

EXHIBIT A
City of Boerne
Shop Drawing Transmittal No. 02660 - 02
(Spec Section) (Series)

Project Name: George's Ranch Unit 1		Date Received:			
Project Owner: The Lookout Group		Checked By:			
Contractor: VK Knowlton	Engineer: Cude Engineering	Log Page:			
Address: 18225 FM 2252 San Antonio, Tx 78266	Address: 4122 Pond Hill Rd #101 San Antonio, Tx 78231	City of Boerne No.:			
		Spec Section: 02660			
		Drawing/Detail No.:			
Attn: Derek Moczygomba	Attn: Patrick Murphy	1st. Sub	ReSub.		
Date Transmitted:	Previous Transmittal Date:				
Item No.	No. Copies	Description	Manufacturer	Mfr/Vendor Dwg or Data No.	Action Taken*
1		Butterfly Valves	Mueller		
2					
3					
4					
5					
Remarks:					

* The Action Designated Above is in Accordance with the Following Legend:

- | | |
|--|--|
| <p>A - Furnish as Submitted</p> <p>B - Furnish as Noted</p> <p>C - Revise and Submit</p> <ol style="list-style-type: none"> 1. Not enough information for review. 2. No reproducibles submitted. 3. Copies illegible. 4. Not enough copies submitted. 5. Wrong sequence number. 6. Wrong resubmittal number. 7. Wrong spec. section. 8. Wrong form used. 9. See comments. | <p>D - Rejected</p> <p>E - Engineer's review not required</p> <ol style="list-style-type: none"> 1. Submittal not required. 2. Supplemental information. Submittal retained for informational purposes only. 3. Information reviewed and approved on prior submittal. 4. See comments. |
|--|--|

Comments:

Distribution: Contractor File City of Boerne Owner Other

By _____ Date _____

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

Mueller Co.

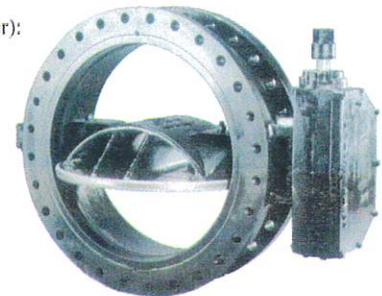
11.3

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"
 - 3211-41** Flanged Class 125 by slip-on
Sizes--12", 16"
 - 3211-38** Slip-on by slip-on
Sizes--12", 16"
- ❑ Meets or exceeds all applicable requirements of ANSI/AWWA C504 Standard Class 150B; NSF 61 certified
- ❑ Buried service valves: I.D. and O.D. coated
- ❑ Body - Cast Iron ASTM A-126
- ❑ Flanges drilled per ANSI B16.1 Class 125
- ❑ Above ground valves (ordered with either a handwheel, position indicator on the actuator, or lever): minimum 4 mills epoxy coated interior and exterior; meets AWWA C504 standard.
- ❑ Seat-in-body design reduces seat failure due to corrosive buildup in the valve and pipeline
- ❑ Through-disc pinning provides a tight disc-to-shaft pin connection, greatly reducing the possibility of loosening through vibration
- ❑ Disc edge is 316 Stainless Steel
- ❑ Disc - Cast Iron ASTM A-126 (3", 4", 6" Stainless Steel ASTM A-743 CF8M)
- ❑ Symmetrical disc for higher Cv and lower head loss
- ❑ 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"-24" Standard 304 SS hardware.



3"-20"



24"-48"

Options

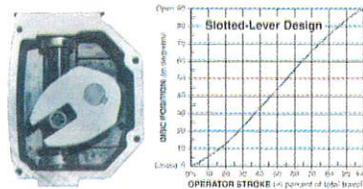
- ❑ MDT Actuator with handwheel or chainwheel and position indicator
- ❑ MDT Actuator with cylinder actuator (also available with manual override, handjack and 4-way solenoid valve)
- ❑ Hand lever for 3"-10" valves
- ❑ 200 psi test
- ❑ EPDM Rubber seat and seals
- ❑ 316 Stainless steel fasteners
- ❑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

Standard Buried Service Actuators

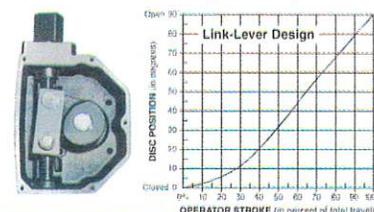
Note: Actuator size subject to change based on actual pipeline conditions.

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")



Link-Lever (14"-48")

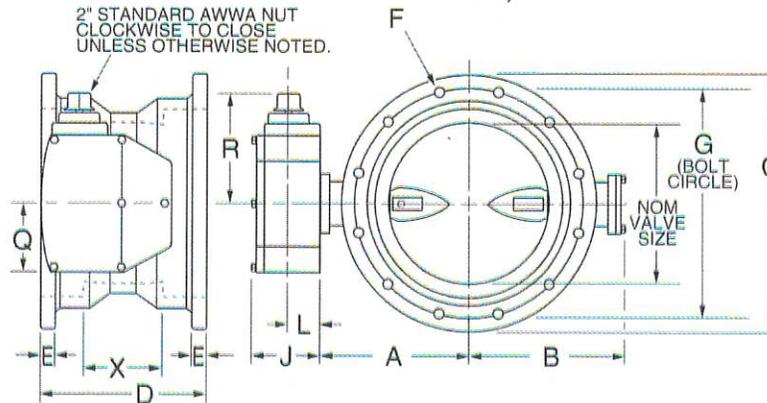


*Contact your Mueller representative for valve sizes larger than 48".

MUELLER® LINESEAL III® BUTTERFLY VALVES CLASS 150B 4"-48" - M.J. ENDS

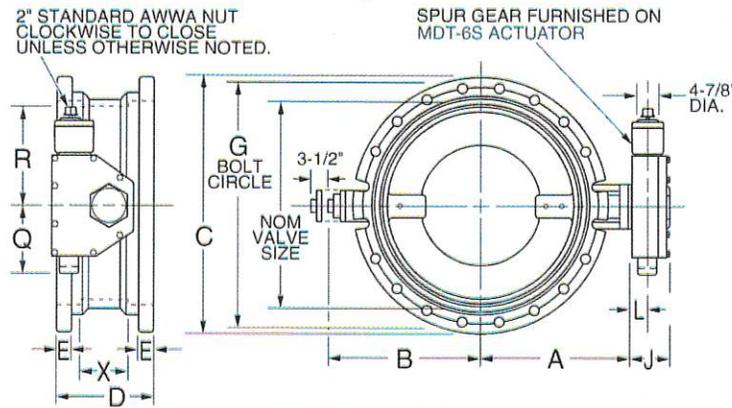
Rev. 9-09

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



Dimensions - for Mueller Line Seal 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.

Dimension+	Nominal size													
	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
B	4.13	5.13	6.50	9.75	11.38	12.75	14.50	5.38	17.00	18.38	24.13	28.00	32.75	36.88
C	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	2.25	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	.38	1.50	1.63	1.81	2.00	2.00	2.00
F (number and size of holes)	4--.75	6--.75	6--.75	8--.75	8--.75	10--.75	12--.75	2--.75	14--.75	16--.75	20--1.00	24--1.00	28--1.25	32--1.25
G	7.50	9.50	11.75	14.00	16.25	18.75	21.00	23.25	25.25	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	10.19
L	2.00	2.00	2.00	2.00	2.00	2.44	2.44	2.84	2.84	2.44	3.47	3.47	3.94	5.06
Q	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	10.38	10.38	1.31	11.31	11.31	17.00	17.00	19.88	26.50
X	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

+ All dimensions are in inches.