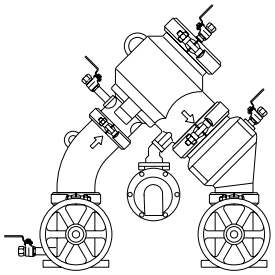
WILKINS
A ZURN COMPANY

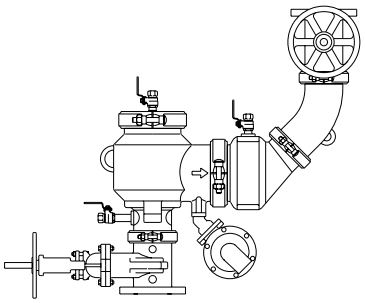
Model 475/475V

Reduced Pressure Principle Assembly

(Patent No. 5,913,331)



MODEL 475



MODEL 475V

APPLICATION

Designed for installation on potable water lines 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. The Model 475 is for applications requiring vertical flow up and vertical flow down. The Model 475V is for applications requiring vertical flow up.

FEATURES

Sizes: ❑ 4" ❑ 6"

Maximum working water pressure	175 PSI
Maximum working water temperature	140°F
Hydrostatic test pressure	350 PSI
End connections	
(Grooved for steel)	AWWA C606-87
(Flanged)	ANSI B16.1 Class 125

OPTIONS

(Suffixes can be combined)

- ❑ - with NRS shut-off valves (standard)
- ❑ FS - with cast iron wye type strainer (flanged only)
- ❑ FSC - with epoxy coated wye type strainer (flanged only)
- ❑ G - with groove end gate valves
- ❑ FG - with flanged inlet gate connection and grooved outlet gate connection
- ❑ L - less shut-off valves (grooved body connections)
- ❑ OSY - with OS & Y gate valves
- ❑ V - vertical flow up configuration
- ❑ VFG - with flanged inlet gate connection and grooved outlet gate connection

ACCESSORIES

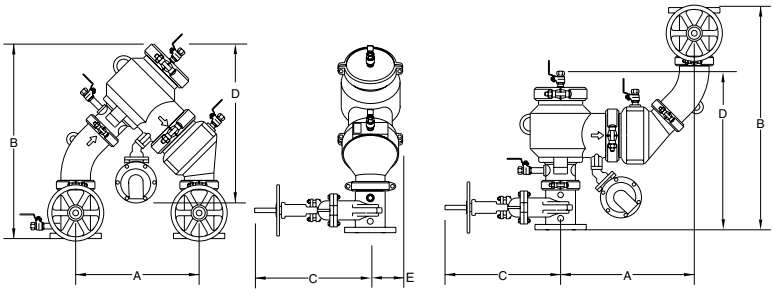
- ❑ Air gap (Model AG-6 for 475; Model AG-9 for 475V)
- ❑ Repair kit (rubber only)
- ❑ Thermal expansion tank (Model WXTP)
- ❑ Valve setter (Model FLS or MJS)
- ❑ Flange by groove adapter (FLA)
- ❑ Gate valve tamper switch (OSY-40)

STANDARDS COMPLIANCE

- ❑ ASSE® Listed 1013
- ❑ AWWA Compliant
- ❑ IAPMO® Listed
- ❑ UL® Classified
- ❑ C-UL® Classified
- ❑ FM® Approved
- ❑ Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California (4" & 6" 475 and 4" 475V)

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



DIMENSIONS & WEIGHTS (do not include pkg.)

MODEL SIZE	DIMENSIONS (approximate)																				WEIGHT					
	A		A1 SETTER END TO END FLS		A1 SETTER END TO END MJS		B WITH GATE VALVES		B LESS GATE VALVES		C OS&Y OPEN		C OS&Y CLOSED		C NRS GATES		D		E		LESS GATE VALVES		NRS GATE VALVES		OS&Y GATE VALVES	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg	lbs.	kg	lbs.	kg
4" 475	18 5/16	465	31 5/16	795	29 5/16	745	30	762	21	533	22 3/4	578	18 1/4	460	14 3/4	375	23 1/4	591	5	127	97	44	277	125.8	287	130.3
475V	18 15/16	481	N/A	N/A	N/A	N/A	36 1/2	927	18 1/2	470	22 3/4	578	18 1/4	460	14 3/4	375	21	533	5	127	97	44	277	125.8	287	130.3
6" 475	18 13/16	478	34 3/4	883	32 3/4	832	35 1/2	902	25	635	30 1/8	765	23 3/4	603	19	483	26	660	6	152	171	77.6	455	206.6	471	213.8
475V	21	533	N/A	N/A	N/A	N/A	42	1067	21	533	30 1/8	765	23 3/4	603	19	483	22	559	6	152	171	77.6	455	206.6	471	213.8

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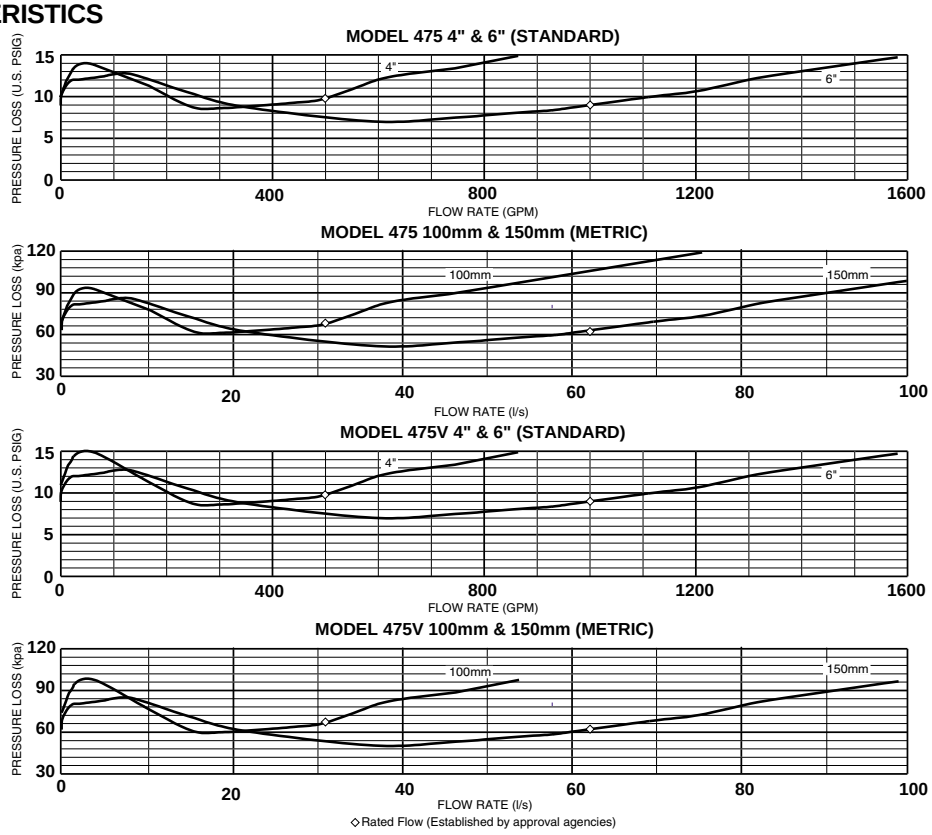
FLOW CHARACTERISTICS

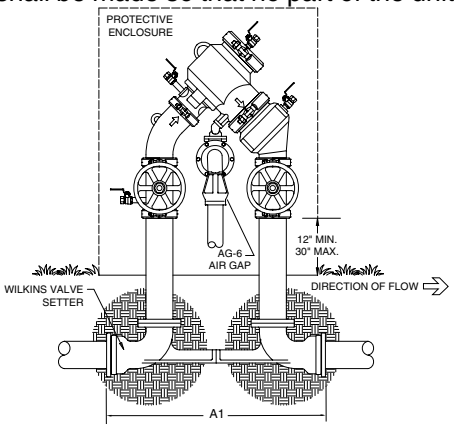


◇Rated Flow (Established by approval agencies)

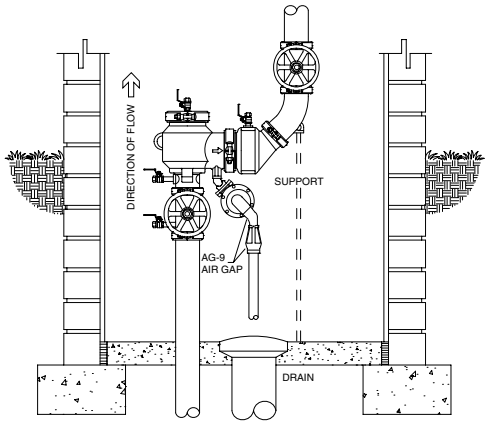
TYPICAL INSTALLATION

Local codes shall govern installation requirements. To be installed in accordance with the manufacturers' instructions and the latest edition of the Uniform Plumbing Code. 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 reduced pressure principle backflow preventer shall be ASSE® Listed 1013, and supplied with full port gate valves. The main body and access covers shall be epoxy coated ductile iron (ASTM A 536 Grade 4), the seat ring and check valve shall be NORYL™, the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. Center stem guided design shall incorporate two torsion springs to bias the check in the closed position. The first and second checks 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. The reduced pressure principle backflow preventer shall be a WILKINS Model 475 or 475V.

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