENERAL

All butterfly valves shall be of the tight closing, rubber seat type conforming to the design standards of ANSI / AWWA C504 latest revision. Valves shall be bubble-tight at the rated pressure in either direction and shall be suitable for throttling service and/or operation after long periods of inactivity. Manufacturer shall have a minimum of five (5) years experience producing AWWA butterfly valves.

BODY

All valve bodies shall be constructed of ASTM A126 Class B cast iron. Flanged valves shall have ANSI B16.1 flanges with class 125# drilling. Mechanical Joint Valves shall have ends conforming to the ANSI / AWWA C111 / A21.11 standard.

SEAT

On 24" and larger valves the seat shall be adjustable and replaceable in the field without the use of special tools. Valve seats on valves 24" and larger will be designed for bi-directional adjustment without removal of the seat. Valve designs with the rubber seat on the disc are not acceptable.

DISC

The discs shall be constructed of ASTM A536 Ductile Iron with a 316 stainless steel edge. 24" and larger discs will be the flow through design.

SHAFT

The valve shaft shall be constructed of stainless steel ASTM A276 type 304. On valves 24" and larger, a taper pin of 316 stainless steel will be used as the disc / shaft connection.

BEARINGS

All shaft bearing shall be of the self-lubrication, corrosion-resistant sleeve type. Bearings shall be designed for horizontal and/or vertical shaft loading.

PACKING

On valves 24" and larger the packing will be V-type. All packing will be self adjusting and wear compensating. Valve packing arrangement shall be designed so that actuator removal will not result in packing seal failure.

PAINT

Valves 24" and larger will be lined and coated with a liquid epoxy conforming to AWWA C550 and NSF61. Coatings will be a minimum of 8 mils DFT.

TESTING

All valves shall be hydrostatic and leak tested in accordance with ANSI / AWWA C504.

MANUAL ACTUATORS

Manual actuators shall be AWWA approved worm gear actuators. The actuator incorporates a hardened worm with bronze heavy duty quadrant within a ductile iron housing. Gear must be self locking type and shall be designed to hold the valve in any intermediate position between fully open and fully closed without creeping or fluttering. Worm gear to be rated 450 foot pounds at the stops.

Valves shall be Milliken model 511 / 510 or approved equivalent.

MILLIKEN® Product Guide



SERIES 600/601
Eccentric Plug Valve
Flanged and MJ

- Welded Nickel Seat
- Stainless Steel Bearings
- ANSI-B16.1 Flanges
- Solid Ductile Iron Plug
- Low Pressure Drop
- Flanged & MJ Ends
- Sizes 2" - 72" FL
- Sizes 3" - 48" MJ



SERIES 601SS
Eccentric Plug Valve

- Integral Stainless Seat
- Stainless Bearings
- Stainless Steel Body
- ANSI B16.5 Class 150 Flanges
- Solid Stainless Steel Plug
- Low Pressure Drop
- Size: 1/2" - 24"



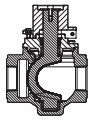
SERIES 601RL
Eccentric Plug Valve
Rubber Lined

- Soft or Hard Rubber Lining
- Stainless Steel Bearings
- ANSI B16.1 Flanges
- Solid Ductile Iron Plug
- Low Pressure Drop
- Sizes 3" - 54"
- Metal Plugs Available - Consult Factory



SERIES 602
Eccentric Plug Valve
High Pressure

- Ductile Iron Body
- ANSI B16.1 Flanges
- MJ AWWA C111
- Welded Nickel Seat
- Solid Ductile Iron Plug
- Low Pressure Drop
- Sizes 2" - 72" FL
- Sizes 3" - 48" MJ



SERIES 613A
Eccentric Plug Valve
Threaded End

- Ductile Iron Construction
- Round Port
- Stainless Steel Bearings
- Low Pressure Drop
- Memory Stop
- NPT End Connections
- Sizes 1/2" - 2"



SERIES 604E
Eccentric Plug Valve
Three Way Valve

- Epoxy Seat
- Solid Ductile Iron Plug
- Stainless Steel Bearings
- Low Pressure Drop
- Lift & Turn NOT Required
- High Solids & Flow Capacity
- Sizes 3" - 16"



SERIES 606
Eccentric Plug Valve
Grooved End

- Welded Nickel Seat
- Stainless Steel Bearings
- AWWA C-606 Grooved
- Solid Ductile Iron Plug
- Low Pressure Drop
- Ductile or Steel Pipe
- Sizes 3" - 24"



SERIES 611/610
Eccentric Plug Valve
Flanged and MJ

- Ductile Iron Body
- ANSI B16.1 Flanges
- MJ AWWA C111
- Welded Nickel Seat
- Solid Ductile Iron Plug
- Low Pressure Drop
- Sizes 2" - 72" FL
- Sizes 3" - 48" MJ



MODEL 625
Eccentric Plug Valve

- Available in Threaded and Flanged Ends
- Rated for 175 psi
- Sizes 1/2" - 4"
- UL / CGA Listed



SERIES 600FP/601FP
Eccentric Plug Valve

- Full / 100% PORT
- Welded Nickel Seat
- Stainless Steel Bearings
- ANSI-B16.1 Flanges
- Solid Ductile Iron Plug
- Low Pressure Drop
- Flanged & MJ Ends
- Sizes 2" - 48" FL
- Sizes 3" - 48" MJ



FIGURE 396/397
General Service Butterfly Valve

- Meets MSS SP 67
- Ductile Iron Body
- D1-NP Disc
- Other Materials Upon Request
- Wrench or Gear Operated Available
- 2" - 48" Size Range



FIGURE 510A/511A
AWWA Butterfly Valve

- Complies with AWWA C-504
- Class 150B Flanged or MJ
- Cast Iron Body and Disc
- Seat in Body
- Flow Through Disc on 24" and Larger
- Epoxy Paint on All Sizes Standard
- 3" - 72"



SERIES 8500
AWWA Swing Check

- Full Waterway
- Ductile Iron Construction
- Weight or Spring
- Air Cushion
- SS Body Seat Ring
- Buna Disc Insert
- Sizes 3" - 24"



SERIES 8000
AWWA Swing Check

- Full Waterway
- Weight or Spring
- Bronze / SS Body Seat Ring
- Bronze / Buna / EPDM Disc Insert
- Sizes 2" - 36"



SERIES 9000
AWWA Swing Check

- Clear Waterway
- Weight or Spring
- Air or Oil Cushion
- Bronze / SS Body Seat Ring
- Bronze / Buna / EPDM Disc Insert
- Sizes 3" - 72"



SERIES 720A
Wafer Check Valve

- Center Guided
- Check Valve
- Rated for 250 psi
- SS Disc / EPDM Seat
- Sizes 2" - 12"



SERIES 700
Wafer Check Valve

- ANSI Class 125 / 150
- High Flow Capacity
- Narrow Face-to-Face
- Sizes 3" - 12"
- 316 SS Internals
- Disc Position Indicator

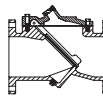


FIGURE 851
Flex Check

- Million Cycle Certification
- Complete Ductile Iron Construction
- 250 psi Pressure Rating
- Fully Epoxy Lined Interior
- No Internal Shafts, Bearings or Bushings
- No External Levers, Weights or Springs
- Mechanical Indicator (3" - 16")
- 2" - 24" Size Range
- Backflush Devices
- Proximity Switches

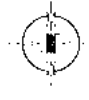


FIGURE 740A
Double Disc Check Valve

- Wafer Pattern Check Valve Rated for 250 psi
- Available in Sizes 2" - 36" With a SS Disc / EPDM Seat



FIGURE 821A
Global Style Check Valve

- Center Guided Check Valve
- SS Disc / EPDM Seat and is Available in Sizes 2" - 24"

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