



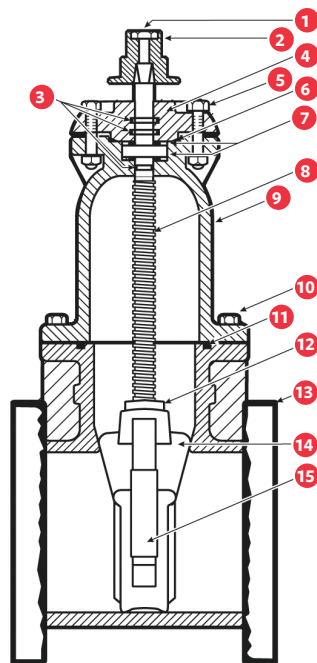
VALVE &  
HYDRANT

# A-USP1 RESILIENT WEDGE GATE VALVE

## NRS: 14" – 24"/DN350 – DN600

### PRODUCT FEATURES

- Non-Rising Stem (NRS).
- Meets requirements of AWWA C515 and is certified to ANSI/NSF 61 & 372.
- 2" square Operating Nut (optional Handwheel).
- 14" – 24"/DN350 – DN600. Larger valves through 54"/DN1350 also available.
- All Ductile Iron Body and Bonnet.
- Fusion Bonded Epoxy Coating – 10 mil (250 µm) nominal, meets requirements of AWWA C550.
- Manganese Bronze Stem.
- Antifriction washer above and below thrust collar.
- Iron Wedge, symmetrical and fully encapsulated with molded rubber; no exposed iron – acetal Caps on guides ease operation and avoid wear.
- 10-year limited warranty.
- UL 262 listed, FM 1120/1130 approved.
- Pressure rating: 14" & 16"/DN350 & DN400 AWWA/UL/FM rating 250psig/17barg; 18" – 24"/DN450 – DN600 AWWA rating 250psig/17 barg, UL rating 175psig/12barg, FM approved 250psig/17barg.
- Flange End drilling meets: ANSI B16.1 Class 125 Flat Face and ANSI B16.42 Class 150 Flat Face (PN16 available in sizes 14" & 16"/DN350 & DN400 only).



### PARTS LIST

| ID | PART NAME                 | MATERIAL  |
|----|---------------------------|---|
| 1  | Wrench Nut                | Cast Iron* ASTM A126 CL.B   |
| 2  | Wrench Nut Cap Screw      | 316 Stainless Steel   |
| 3  | Stem O-Rings              | Nitrile ASTM D2000 (See Note 1)   |
| 4  | Stuffing Box              | Ductile Iron ASTM A536**  |
| 5  | Stuffing Bolts            | 316 Stainless Steel   |
|    | Stuffing Nuts             | Carbon Steel ASTM A563  |
| 6  | Stuffing Box O-Ring       | Nitrile ASTM D2000 (See Note 1)   |
| 7  | Anti Friction Washers     | Brass   |
| 8  | Stem                      | Bronze 14" & 16"/DN350 & DN400<br>ASTM B138 (C67600)<br>18"-24"/DN450-DN600 ASTM B584<br>(C86400) |
| 9  | Bonnet                    | Ductile Iron ASTM A536**  |
| 10 | Bonnet Bolts              | 316 Stainless Steel   |
|    | Bonnet Nuts               | 316 Stainless Steel   |
| 11 | Bonnet O-Ring             | Nitrile ASTM D2000 (See Note 1)   |
| 12 | Stem Nut                  | Bronze ASTM B62   |
| 13 | Body                      | Ductile Iron ASTM A536**  |
| 14 | Wedge                     | Ductile Iron ASTM A536** (See Note 2)   |
| 15 | Guide Cap Bearings        | Acetal  |
| 16 | Hand Wheel<br>(not shown) | Cast Iron* ASTM A126 CL.B   |

\*Manufacturers option to change to Ductile Iron ASTM A536.

\*\*ASTM A536 Ductile Iron Grade 65-45-12 (minimum strength).

#### Notes:

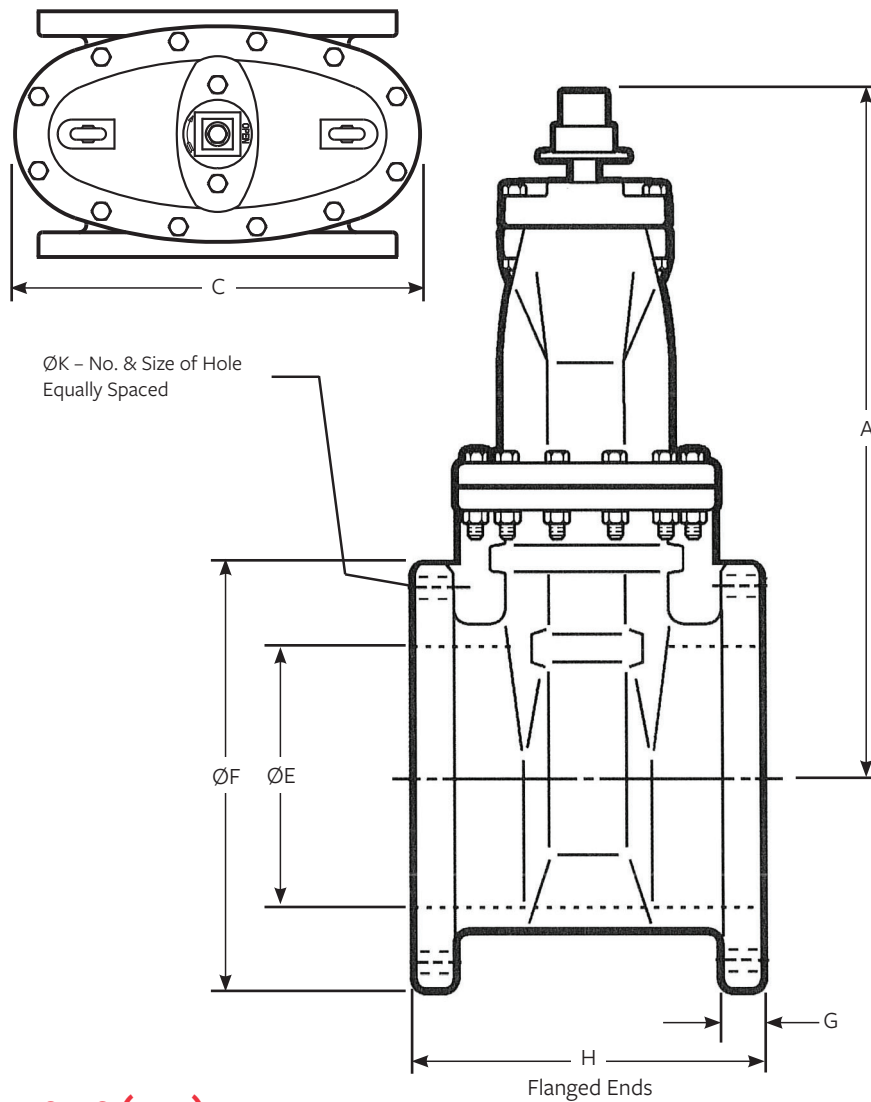
1. 14" & 16"/DN350 & DN400 are Nitrile; 18"-24"/DN450-DN600 are EPDM.

2. Fully encapsulated in molded rubber with no iron exposed. 14" & 16"/DN350 & DN400 are SBR; 18" – 24"/DN450 – DN600 are EPDM.



24"/DN600 shown

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## DIMENSION - INCHES (MM)

| VALVE SIZE | A            | C            | ØE          | ØF          | G         | H           | NO. - ØK       |
|------------|--------------|--------------|-------------|-------------|-----------|-------------|----------------|
| 14"/DN350  | 32.75 (832)  | 24.92 (633)  | 14.38 (365) | 21.00 (533) | 1.00 (25) | 15.06 (383) | 12 - 1.12 (28) |
| 16"/DN400  | 37.88 (962)  | 26.58 (675)  | 16.00 (400) | 23.50 (597) | 1.00 (25) | 16.06 (408) | 16 - 1.12 (28) |
| 18"/DN450  | 44.19 (1122) | 30.50 (775)  | 18.38 (467) | 25.00 (635) | 1.00 (25) | 17.00 (432) | 16 - 1.25 (32) |
| 20"/DN500  | 48.25 (1225) | 33.75 (857)  | 20.38 (518) | 27.50 (698) | 1.13 (29) | 18.00 (450) | 20 - 1.25 (32) |
| 24"/DN600  | 53.88 (1369) | 39.50 (1003) | 24.38 (619) | 32.00 (800) | 1.19 (30) | 20.00 (500) | 20 - 1.38 (35) |

## WEIGHT - LB. (KG)

| Valve Size     | 14"/DN350 | 16"/DN400 | 18"/DN450  | 20"/DN500  | 24"/DN600   |
|----------------|-----------|-----------|------------|------------|-------------|
| <b>Flanged</b> | 659 (299) | 841 (381) | 1298 (589) | 1640 (744) | 2488 (1129) |
| <b>MJ*</b>     | 50 (295)  | 931 (422) | 1298 (589) | 1640 (744) | 2423 (1099) |

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