



#### APPLICATION

Designed for installation on potable water lines connections in fire sprinkler 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)
- CSA® Certified (4" - 8")
- 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")

#### 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) ANSI B16.1
- Class 125
- \*2 1/2" & 3" sizes use 4" body & reducer couplings

#### ACCESSORIES

- Repair kit (rubber only)
- Thermal expansion tank (Model XT)
- OS & Y Gate valve tamper switch (OSY-40)
- Test Cock Lock (Model TCL24)

#### 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 gpm meter (standard)
- with cu ft/min meter
- G - with grooved end OS&Y gate valves
- FG - with flanged inlet gate connection and grooved outlet gate connection
- PI - with Post Indicator Gate Valves (4"-10")
- BGVIC - with grooved end butterfly valves valves with integral supervisory switches



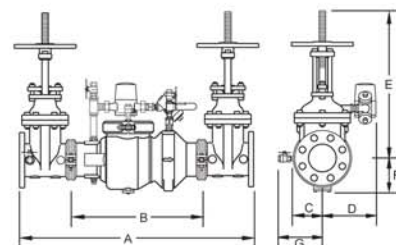
#### MATERIALS

- 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
- Fasteners & springs: Stainless Steel, 300 Series
- Elastomers: EPDM (FDA approved)
- Polymers: BUNA Nitrile (FDA approved)
- Polymers: NORYL™, NSF Listed

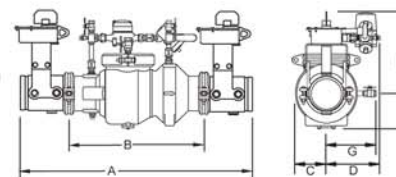
#### DIMENSIONS & WEIGHTS (do not include pkg.)

MODEL 350ADA SIZE	WEIGHT									
	WITHOUT GATES		WITH OS&Y GATES (GXF)		WITH OS&Y GATES (GXG)		WITH BUTTERFLY VALVES (GXG)			
	in.	mm	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
2 1/2	65	105	47.5	207	94	199	90.3	123.8	56.2	
3	80	104	47	224	101.5	214	97	124.4	56.5	
4	100	91	41.3	245	111	219	99.4	123	55.8	
6	150	141	64	377	171	347	158	193	87.6	
8	200	302	137	778	353.2	754	342.3	410	186	
10	250	355	161	1040	472.7	918	416.5	527	239.3	

MODEL 350ADA with OS&Y option



MODEL 350ADA with BGVIC option

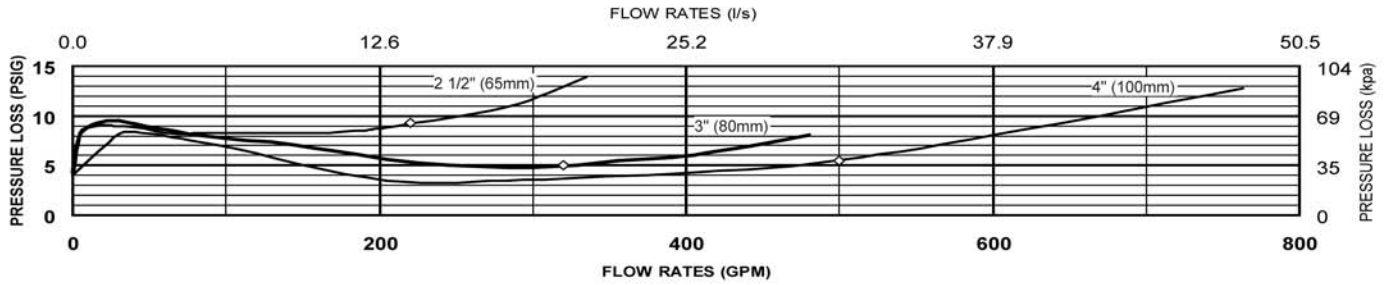


MODEL 350 ADA SIZE	DIMENSION (approximate)																				
	A		A WITH BUTTERFLY VALVES		B LESS GATE VALVES		C		D		E OS&Y OPEN		E OS&Y CLOSED		E WITH BUTTERFLY VALVES		F		G		
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
2 1/2	65	35 1/8	892	32 1/8	816	20 1/8	511	4 1/2	114	9	229	16 3/8	416	13 7/8	352	8	203	6	152	7 1/4	184
3	80	36 1/8	918	33	838	20 1/8	511	4 1/2	114	9	229	18 7/8	479	15 5/8	397	8	203	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 3/4	578	18 1/4	464	9 1/8	232	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 1/8	765	23 3/4	603	10 1/8	257	7	178	10	254
8	200	62	1575	55	1397	38 1/2	978	10	254	12	305	37 3/4	959	29 1/4	743	11 15/16	303	8 1/2	216	11	279
10	250	64 5/8	1642	58 1/2	1485	38 1/2	978	10	254	12	305	45 3/4	1162	35 3/8	899	13 5/16	338	8 1/2	216	12	305

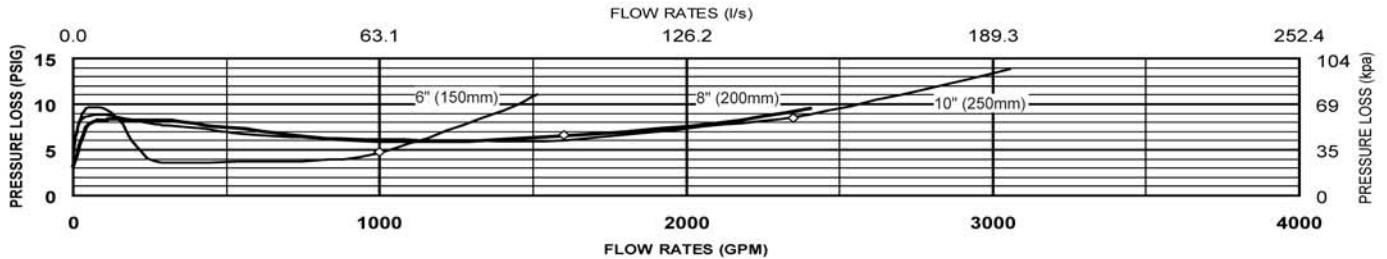
Attention: Model 350ADA (grooved body) and Model 350DA (flange body) have different lay lengths.

## FLOW CHARACTERISTICS

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



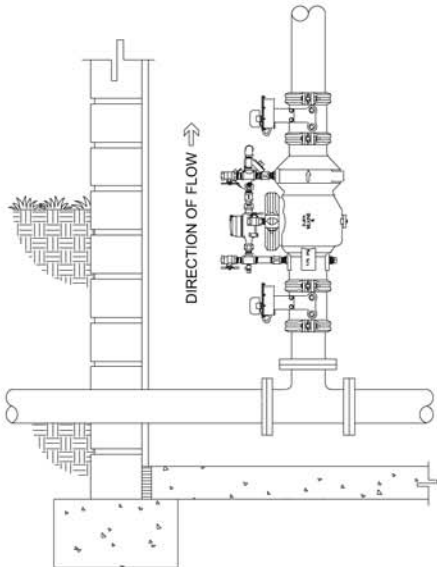
### MODEL 350ADA 6", 8" & 10" (STANDARD & METRIC)



◇ Rated Flow (Established by approval agencies)

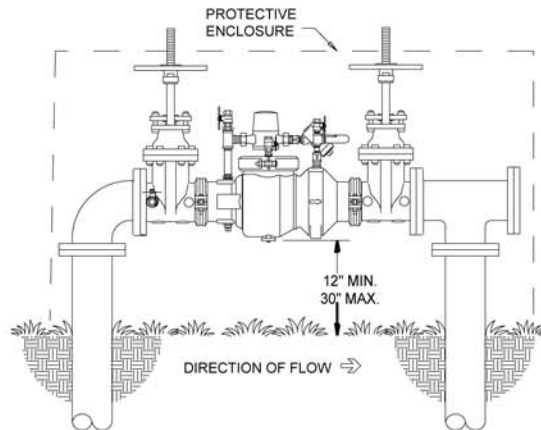
### TYPICAL INSTALLATION

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.



MODEL 350ADABGVIC (VERTICAL INSTALLATION)

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 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.