

Model 350ADA

Double Check Detector Assembly

Application

Designed for installation on water lines in fire protection systems to protect against both backsiphonage and backpressure of polluted water into the potable water supply. Model 350ADA shall provide protection where a potential health hazard does not exist. Incorporates metered by-pass to detect leaks and unauthorized water use.

Standards Compliance (Horizontal & Vertical)

- ASSE® Listed 1048
- · AWWA Compliant C510 (with gates only), and C550
- · CSA® Certified B64.5
- UL® Classified
- · C-UL® Classified
- FM® Approved
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
- NYC MEA 221-04M-2 (2 1/2" 8")
- Meets the requirements of NSF/ANSI/CAN 61* *(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

By-Pass Backflow Assembly 3/4" Model 950XLD **Materials**

Main valve body Ductile Iron ASTM A 536 Access covers Ductile Iron ASTM A 536

Coatings NSF Approved electrostatic epoxy

finish

Stainless steel, 300 Series Internals

NORYL™

Stainless Steel, 300 Series Fasteners & Springs Elastomers

EPDM (FDA approved) Buna Nitrile (FDA approved)

NORYL™ **Polymers**

Features

Sizes: 2 1/2"*, 3"*, 4", 6", 8", 10"

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

(Flanged bolt pattern)

ASME B16.42 Class 150

*2 1/2" & 3" sizes use 4" body & reducer couplings

Dimensions & Weights (do not include pkg.)

MODEL		WEIGHT												
350	ADA ZE	SHU	SS TOFF VES	OSY (VAL) FLAN		OSY (VAL) GRO		VALVES		BUTTERFLY VALVES GROOVED				
in.	mm	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg			
2 1/2	65	105	48	192	87	184	83	157	71	147	67			
3	80	104	47	210	95	200	91	162	73	148	67			
4	100	91	41	230	104	204	93	147	66	139	63			
6	150	141	64	362	164	332	151	246	111	215	98			
8	200	302	137	762	346	738	335	491	223	445	202			
10	250	355	161	1024	464	902	409	628	285	570	259			







(with OS&Y gates)

(with BG valves)

Options (Suffixes can be combined)

- with flanged end OS & Y gate valves (standard) less shut-off valves (grooved body connections)
- □ LM less water meter
- with gallon meter (standard)
- □ CFM with cu ft meter □ CMM with cu meter meter
- □ G with grooved end connections
- □ FG with flanged inlet connection and grooved
- outlet connection
- □ PI with Post Indicator Gate Valves
- with grooved end butterfly valves with \square BG

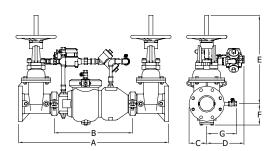
integral supervisory switches

□ BF with flanged end butterfly valves with integral

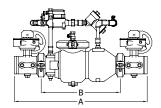
supervisory switches

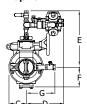
Accessories

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



MODEL 350ADA with OS&Y option





MODEL 350ADA with BG option

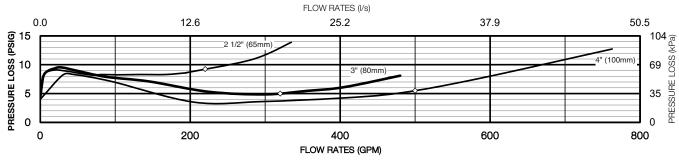
МО	DEL									DIMEN	ISION	(approx	imate)							
350/ SI		А		A WI BUTTE VALV	RFLY	B LE GAT VALV	Έ	c	;	D		OS&Y	OPEN	OS: CLO	§Υ	E WIT BUTTEI VALV	RFLY	F	:		G
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
2 1/2	65	35 1/8	892	32 1/8	816	20 1/8	511	4 1/2	114	9	229	17 3/4	451	15 3/8	391	17	432	6	152	7 1/4	184
3	80	36 1/8	918	33	838	20 1/8	511	4 1/2	114	9	229	20 1/4	514	17	432	17	432	6	152	7 1/4	184
4	100	38 1/4	972	33 1/4	845	19 7/8	505	4 1/2	114	9	229	22 1/2	572	18 1/4	464	17	432	6	152	8	203
6	150	47 1/4	1200	40 1/4	1022	25 7/8	657	5 1/2	140	10 1/2	267	30 1/2	775	24 1/4	616	17 1/2	445	7	178	10	254
8	200	62	1575	55	1397	38 1/2	978	10	254	12	305	37	940	28 1/2	724	16 15/16	430	8 1/2	216	11	279
10	250	64 5/8	1641	59	1499	38 1/2	978	10	254	12	305	45 5/8	1159	34 3/4	883	16 15/16	430	81/2	216	12	305

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

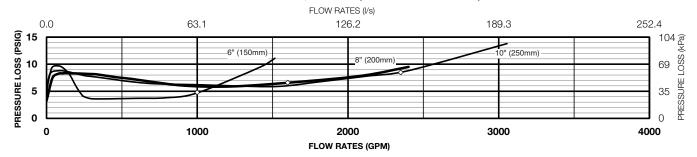
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766

Date: 08/20 Document No. BF-350ADA Product No. Model 350ADA Patent zurn.com/patents

MODEL 350ADA 2 1/2", 3" & 4" (STANDARD & METRIC)



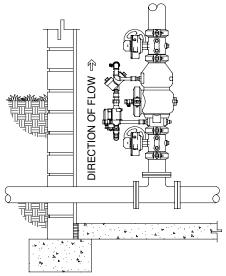
MODEL 350ADA 6", 8" & 10" (STANDARD & METRIC)



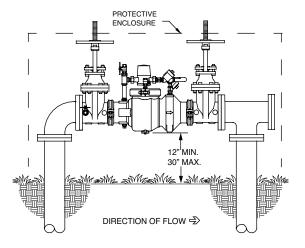
Typical Installation

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.

Capacity thru Schedule 40 Pipe (GPM)											
Pipe size	5 ft/sec	7.5 ft/sec	10ft/sec	15 ft/sec							
2 1/2"	75	112	149	224							
3"	115	173	230	346							
4"	198	298	397	595							
6"	450	675	900	1351							
8"	780	1169	1559	2339							
10"	1229	1843	2458	3687							
12"	1763	2644	3525	5288							



MODEL 350ADABG (Vertical Installation)



MODEL 350ADA (Outdoor Installation)

Specifications

The Double Check Detector Backflow Prevention Assembly shall be certified to NSF/ANSI/CAN 61, ASSE® Listed 1048, and supplied with full port gate valves. The main body and access cover shall be epoxy coated ductile iron (ASTM A 536), the seat ring and check valve shall be Noryl™ (NSF Listed), the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The first and second check valves shall be accessible for maintenance without removing the device from the line. The Double Check Detector Backflow Prevention Assembly shall be a ZURN WILKINS Model 350ADA.