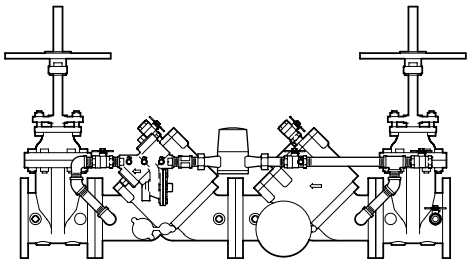
WILKINS
A ZURN COMPANY

Model 975DA

Reduced Pressure Detector Assembly



APPLICATION

Designed for installation on potable water connections in fire sprinkler systems to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. Assembly shall provide protection where a potential health hazard exists.

FEATURES

Sizes: ❑ 2½" ❑ 3" ❑ 4" ❑ 6" ❑ 8" ❑ 10"

Maximum working water pressure	175 PSI
Maximum working water temperature	140°F
Hydrostatic test pressure	350 PSI
End connections flanged	ANSI B16.1 Class 125

STANDARDS COMPLIANCE

- ❑ ASSE® Listed 1047
- ❑ CSA® Certified
- ❑ UL® Classified
- ❑ C-UL® Classified
- ❑ FM® Approved
- ❑ Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California

OPTIONS

(Suffixes can be combined)

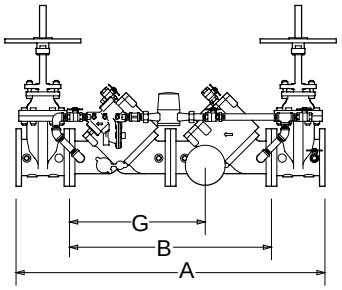
- ❑ - with OS & Y gate valves (standard)
- ❑ G - with grooved by flanged OS&Y gate valves
- ❑ L - less shut-off valves
- ❑ LM - less water meter
- ❑ - with remote reading meter
- ❑ - with gpm meter (standard)
- ❑ - with cu ft/min meter
- ❑ MS - with relief valve monitor switch

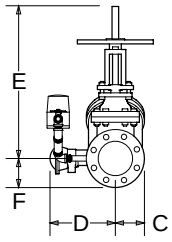
MATERIALS

Main valve body	Cast Iron ASTM A126 Class B
Access covers	Cast Iron ASTM A126 Class B
Coatings	FDA Approved Epoxy finish
Internals	Stainless Steel, 300 Series
	Cast Bronze ASTM B 584
	Brass ASTM B-16
Elastomers	EPDM (FDA approved)
	Buna Nitrile (FDA approved)
Polymers	Delrin™, NSF Listed
Springs	Stainless steel, 300 series

ACCESSORIES

- ❑ Air gap (Model AG)
- ❑ Repair kit (rubber only)
- ❑ Thermal expansion tank (Model WXTP)
- ❑ Gate valve tamper switch (OSY-40)





DIMENSIONS & WEIGHTS (do not include pkg.)

MODEL SIZE		DIMENSIONS (approximate)																WEIGHT			
		A		B WITHOUT GATE VALVES		C		D		E OS&Y GATE VALVE OPEN		E OS&Y VALVE CLOSED		F		G		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	lbs.	kg	lbs.	kg
2 1/2	65	37 1/8	943	22	559	4	102	10	254	16	406	14	356	4	102	16	406	111	50.4	221	100.3
3	80	38 1/8	968	22	559	4	102	10	254	20	508	16	406	4	102	16	406	111	50.4	245	111.2
4	100	50 1/4	1276	32 1/8	816	5	127	10	254	23	584	19	483	5	127	22	559	252	114.4	428	194.3
6	150	62	1575	41	1041	6	152	14	356	31	767	25	635	6	152	30	762	546	247.9	822	373.2
8	200	71 1/8	1807	48	1219	7 1/2	191	16	406	39	991	30	762	7 1/2	191	31	787	857	389.1	1285	583.4
10	250	84 1/8	2137	58	1473	9	229	18	457	46	1168	36	914	9	229	41	1041	1330	603.8	2050	930.7

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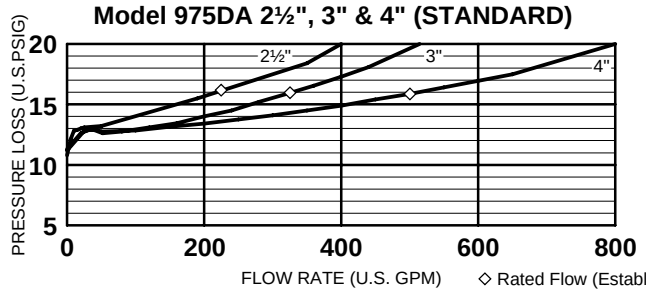
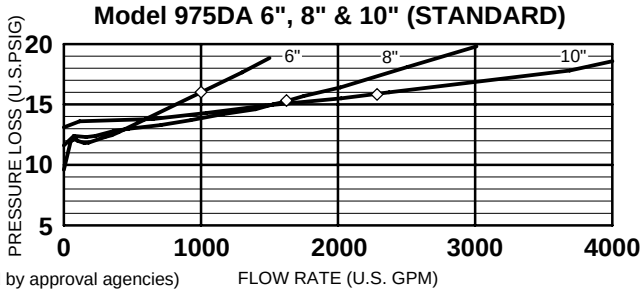
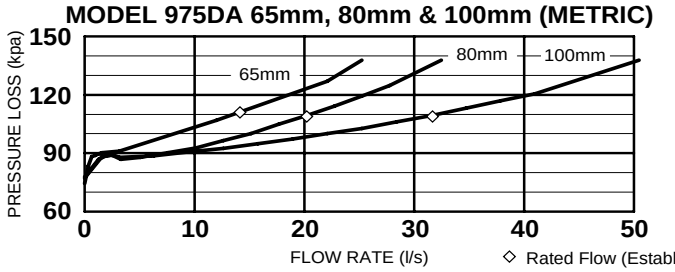
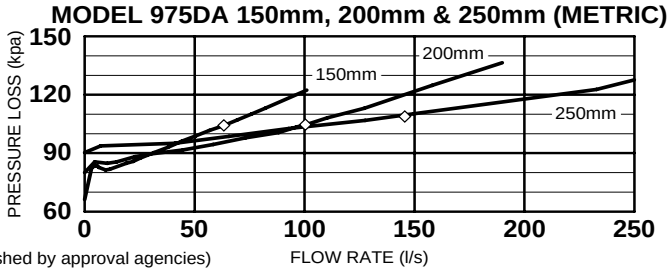
FLOW CHARACTERISTICS





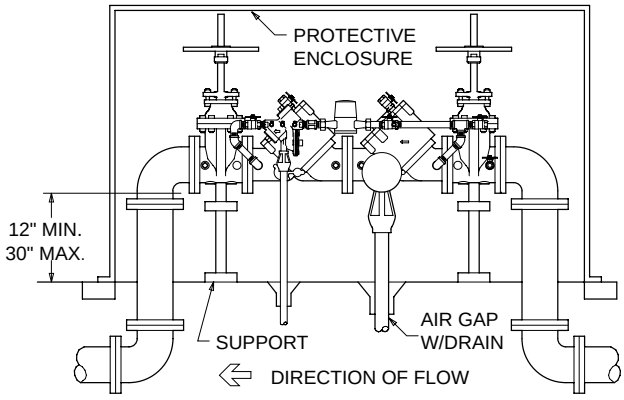




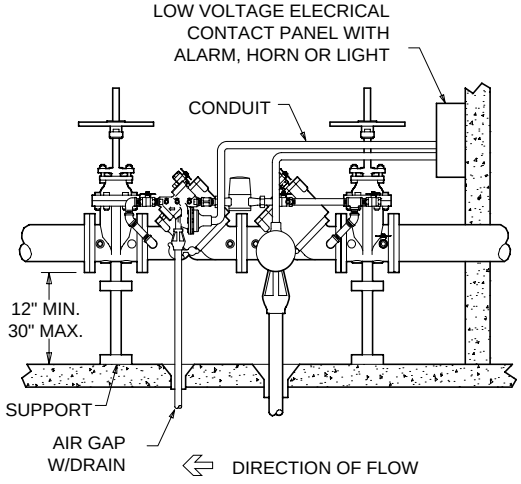
TYPICAL INSTALLATION

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.

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



INDOOR INSTALLATION
(shown with optional MS switch)

SPECIFICATIONS

The reduced pressure pressure detector backflow preventer shall be ASSE® Listed 1047, and supplied with full port OS&Y gate valves. The main body and access covers shall be epoxy coated cast iron (ASTM A 126 Class B), the seat ring and check valve shall be cast bronze (ASTM B 584), the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The first check shall be accessible for maintenance without removing the relief valve or the entire device from the line. If installed indoors, the installation shall be supplied with an air gap adapter, and integral monitor switch. The reduced pressure principle detector backflow preventer shall be a WILKINS Model 975DA.

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