

City Of Lewisville Department of Public Services

Dismantling Joints Gate Valves Check Valves

1. Romac Industries, Inc. DJ405 Dismantling Joints
2. Mueller Resilient Wedge Gate Valves.
3. Mueller Check Valves

The enclosed drawings are non-engineered depictions of Dismantling Joints
They are not intended to reflect building standards for load bearing,
electrical connectivity or any other engineering requirement

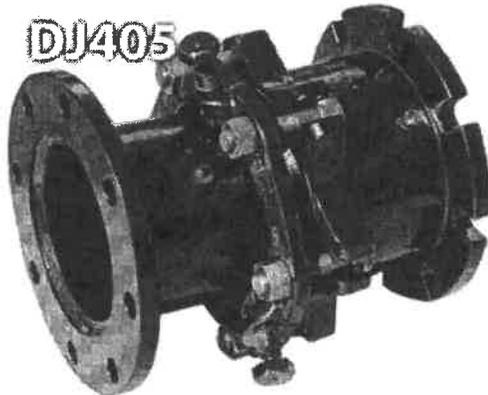


LEWISVILLE
Deep Roots. Broad Wings. Bright Future.



DISMANTLING JOINTS

Romac Industries manufactures two varieties of dismantling joints. The DJ400 and the DJ405. Both models incorporate innovative features which simplify installation, use and maintenance of your system.



The new DJ405 is Romac's newest dismantling joint development. The DJ405's design simplifies installation, allows deflection AND delivers all the features of traditional dismantling joints.

Ideal for systems that require periodic maintenance, the DJ405 can be adjusted to the desired length with up to five inches of travel within the unit. This tolerance allows access for installation or removal of valves and other fittings.

Installation is simplified by eliminating the need for tie-rods. We've replaced the tie-rods with Romac's UL rated and FM approved lug style restraint gland, the RomaGrip™. This change simplifies lengthening, shortening, installation and removal if necessary. The RomaGrip™ also accommodates deflection, something that traditional dismantling joints do not allow.

[DJ405 BROCHURE](#)
[CATALOG PAGE](#)
[SUBMITTALS: 3"-12", 14"-24"](#)
[DRAWING](#)

DJ405 MATERIALS

Flange Spool: AWWA Class D Flange compatible with ANSI class 125 and 150 bolt circles. For 3" - 12" sizes, pipe is Sch 40 ASTM A53. For 14" - 24" pipe material is ASTM A36.

Body: ASTM A536 ductile (nodular) iron meeting or exceeding Grade 65-45-12, with ANSI Class 125 and 150 bolt circles.

Gaskets: Compounded for water and sewer service in accordance with ASTM D 2000 (Sizes 3 - 12" have flange O-Ring gasket). Other compounds available for petroleum, chemical, or high temperature service.
Gland: Romac RomaGrip™.

Restraining Bolts: 7/8 -9 roll thread, Ductile (nodular) iron, meeting or exceeding ASTM A 536.

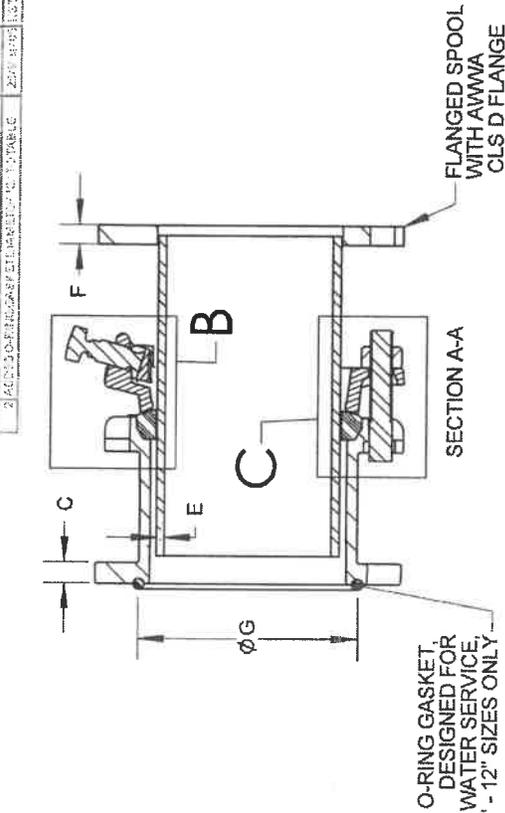
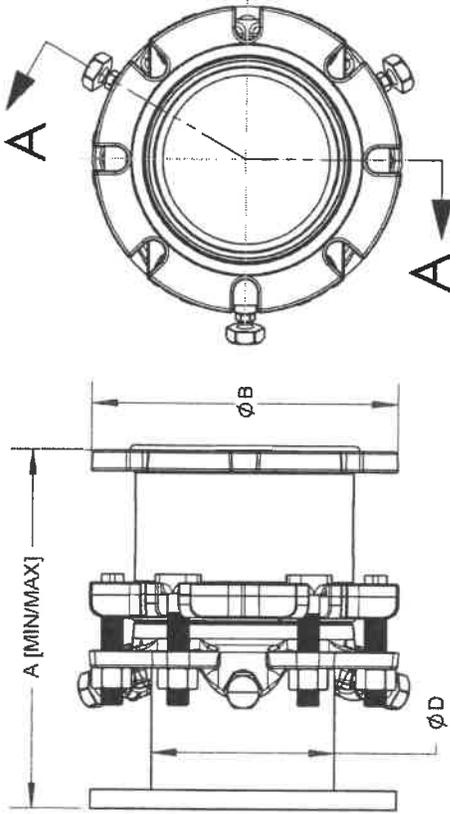
Restraining Lugs: Ductile (nodular) iron, meeting or exceeding ASTM A 536. Heat treated using a proprietary process.

Lug Locators: Polyurethane, a thermal plastic.

T-bolts and Nuts: High strength low alloy steel T-head bolt. National coarse rolled thread and heavy hex nut. Steel meets AWWA C111 composition specifications. Stainless steel bolts and nuts available on request.

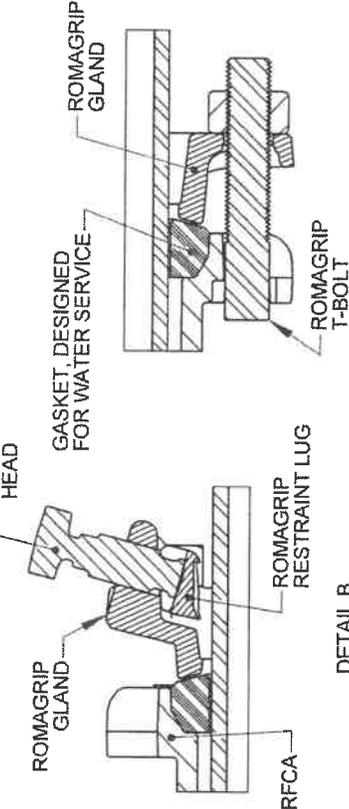
Coatings: Fusion bonded epoxy, NSF 61 certified.

B2128-A

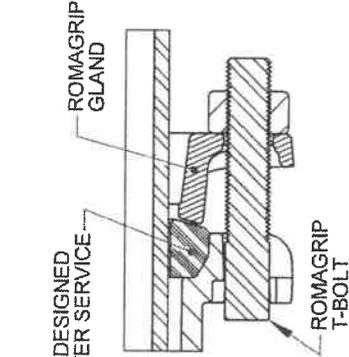


O-RING GASKET, DESIGNED FOR WATER SERVICE, 3" - 12" SIZES ONLY.

FLANGED SPOOL WITH AWWA CLS D FLANGE



DETAIL B RESTRAINT SYSTEM



DETAIL C GASKET SEALING SYSTEM

- NOTES:
1. NSF 61 CERTIFIED COATING; FUSION BONDED EPOXY IS STANDARD. OTHER COATINGS AVAILABLE UPON REQUEST.
 2. CUSTOMER MUST CONFIRM LENGTH OF ASSEMBLY TOLERANCE "A".
 3. PRESSURE RATED UP TO FLANGES PROVIDED. 3" - 12" AWWA CLS D 175 PSIG WORKING, 263 PSIG TEST. 14" - 24" AWWA CLS D 150 PSIG WORKING, 225 PSIG TEST. HIGHER PRESSURE RATINGS AND FLANGES AVAILABLE.
 4. ROMAC DJ405 DISMANTLING JOINT WILL ALLOW DEFLECTION. SEE TABLE FOR VALUES.
 5. T-BOLTS PER AWWA C111. STAINLESS STEEL FASTENERS AVAILABLE UPON REQUEST.

NOM SIZE	LENGTH "A"		FLG		MAX DEFL. (DEG)	T-BOLTS		FLANGED SPOOL		RFCA	WGT (LBS)		
	NOM.	MIN	MAX	OD "B"		FLG THK "C"	QTY	SIZE	LENGTH			PIPE THK "D"	FLG THK "E"
3	11.50	10.00	13.00	7.5	0.75	4	5/8"	3.75	3.50	0.22	0.63	4.66	33
4	12.75	11.00	14.50	9.0	0.75	4	3/4"	4.25	4.50	0.24	0.63	6.00	46
6	13.50	11.50	15.50	11.0	0.75	6	3/4"	4.25	6.63	0.28	0.69	7.90	68
8	13.50	11.50	15.50	13.5	0.75	6	3/4"	4.25	8.63	0.32	0.69	10.00	94
10	14.75	12.50	17.00	16.0	0.75	8	3/4"	4.25	10.75	0.37	0.69	12.40	143
12	14.75	12.50	17.00	19.0	0.81	8	3/4"	4.25	12.75	0.38	0.81	15.12	193
14	19.25	16.75	21.75	21.0	1.38	2.0	3/4"	4.50	15.30	0.38	0.94	-	297
16	19.25	16.75	21.75	23.5	1.44	2.0	3/4"	4.50	17.40	0.38	1.00	-	352
18	20.25	17.75	22.75	25.0	1.45	1.5	3/4"	4.50	19.50	0.38	1.06	-	390
20	20.25	17.75	22.75	27.5	1.47	1.5	3/4"	4.50	21.60	0.38	1.13	-	457
24	21.25	18.75	23.75	32.0	1.50	1.5	3/4"	5.00	25.80	0.38	1.25	-	569

ROMAC IND., INC., SEATTLE, WA

DISMANTLING JOINT DJ405 3" - 24"

DATE: 27 DEC 2002

DESIGNED BY: NIELS THOGERSEN III

CHECKED BY: GEORGE DENISON

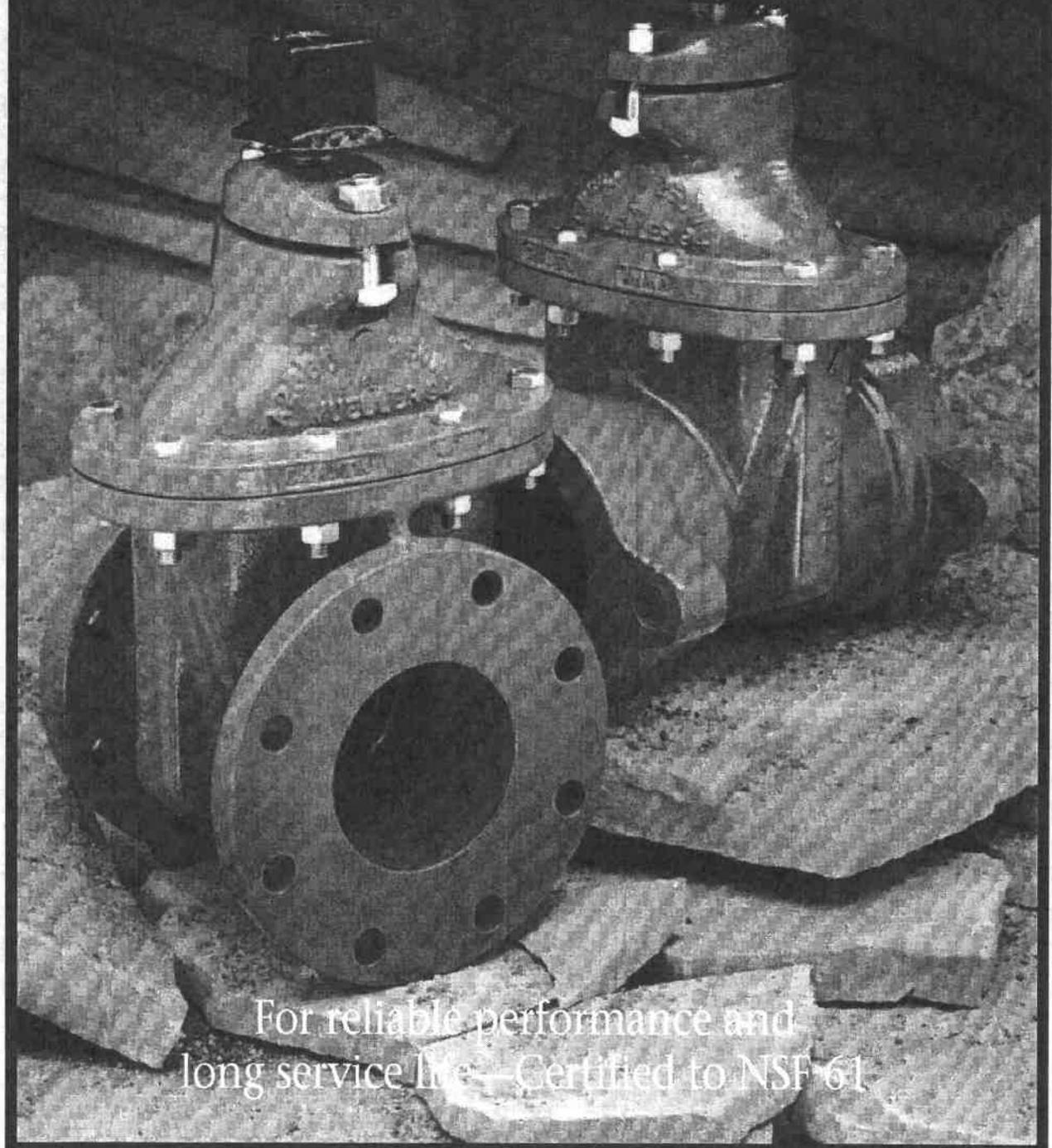
MATERIAL: ASTM A536, ASTM A36

SCALE: NTS

SHEET 1 OF 1

THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND IS THE PROPERTY OF ROMAC IND., INC. IT IS TO BE USED ONLY FOR THE PURPOSE FOR WHICH IT'S SUBMITTED AND SHALL NOT HAVE ITS INFORMATION DISCLOSED OR REPRODUCED IN WHOLE OR IN PART FOR ANY PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF ROMAC IND., INC.

Mueller® Resilient-Wedge Gate Valves



For reliable performance and
long service life — Certified to NSF 61

Mueller Co.

Mueller® Resilient Wedge Gate Valve

2"-12" sizes*

**10-YEAR
LIMITED
WARRANTY**



Triple O-rings & Dirt Seal — A dirt seal at the top keeps out debris. Two O-rings above the stem thrust collar bearing area isolate it from ground contaminants, and one below isolates it from the waterway. The upper two O-rings and the dirt seal can easily be replaced in the line while the valve is under pressure in the fully open position.

Forged bronze stem and thrust collar — This time-tested Mueller design has two thrust washers and has repeatedly proven its superior strength over cast stems.

Bronze stem nut — The nut is electrically isolated from the iron in the wedge for corrosion resistance. The nut is held tightly in place to resist stem binding.

O-ring — Provides superior bonnet seal.**

Polymer wedge guide bearing caps — Provide bearing surface between the encapsulated wedge and the interior epoxy coating, lowering operating torque and extending service life of the valve.

Oversized, full port opening, smooth waterway — The bottom of the waterway has no grooves or recesses to collect sediment or debris and compromise the seal. Accommodates full-sized shell cutters with ample clearance during tapping operations.

Mueller® PRO-GARD™ Epoxy Coating System — The superior fusion-bonded (thermosetting) powder epoxy covers the interior and exterior with a thickness of 10 mils nominal. The powder epoxy coating fully complies with ANSI/AWWA Standard C550.

Integral legs — Flats cast in the bottom of the valve body let the valve stand upright in storage or during installation.

Triple Listed

- Valve fully complies with **AWWA C509**
- Listed by **Underwriters Laboratory Inc.** and **ULC**
- Approved by **Factory Mutual Corp.**

*Contact Mueller for sizes up to 48"

**2"-3" valves use flat bonnet flange gasket

Optimized design for consistent performance and long-lasting corrosion resistance

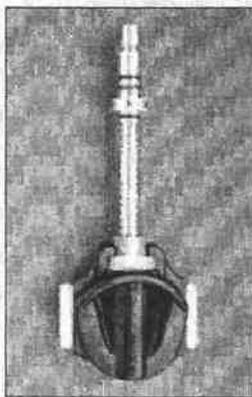
■ The Mueller® 2360 Series™ Resilient Wedge Gate Valve is a symmetrical design with refinements to enhance reliability and service life. Special features protect critical areas of the valve from damage, wear and corrosion. The entire valve is certified to ANSI/NSF Standard 61.

100% elastomer-encapsulated symmetrical wedge

The iron wedge is completely encapsulated by an elastomer, without thin spots or voids. There are no uncoated or weak places for corrosion to start or for the elastomer to begin to peel away.

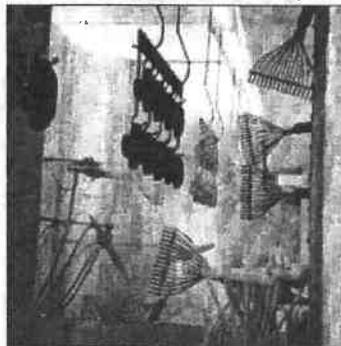
Extra-long guides stabilize the wedge and prevent binding. Polymer bearing caps protect the wedge guides and interior epoxy coating from damage or wear, even after thousands of cycles under full differential pressure and flow.

The shape of the iron wedge casting and the elastomeric encapsulation are specially designed to provide a positive stop, without overstressing the elastomer or epoxy lining. This avoids splitting the elastomeric encapsulation or crushing the epoxy, and the operator is given positive feedback indicating when the valve is fully closed. It also assures a consistent number of turns to operate the valve.



Superior powder epoxy coating

The valve is covered inside and out with Mueller® PRO-GARD™ Epoxy Coating, an exceptional fusion-bonded powder epoxy.



The powder epoxy protective coating acts as a physical, chemical and electrical barrier between the valve's base metal and the surroundings.

Mueller products receiving our PRO-GARD powder epoxy coating.

Mueller PRO-GARD Epoxy Coating is suitable for field overcoating and touch-up without sanding, special surface preparation or the application of heat. The powder epoxy is non-toxic and imparts no taste to water.

Strength, selection and versatility

The valve is rated at 250 psig working pressure, 25% higher than that stipulated by the AWWA standard, and hydrostatically shell tested at 500 psig. The computer-aided design allows all areas of the valve to be optimized for strength, removing excess weight. Yet the valve includes Mueller's extra-strength safety factors that surpass the minimums set by AWWA standards. The 2360 series valve fully complies with AWWA C509.

End connections include combinations of flanged, mechanical joint, slip-on, radial and threaded. Most end connections are available in the full range of sizes from 2" through 12". Tapping, cut-in, post indicator (PIV), and OS&Y valves are also offered. The valve can be installed in any position.

Resilient wedge gate valves are carefully packaged and palletized prior to shipment, helping assure the valves with their powder epoxy coating arrive to you undamaged.

Mueller plant has ISO 9001 certification

The valve manufacturing facility in Chattanooga has the highest ISO rating available — your assurance of quality products and services.

Resilient wedge valves to 48" are available

Refer to the Mueller Water Products Catalog for information about Mueller® 2361 Series™ Ductile Iron Resilient Wedge Valves 14"-48". These larger valves share many of the same features contributing to easy operation, enhanced reliability and long service life as the 2360 Series valves described in this brochure.

Styles and sizes

The Mueller® 2360 Series™ Resilient Wedge Gate Valve 2"-12" is available as a non-rising stem (NRS) valve in 2"-12" sizes ("A" catalog number prefix), and as an OS&Y valve in 2-1/2"-16" sizes ("R" prefix). It is also available in tapping ("T" prefix) and cut-in ("C" prefix) valve styles. *NOTE: All valves with mechanical joint ends are available less accessories.

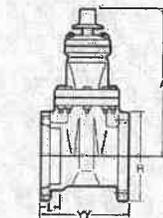
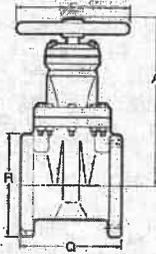
A UL/FM post indicator style valve ("P" prefix) in 4"-16" sizes and selected types of end connections is available (also as a tapping valve—"T" prefix).

Resilient wedge valves with flange x flange, MJ x flange, and MJ x MJ ends in sizes 14"-48" (14"-18" also with slip-on x slip-on and slip-on x flange) are offered with many of the features described in this brochure, but may vary in design details.

DIMENSIONS FOR MUELLER® RESILIENT WEDGE GATE VALVE — INCHES (Refer to catalog for dimensions of valves 14" - 48")

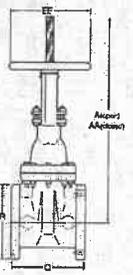
Dimensions*	Valve size — Nominal sizes							
	2"	2-1/2"	3"	4"	6"	8"	10"	12"
A NRS OS&Y Open	9.88	12.38	12.38	14.19	18.00	21.50	25.50	28.62
	—	19.50	19.25	23.68	31.38	38.50	47.00	53.50
E Diameter of handwheel	6.00	6.00	8.00	11.00	13.00	14.00	16.00	16.00
F Depth of socket	—	—	—	3.70	3.70	3.70	3.89	3.89
H Radial — end-to-end	10.25	10.75	11.75	13.43	15.91	18.40	—	—
I Depth of socket	3.50	3.69	4.12	4.46	5.46	6.20	—	—
K MJ — end-to-end	8.50	—	9.00	10.00	11.50	12.60	14.75	14.88
L Depth of socket	2.50	—	2.50	2.50	2.50	2.50	2.50	2.50
Q Flanged — face-to-face	7.00	7.50	8.00	9.00	10.50	11.50	13.00	14.00
R Outside diameter	6.00	7.00	7.50	9.00	11.00	13.50	16.00	19.00
V Threaded end-to-end	5.88	5.88	6.88	—	—	—	—	—
AA OS&Y Closed	—	15.75	15.50	19.00	24.50	29.50	35.75	40.50
BB Slip-on — end-to-end	—	—	—	12.81	14.81	17.88	18.43	18.62
CC Depth of socket	—	—	—	4.12	4.38	5.62	5.62	5.62
EE OS&Y Handwheel diameter	—	7.00	7.00	10.00	12.00	14.00	16.00	16.00
FF AG x AG — end-to-end	—	—	—	12.68	15.12	16.94	18.06	18.90
AG x Flg — end-to-end	—	—	—	10.84	12.81	14.22	15.53	16.45
AG x MJ — end-to-end	—	—	—	11.34	13.31	14.72	16.41	16.89
KK Restraint — connection Assy	—	—	—	2.75	3.75	3.75	3.75	3.75
YY MJ x Flg. — end-to-end	—	—	—	9.50	11.00	12.00	13.88	14.44
GGG Slip-on x Flg. — end-to-end	—	—	—	10.91	12.66	14.69	15.72	16.31
Turns to open — NRS	8	11	11	14	20.5	26.5	33	38.5
	—	11	11	14	20.5	27	33.5	39
Weight* — Flg. x Flg.	37	71	73	95	154	250	402	502
MJ x Flg.**	—	—	—	115	168	275	418	526
MJ x MJ**	40	—	83	120	186	280	436	546
Slip-on x Flg.	—	—	—	92	152	250	405	526
Slip-on x Slip-on	—	—	—	90	151	247	392	513
Rad. x Rad.	35	65	67	96	155	260	—	—
Thd. x Thd.	31	60	62	—	—	—	—	—
AG x AG	—	—	—	119	162	256	380	475
AG x Flg	—	—	—	107	149	225	365	450
AG x MJ	—	—	—	108	169	294	395	565

*All dimensions are in inches. All weights are for NRS valves; in pounds and are approximate.
**Weight includes accessories.

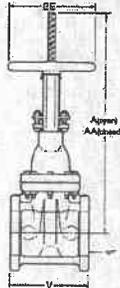


Mechanical Joint x Flange
A-2360-16**
T-2360-16 (Tapping Valve)**

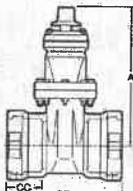
Flange x Flange
A-2360-6



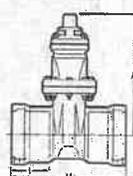
OS&Y
Flange x Flange
R-2360-6



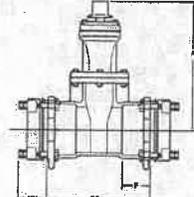
OS&Y
Threaded x Threaded
R-2360-8



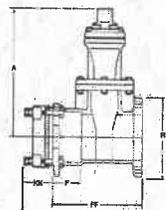
Slip-on x Slip-on
A-2360-38***



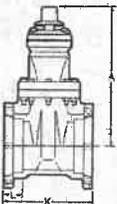
Radial x Radial
A-2360-37



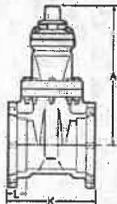
AquaGrip x AquaGrip
A-2361-77***



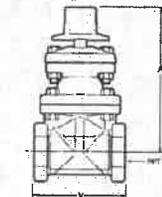
AquaGrip x Flange
A-2361-76***



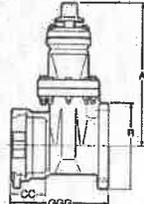
Mechanical Joint x
Mechanical Joint
A-2360-20**
A-2360-25 (w/ transition gaskets)



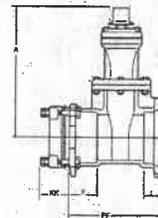
D-150 Mechanical Joint x
D-150 Mechanical Joint
C-2360-54 (Duck Tipped)**
C-2360-55 (Plain Tipped)**



Threaded x Threaded
A-2360-8



Slip-on x Flange
A-2360-41**



AquaGrip x Mechanical Joint
A-2361-78***

^ Specialty valve styles not illustrated.

+ Socket depths have been increased on the slip-on style to enhance the pipe joint.

** Also available without accessories or gaskets.

++ Bonding screws optional.

o All sizes "R" prefix valves are 2360 Series.

*** Valves with AquaGrip connections are thin-wall ductile iron per ANSI/AWWA C515.



Main Office — Decatur, IL
Water Division: 1-800-423-1323

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e-mail: moreinfo@muellercompany.com

Canada — Mueller Canada Inc., Milton, Ontario 1-905-878-0541

All products must be installed and maintained in accordance with applicable instructions and/or standards.

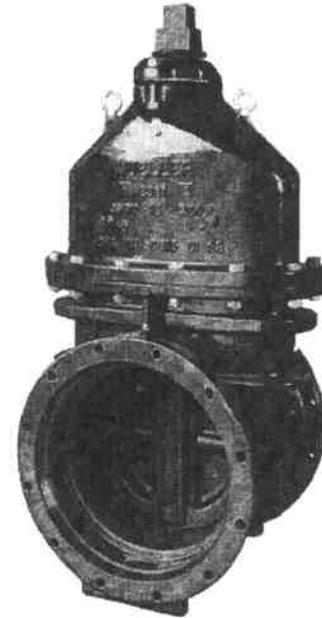
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10.26 **Mueller Co.**

14"-48" A-2361 D.I. RESILIENT WEDGE GATE VALVE - M.J. x F.L.

Rev. 2-06 Shaded area indicates change.

- Catalog number--
A-2361-16 mechanical joint x flanged ends (with accessories unassembled)
A-2361-19 mechanical joint x flanged ends (less accessories)
- Sizes – 14", 16", 18", 20", 24", 30", 36", 42", 48"
- Meets or exceeds all applicable requirements of ANSI/AWWA C515 Standard, UL Listed, FM Approved, and certified to ANSI/NSF 61.
- Flanged end dimensions and drilling comply with ANSI B16.1, class 125
- Mechanical joint end complies with ANSI/AWWA C111 Standard
- Ductile iron body and bonnet with nominal 10 mils MUELLER® Pro-Gard™ Fusion Epoxy coated interior and exterior surfaces; 42" and 48" valves coated with Thenee liquid epoxy.
- Epoxy coating meets or exceeds all applicable requirements of ANSI/AWWA C550 Standard and is certified to ANSI/NSF 61.
- Ductile iron wedge, symmetrical & fully encapsulated with molded rubber; no exposed iron.
- Non-rising stem (NRS)
- Triple O-ring seal stuffing box (2 upper & 1 lower O-ring)
- 2" square wrench nut (optional bevel or spur gearing) – open left or open right
30" - 48" require a Spur Gear or Bevel Gear
- 250 psig (1723 kPa) maximum working pressure, 500 psig (3447 kPa) static test pressure
- 14" and 16" sizes – UL Listed, FM Approved: 250 psig (1723 kPa)



A-2361-19

Options

See page 10.40 for more information on Resilient Wedge Gate Valve options

- Position indicators
- ASTM B98-C66100/H02 stem: 14"-16"
- ASTM B763-C99500: 18"- 48"
- Stainless steel fasteners: Type 304, Type 316
- Bypass 18" - 48" (2" on 18"-20"; 2.5" on 24"; 3" on 30"- 48")
- Handwheel
- Spur or bevel geared actuator

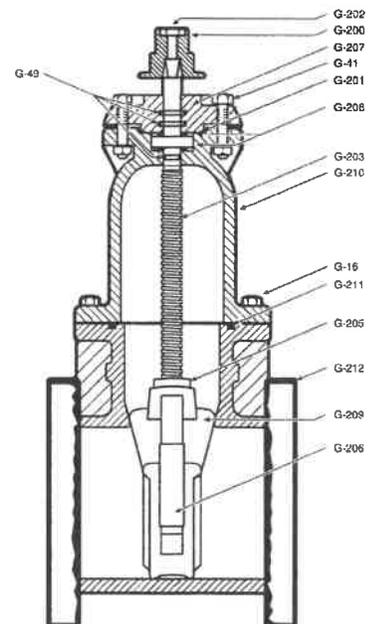
Resilient wedge gate valve parts

Catalog Part No.	Description	Material	Material standard
G-16	Bonnet Bolts & Nuts	Carbon Steel	ASTM A307 Grade B, Zinc Plated
G-41	Stuffing Box Bolts & Nuts	Carbon Steel	ASTM A307 Grade B, Zinc Plated
G-49	Stem O-rings (3)	Rubber	
G-200	Wrench Nut Cap Screw	Carbon Steel	ASTM A307 Grade B, Zinc Plated
G-201	Stuffing Box O-Ring Seal	Rubber	
G-202	Wrench Nut	Cast Iron	ASTM A126 CL.B
G-203	Stem	Bronze	ASTM B138**
G-204	Hand Wheel (not shown)	Cast Iron	ASTM A126 CL.B
G-205	Stem Nut	Bronze	ASTM B62
G-206	Guide Cap Bearings	Celcon	
G-207	Stuffing Box	Ductile Iron	ASTM A536
G-208	Anti-friction Washers (2)	Brass	
G-209	Wedge, Rubber Encapsulated	Ductile Iron* SBR†	ASTM A536
G-210	Bonnet	Ductile Iron	ASTM A536
G-211	Bonnet O-ring	Rubber	
G-212	Body	Ductile Iron	ASTM A536

* Fully encapsulated in molded rubber with no iron exposed

**18" - 48" ASTM B584

†42" and 48" EPDM standard

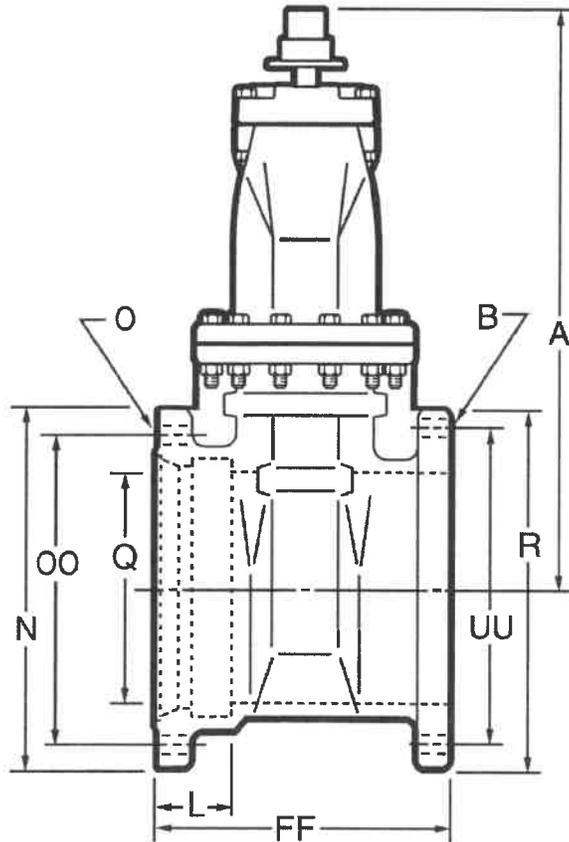


SEE PAGE 10.43 FOR ORDERING INSTRUCTIONS

14"-48" A-2361 D.I. RESILIENT WEDGE GATE VALVE - M.J. x F.L.

Mueller Co. 10.27

Rev. 2-06 Shaded area indicates change.



Dimensions

Dimension*	Nominal size								
	14"	16"	18"	20"	24"	30"†	36"†	42"†	48"†
A	32.75	37.88	44.19	48.25	53.88	See A for Spur or Bevel Gear			
L	3.50	3.50	3.50	3.50	3.50	4.00	4.00	4.00	4.00
N	20.25	22.56	24.76	27.25	31.51	39.53	46.41	53.53	60.41
O (number and size of holes for MJ)	10--.88	12--.88	12--.88	14--.88	16--.88	20--1.125	24--1.125	28--1.38	32--1.38
Q (bore)	14.38	16.00	18.38	20.38	24.38	30.38	36.38	42.38	48.38
OO (bolt circle diameter for MJ)	18.75	21.00	23.25	25.50	30.00	36.88	43.75	50.62	57.50
R	21.00	23.50	25.00	27.50	32.00	38.75	46.00	53.00	59.50
UU (bolt circle diameter for FL)	18.75	21.25	22.75	25.00	29.50	36.00	42.75	49.50	56.00
FF	17.41	17.91	19.25	19.75	21.75	29.75	33.75	40.38	43.79
B (number and size of holes for FL)	12--1.12	16--1.12	16--1.25	20--1.25	20--1.38	28--1.38	32--1.63	36--1.63	44--1.63
A - Spur Gear**	38.50	43.58	49.41	53.01	59.51	70.81	83.08	97.84	109.70
A - Bevel Gear**	34.00	37.38	44.50	47.69	54.06	64.93	77.19	90.75	102.61
Turns to open (without gearing)	43.5	49	57	63	75	-	-	-	-
Turns to open (Spur gearing)	178	201	234	258	308	381	455	524	596
Turns to open (Bevel gearing)	196	221	257††	284††	338††	372	444	524	596
Weight*	655	875	1226	1500	2375	5100	8400	13300	19700

*All dimensions are in inches. All weights are in pounds and are approximate. Weights for 30"-48" valves are with gearing; for all others without gearing.

**Center line of operating nut to center line of valve.

†Spur or Bevel Gear must be used with 30", 36", 42", 48" valves.

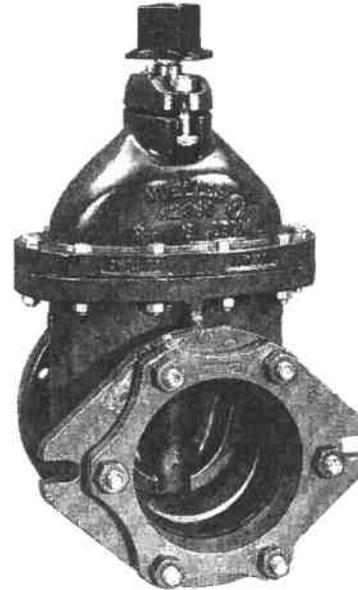
††Turns shown for Master Gear bevel gearing. Valves with Limitorque bevel gearing: 18" - 227, 20" - 251, 24" - 300".

10.12 **Mueller Co.**

4"-12" A-2360 RESILIENT WEDGE GATE VALVES - M.J. x FL.

Rev. 2-06 Shaded area indicates change.

- Catalog number–
A-2360-16 mechanical joint x flanged ends (with accessories unassembled)
A-2360-19 mechanical joint x flanged ends (less accessories)
- Sizes – 4", 6", 8", 10", 12"
- Meets or exceeds all applicable requirements of ANSI/AWWA C509 Standard, UL Listed, FM Approved, and certified to ANSI/NSF 61.
- Flanged end dimensions and drilling comply with ANSI B16.1, class 125
- Mechanical joint end complies with ANSI/AWWA C111 Standard
- Iron body with nominal 10 mils MUELLER® Pro-Gard™ Fusion Epoxy Coated interior and exterior surfaces
- Epoxy coating meets or exceeds all applicable requirements of ANSI/AWWA C550 Standard and is certified to ANSI/NSF 61
- Iron wedge, symmetrical & fully encapsulated with molded rubber; no exposed iron
- Non-rising stem (NRS)
- Triple O-ring seal stuffing box (2 upper & 1 lower O-rings), with fourth O-ring serving as dirt seal
- 2" square wrench nut (optional handwheel available) – open left or open right
- 250 psig (1723 kPa) maximum working pressure, 500 psig (3447 kPa) static test pressure
- UL Listed, FM Approved – 200 psig (1379 kPa)



A-2360-16

M.J. accessories shipped unassembled

Options

See page 10.40 for more information on Resilient Wedge Gate Valve options

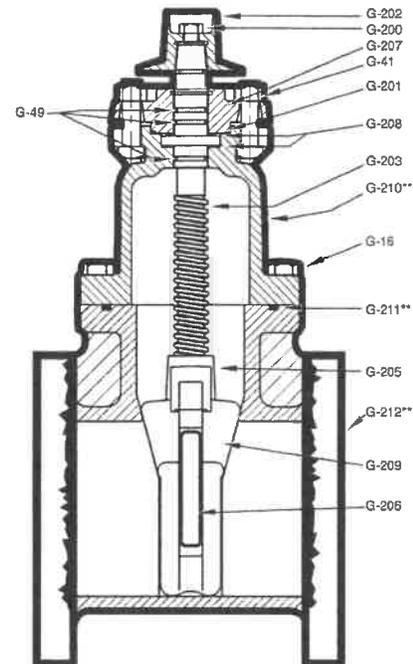
- Position indicators Stainless steel fasteners: Type 316
- ASTM B98-C66100/H02 stem Handwheel

Resilient wedge gate valve parts

Catalog Part No.	Description	Material	Material standard
G-16	Bonnet Bolts & Nuts	Stainless Steel	Type 304
G-41	Stuffing Box Bolts & Nuts	Stainless Steel	Type 304
G-49	Stem O-rings (3)	Rubber	
G-200	Wrench Nut Cap Screw	Stainless Steel	Type 304
G-201	Stuffing Box Seal	Rubber	
G-202	Wrench Nut	Cast Iron	ASTM A126 CL.B
G-203	Stem	Bronze	ASTM B138
G-204	Hand Wheel (not shown)	Cast Iron	ASTM A126 CL.B
G-205	Stem Nut	Bronze	ASTM B62
G-206	Guide Cap Bearings	Celcon	
G-207	Stuffing Box with dirt seal	Cast iron Rubber	ASTM A126 CL.B
G-208	Anti-friction Washers (2)	Celcon	
G-209	Wedge, Rubber Encapsulation	Cast Iron* SBR	ASTM A126 CL.B
G-210**	Bonnet	Cast Iron	ASTM A126 CL.B
G-211**	Bonnet O-ring	Nitrile	
G-212**	Body	Cast Iron	ASTM A126 CL.B

* Fully encapsulated in molded rubber with no iron exposed

** Previous to 1999 these parts on 4"-12" valves were designed with a gasket instead of an O-ring and with additional bolts. Confirm the type of seal when ordering a replacement gasket or O-ring.

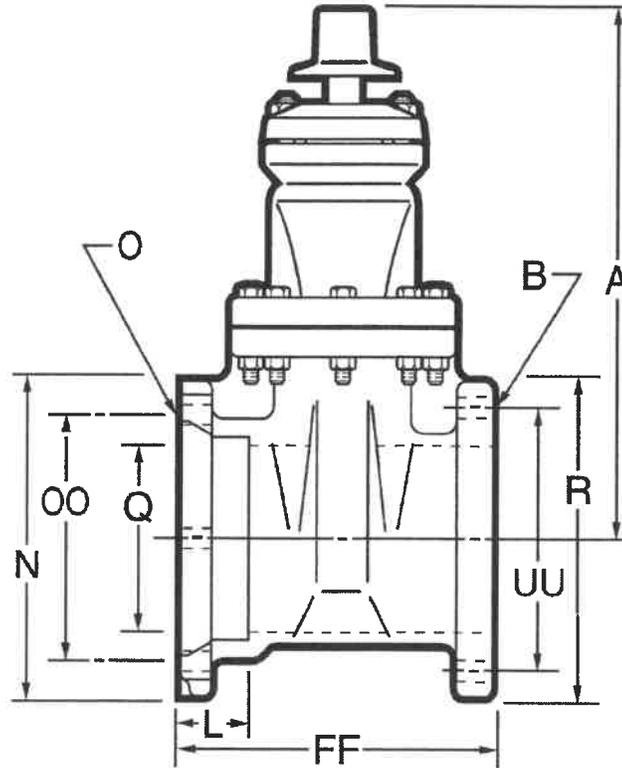


SEE PAGE 10.43 FOR ORDERING INSTRUCTIONS

4"-12" A-2360 RESILIENT WEDGE GATE VALVE - M.J. x FL.

Mueller Co. 10.13

Rev. 2-06



Dimensions

Dimension*	Nominal size				
	4"	6"	8"	10"	12"
A	14.19	18.00	21.50	25.50	28.62
L	2.50	2.50	2.50	2.50	2.50
N	9.12	11.12	13.37	15.62	17.88
O (number and size of holes for MJ)	4--.88	6--.88	6--.88	8--.88	8--.88
Q (bore)	4.30	6.30	8.30	10.30	12.30
OO (bolt circle diameter for MJ)	7.50	9.50	11.75	14.00	16.25
R	9.00	11.00	13.50	16.00	19.00
UU (bolt circle diameter for FL)	7.50	9.50	11.75	14.25	17.00
FF	9.50	11.00	12.00	13.88	14.44
B (number and size of holes for FL)	8--.75	8--.88	8--.88	12--1.00	12--1.00
Turns to open	14	20.5	26.5	33	38.5
Weight*	115	168	275	400	570

* All dimensions are in inches. All weights include accessories are in pounds and are approximate.

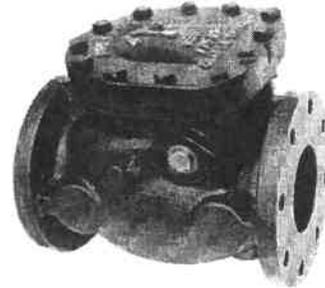
13.2



2-1/2"-12 SWING TYPE GRAVITY OPERATED CHECK VALVES – FL. X FL.

Rev. 6-08 Shaded area indicates change.

- ❑ Catalog number---
A-2600-6 flanged ends, with bronze disc facing
A-2602-6 flanged ends, with rubber disc facing
- ❑ Sizes – 2-1/2", 3", 4", 4" x 6", 4" x 8", 6", 6" x 8", 6" x 10", 8", 10", 12"
- ❑ Meets all applicable parts of ANSI/AWWA C508 Standard
- ❑ Flanged end dimensions and drilling comply with ANSI B16.1
- ❑ Iron body, bronze mounted (IBBM)
- ❑ Choice of bronze or rubber disc facing
- ❑ For horizontal installation only
- ❑ O-ring sealed stuffing box
- ❑ Swing type, gravity operated
- ❑ 175 psig (1207 kPa) maximum working pressure. 350 psig (2068 kPa) test pressure



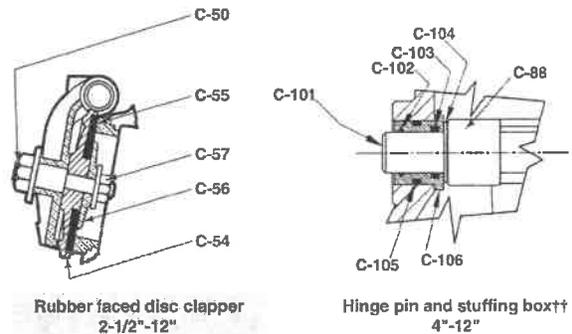
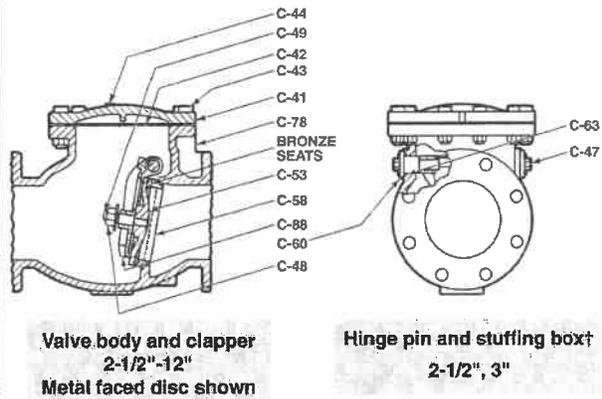
A-2600-06

Options

- ❑ Epoxy Coating
- ❑ PN 10/PN 16 Flange Drilling 4"-16"
- ❑ Stainless Steel Nuts & Bolts
- ❑ Tapped Bosses

Check Valve Parts (1959-present)

Catalog Part No.	Description	Material	Material Standard
C-41	Cover	Cast Iron	ASTM A126 CL.B
C-42	Cover Gasket	Cloth inserted Rubber	ASTM D2000
C-43	Cover Bolt and Nut	Steel	ANSI B18.2.1
C-44	Test Plug	Steel	ASTM A307
C-47	Cap Screw	Steel	ANSI B18.2.1
C-58	Seat Ring	Bronze	ASTM B584
C-60	2-1/2"-3" Hinge Plug and Pin (1 pc.)	Bronze	ASTM B138
C-63	Body O-ring	Rubber	ASTM D2000
C-78	Body	Cast Iron	ASTM A126 CL.B
C-88	Clapper Arm	Bronze	ASTM B584
C-101	Hinge Pin	Stainless Steel	ASTM A276 Type 303
C-102	Hinge Pin O-ring (small)	Rubber	ASTM D2000
C-103	Hinge Pin O-ring (large)	Rubber	ASTM D2000
C-104	Snap Ring	Stainless Steel	
C-105	Stuffing Box O-ring	Rubber	ASTM D2000
C-106	Stuffing Box	Bronze	ASTM B138
Metal Faced Disc Parts			
C-48	Stud Nut	Bronze	ASTM B62
C-49	Disc Stud	Bronze	ASTM B21
C-53	Disc*	Cast Iron	ASTM A126 CL.B
Rubber Faced Disc Parts			
C-50	Disc Stud	Bronze	ASTM B21
C-54	Disc**	Cast Iron	ASTM A126 CL.B
C-55	Rubber Disc Facing	Rubber	ASTM D2000
C-56	Retainer Washer	Bronze	ASTM B584
C-57	Retainer Nut	Bronze	ASTM B62



*2-1/2", 3" sizes are bronze, ASTM B584. Sizes 4" and larger with cast iron disc have bronze on seating area.

**2-1/2"-4" sizes are bronze ASTM B584.

†Illustration for 1993 through current 2-1/2", 3", (2007 - 24") sizes: also applies to all 2-1/2" through 12", 24" sizes 1959 through 1992. Contact Mueller for 14"-20" valves and all valves 1958 and prior.

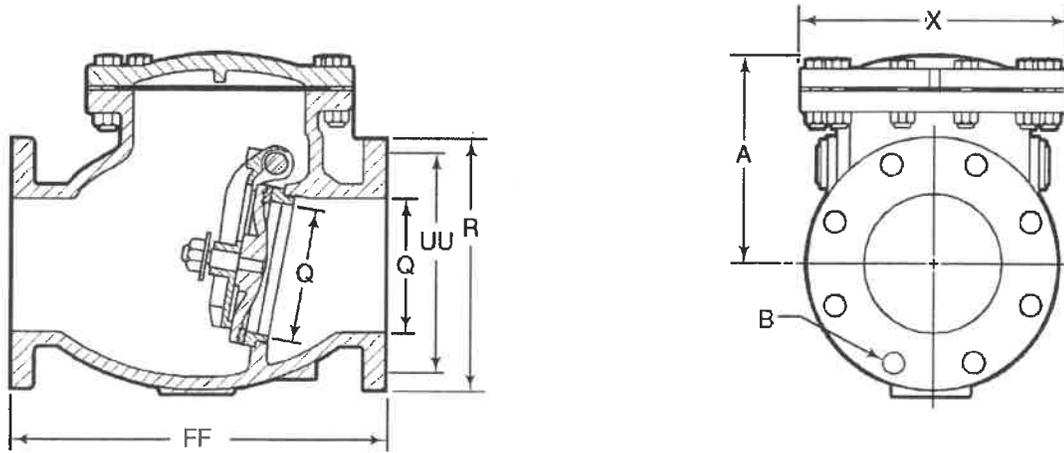
††Illustration for 1993 through current 4" through 12" sizes only. Parts are not interchangeable with 1992 and prior sizes. For 1959 through 1992 valves, see footnote †, above. Contact Mueller for valves 1958 and prior.

2-1/2"-12 SWING TYPE GRAVITY OPERATED CHECK VALVE DIMENSIONS - FL. X FL.

Mueller Co.

13.3

6-08



Dimension	Size*					
	2-1/2"	3"	4"	4" x 6"	4" x 8"	6"
Q (bore)	2.50	3.00	4.00	4.00 x 6.00	4.00 x 8.00	6.00
R	7.00	7.50	9.00	9.00 x 11.00	9.00 x 13.50	11.00
FF	10.00	11.00	12.88	12.88	12.88	16.00
A	5.75	6.25	7.25	7.25	8.00	9.00
X	6.94	7.56	9.00	9.00	9.00	11.69
B (number and size of bolts)	4--.75	4--.75	8--.75	8--.75, 8--.88	8--.75, 8--.88	8--.88
UU (bolt circle diameter)	5.50	6.00	7.50	7.50 x 9.50	7.50 x 11.75	9.50
Weight**	49	62	100	130	160	185

Dimension	Size*				
	6" x 8"	6" x 10"	8"	10"	12"
Q (bore)	6.00 x 8.00	6.00 x 10.00	8.00	10.00	12.00
R	11.00 x 13.50	11.00 x 16.00	13.50	16.00	19.00
FF	16.50	16.50	19.50	22.00	24.13
A	9.00	9.50	10.50	12.75	14.75
X	11.69	11.69	14.00	17.00	19.13
B (number and size of bolts)	8--.88, 8--.88	8--.88, 12--1.00	8--.88	12--1.00	12--1.00
UU (bolt circle diameter)	9.50 x 11.75	9.50 x 14.25	11.75	14.25	17.00
Weight**	207	230	286	463	653

*Nominal

**All dimensions are in inches. All weights are in pounds and are approximate

13.4

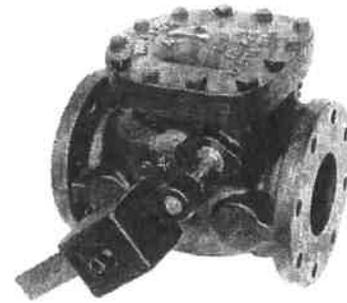
Mueller Co.

2-1/2"-12 SWING TYPE LEVER AND WEIGHT CHECK VALVES – FL. X FL.

Rev. 6-08 Shaded area indicates change.

Catalog Number

- A-2600-6-01 flanged ends, with bronze disc facing
- A-2602-6-01 flanged ends, with rubber disc facing
- Sizes---2-1/2", 3", 4", 4"x6", 4"x8", 6", 6"x8", 6"x10", 8", 10", 12"
- Meets all applicable parts of ANSI/AWWA C508 Standard
- Flanged end dimensions and drilling comply with ANSI B16.1, class 125
- Iron body, bronze mounted (IBBM)
- Choice of bronze or rubber disc facing
- For vertical or horizontal installation
- O-ring sealed stuffing box
- Adjustable weight to control opening and closing of clapper, lever can be installed on either side of valve
- 175 psig (1207 kPa) maximum working pressure, 350 psig (2414 kPa) test pressure



A-2600-6-01

Options

- Epoxy Coating
- Stainless Steel Nuts & Bolts
- Tapped Bosses
- Allen Bradley Limit Switch
- PN 10/PN 16 Flange Drilling 4"-12"

Check Valve Parts (1959-present)

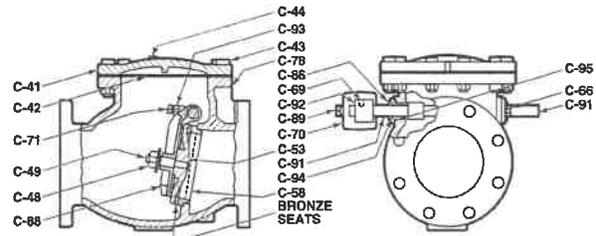
Catalog Part No.	Description	Material	Material Standard
C-41	Cover	Cast Iron	ASTM A126 CL.B
C-42	Cover Gasket	Cloth inserted Rubber	ASTM D2000
C-43	Cover Bolt and Nut	Steel	ANSI B18.2.1
C-44	Test Plug	Steel	ASTM A307
C-58	Seat Ring	Bronze	ASTM B584
C-66	Cap Screw	Steel	ANSI B18.2.1
C-69	2-1/2"-12" Roll Pin	Steel	ANSI B18.8.2
C-70	Weight	Cast Iron	ASTM A126 CL.B
C-71	2-1/2"-12" Set Screw	Stainless Steel	ASTM A193
C-78	Body	Cast Iron	ASTM A126 CL.B
C-86	2-1/2"-3" Stuffing Box	Bronze	ASTM B126
C-88	Clapper Arm	Bronze	ASTM B584
C-89	Adjustment Screw	Steel	ANSI B18.6.2
C-91	Hinge Pin	Stainless Steel	ASTM A276
C-92	Weight lever	Steel†	ASTM A36
C-93	Jam Nut	Stainless Steel	ASTM A194
C-94	Hinge Pin O-ring	Rubber	ASTM D2000
C-95	Body O-ring	Rubber	ASTM D2000
C-101	Hinge Pin	Stainless Steel	ASTM A276 Type 303
C-102	Hinge Pin O-ring (small)	Rubber	ASTM D2000
C-103	Hinge Pin O-ring (large)	Rubber	ASTM D2000
C-105	Stuffing Box O-ring	Rubber	ASTM D2000
C-106	Stuffing Box	Bronze	ASTM B138

Metal Faced Disc Parts

C-48	Stud Nut	Bronze	ASTM B62
C-49	Disc Stud	Bronze	ASTM B21
C-53	Disc*	Cast Iron	ASTM A126 CL.B

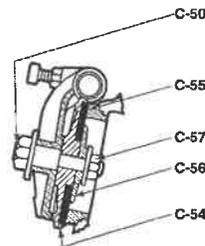
Rubber Faced Disc Parts

C-50	Disc Stud	Bronze	ASTM B21
C-54	Disc**	Cast Iron	ASTM A126 CL.B
C-55	Rubber Disc Facing	Rubber	ASTM D2000
C-56	Retainer Washer	Bronze	ASTM B584
C-57	Retainer Nut	Bronze	ASTM B62

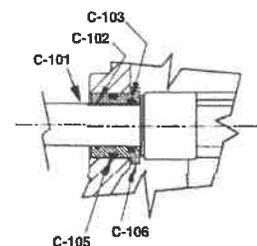


Valve body and clapper
2-1/2"-12"
Metal faced disc shown

Lever Assembly
2-1/2"-12"
Hinge pin and stuffing box†
2-1/2", 3"



Rubber faced disc
and clapper
2-1/2"-12"



inge pin and stuffing box††
4"-12"

*2-1/2", 3" sizes are bronze, ASTM B584. Sizes 4" and larger with cast iron disc have bronze on seating area.

**2-1/2"-4" sizes are bronze ASTM B584.

†Illustration for 1993 through current 2-1/2", 3", (2007 - 24") sizes; also applies to all 2-1/2" through 12", 24" sizes 1959 through 1992. Contact Mueller for 14"-20" valves and all valves 1958 and prior.

††Illustration for 1993 through current 4" through 12" sizes only. Parts are not interchangeable with 1992 and prior sizes. For 1959 through 1992 valves, see footnote †, above. Contact Mueller for valves 1958 and prior.

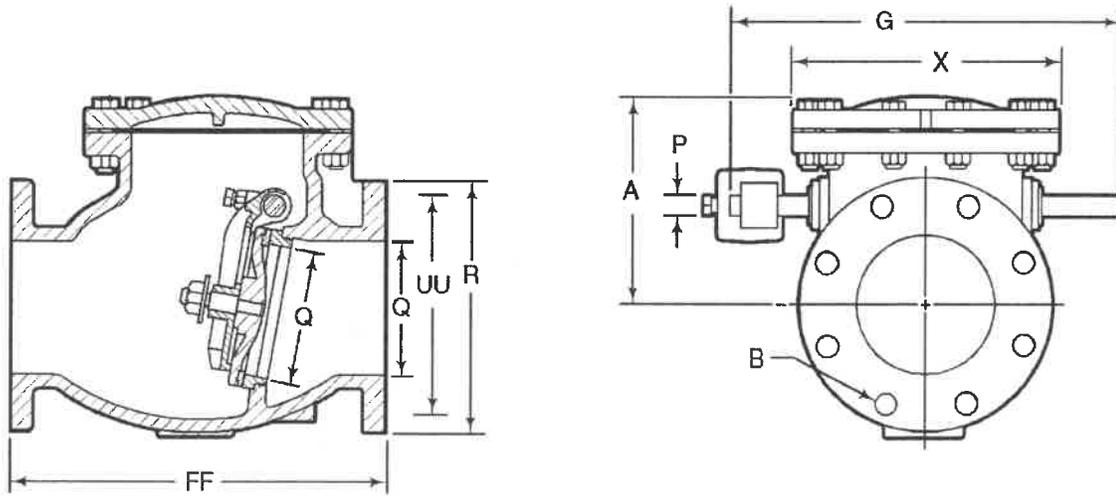
†4", 6" Ductile Iron ASTM A536

2-1/2"-12" SWING TYPE LEVER AND WEIGHT CHECK VALVE DIMENSIONS-FL.X FL.

Mueller Co.

13.5

6-08



Dimension**	Size*				
	2-1/2"	3"	4"	4" x 6"	4" x 8"
Q (bore)	2.50	3.00	4.00	4.00 x 6.00	4.00 x 7.38
R	7.00	7.50	9.00	9.00 x 11.00	9.00 x 13.50
FF	10.00	11.00	12.88	12.88	12.88
G	13.00	14.00	15.00	15.00	15.00
X	6.94	7.56	9.00	9.00	9.00
A	5.75	6.25	7.25	7.25	8.00
P	.63	.63	.88	.88	.88
B (number and size of bolts)	4--.75	4--.75	8--.75	8--.75, 8--.88	8--.75, 8--.88
UU (bolt circle diameter)	5.50	6.00	7.50	7.50 x 9.50	7.50 x 11.75

Dimension**	Size*					
	6"	6" x 8"	6" x 10"	8"	10"	12"
Q (bore)	6.00	6.00 x 8.00	6.00 x 9.94	8.00	10.00	12.00
R	11.00	11.00 x 13.50	11.00 x 16.00	13.50	16.00	19.00
FF	16.00	16.50	16.50	19.50	22.00	24.13
G	17.75	17.75	17.75	21.50	24.75	27.50
X	11.69	11.69	11.69	14.00	17.00	19.13
A	9.00	9.00	9.50	10.50	12.75	14.75
P	1.00	1.00	1.00	1.00	1.13	1.13
B (number and size of bolts)	8--.88	8--.88, 8--.88	8--.88, 12--1.00	8--.88	12--1.00	12--1.00
UU (bolt circle diameter)	9.50	9.50 x 11.75	9.50 x 14.25	11.75	14.25	17.00

*Nominal

**All dimensions are in inches.