



VALVE &
HYDRANT

R-USP1 RESILIENT WEDGE GATE VALVE

OS&Y: 2" – 12"/DN50 – DN300 Groove x Groove/Flange x Groove ends

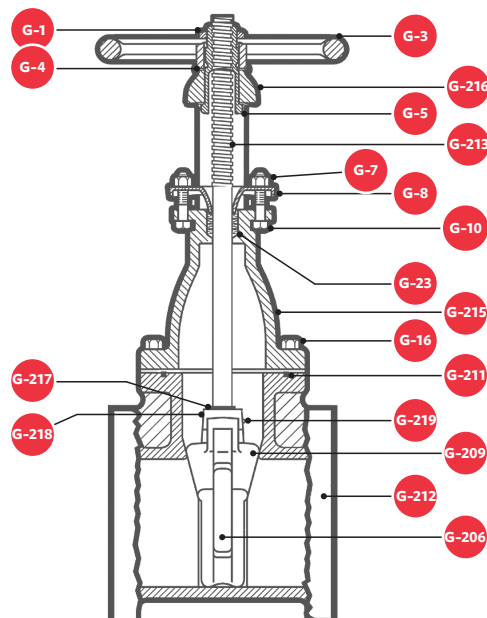
PRODUCT FEATURES

- Outside Screw & Yoke (OS&Y) Gate Valve.
- UL 262 Listed and FM 1120/1130 Approved and certified to ANSI/NSF 61 & 372.
- Iron body with Mueller Pro-Gard® Fusion Bonded Epoxy Coated interior and exterior surfaces.
- Adjustable packing.
- Rubber encapsulated iron wedge.
- Handwheel – open left or open right.
- 350psig (2400kPa/24barg) maximum working pressure – 700psig (4800kPa/48barg) static test.
- Epoxy coating meets or exceeds all applicable requirements ANSI/AWWA C550.
- Meets or exceeds all applicable requirements of ANSI/AWWA C515.
- Groove ends comply with AWWA C606.
- Groove ends fit steel IPS pipe.
- Flange end drilling complies with ASME/ANSI B16.1 class 125 and B16.42 class 150*.

OPTIONS

- Stainless steel stems: Type 304, 316, or 431.
- Low zinc, silicon bronze ASTM B98-C66100/H02 stem.
- EPDM disc and O-rings.
- PN10/PN16 drilling (Flange X Groove End Valves ONLY).

*Per ANSI/AWWA C111, working pressure above 250 psi requires the use of a special gasket rated for the higher pressure.



PARTS LIST

ID	PART NAME	MATERIAL
G-1	Cap Nut	Bronze ASTM B62
G-3	Hand Wheel	Ductile Iron ASTM A536 (See Note 1)
G-4	Washer	Brass ASTM B36
G-5	Bush Nut	Bronze ASTM B62
G-7	Gland Nut	Bronze ASTM B98
G-8	Packing Gland	Ductile Iron ASTM A536 (See Note 1)
G-10	Gland Bolts	316 Stainless Steel ASTM F593
G-16	Bonnet Bolts & Nuts	316 Stainless Steel ASTM F593 (bolt) /F594 (nut)
G-23	Stem Packing	Lubricated Flax
G-206	Guide Cap Bearings	Acetal
G-209	Wedge	(See Note 2)
G-211	Bonnet O-Ring	Nitrile ASTM D2000
G-212	Body	Ductile Iron ASTM A536 (See Note 1)
G-213	Stem	Manganese Bronze ASTM B138 (C67600) (See Note 3)
G-215**	Bonnet	Ductile Iron ASTM A536 (See Note 1)
G-216**	Yoke	Ductile Iron ASTM A536 (See Note 1)
G-217	O-Ring	Nitrile ASTM D2000
G-218	Disc Nut	Bronze ASTM B584
G-219	Stem Nut Pin	304 Stainless Steel

**2" – 6"/DN50 – DN150 Bonnet and Yoke are one piece.

Notes:

1. Material strength ASTM A536 65-45 minimum.
2. 2" – 12"/DN50 – DN300 Rubber Encapsulated Ductile Iron Wedge Rubber – SBR ASTM D2000. The R-USP1 is available as a PLUS version, with upgraded stem material etc. Please see PLUS version Datasheet.
3. Standard Stem is Manganese Bronze ASTM B138 (C67600). The R2361 is available as a PLUS version, with upgraded stem material etc. Please see PLUS version Datasheet.

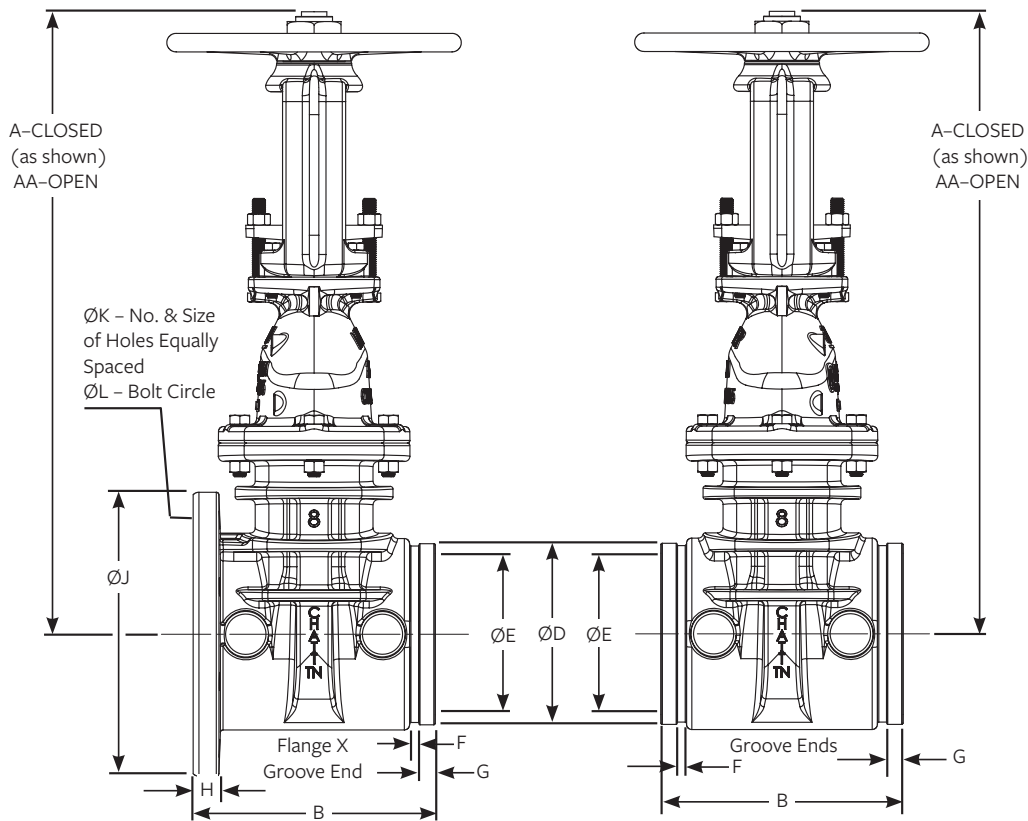


FLANGE X GROOVE ENDS



GROOVE ENDS

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DIMENSIONS – INCHES (MM)

VALVE SIZE	A-CLOSED	AA-OPEN	B	ØD	ØE	F	G	H	ØJ	NO. - ØK	ØL	# OF TURNS
2"/DN50	14.09 (357)	16.69 (424)	7.00 (178)	2.38 (60)	1.56 (40)	0.34 (9)	0.63 (16)	0.69 (18)	6.00 (153)	4 - .63 (16)	4.75 (121)	8.0
2½"/DN65	15.91 (404)	19.56 (497)	7.50 (191)	2.88 (73)	1.97 (50)	0.34 (9)	0.63 (16)	0.75 (19)	7.00 (178)	4 - .75 (19)	5.50 (140)	11.0
3"/DN80	15.66 (398)	19.31 (490)	8.00 (203)	3.50 (89)	2.63 (67)	0.34 (9)	0.63 (16)	0.81 (21)	7.50 (191)	4 - .75 (19)	6.00 (152)	11.0
4"/DN100	23.70 (602)	19.00 (483)	9.00 (229)	4.50 (114)	3.75 (95)	0.34 (9)	0.63 (16)	1.00 (25)	9.00 (229)	8 - .75 (19)	7.50 (191)	14.0
6"/DN150	31.40 (798)	24.50 (622)	10.50 (267)	6.63 (168)	5.80 (147)	0.34 (9)	0.63 (16)	1.06 (27)	11.25 (286)	8 - .88 (22)	9.50 (241)	20.5
8"/DN200	38.50 (978)	29.50 (749)	11.50 (292)	8.63 (219)	7.67 (195)	0.47 (12)	0.75 (19)	1.19 (30)	13.50 (343)	8 - .88 (22)	11.75 (298)	26.5
10"/DN250	47.00 (1194)	35.70 (907)	13.00 (330)	10.75 (273)	9.80 (249)	0.47 (12)	0.75 (19)	1.25 (32)	16.00 (406)	12 - 1.00 (25)	14.25 (362)	33.0
12"/DN300	53.50 (1359)	40.50 (1029)	14.00 (356)	12.75 (324)	11.80 (300)	0.47 (12)	0.75 (19)	1.31 (33)	19.00 (483)	12 - 1.00 (25)	17.00 (432)	38.5

WEIGHT – LB. (KG)

Valve Size	2"/DN50	2½"/DN65	3"/DN80	4"/DN100	6"/DN150	8"/DN200	10"/DN250	12"/DN300
Weight – Gr x Gr	37 (17)	44 (20)	45 (20)	74 (36)	118 (59)	189 (81)	285 (119)	372 (169)
Weight – Fl x Gr	41 (19)	50 (23)	52 (24)	86 (39)	134 (61)	212 (96)	316 (143)	427 (194)

OPTIONAL PLUGS

OPTION #	TAP SIZE
0008	½" (13 mm)
0054	¾" (19 mm)
0062	1" (25 mm)
0355	1¼" (32 mm)
0070	1½" (38 mm)
0366	2" (50 mm)

R-USP1 OPTIONAL MAXIMUM TAP SIZE

Valve Size	2"/DN50	2½"/DN65	3"/DN80	4"/DN100	6"/DN150	8"/DN200	10"/DN250	12"/DN300
Max. Tap Size	¾" (19 mm)	½" (13 mm)	½" (13 mm)	¾" (19 mm)	1" (25 mm)	1¼" (32 mm)	1¼" (32 mm)	2" (50 mm)

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