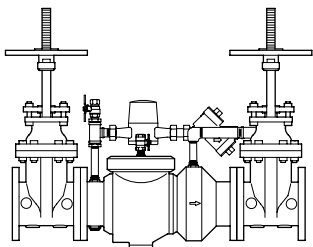


Model 350DA

Double Check Detector Assembly
(Patent No. 5,913,331)



FEATURES

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

OPTIONS

(Suffixes can be combined)

- ☐ - with OS & Y gate valves (standard)
- ☐ L - less shut-off valves (flanged body connections)
- ☐ LM - less water meter
- ☐ - with remote reading meter
- ☐ - with gpm meter (standard)
- ☐ - with cu ft/min meter
- ☐ FS - with flanged cast iron wye type strainer
- ☐ FSC - with flanged epoxy coated wye type strainer
- ☐ G - with groove end gate valves
- ☐ FG - with flanged inlet gate connection and grooved outlet gate connection

ACCESSORIES

- ☐ Repair kit (rubber only)
- ☐ Thermal expansion tank (Model WXTP)
- ☐ Flange by Groove adapter (FLA)
- ☐ Gate valve tamper switch (OSY-40)

APPLICATION

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

STANDARDS COMPLIANCE

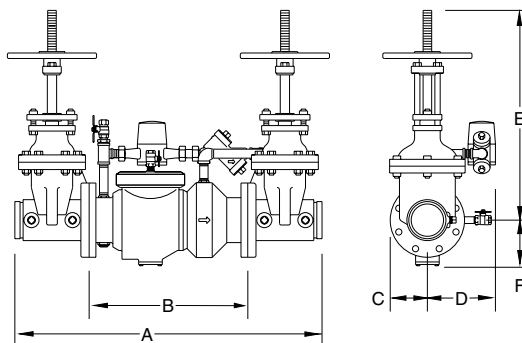
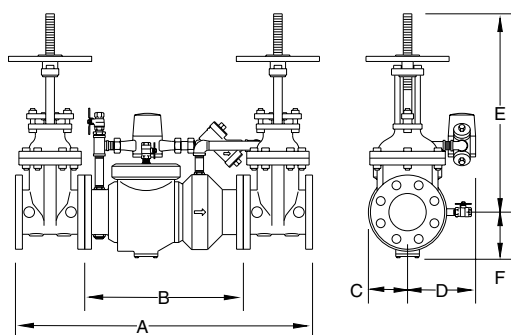
(unless otherwise noted, applies to 4" & 6"

Horizontal and Vertical flow-up)

- ☐ ASSE® Listed 1048
- ☐ CSA® Certified
- ☐ AWWA Compliant
- ☐ UL® Classified (sizes 2 1/2" thru 6")
- ☐ C-UL® Classified (sizes 2 1/2" thru 6")
- ☐ FM® Approved (sizes 2 1/2" thru 6")
- ☐ Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California

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
 NORYL™, NSF Listed
 Fasteners Stainless Steel, 300 Series
 Elastomers EPDM (FDA approved)
 Buna Nitrile (FDA approved)
 Polymers NORYL™, NSF Listed
 Springs Stainless Steel, 300 Series



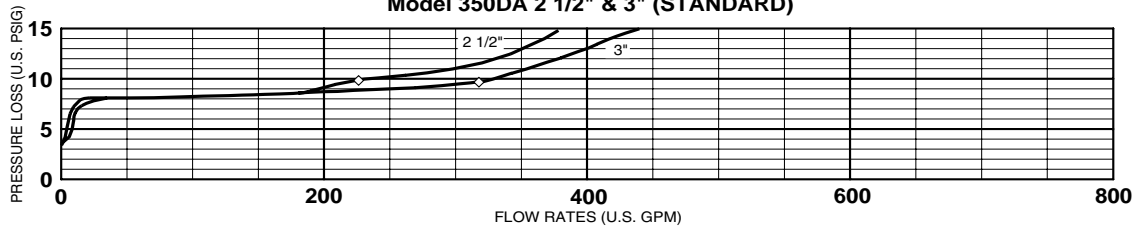
MODEL 350DAG SHOWN

DIMENSIONS & WEIGHTS (do not include pkg.)

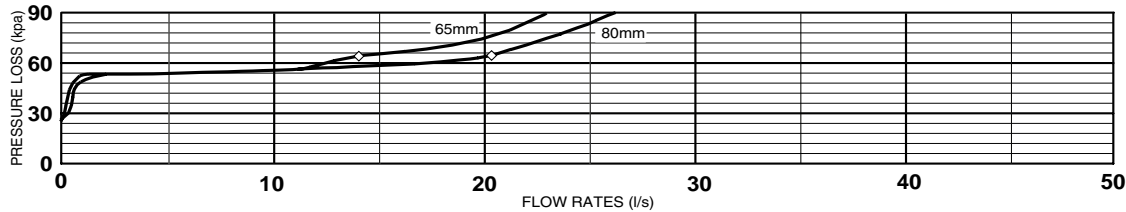
MODEL SIZE		DIMENSION (approximate)														WEIGHT			
		A		B LESS GATE VALVES		C		D		E OS&Y OPEN		E OS&Y CLOSED		F		WITHOUT GATE VALVES		WITH OS&Y GATE VALVES	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg	lbs.	kg
2 1/2	65	31	787	15 7/8	403	3 3/4	95	9	229	16 3/8	416	13 7/8	352	3 1/2	89	68	30.9	178	80.8
3	80	32	813	15 7/8	403	3 3/4	95	9	229	18 7/8	479	15 5/8	397	3 1/2	89	68	30.9	198	90
4	100	37 5/8	956	19 1/2	495	4 1/2	114	9	229	22 3/4	578	18 1/4	464	6	152	106	48	296	134.4
6	150	44 5/8	1133	23 1/2	597	5 1/2	140	10 1/2	267	30 1/8	765	23 3/4	603	7	178	180	81.7	480	217.9
8	200	60 5/8	1540	37 1/2	953	10	254	12	305	37 3/4	959	29 1/4	743	8 1/2	216	374	170	850	385.9

FLOW CHARACTERISTICS

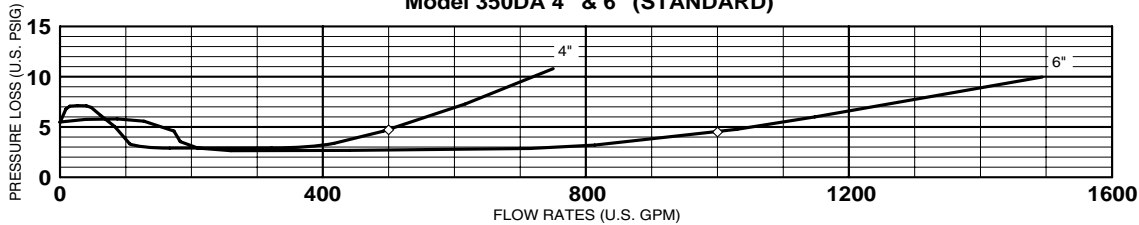
Model 350DA 2 1/2" & 3" (STANDARD)



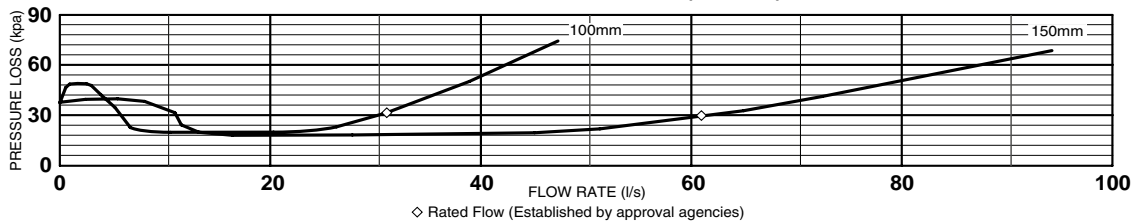
Model 350DA 65 & 80mm (METRIC)



Model 350DA 4" & 6" (STANDARD)



MODEL 350DA 100 & 150mm (METRIC)



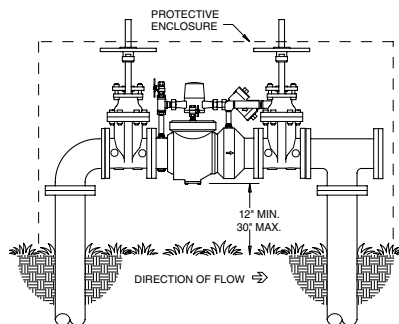
◇ Rated Flow (Established by approval agencies)

TYPICAL INSTALLATION

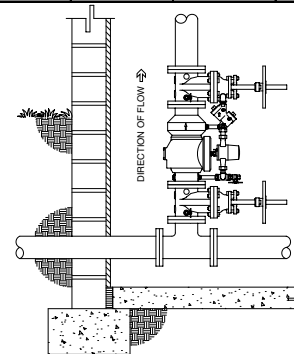
Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the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

Capacity thru Schedule 40 Pipe (GPM)				
Pipe size	5 ft/sec	7.5 ft/sec	10 ft/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

OUTDOOR INSTALLATION



VERTICAL 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 350DA.