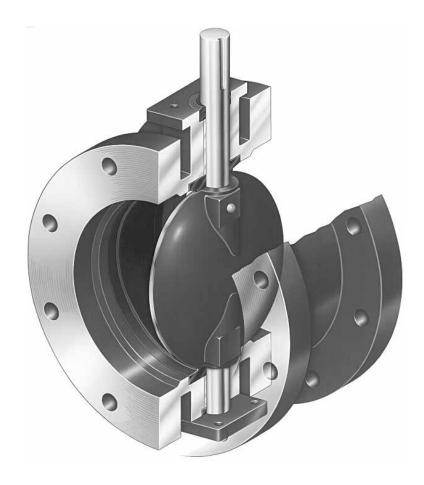
MUELLER® LINESEAL III®, LINESEAL XP™, LINESEAL XPII™ BUTTERFLY VALVES 3"-20" DESIGN*



11.1

Shaded area indicates change Rev. 9-09

MUELLER LINESEAL III (Class 150B), LINESEAL XP*, LINESEAL XPII (Class 250B) Butterfly Valve Features



- CHEVRON V-TYPE PACKING is self-adjusting, long lasting and should never need replacement because quarter-turn valve operation causes little or no wear. Packing bears on turned, ground and polished stainless steel.
- CORROSION RESISTANT SHAFT is constucted of stainless steel. Shaft is one-piece, through-shaft construction sized to meet or exceed requirements of AWWA Standard C504 for Class 150B or Class 250B service.
- HEAVY DUTY BODY is extra heavy with flanges fully faced and drilled per ANSI B16.1 Class 125 standard**. Other ends available include integrally cast mechanical joint and slip-on (for DI and PVC C900). Operator mounting trunnion is machined and drilled for fourbolt connection.
- TAMPER-PROOF DISC CENTERING provided by precision molded flats in the bonded seat at the body trunnion mate with machined flats on the disc to provide tamperproof centering of the disc in the body. Positive disc alignment, without play, assures long seat life.

- SELF-LUBRICATING BEARINGS are liberally sized, chemically inert bearings that are self-lubricating and should outlast the life of the pipeline.
- □ STREAMLINED DISC has lens-shaped design to minimize pressure drop and turbulence. Full open valve creates no more friction loss than a 45° elbow. Disc is secured to the shaft by stainless steel pins sized to transmit torques required and withstand stresses imposed under severe operating conditions. Disc has stainless steel disc edge.
- ELASTOMERIC BODY SEAT is made of a special rubber compound (Buna N) that is bonded to the body by a patented process. The seat cannot be torn from the body under normal pipeline conditions. The precision molding process also ensures that the disc-seat indentation cannot cause excessive wear or abrasion upon closing.

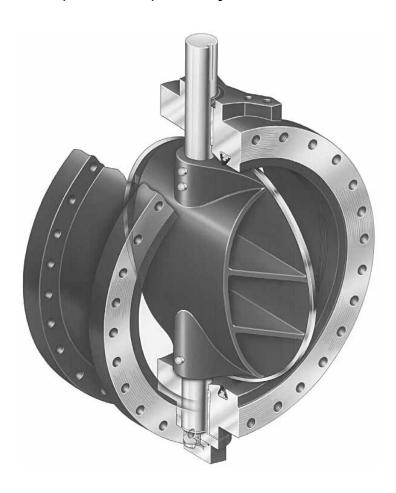
^{*}Lineseal XP Valves 3" and 4" only.

^{**}Lineseal XP Valve flanges drilled to ANSI B16.1 Class 250 standard.

MUELLER[®] LINESEAL III[®], LINESEAL XP[™], LINESEAL XPIT[™] BUTTERFLY VALVES 24''-48''* DESIGN

Rev. 9-09 Shaded area indicates changes

MUELLER LINESEAL III (Class 150B), LINESEAL XP, LINESEAL XP II (Class 250B) Butterfly Valve Features



- CORROSION RESISTANT SHAFT is constucted of stainless steel. Two-piece, stub-type shafts are sized per AWWA Standard C504, Class 150B or Class 250.
- ☐ CHEVRON V-TYPE PACKING is self-adjusting packing in top trunnion of valve body where shaft protrudes.
- STRONG DISC AND SHAFT CONNECTIONS with generously sized stainless steel pins designed to transmit torques required and withstand stresses imposed under severe operating conditions.
- □ PRESET TWO-WAY THRUST BEARING ASSEMBLY is preset at factory. On valves 30" and larger, assembly consists of stainless steel stud fastened to the bottom of the valve shaft. Stud extends beyond the bottom cover. Thrust collar is threaded to the stud and pinned. On 24" valves thrust collar is pinned to shaft and adjustment provided by bronze spacers. Thrust collar cavity is packed with grease and fully gasketed to prevent leakage.
- HEAVY DUTY BODY is extra heavy with flanges fully faced and drilled per ANSI B16.1 Class 250 or Mechanical Joint ends are also available.

- SELF-LUBRICATING, SLEEVE-TYPE BEARINGS are used in both trunnions of the valve body. PTFE lined with special non-metallic backing. Provide electrical insulation between disc and shaft to prevent galvanic corrosion. Lower coefficient of friction reduces operating torque requirements.
- FLOW-THROUGH DISC* provides less pressure drop in full-open position than conventional disc shapes. (On 24" size valves the arch side of disc is closed and the flat side is open, forming a slightly concave surface.) Disc structure has no internal cores that can shift during casting, no hollow chambers that can collect water, freeze and fracture the disc. Disc edge has stainless steel spherically shaped seating surface.
- ELASTOMERIC SEAT is made of a special rubber compound (Buna N) that seals a full 360 against a stainless steel spherical disc edge. Unique grooved-seal design, coupled with the wide spherically shaped seating edge of the disc, allows greater disc closure tolerance (up to 1° off center in closed position without leakage). Seat is mechanically retained in body without metal hardware by a cast epoxy compound that ensures the seat conforms to the exact radius of the disc with uniform contact pressure. It is fully field adjustable and replaceable.

^{*} Contact your Mueller representative for valves sizes larger than 48" and for Lineseal XP Valves with Class 250 flanges, this page applies to 24"-48" sizes.

MUELLER® LINESEAL III® BUTTERFLY VALVES (Class 150B) 3" - 48"*



11.3

Shaded area indicates change Rev. 9-09

Catalog number--

3211-6 Flanged Ends Class 125

Sizes--3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"

3211-20 Mechanical joint ends (with mechanical joint unassembled accessories)

Sizes--4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"

3211-23 Mechanical joint ends (without mechanical joint accessories)

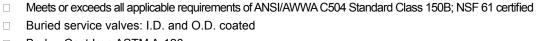
Sizes--4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"

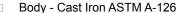
3211-16 Flanged Class 125 by mechanical joint ends (with mechanical joint unassembled accessories)

Sizes--6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36

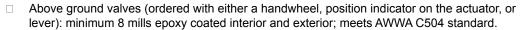
3211-19 Flanged Class 125 by mechanical joint ends (without mechanical joint unassembled accessories)

Sizes--6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36

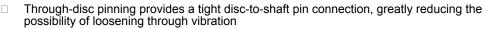




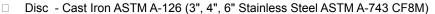
☐ Flanges drilled per ANSI B16.1 Class 125













Nonmetallic bearings prevent galvanic corrosion and provides lower coefficient of friction

☐ Cheveron "V" type packing is self-adjusting to last the life of the valve

□ 3"-24" Standard 304 SS hardware.

Options

*Contact your Mueller representative for valve sizes larger than 48".

MDT Actuator with handwheel
or chainwheel and position indicator

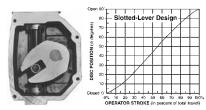
- MDT Actuator with cylinder actuator (also available with manual override, handjack and 4-way solenoid valve)
- Hand lever for 3"-10" valves
- 200 psi test
- ☐ EPDM Rubber seat and seals
- 316 Stainless steel fasteners
- Additional mils available Epoxy interior and/or exterior
- Holiday testing
- Ground level position indicator

Standard Buried Service Actuators

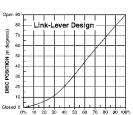
Note: Actuator size subject to change based on actual pipeline conditions.

Valve size	Actuator	Number of turns		
3"-12"	MDT-2S	32		
14"-16"	MDT-3S	30		
18"-24"	MDT-4S	40		
30"-36"	MDT-5	44		
42"	MDT-5S	136		
48"	MDT-6S	215		

Slotted-Lever (3"-12")







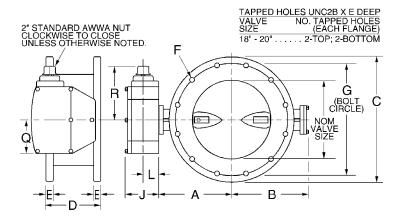


3"-20"

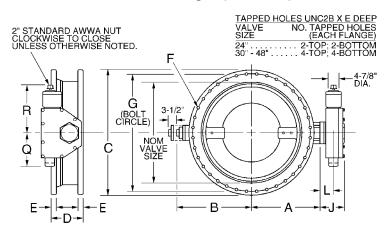


24"-48"

Dimensions - for Lineseal III Valves Flanged (Class 125) Ends, 3"-20" Sizes.



Dimensions - for Lineseal III Valves Flanged (Class 125) Ends, 24"-48" Sizes.



Notes: These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings available upon request. Actuator size subject to change based on actual pipeline conditions.

Dimension	Nominal size*												,		
Dimension+	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"
A	4.75	5.50	6.50	7.75	9.00	10.5	11.88	13.50	14.38	16.00	18.63	21.50	25.44	29.88	34.06
В	3.88	4.13	5.13	6.50	9.88	11.38	12.63	14.50	15.38	17.00	18.63	24.38	28.25	32.88	37.13
С	7.50	9.00	11.00	13.50	16.00	19.00	21.00	23.50	25.00	27.50	32.00	38.75	46.00	53.00	59.50
D†	5.00	5.00	5.00	6.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	12.00	12.00	12.00	15.00
E	.75	.94	1.00	1.13	1.19	1.25	1.38	1.44	1.56	1.69	1.88	2.13	2.38	2.63	2.75
F (number and size of holes)	463	863	875	875	1288	1288	121	161	161.13	201.13	201.25	281.25	321.50	361.50	441.50
G	6.00	7.50	9.50	11.75	14.25	17.00	18.75	21.25	22.75	25.00	29.50	36.00	42.75	49.50	56.00
J	4.69	4.69	4.69	4.69	4.69	4.69	5.63	5.63	6.38	6.38	6.38	7.56	7.56	8.31	9.88
L	2.00	2.00	2.00	2.00	2.00	2.00	2.44	2.44	2.84	2.84	2.84	3.47	3.47	3.94	5.06
Q	4.50	4.50	4.50	4.50	4.50	4.50	5.38	5.38	6.75	6.75	6.75	10.00	10.00	15.94	14.19
R	8.25	8.25	8.25	8.25	8.25	8.25	10.38	10.38	11.31	11.31	11.31	17.00	17.00	19.88	26.50
Turns to open	32	32	32	32	32	32	30	30	40	40	40	44	44	136	215
Actuator (see notes)	MDT-2S	MDT-2S	MDT-2S	MDT-2S	MDT-2S	MDT-2S	MDT-3S	MDT-3S	MDT-4S	MDT-4S	MDT-4S	MDT-5	MDT-5	MDT-5S	MDT-6S

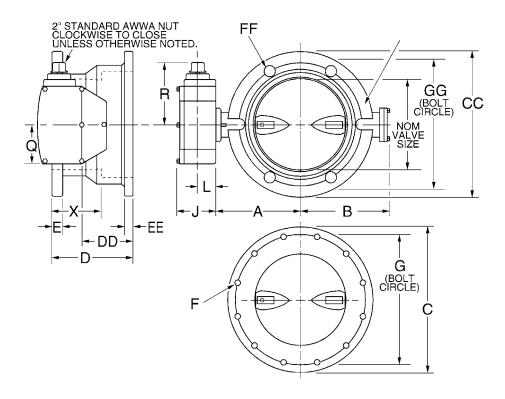
^{*} Larger sizes available upon request.

⁺ All dimensions are in inches.

^{† -+1/16&}quot; for 10" valves, and -+1/8" for 12"-48" valves per Flange Standard ANSI B16.1.

Shaded area indicates change Rev. 9-09

Dimensions - for Lineseal III Valves Mechanical Joint by Flange (Class 125) Ends, 6"-20" Sizes.



CAUTION

When using 10" and 12" Valves on Class 200 PVC Pipe, pipe end I.D.must be bevelled to ensure clearance for disc and proper valve operation. Contact your Mueller Sales Representative for detailed instructions.

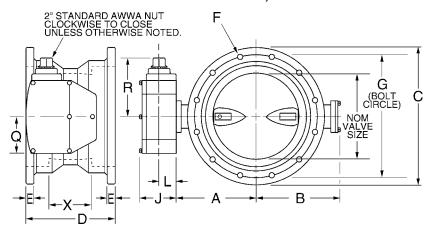
Notes: These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings available upon request. Actuator size subject to change based on actual pipeline conditions.

Dimension	Nominal size										
Dimension+	6"	8"	10"	12"	14"	16"	18"	20"			
A	6.50	7.75	9.00	10.50	11.88	13.50	14.38	16			
В	5.13	6.50	9.88	11.38	12.75	14.38	15.25	16.88			
С	11.00	13.50	16.00	19.00	21.00	23.50	25.00	27.50			
CC	11.00	13.25	15.56	17.94	20.31	22.56	24.69	27.09			
D†	6.75	7.31	8.62	8.63	9.75	10.00	10.13	10.25			
DD	4.25	4.31	4.62	4.63	5.75	6.00	6.13	6.25			
E	1.06	1.13	1.25	1.25	1.38	1.44	1.56	1.69			
EE	1.06	1.13	1.19	1.25	1.31	1.38	1.44	1.50			
F (number and size of holes)	875	875	1288	1288	121.00	161.00	161.13	201.13			
FF (number and size of holes)	675	675	875	875	1075	1275	1275	14.75			
G	9.50	11.75	14.25	17.00	18.75	21.25	22.75	25.00			
GG	9.50	11.75	14.00	16.25	18.75	21.00	23.25	25.50			
J	4.69	4.69	4.69	4.69	5.63	5.63	6.38	6.38			
L	2.00	2.00	2.00	2.00	2.44	2.44	2.84	2.84			
Q	4.50	4.50	4.50	4.50	5.38	5.38	6.75	6.75			
R	8.75	8.25	8.25	8.25	10.38	10.38	11.31	11.31			
Х	4.25	4.81	6.13	6.13	6.25	6.50	6.63	6.75			
Turns to open	32	32	32	32	30	30	40	40			
Actuator (see notes)	MDT-2S	MDT-2S	MDT-2S	MDT-2S	MDT-3S	MDT-3S	MDT-4S	MDT-4S			

⁺ All dimensions are in inches.

Rev. 5-15 Shaded area indicates changes

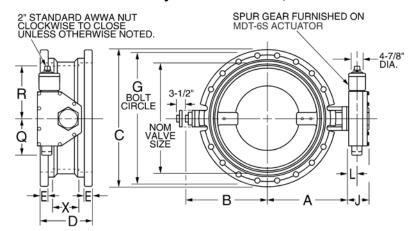
Dimensions - for Lineseal III Valves M.J. Ends, 4"-20" Sizes.



Dimensions - for Mueller Lineseal III Butterfly Valves M.J. Ends, 24"-48" Sizes.

CAUTION

When using 10" and 12" Valves on Class 200 PVC Pipe, pipe end I.D.must be bevelled to ensure clearance for disc and proper valve operation. Contact your Mueller Sales Representative for detailed instructions.



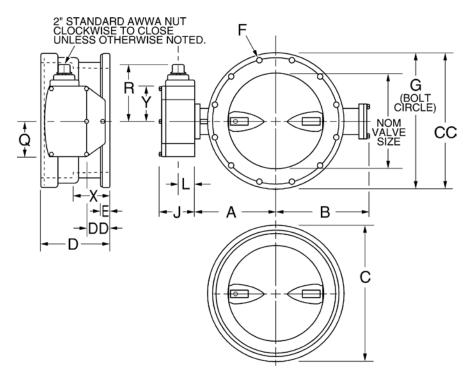
Notes: These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings available upon request. Actuator size subject to change based on actual pipeline conditions.

D'							Nomin	al size						
Dimension+	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"
A	5.50	6.50	7.75	9.00	10.50	11.88	13.50	14.38	16.00	18.63	21.50	25.44	29.88	34.06
В	4.13	5.13	6.50	9.75	11.38	12.75	14.50	15.38	17.00	18.38	24.13	28.00	32.75	36.88
С	9.00	11.00	13.25	15.56	17.94	20.31	22.56	24.69	27.09	31.56	39.00	45.88	53.00	59.88
D	8.13	8.50	8.63	9.25	9.25	11.50	12.00	12.25	12.50	13.25	18.00	22.00	22.00	24.00
E	1.00	1.06	1.13	1.19	1.25	1.31	1.38	1.38	1.50	1.63	1.81	2.00	2.00	2.00
F (number and size of holes)	475	675	675	875	8875	10875	12875	12875	14875	16875	201.13	241.13	281.38	321.38
G	7.50	9.50	11.75	14.00	16.25	18.75	21.00	23.25	25.25	30.00	36.88	43.75	50.63	57.50
J	4.69	4.69	4.69	4.69	4.69	5.63	5.63	6.38	6.38	6.38	7.56	7.56	8.31	11.19
L	2.00	2.00	2.00	2.00	2.00	2.44	2.44	2.84	2.84	2.84	3.47	3.47	3.94	5.06
Q	4.50	4.50	4.50	4.50	4.50	5.44	5.44	6.75	6.75	6.75	10.13	10.13	15.94	18.56
R	8.25	8.25	8.25	8.25	8.25	10.38	10.38	11.31	11.31	11.31	17.00	17.00	19.88	26.50
Х	3.12	3.50	3.63	4.25	4.25	4.50	5.00	5.25	5.50	6.38	10.00	14.00	14.00	16.00
Turns to open	32	32	32	32	32	30	30	40	40	40	44	44	136	215
Actuator (see notes)	MDT-2S	MDT-2S	MDT-2S	MDT-2S	MDT-2S	MDT-3S	MDT-3S	MDT-4S	MDT-4S	MDT-4S	MDT-5	MDT-5	MDT-5S	MDT-6S

11.7

Shaded area indicates change Rev. 9-09

Dimensions - for Lineseal III Valves Slip-on by Flanged Ends (Class 125), 12", 16" Sizes.



CAUTION

When using 12" Valves on Class 200 PVC Pipe, pipe end I.D.must be bevelled to ensure clearance for disc and proper valve operation. Contact your Mueller Sales Representative for detailed instructions.

Notes: These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings available upon request. Actuator size subject to change based on actual pipeline conditions.

	Pipe size	
Pine O.D.	12"	16"
Pipe O.D.	13.20	17.40

Dimension+	Nominal size						
Diffierision+	12"	16"					
A	10.50	13.50					
В	11.38	13.88					
C (Slip on end)	16.38	21.25					
CC (Flanged end)	19.00	23.50					
D	11.50	11.50					
DD	4.00	4.00					
E	1.25	1.44					
F (number and size of holes)	1288	161.00					
G	17.00	21.25					
J	4.69	5.63					
L	2.00	2.44					
Q	4.50	5.38					
R	8.25	10.38					
X (Laying length)	6.56	9.19					
Turns to open	32	30					
Actuator (see notes)	MDT-2S	MDT-3S					

⁺ All dimensions are in inches.

IMPORTANT:

^{1.} Slip On end of this valve NOT FOR USE with IPS O.D. Pipe.

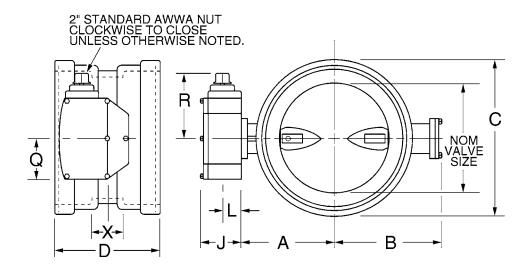
^{2.} Slip On end of this valve for use with Tyton™ Rubber Ring Gasket (Tyton is a registered Trade Mark of U.S. Pipe & Foundry Co.).

Rev. 9-09 Shaded area indicates changes

Dimensions - for Mueller Lineseal III Butterfly Valves Slip-on Ends, 12", 16" Sizes.

CAUTION

When using 12" Valves on Class 200 PVC Pipe, pipe end I.D.must be bevelled to ensure clearance for disc and proper valve operation. Contact your Mueller Sales Representative for detailed instructions.



Notes: These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings available upon request. Actuator size subject to change based on actual pipeline conditions.

Pipe size						
Bino O D	12"	16"				
Pipe O.D.	13.20	17.40				

Dimension	Nomin	al size
Dimension+	12"	16"
A	10.50	13.50
В	11.38	14.50
С	16.38	21.25
D	15.00	15.00
J	4.69	5.63
L	2.00	244
Q	4.50	5.38
R	8.25	10.38
X (Laying length)	5.13	4.75
Turns to open	32	30
Actuator (see notes)	MDT-2S	MDT-3S

+All dimensions are in inches.

IMPORTANT:

1. This valve NOT FOR USE with IPS O.D. Pipe.

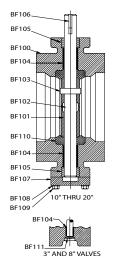
MUELLER® LINESEAL III® BUTTERFLY VALVES CLASS 150B 3"-48"* PARTS

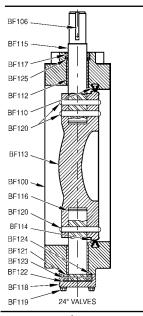


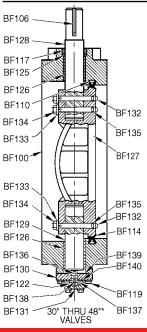
Shaded area indicates change Rev. 9-09

Lineseal III Butterfly Valve Replacement Parts								
Catalog Part No.	Description	Material						
BF100	Body	Cast iron ASTM A126 CL.B						
BF101	Disc**	Cast iron ASTM A126, Class B with 316 Edge						
BF102	Shaft	Stainless Steel 18-8 Type 304 ASTM A-276						
BF103	Squeeze pin	Stainless Steel 18-8 Type 304 ASTM A-276						
BF104	Bearing	Nylatron GS						
BF105	Packing	Chevron V-Type						
BF106	Key	Carbon Steel C-1045						
BF107	Cover	Cast Iron ASTM A-48 Class 40						
BF108	Lockwasher	Stainless Steel Type 304						
BF109	Cap Screw	Stainless Steel Type 304						
BF110	Seat	Buna N						
BF111	Plug	Stainless Steel Type 304						
BF112	Bearings	PTFE Lined, Filament Wound, Reinforced Plastic, Fiberglass Backed						
BF113	Disc	Ductile Iron ASTM A-536 Grade 65-45-12						
BF114	Disc edge	Stainless Steel Type 316 ASTM A-240						
BF115	Top stub shaft	Stainless Steel Type 304 ASTM A-276 (Standard) Stainless Steel Type 316 ASTM A-276						
BF116	Bottom stub shaft	Stainless Steel Type 304 ASTM A-276 (Standard) Stainless Steel Type 316 ASTM A-276						
BF117	Packing	Buna N						
BF118	Bottom cover	Cast Iron ASTM A-48 Class 40						
BF119	Cap screws	Carbon Steel						
BF120	Squeeze pins	Stainless Steel Type 304 ASTM A-479						
BF121	Thrust collar	Stainless Steel Type 420						
BF122	Thrust collar shims	Bronze						
BF123	Spring pin	Stainless Steel Type 420						
BF124	O-ring	Buna N						
BF125	Packing retainer	Nylon						
BF126	Bearings	Duralon						
BF127	Disc	Ductile Iron ASTM A-536 Grade 65-45-12						
BF128	Top stub shaft	Stainless Steel Type 304 ASTM A-276						
BF129	Bottom stub shaft	Stainless Steel Type 304 ASTM A-276						
BF130	Bottom cover	Cast Iron ASTM A-126 Class B						
BF131	Bottom cover cap	Cast Iron ASTM A-126 Class B						
BF132	Taper pins	Stainless Steel Type 630 ASTM A-564 Cond. H-1150						
BF133	Lockwashers	Stainless Steel Type 304						
BF134	Hex nuts	Stainless Steel Type 304						
BF135	O-rings	Buna N						
BF136	Thrust bearing stud	Stainless Steel Type 304						
BF137	Thrust collar	Bronze ASTM B-505 Alloy C93200						
BF138	Dowel pin	Alloy Steel						
BF139	Bottom cover gasket	Blended Fiber, Cured Nitril Binder						
BF140	O-ring	Buna N						
L	1	1						

^{*} Contact you Mueller representative for sizes larger than 48".







^{**3&}quot;, 4", 6" is ASTM A-351 CF8M Stainless Steel.



MUELLER® LINESEAL XP™ BUTTERFLY VALVES (CLASS 250B) 3" - 48"*

Rev. 9-09 Shaded area indicates changes

	Catalog number
	5227-6 Flanged (Class 250) Ends; ANSI 250lb Drilling B16.1 Sizes3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"*
	250psig (1723kPa) maximum working pressure
	Meets or exceeds all applicable requirements of ANSI/AWWA C504 Standard Class 250B; NSF 61 certified
	Body - Ductile Iron ASTM A-536 (65-45-12)
	Buried service valves: I.D. and O.D. coated
	Above ground valves (ordered with either a handwheel, position indicator on the actuator, or lever); minimum 8 mills epoxy coated interior and exterior; meets AWWA C-504 standards.
	Seat-in-body design reduces seat failure due to corrosive buildup in the valve and pipeline
	Disc edge is 316 Stainless Steel
	Disc - Ductile Iron ASTM A-536 (65-45-12) (3"-4" Stainless Steel ASTM A-531 CF8M)
	Nonmetallic bearings prevent galvanic corrosion and provides lower coefficient of friction
П	Chevron "V" type packing is self-adjusting to last the life of the valve



3"-20"



24"-48"

Options

MDT Actuator with handwheel	EPDM rubber seat and seals	Holiday testing
or chainwheel and position indicator	304/316 Stainless Steel Fasteners □	Ground level position indicator
MDT Actuator with cylinder actuator (also available with manual override, handjack and 4-way solenoid valve)	Additional 4 mils minimum Epoxy interior and/or exterior	

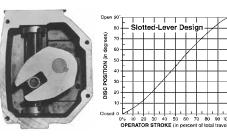
Standard Buried Service Actuators

3"-24" Standard 304 SS hardware.

Note: Actuator size subject to change based on actual pipeline conditions.

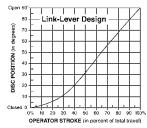
Valve size	Actuator	Number of turns			
3"-8"	MDT-2S	32			
10"-14"	MDT-3S	30			
16"-18"	MDT-4S	40			
20"-24"	MDT-5	44			
30"-36"	MDT-5S	136			
42"-48"	MDT-6S	215			

Slotted-Lever (3"-8")



Link-Lever (10"-48")

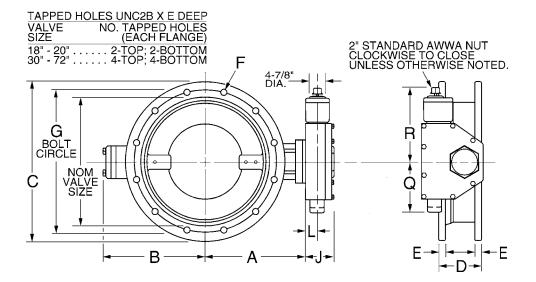




MUELLER® LINESEAL XP™ BUTTERFLY VALVES (CLASS 250B) 3"-48"* - FLANGE ENDS

Shaded area indicates change Rev. 10-11

Dimensions - for Lineseal XP Valves - Flange (ANSI B16.1 Class 250) Ends, 3"-48"* Sizes.



TAPPED H	OLES	UNC2B X E DEEP
VALVE		NO. TAPPED HOLES
SIZE		(EACH FLANGE)
18" - 20"	4(2 OVE	R BOTH SHAFT AREAS)
30" - 48"	8(4 OVE	R BOTH SHAFT AREAS)

NOTES: These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings are available upon request. Actuator size subject to change based on actual pipeline conditions.

							No	ominal si	ze						
Dimension+	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"
Α	4.75	5.50	7.25	8.50	9.75	11.50	12.75	14.00	15.25	17.00	19.75	25.63	28.13	32.13	36.25
В	3.25	3.50	8.38	9.63	11.00	12.63	13.88	15.13	16.38	17.63	20.25	26.00	31.13	35.13	39.63
С	8.25	10.00	12.50	15.00	17.50	20.50	23.00	25.50	28.00	30.50	36.00	43.00	50.00	57.00	65.00
D	5.00	5.00	6.00	8.00	8.00	8.00	12.00	12.00	12.00	12.00	12.00	12.00	15.00	15.00	15.00
E	1.13	1.25	1.44	1.63	1.88	2.00	2.13	2.25	2.38	2.50	2.75	3.00	3.38	3.69	4.00
F (number and size of	888	888	1288	12 1.00	16 1.12	16 1.25	20 1.25	20 1.38	20 1.38	20 1.38	24 1.62	20 2.00	24 2.25	28 2.25	32 2.25
holes)**			-						41.25	41.25		81.50	82.00	82.00	82.00
G	6.63	7.88	10.63	13.00	15.25	17.75	20.25	22.50	24.75	27.00	32.00	39.25	46.00	52.75	60.75
J	4.69	4.69	4.69	4.69	5.63	5.63	5.63	6.38	6.38	7.56	7.56	7.56	8.31	11.13	
L	2.00	2.00	2.00	2.00	2.44	2.44	2.44	2.84	2.84	3.49	3.49	3.49	3.94	5.06	
Q	4.50	4.50	4.50	4.50	5.38	5.38	5.38	6.75	6.75	10.00	10.00	10.00	15.94	14.19	ACT
R	8.25	8.25	8.25	8.25	10.38	10.38	10.38	11.31	11.31	17.00	17.00	17.00	19.88	26.50	NTA
Turns to Open	32	32	32	32	30	30	30	40	40	44	44	44	136	215	COL
Actuator (see notes)	MDT-2S	MDT-2S	MDT-2S	MDT-2S	MDT-3S	MDT-3S	MDT-3S	MDT-4S	MDT-4S	MDT-5	MDT-5	MDT-5	MDT-5S	MDT-6S	

⁺All dimensions are in inches.

^{*}Consult your Mueller representative for sizes larger than 48".

^{**}Top row: number and size of clearance holes for bolts; bottom row: number and size of threaded holes for studs.



MUELLER[®] LINESEAL XPII[™] BUTTERFLY VALVES (CLASS 250B) 3" - 48"*

Rev. 9-09 Shaded area indicates changes

	Catalon	number
_	Catalou	Hullibul

5227-6 Flanged (Class 250) Ends*; **ANSI B16.1 Class 125**

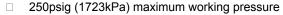
Sizes--3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"*

5227-20 Mechanical joint ends (with mechanical joint unassembled accessories) Sizes--4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"*

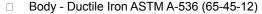
5227-23 Mechanical joint ends (without mechanical joint accessories) Sizes--4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"*

5227-16 Flanged x Mechanical joint ends (with mechanical joint accessories) Sizes--6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36"

5227-19 Flanged x Mechanical joint ends (without mechanical joint accessories) Sizes--6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36"



Meets or exceeds all applicable requirements of ANSI/AWWA C504 Standard Class 250B;
 NSF 61 certified



Buried service valves: I.D. and O.D. coated

Above ground valves (ordered with either a handwheel, position indicator on the actuator, or lever); minimum 8 mills epoxy coated interior and exterior.

Seat-in-body design reduces seat failure due to corrosive buildup in the valve and pipeline (24"-48")

□ Disc edge is 316 Stainless Steel

□ Disc - Ductile Iron ASTM A-536 (65-45-12) (3", 4", 6" Stainless Steel ASTM A-531 CF8M)

 Through-disc pinning provides a tight disc-to-shaft pin connection, greatly reducing the possibility of loosening through vibration

Symetrical disc for higher Cv and lower head loss (3"-20")

Nonmetallic bearings prevent galvanic corrosion and provides lower coefficient of friction

Chevron "V" type packing is self-adjusting to last the life of the valve



3"-20"



24"-48"

Options

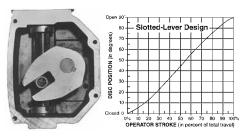
- MDT Actuator with handwheel or chainwheel and position indicator
 - MDT Actuator with cylinder actuator (also available with manual override, handjack and 4-way solenoid valve)
- EPDM rubber seat and seals
- Holiday testing
- 304/316 Stainless Steel Fasteners
- Ground level position indicator
- Additional mils available
 Epoxy interior and/or exterior

Standard Buried Service Actuators

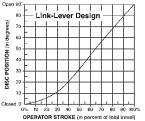
Note: Actuator size subject to change based on actual pipeline conditions.

Valve size	Actuator	Number of turns
3"-8"	MDT-2S	32
10"-14"	MDT-3S	30
16"-18"	MDT-4S	40
20"-24"	MDT-5	44
30"-36"	MDT-5S	136
42"-48"	MDT-6S	215

Slotted-Lever (3"-8")







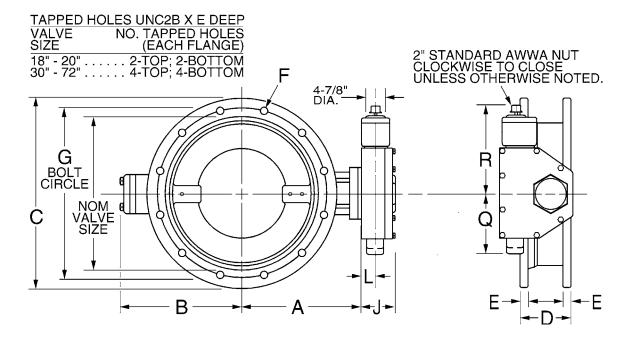
^{*} Consult your Mueller representative for sizes larger than 48" or for valves with Class 125 flanges.

MUELLER® LINESEAL XPII™ BUTTERFLY VALVES (CLASS 250B) 3"-48" - FLANGE ENDS

11.13

Shaded area indicates change Rev. 9-09

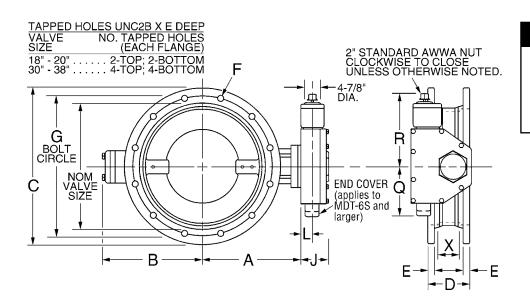
Dimensions - for Lineseal XPII Valves - Flange (ANSI B16.1 Class 125) Ends, 3"-48"* Sizes.



NOTES: These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings are available upon request. Actuator size subject to change based on actual pipeline conditions.

p							N	ominal siz	:e						
Dimension+	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"
Α	4.75	5.50	6.50	7.75	9.00	10.50	11.88	13.50	14.38	16.00	18.63	21.50	25.44	29.88	34.06
В	3.25	3.50	5.13	6.50	9.88	11.38	12.75	14.38	15.25	16.88	18.38	24.13	28.00	32.69	36.88
С	7.50	9.00	11.00	13.50	16.00	19.00	21.00	23.50	25.00	27.50	32.00	38.75	46.00	53.00	59.50
D	5.00	5.00	5.00	6.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	12.00	12.00	12.00	15.00
E	.75	.94	1.00	1.13	1.19	1.25	1.38	1.44	1.56	1.69	1.88	2.13	2.38	2.63	2.75
F (number and size of holes)	463	863	875	875	1288	1288	121.00	161.00	161.13	201.13	201.25	281.25	321.50	361.50	441.50
G	6.00	7.50	9.50	11.75	14.25	17.00	18.75	21.25	22.75	25.00	29.50	36.00	42.75	49.50	56.00
J	4.69	4.69	4.69	4.69	5.63	5.63	5.63	6.38	6.38	7.56	7.56	8.31	8.31	9.88	9.88
L	2.00	2.00	2.00	2.00	2.44	2.44	2.44	2.84	2.84	3.47	3.47	3.47	3.47	5.06	5.06
Q	4.25	4.25	4.25	4.25	5.38	5.38	5.38	6.75	6.75	10.00	10.00	15.94	15.94	14.19	14.19
R	8.25	8.25	8.25	8.25	10.38	10.38	10.38	11.31	11.31	17.00	17.00	19.88	19.88	26.50	26.50
Turns to Open	32	32	32	32	30	30	30	40	40	44	44	44	136	215	215
Actuator (see notes)	MDT-2S	MDT-2S	MDT-2S	MDT-2S	MDT-3S	MDT-3S	MDT-3S	MDT-4S	MDT-4S	MDT-5	MDT-5	MDT-5	MDT-5S	MDT-6S	MDT-6S

Dimensions - for Lineseal XPII Valves - Mechanical Joint Ends, 4"-48" Sizes.



CAUTION

consult installation instructions supplied with valve for specific installation procedures.

NOTES: These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings are available upon request. Actuator size subject to change based on actual pipeline conditions.

							Nomn	al Size						
Dimension+	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"
A	5.50	6.50	7.75	9.00	10.50	11.88	13.50	14.38	16.00	18.63	21.50	25.44	29.88	34.06
В	3.50	5.13	6.50	9.88	11.38	12.75	14.38	15.25	16.88	18.38	24.13	28.00	32.75	36.88
С	9.00	11.00	13.25	15.56	17.94	20.31	22.56	24.69	27.09	31.56	39.00	45.88	53.00	59.88
D	8.13	8.50	8.63	9.25	9.25	11.50	12.00	12.25	12.50	13.25	18.00	22.00	22.00	24.00
E	1.00	1.00	1.13	1.19	1.25	1.31	1.38	1.38	1.50	1.63	1.81	2.00	2.00	2.00
F (number and size of holes	475	675	675	83/4	875	1075	1275	1275	1475	1675	201.00	241.00	28 1.25	32 1.25
G	7.50	9.50	11.75	14.00	16.25	18.75	21.00	23.25	25.50	30.00	36.88	43.75	50.63	57.50
J	4.69	4.69	4.69	5.63	5.63	5.63	6.38	6.38	7.56	7.56	8.31	8.31	10.19	10.19
L	2.00	2.00	2.00	2.44	2.44	2.44	2.84	2.84	3.47	3.47	3.94	3.94	5.06	5.06
Q	4.25	4.25	4.25	5.38	5.38	5.38	6.75	6.75	10.00	10.00	15.94	15.94	14.19	14.19
R	8.25	8.25	8.25	10.38	10.38	10.38	11.31	11.31	17.00	17.00	19.88	19.88	26.50	26.50
Х	3.13	3.50	3.63	4.25	4.25	4.50	5.00	5.25	5.50	6.38	10.00	14.00	14.00	16.00
Turns to Open	32	32	32	30	30	30	40	40	44	44	136	136	215	215
Actuator (see notes)	MDT-2S	MDT-2S	MDT-2S	MDT-3S	MDT-3S	MDT-3S	MDT-4S	MDT-4S	MDT-5	MDT-5	MDT-5S	MDT-5S	MDT-6S	MDT-6S

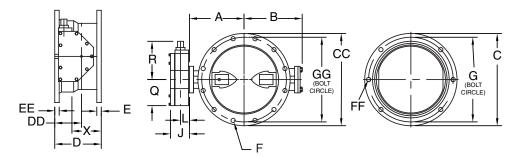
⁺All dimensions are in inches.

MUELLER® LINESEAL XPII[™] BUTTERFLY VALVES (CLASS 250B) 6"-36" - FL x M.J. ENDS

11.15

Shaded area indicates change Rev. 9-09

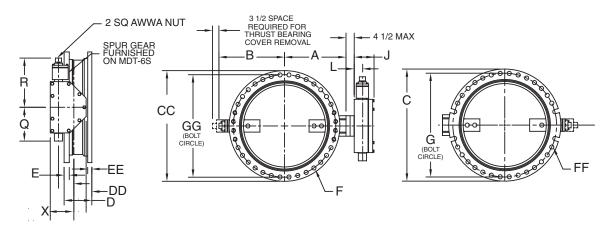
Dimensions - for Lineseal XPII Valves - Flange Ends x Mechanical Joint Ends 6"-20" Sizes.



CAUTION

When using 10" and 12"
MJ End Valves on
Class 200 C900 PVC Pipe,
consult installation instructions
supplied with valve for specific
installation procedures.

Dimensions - for Lineseal XPII Valves - Flange Ends x Mechanical Joint Ends 24"-36" Sizes.



NOTES: These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings are available upon request. Actuator size subject to change based on actual pipeline conditions.

Dimension+		Nomnal Size												
Dimension+	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"			
Α	6.50	7.75	9.00	10.50	11.88	13.50	14.38	16.00	18.63	21.50	25.44			
В	5.13	6.50	9.88	11.38	12.75	14.38	15.25	16.88	18.63	24.38	28.25			
С	11.00	13.50	16.00	19.00	21.00	23.50	25.00	27.50	32.00	38.75	46.00			
CC	11.00	13.25	15.56	17.94	20.31	22.56	24.69	27.09	31.56	39.00	45.88			
D	6.75	7.31	8.63	8.63	9.75	10.00	10.13	10.25	10.63	15.00	17.00			
DD	4.25	4.31	4.63	4.63	5.75	6.00	6.13	6.25	6.63	9.00	11.00			
E	1.06	1.13	1.25	1.25	1.38	1.44	1.56	1.69	1.88	2.13	2.38			
EE	1.06	1.13	1.19	1.25	1.31	1.38	1.44	1.50	1.63	1.81	2.00			
F (number and size of holes	875	875	1288	1288	121.00	161.00	161.13	201.13	201.25	281.25	321.50			
FF	675	675	875	875	1075	1275	1275	1475	1675	201.00	241.00			
G	9.50	11.75	14.25	17.00	18.75	21.25	22.75	25.00	29.50	36.00	42.75			
GG	9.50	11.75	14.00	16.25	18.75	21.00	23.25	25.50	30.00	36.88	43.75			
J	4.69	4.69	5.63	5.63	5.63	6.38	6.38	7.56	7.56	8.31	8.31			
L	2.00	2.00	2.44	2.44	2.44	2.84	2.84	3.47	3.47	3.94	3.94			
Q	4.25	4.25	5.38	5.38	5.38	6.75	6.75	10.00	10.00	15.94	15.94			
R	8.25	8.25	10.38	10.38	10.38	11.31	11.31	17.00	17.00	19.88	19.88			
X	4.25	4.81	6.13	6.13	6.25	6.50	6.63	6.75	7.13	11.00	13.00			
Turns to Open	32	32	30	30	30	40	40	44	44	136	136			
Actuator (see notes)	MDT-2S	MDT-2S	MDT-3S	MDT-3S	MDT-3S	MDT-4S	MDT-4S	MDT-5	MDT-5	MDT-5S	MDT-5S			

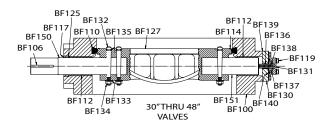


MUELLER® LINESEAL XP™ & XPII™ BUTTERFLY VALVES (CLASS 250B) 3"- 48"*-PARTS

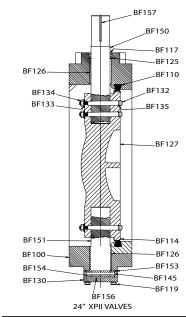
Rev. 9-09 Shaded area indicates changes

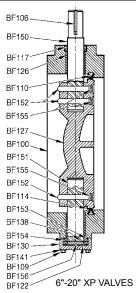
Lineseal XP & XPII Butterfly Valve Replacement Parts

Catalog Part No.	Description	Material
BF100	Body	Ductile Iron ASTM A-536 (65-45-12)
BF101	Disc	Ductile Iron ASTM A-536 (65-45-12), Edge Type 316 Stainless Steel (3" and 4" Cast Stainless Steel Grade CF8M)
BF102	Shaft	Stainless Steel ASTM A-564 Type 630 Cond. H-1150
BF103	Squeeze Pin	Stainless Steel ASTM A-564 Type 630 Cond. H-1150
BF106	Key	Steel AISI C-1045
BF107	Cover	Cast iron ASTM A-48 Class 40
BF108	Lockwasher	Stainless ASTM A-276 Type 304
BF109	Capscrew	Stainless ASTM A-276 Type 304
BF110	Seat	Buna N (EPDM optional)
BF111	Plug	Stainless Steel
BF112	Bearings	PTFE Lined Stainless Steel (3"-4" Nylon)
BF114	Disc edge	Stainless Steel ASTM A-240 Type 316
BF117	Packing	Buna N Chevron V Type
BF119	Capscrews	Stainless Steel Type 304
BF125	Packing retainer	Nylon
BF126	Bearings	PTFE Lined, Fiberglass backed
BF127	Disc	Ductile Iron ASTM A-536 Grade 65-45-12
BF130	Bottom cover	Cast Iron ASTM A-126 ClassB
BF131	Bottom cover cap	Cast Iron ASTM A-126 ClassB
BF132	Taper pins	Stainless Steel Type 630 ASTM A-564 Cond. H-1150
BF133	Lockwashers	Stainless Steel Type 304
BF134	Hex nuts	Stainless Steel Type 304
BF135	O-rings	Buna N (EPDM Optional)
BF136	Thrust bearing stud	Stainless Steel ASTM A-564 Type 630 Cond. H-1150
BF137	Thrust collar	Bronze ASTM B-505 Alloy C93200
BF138	Groove pin	Alloy Steel
BF139	Bottom cover gasket	Non Asbestos material ASTM F104
BF140	O-ring	Buna N (EPDM optional)
BF150	Top stub shaft	Stainless Steel Type 630 ASTM A-564 Cond. H1150
BF151	Bottom stub shaft	Stainless Steel Type 630 ASTM A-564 Cond. H1150
BF152	Squeeze Pins	Stainless Steel
BF153	O-ring	Buna N (EPDM Optional)
BF154	Thrust collar	Bronze ASTM B-505 Alloy C93200
BF156	Thrust shim	Brass Alloy C26000 Half Hard (HO2)
BF157	Key	Carbon Steel ANSI 1018



BF106-





BF117
BF100
BF112
BF103
BF102
BF101
BF110
BF112
BF105
BF107
BF108
3"and 4"XP
BF109
BF109
BF109
BF111
3"-8" VALVES XPII

^{*} Contact your Mueller representative for sizes larger than 48".

MUELLER® LINESEAL III®, XP™, XPII™ BUTTERFLY VALVE ORDERING INSTRUCTIONS



11.17

Shaded area indicates change Rev. 9-09

Ordering Instructions for MUELLER LINESEAL III, XP, XPII Butterfly Valves with Manual Actuators

1. Quantity:	Please note below any additional information or requirements such as extended bonnets and torque tubes, floor stand mounted actuators, special actuator					
2. Size of Valve:						
3. Body Style:	positioning, and special coatings.					
FLG x FLG (3"-48" ANSI B16.1 Class 125)						
FLG x FLG (3"-48" ANSI B16.1 Class 250)	PLEASE PROVIDE AS MUCH DESCRIPTIVE INFORMATION AND/OR SPECIFICATIONS AS					
MJ x MJ (4"-48")	POSSIBLE TO ENABLE US TO PROVIDE THE MOST					
FLG x MJ (6"-36")	SUITABLE VALVE FOR YOUR NEEDS. DO NOT HESITATE TO ATTACH ADDITIONAL PAGES.					
SLP x SLP (12" or 16")						
FLG x SLP (12" or 16")						
Other:						
Note: MJ valves are supplied without accessory kits standard.						
4. Class of valve(150B or 250B)						
5. Please provide the following information in addition to						
the valve class (if known) listedin question 4. PRESSURE: Normalpsig Maximumpsig						
FLOW: Normalpsig Maximumpsig						
6. Type of service: Water Air						
7. Type of operation: Handwheel 2" Square nutIntegral disc position indicator Extension stem (stem length)	Accessory items required (Stems Guides, Ground Line Position Indicators, Floor Stands, etc.) **					
8. Direction of opening: Counter clockwise Clockwise						
9. Coating Requirement*:						
mils of Ameron 370 (4 or 8 standard)						
10. Number of certificates of compliance to AWWA C504						
required:						

^{*}In order to provide valves that meet NSF 61 requirements and certify to that, Ameron 370 will be the paint supplied between 4-24mils thickness. Other paints or mil thickness greater 24 mils will not be NSF 61 compliant.

^{**} Accessory items are listed on pages 11.3, 11.10 and 11.12

11.18



MUELLER® LINESEAL III®, XP™, XPII™ BUTTERFLY VALVE ORDERING INSTRUCTIONS

Rev. 9-09 Shaded area indicates changes

Ordering instructions for MUELLER LINESEAL III, XP, XPII Butterfly Valves with Electric Actuators

1. Quantity:	13. Accessories: Manual Override Limit						
2. Size of Valve:	Switches Potentiometer Reversing Starter Motor Heater Extended Duty						
3. Body Style:	Motor Other						
FLG x FLG (3"-48" ANSI B16.1 Class 125)	14. Valve Function: Open/Close						
FLG x FLG (3"-48" ANSI B16.1 Class 250)	Modulating						
MJ x MJ (4"-48")	15. Application: Buried Submerged In-plant Above Ground						
FLG x MJ (6"-36")	16. Coating Requirement*:						
Other:	mils of Ameron 370 (4 or 8 standard)						
Note: MJ valves are supplied without accessorty kits standard.	17. Number of Certificates of Compliance to AWWA						
4. Class of valve(150B or 250B)	C-504 required.						
5. Please provide the following information in addition to the valve class (if known) listed in question 4. PRESSURE: Normalpsig Maximumpsig	Please note below any additional information or requirements such as extended bonnets and torque tubes, floor stand mounted actuators, special actuator positioning, and special continues.						
FLOW: Normal psig Maximumpsig	positioning, and special coatings.						
6. Type of service: Water Air	PLEASE PROVIDE AS MUCH DESCRIPTIVE INFORMATION AND/OR SPECIFICATIONS AS						
7. Maximum Fluid Line Temperature °F.	POSSIBLE TO ENABLE US TO PROVIDE THE MOST SUITABLE VALVE FOR YOUR NEEDS. DO NOT HESITATE TO ATTACH ADDITIONAL PAGES.						
8. Direction of Opening: Counter Clockwise Clockwise							
9. Power source Available: Volts Phase HZ							
10. Operating Time from Full Open to Full Close: Min Sec							
11. Enclosure Classification: Weatherproof Explosion Proof Submersible							
12. Push Button Station Required: Yes No							
	Accessory items required (Stems Guides, Ground Line Position Indicators, Floor Stands, etc.): **						

^{*}In order to provide valves that meet NSF 61 requirements and certify to that, Ameron 370 will be the paint supplied between 4-24mils thickness. Other paints or mil thickness greater 24 mils will not be NSF 61 compliant.

^{**} Accessory items are listed on pages 11.3, 11.10 and 11.12.

MUELLER[®] LINESEAL III[®], XP[™], XPII[™] BUTTERFLY VALVE ORDERING INSTRUCTIONS



11.19

Shaded area indicates change Rev. 9-09

Ordering Instructions for MUELLER LINESEAL III, XP, XPII Butterfly Valves with Cylinder Actuators†

1. Quantity:	14. Maximum Fluid Line Temperature°F.				
2. Size of Valve:	15. Coating Requirement*:				
3. Body Style:					
FLG x FLG (3"-48" ANSI B16.1 Class 125)	mils of Ameron 370 (4 or 8 standard)				
FLG x FLG (3"-48" ANSI B16.1 Class 250)					
MJ x MJ (4"-48")	 Number of Certificates of Compliance to AWWA C-504 required. 				
FLG x MJ (6"-36")					
Other: Note: MJ valves are supplied without accessorty kits standard.	Please note below any additional information or requirements such as extended bonnets and torque tubes, floor stand mounted actuators, special actuator positioning, and special coatings.				
4. Class of valve	PLEASE PROVIDE AS MUCH DESCRIPTIVE INFORMATION AND/OR SPECIFICATIONS AS				
5. Please provide the following information in addition to the valve class (if known) listed in question 4. PRESSURE: Normalpsig Maximumpsig FLOW: Normalpsig Maximumpsig	POSSIBLE TO ENABLE US TO PROVIDE THE MOST SUITABLE VALVE FOR YOUR NEEDS. DO NOT HESITATE TO ATTACH ADDITIONAL PAGES.				
6. Type of service: Water Air					
7. Cylinder Supply Available: Water Air Air/Oil Oil					
Minimum Supply Pressure Available to Actuate Cylinder:psig					
9. Fail Safe Spring Return Required? Yes No	Accessory items required (Stems Guides, Ground Line Position Indicators, Floor Stands, etc.):**				
10. Manual Override Required? Yes No					
11. Accessories: Speed Control Positioner					
Solenoid Limit Switches (qty) Other					
12. Cylinder Material: Non-Metallic Metallic					
13. Valve Function: Open/Close Modulating					

^{*}In order to provide valves that meet NSF 61 requirements and certify to that, Ameron 370 will be the paint supplied between 4-24mils thickness. Other paints or mil thickness greater 24 mils will not be NSF 61 compliant.

^{**}Accessory items are listed on pages 11.3, 11.10, and 11.12.

Rev. 9-09 Shaded area indicates changes



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