



Model 350 Double Check Valve Assembly

Application

Designed for installation on potable water lines to protect against both backsiphonage and backpressure of polluted water into the potable water supply. The Model 350 shall provide protection where a potential health hazard does not exist. Ideal for use where lead-free valves are required.

Standards Compliance: (Sizes 2 1/2" - 10" Horiz. & Vert.) (Size 12" horizontal)

- ASSE® Listed 1015
 - CSA® Certified B64.5
 - IAPMO® Listed
 - Certified to NSF/ANSI 372™ by IAPMO R&T
 - AWWA Compliant C510, and C550
 - UL® Classified
 - C-UL® Classified
 - FM® Approved (2 1/2" - 10")
 - Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
 - NYC MEA 50-01-M (2 1/2" - 3")
 - NYC MEA 297-98-M (4" - 6")
 - NYC MEA 316-01-M (8" - 10")
 - NSF® Listed-Standard 61, Annex G*
- *0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT

Materials

- Main valve body: Ductile Iron ASTM A 536 Grade 4
- Access covers: Ductile Iron ASTM A 536 Grade 4
- Coatings: FDA Approved fusion epoxy finish
- Internals: Stainless steel, 300 Series
- Fasteners: Stainless Steel, 300 Series
- Seal ring: EPDM (FDA approved)
- O-ring: Buna Nitrile (FDA approved)
- Springs: Stainless Steel, 300 Series

Features

- Sizes: 2 1/2", 3", 4", 6", 8", 10", 12"
- Maximum working water pressure: 175 PSI
- Maximum working water temperature: 140°F
- Hydrostatic test pressure: 350 PSI
- End connections: (Grooved for steel pipe) AWWA C606, ANSI B16.1 Class 125; (Flanged) ANSI B16.1 Class 125

Dimensions & Weights (do not include pkg.)

SIZE	DIMENSION (approximate)												WEIGHT											
	A		B LESS GATE VALVES		C		D		E OS&Y OPEN		E OS&Y CLOSED		E NRS GATE		WITHOUT GATE VALVES		WITH OS&Y GATE VALVES							
IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM					
2 1/2	85	31	79 1/8	15 7/8	40 3/4	3 3/4	95	7 1/4	18 1/2	4 1/8	13 7/8	35 1/2	11 3/8	28 1/2	3 1/2	89	41 1/4	104 1/2	53	24.1	155	70.4	163	74
3	80	32	81 1/8	15 7/8	40 3/4	3 3/4	95	7 1/4	18 1/2	4 1/8	13 7/8	35 1/2	11 3/8	28 1/2	3 1/2	89	42 3/4	106 1/2	53	24.1	177	80.4	183	83
4	100	37 5/8	95 1/8	19 1/2	49 1/2	4 1/2	113	9	20 3/4	5 1/8	16 1/4	46 1/4	14 3/4	37 1/2	6	152	52 3/4	134 1/2	91	41.3	271	123	281	127.6
6	150	44 3/4	113 1/2	23 1/2	59 1/2	6	152	10	25 1/4	6 3/4	20 3/4	60 3/4	19	49 1/2	7	178	62 3/4	154 1/2	105	47.9	445	203.8	465	211
8	200	60 3/4	154 1/2	31 3/4	80 1/2	8	204	11	27 1/2	8 3/4	25 1/4	74 1/2	22 1/2	57 1/2	8 1/2	216	85	215 1/2	155	70.5	610	267.7	634	278.6
10	250	83 3/4	161 1/2	37 3/4	95 1/2	10	254	11	27 1/2	9 3/4	26 1/2	83 1/2	25 1/2	67 1/2	9 1/2	216	93 1/4	236 1/2	158	71.2	1148	521.2	1208	545.6
12	300	86 1/4	168 1/2	38	96 1/2	10	254	12	30 1/2	10 1/2	28 1/2	90 1/2	30	70 1/2	9	229	108	262 1/2	149 1/2	67.7	1490	677.2	1607	726

Zurn Industries, LLC : Wilkins
 1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
 In Canada : Zurn Industries Limited
 3544 Nashua Drive, Mississauga, Ontario L4V 1L2 Ph. 905-405-8272, Fax 905-405-1292
 www.zurn.com

Rev D
 Date: 11/14
 Drawing No. BF
 Part No. 591-331
 Prod. No. 330
 Page 1 of 2



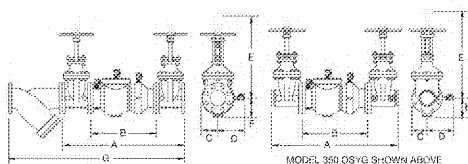
Options

- (Suffixes can be combined)
- with NRS shut-off valves (standard)
 - FS - with cast iron wye type strainer (flanged only 2-1/2"-10")
 - FSC - with epoxy coated wye type strainer (flanged only 2-1/2"-10")
 - G - with groove end gate valves (2-1/2" - 10")
 - GF - with grooved inlet gate connection and flanged outlet gate connection (2-1/2" - 10")
 - FG - with flanged inlet gate connection and grooved outlet gate connection (2-1/2" - 10")
 - L - less shut-off valves (flanged body connections)
 - OSY - with OS & Y gate valves
 - PI - Post Indicator Gate Valve (3"-12")
 - DOM - with Clow gate valves, 51% Buy American Act Compliant

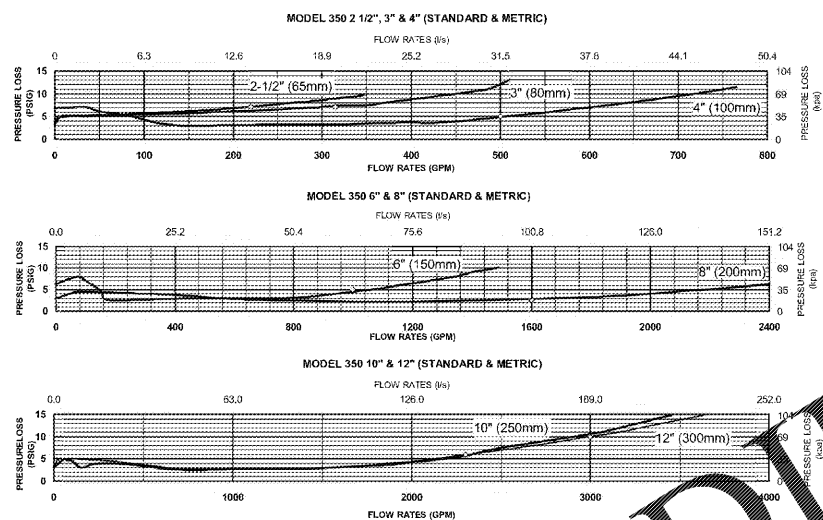
Accessories

- Repair kit (rubber only)
- Thermal expansion tank (Model XT)
- OS & Y Gate valve tamper switch (OSY-40)

Attention: Model 350 (flange body) and 350A (grooved body) have different lay lengths.

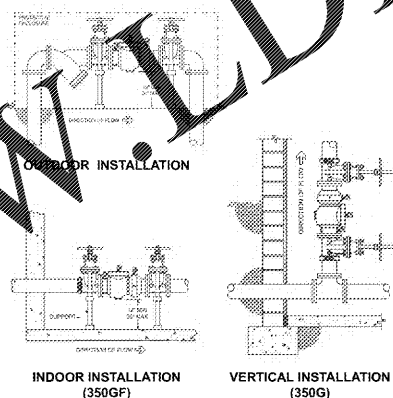


Flow Characteristics



Typical Installation

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.



Pipe size	Capacity thru Schedule 40 Pipe (GPM)			
	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
2 1/2"	75	112	149	228
3"	115	173	230	344
4"	198	298	400	598
6"	355	535	715	1085
8"	515	775	1035	1555
10"	775	1155	1535	2285
12"	1035	1555	2035	3035

Specifications

The Double Check Backflow Prevention Assembly shall be certified to NSF/ANSI 372, ASSE® Listed 1015, and supplied with full port gate valves. The main body and access cover shall be epoxy coated ductile iron (ASTM A 536 Grade 4), the gate and check valve shall be NORYL™, the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The checks shall be accessible for maintenance without removing the device from the line. The Double Check Backflow Prevention Assembly shall be a ZURN WILKINS Model 350.

Zurn Industries, LLC : Wilkins
 1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
 In Canada : Zurn Industries Limited
 3544 Nashua Drive, Mississauga, Ontario L4V 1L2 Ph. 905-405-8272, Fax 905-405-1292
 www.zurn.com

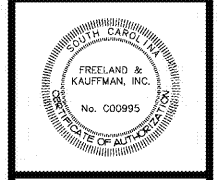
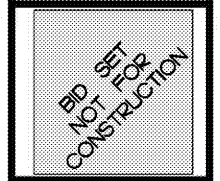
FIRE DOUBLE CHECK BFP ASSEMBLY

(N.T.S.)

Order Plans

REVISIONS	BY

FREELAND and KAUFFMAN, INC.
 Engineers • Landscape Architects
 209 West Stone Avenue
 Greenville, South Carolina 29609
 864-233-5497



CALIBER COLLISION
 1233 E. BUTLER ROAD
 GREENVILLE, SC 29607
 CROSS DEVELOPMENT CC FIVE FORKS, LLC.
 4936 MARSH RIDGE
 CARROLLTON, TX 75010
 TEL. (214) 614-8252

DRAWN
EAC
CHECKED
TMB
DATE
01/04/2021
SCALE

DRAWING
 30