

### 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")
- NSF® Listed-Standard 61, Annex G\*  
\*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

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

### Materials

Main valve body	Ductile Iron ASTM A 536 Grade 4
Access covers	Ductile Iron ASTM A 536 Grade 4
Coatings	FDA Approved electrostatic epoxy finish
Internals	Stainless steel, 300 Series NORYL™, NSF Listed
Fasteners & springs	Stainless Steel, 300 Series
Elastomers	EPDM (FDA approved) Buna Nitrile (FDA approved)
Polymers	NORYL™, NSF Listed

### Features

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

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

### Dimensions & Weights (do not include pkg.)

MODEL 350ADA SIZE	WEIGHT										
	LESS SHUTOFF VALVES		OSY GATE VALVES FLANGED		OSY GATE VALVES GROOVED		BUTTERFLY VALVES FLANGED		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

MODEL 350ADA SIZE	DIMENSION (approximate)																				
	A		A WITH BUTTERFLY VALVES		B LESS GATE VALVES		C		D		E OS&Y OPEN		E OS&Y CLOSED		E WITH BUTTERFLY VALVES		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	8 1/4	210	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	8 1/2	216	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	9	229	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	10 1/4	260	7	178	10	254
8	200	62	1575	55	1397	38 1/2	978	10	254	12	305	37	940	28 1/2	724	12	305	8 1/2	216	11	279
10	250	64 5/8	1641	58 1/2	1486	38 1/2	978	10	254	12	305	45 5/8	1159	34 3/4	883	13	330	8 1/2	216	12	305



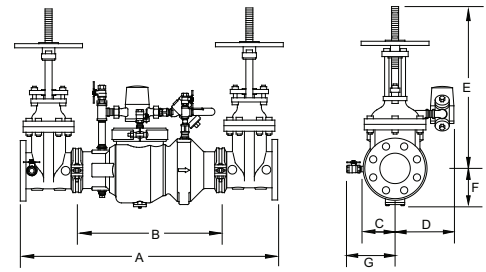
### Options

(Suffixes can be combined)

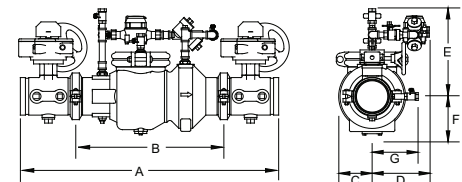
- with flanged end OS & Y gate valves (standard)
- L - less shut-off valves (grooved body connections)
- LM - less water meter
- with remote reading meter
- with gallon meter (standard)
- CFM - with cu ft meter
- CMM - with cu meter meter
- G - with grooved end connections
- FG - with flanged inlet connection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



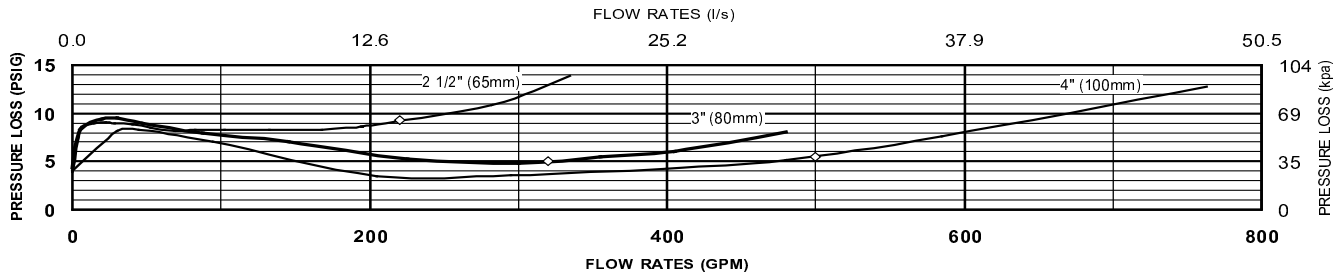
MODEL 350ADA with OS&Y option



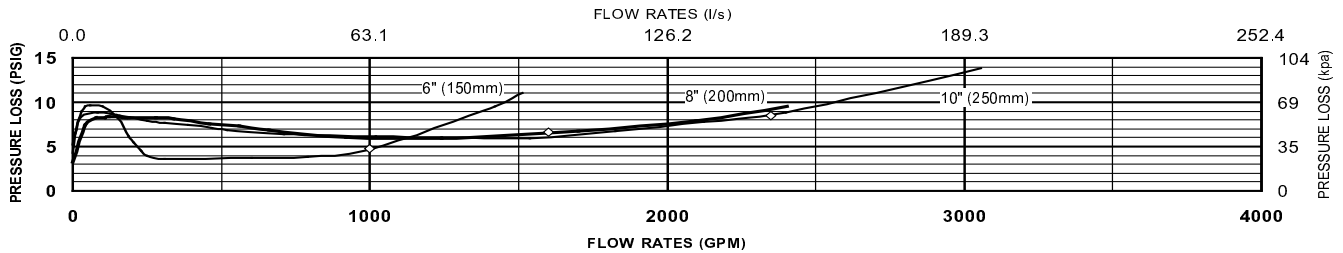
MODEL 350ADA with BG option

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

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



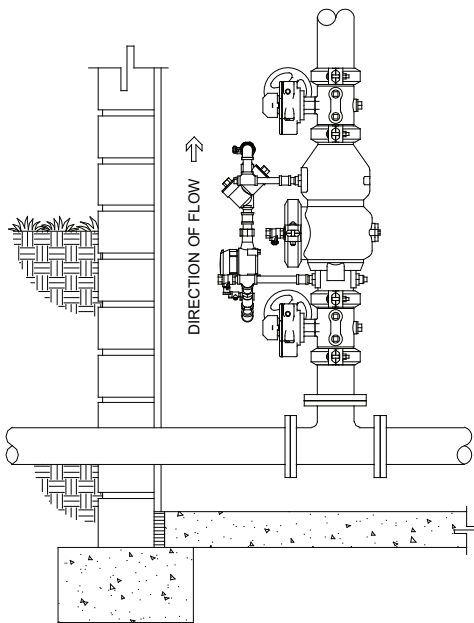
**MODEL 350ADA 6", 8" & 10" (STANDARD & METRIC)**



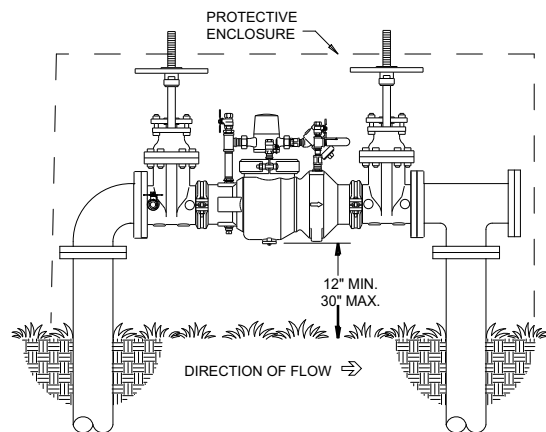
**Typical Installation**

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 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 Grade 4), 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 WILKINS Model 350ADA.