



NSF/ANSI Standard 61 -  
Drinking Water System Components

## AquaFuse ControlFlo™ Gate Valve



For IPS 2"-12" and  
Metric 63mm-315mm  
HDPE pipes:

- AquaFuse ControlFlo gate valves are cast, machined, assembled, and tested 100% in the United States of America by Clow Valve.
- Stem nut independent of wedge for non-binding operation.
- Bolt and nut design instead of recessed socket head capscrews for ease of maintenance.
- Newest, state-of-the-art machining and coating technology.
- Meets all AWWA C509, C550, and NSF 61 standards.

### Recommended Specifications

1. Valves shall conform to the latest revision of AWWA Standard C509/C515 covering resilient wedge (RS) gate valves for water supply service.
2. AWWA C509/C515 valves shall have an iron body, bonnet, and O-ring plate. The wedge shall be fully encapsulated with rubber.
3. The sealing rubber shall be permanently bonded to the wedge casting per ASTM D429.
4. Valves shall be supplied with O-ring seals at all pressure retaining joints. No flat gaskets shall be allowed.
5. The valve shall be non-rising stem (NRS), opened by turning left or right, and provided with either a 2" square operating nut or a handwheel. The operating nut and handwheel shall be marked with the word "Open" and an arrow to indicate the direction to open.
6. Stems shall be cast copper alloy or stainless steel with an integral collar in full compliance with AWWA. All stems shall operate with copper alloy stem nuts independent of the wedge.
7. All stems shall have two O-rings located above the thrust collar and one O-ring below. The upper stem O-rings shall be replaceable with valve fully opened and subjected to full pressure. The stems on 2"-12" or 63mm-315mm sizes shall also have a low torque thrust bearing located both above and below the stem collar to reduce friction during operation.
8. Waterway shall be smooth, unobstructed, and free of all pockets, cavities, and depressions in the seat area.
9. The body, bonnet, and O-ring plate shall be coated, both on the interior and the exterior, with fusion-bonded epoxy. Epoxy shall be applied in accordance with AWWA C550 and be NSF 61 certified.
10. Each valve shall have the maker's name, the pressure rating, and the year in which it was manufactured cast into the body. Prior to shipment from the factory, each valve shall be hydrostatically pressure tested to the requirements of AWWA C509/C515.
11. AquaFuse valves shall have all component parts cast and assembled in the USA and shall be manufactured by the Clow Valve Company.

ISO 9001



In Fusion We Trust™



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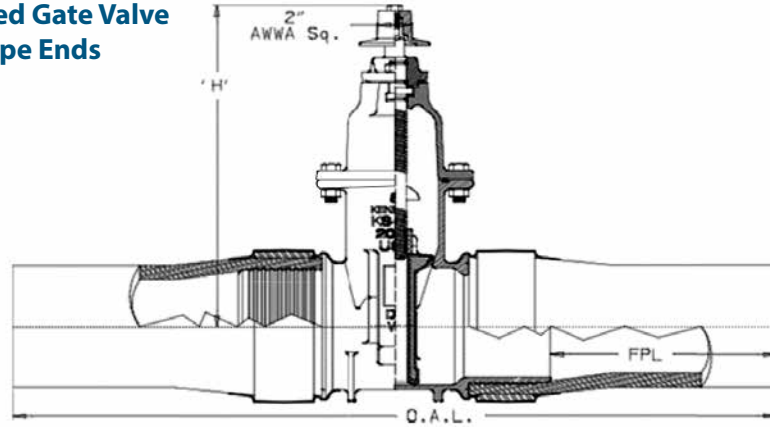
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## AquaFuse ControlFlo™ Gate Valve

**Ductile Iron Resilient Seated Gate Valve**  
**250psi IPS Polyethylene Pipe Ends**  
**Sizes 2" - 12"**



### Standard Materials

Body & Cover	Ductile Iron to ASTM A 536, 70-50-5
Coating	Heat Fused Epoxy to meet AWWA C550
Operating Nut	Iron to ASTM A126, CLASS B
Stem	Bronze ASTM B584, C86700
Wedge	Ductile Iron ASTM A536 / EPDM Encapsulated
Stuffing Box	Ductile Iron ASTM A536, Grade 70-50-5
Stem Nut	Bronze (NDZ) ASTM B763, Alloy C99500
Bolts & Nuts	Stainless Steel ASTM F593C / F594
O-rings	EPDM

### Optional Materials

Pipe	Pipe 4710 to AWWA C906 in DR9, DR11 or DR13.5 IPS suitable for Butt Fusion or Electrofusion joining.
Bolts & Nuts	316 Stainless available
Stem	Stainless Steel
Wedge	Ductile Iron ASTM A536 / EPDM Encapsulated

### IPS Operating Nut

Reference	Size	O.A.L.	H'	FPL	Turns to Open
AF263802901175009	2	38.76	10.88	15.00	5
AF263803901175009	3	40.00	12.38	15.06	10
AF263804901175009	4	41.93	14.75	14.97	13
AF263806901175009	6	43.35	19.00	13.99	19
AF263808901175009	8	44.06	22.65	13.03	25
AF263810901175009	10	44.96	26.50	11.23	31
AF263812901175009	12	47.09	30.00	11.91	37
<b>Available in DR 9, 11, 13.5</b>					

### IPS Hand Wheel

Reference	Size	O.A.L.	H'	FPL	Turns to Open
AF263802901275009	2	38.76	10.88	15.00	5
AF263803901275009	3	40.00	12.38	15.06	10
AF263804901275009	4	41.93	14.75	14.97	13
AF263806901275009	6	43.35	19.00	13.99	19
AF263808901275009	8	44.06	22.65	13.03	25
AF263810901275009	10	44.96	26.50	11.23	31
AF263812901275009	12	47.09	30.00	11.91	37
<b>Available in DR 9, 11, 13.5</b>					

**Tests: Valve only Shell Test: 500 psi Seat Test: 300 psi**  
**Utilization: For water max. 160° F.**  
**Certified to NSF/ANSI 61-G.**

