



VALVE &  
HYDRANT

# R-USP1 RESILIENT WEDGE GATE VALVE

## Class 250/300 OS&Y: 3"/DN80 – 12"/DN300

### PRODUCT FEATURES

- Outside Screw & Yoke (OS&Y).
- Iron Body, Bonnet, and Yoke.
- Mueller Pro-Gard® Fusion Bonded Epoxy Coating covers all cast surfaces inside and out – 10 mils (250 µm) nominal. Meets requirements of AWWA/ANSI C550.
- Meets requirements of AWWA/ANSI C515 and is certified to ANSI/NSF 61 & 372.
- Iron wedge, symmetrical and fully encapsulated with molded rubber; no exposed iron.
- Polymer cap bearings on wedge guides resist wear and provide easy operation.
- Bi-directional flow.
- 10-year limited warranty.
- Working Pressure: 350psig/24barg; Test Pressure: 700psig/48barg.
- UL 262 listed, FM 1120/1130 approved.
- Flange End drilling meets ANSI B16.1, Class 250. Optional PN25 drilling.

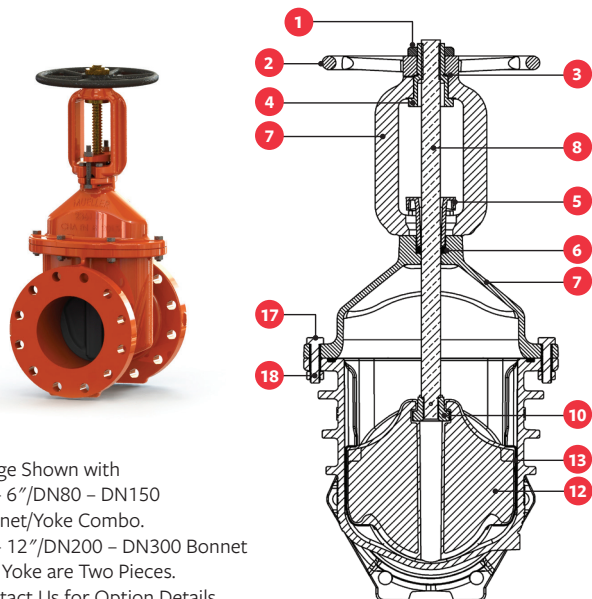


Image Shown with  
3" – 6"/DN80 – DN150  
Bonnet/Yoke Combo.  
8" – 12"/DN200 – DN300 Bonnet  
and Yoke are Two Pieces.  
Contact Us for Option Details.

### PARTS LIST

ID	PART NAME	MATERIAL
1	Cap Nut	Bronze ASTM B62/B584
2	Handwheel	Ductile Iron ASTM A536
3	Thrust Washer	Brass
4	Bush Nut	Bronze ASTM B62
5	Gland Flange	Ductile Iron ASTM A536
6	Stem Packing*	Lube Flax
7	Bonnet/Yoke	Ductile Iron ASTM A536 (See Note 1)
8	Stem (See Note 2)	Manganese Bronze ASTM B138 (C67600)
9	O-Ring	Nitrile ASTM D2000
10	Wedge Nut	Bronze ASTM B584
11	Pin. Type E	304 Stainless Steel
12	Wedge	(See Note 3)
13	Guide Cap	Acetal
14	Bonnet O-Ring	Nitrile ASTM D2000
15	Body	Ductile Iron ASTM A536
16	Gland Bolt	316 Stainless Steel ASTM F593
17	Bonnet Bolt	316 Stainless Steel ASTM F593
18	Bonnet Nut	316 Stainless Steel ASTM F594
19	Gland Nut	Silicon Bronze ASTM B98

#### Notes:

1. 3" – 6"/DN80 – DN150 Bonnet and Yoke are one piece.
2. Standard Stem is Manganese Bronze ASTM B138 (C67600). The R-USP1 is available as a PLUS version, with upgraded stem material etc. Please see PLUS version Datasheet.
3. Rubber Encapsulated Ductile Iron Wedge Rubber – SBR ASTM D2000.

### \*STEM PACKING INFORMATION

Valve Size	3"/DN80	4"/DN100
Part No./Quantity	175972/4	176477/4
Size – inches (mm)	1/4 (6) x 3 5/8 (92)	1/4 (6) x 4 1/4 (108)

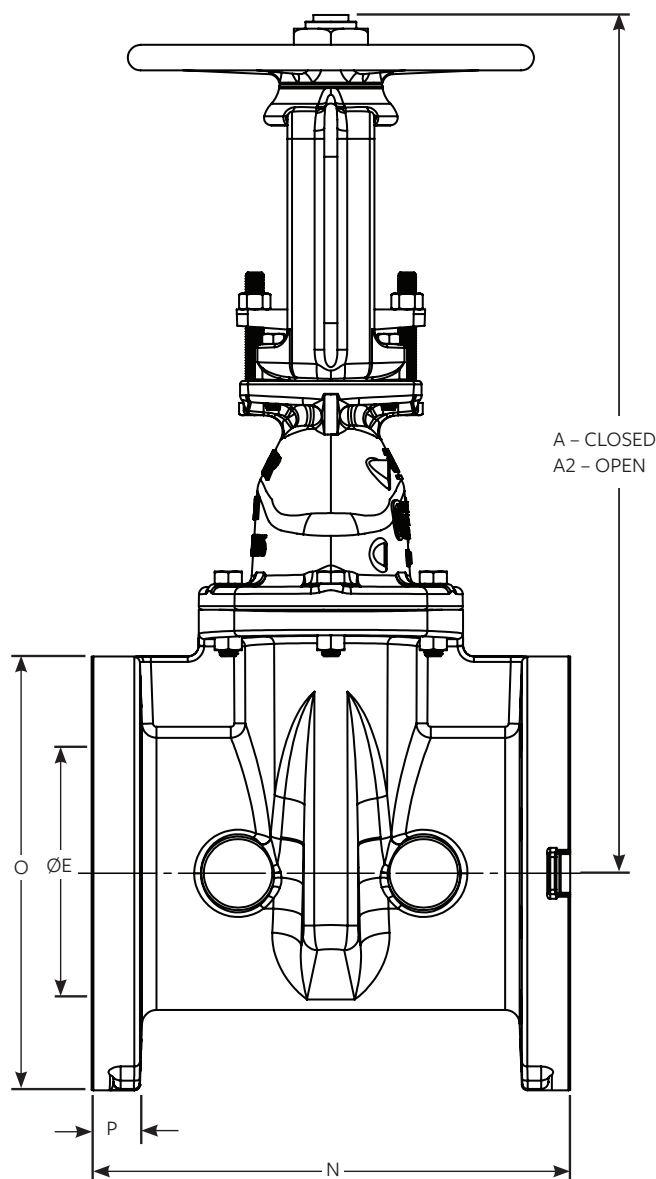
  

Valve Size	6"/DN150	8"/DN200
Part No./Quantity	170712/4	175937/4
Size – inches (mm)	5/16 (8) x 4 3/4 (121)	5/16 (8) x 5 1/8 (130)

Valve Size	10"/DN250	12"/DN300
Part No./Quantity	175975/4	170749/3
Size – inches (mm)	5/16 (8) x 5 1/2 (133)	3/8 (10) x 6 3/8 (161)

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## DIMENSIONS – INCHES (MM)

VALVE SIZE	A-CLOSED	A2-OPEN	N
3"/DN80	15.66 (398)	19.31 (490)	11.10 (282)
4"/DN100	19.00 (483)	23.68 (601)	12.00 (305)
6"/DN150	24.50 (622)	31.38 (797)	15.86 (403)
8"/DN200	29.50 (749)	38.50 (978)	16.50 (419)
10"/DN250	35.75 (908)	47.00 (1194)	18.00 (457)
12"/DN300	40.50 (1028)	53.50 (1359)	19.75 (502)

VALVE SIZE	ØE THRU Ø	O	P
3"/DN80	3.30 (84)	9.00 (229)	1.13 (29)
4"/DN100	4.31 (109)	10.00 (254)	1.25 (32)
6"/DN150	6.30 (160)	12.50 (318)	1.44 (37)
8"/DN200	8.30 (211)	15.00 (381)	1.63 (41)
10"/DN250	10.30 (262)	17.50 (445)	1.87 (47)
12"/DN300	12.30 (312)	20.50 (521)	2.00 (51)

## OPTIONAL PLUGS

VALVE SIZE	RUSP1 MAX. TAP SIZE	OPTION NO.	TAP SIZE
3"/DN80	½" (13)	0008	½" (13)
4"/DN100	¾" (19)	0054	¾" (19)
6"/DN150	1" (25)	0062	1" (25)
8"/DN200	1¼" (32)	0355	1¼" (32)
10"/DN250	1¼" (32)	0070	1½" (38)
12"/DN300	2" (50)	0366	2" (50)

## WEIGHT – LB. (KG)

VALVE SIZE	WEIGHT
3"/DN80	75 (34)
4"/DN100	121 (55)
6"/DN150	198 (90)
8"/DN200	308 (140)
10"/DN250	475 (215)
12"/DN300	629 (285)

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