

Application

Designed for installation on potable water lines to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. The Model 375AST provides protection where a potential health hazard exists. Ideal for use where lead-free* valves are required. This backflow prevention assembly is connectable and capable of flood sensing.



Standards Compliance

- ASSE® Listed 1013
 - AWWA Compliant C511 (with gates only) and C550
 - FM® Approved
 - UL® Classified
 - C-UL® Classified
 - CSA® Certified B64.4
 - cUPC® Listed
 - Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
 - Meets the requirements of NSF/ANSI/CAN 61 and 372*
- *(LESS THAN 0.25% WEIGHTED AVERAGE LEAD CONTENT)

Materials

Main Valve Body	304L Stainless Steel
Access Covers	304L Stainless Steel
Coatings	Fusion Epoxy Finish (meets the requirements of NSF/ANSI/CAN 61)
Fasteners and Springs	300 series Stainless Steel
Internals	300 series Stainless Steel
	NORYL™
O-rings	Buna Nitrile (FDA approved)
Seal Rings	EPDM (FDA approved)
Sensing Line	Stainless Steel braided hose

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
End connections (Flanged bolt pattern)	ASME B16.42 Class 150



4" 375AST

Options (Suffixes can be combined)

OSY	With flanged end NRS gate valves (standard)
OSYG	With flanged end OS&Y gate valves
BG	With grooved end OS&Y gate valves
BF	With grooved end butterfly valves with integral supervisory switches
G	With flanged end butterfly valves with integral supervisory switches
GF	With grooved end NRS gate valves
FG	With grooved inlet gate connection and flanged outlet gate connection
FSC	With flanged inlet connection and groove outlet connection
	With epoxy coated wye type strainer (flanged only)

Accessories

- Repair Kits - RP Relief Valve
- Repair Kits (2-1/2" - 10")
- RP Backflow w/Wireless Monitor [375ASTW1](#)
- Air Gap Fitting for RP Backflow [AG](#)
- Thermal Expansion Tank [XT](#)
- Connected Pressure Monitor [ZCSM-PF](#)
- Wireless Monitor Retrofit Kit [RFK-375W1](#)
- OSY Gate Valve Supervisory Switch [OSY-40](#)
- Quick Test Fitting Set [QT-SET](#)

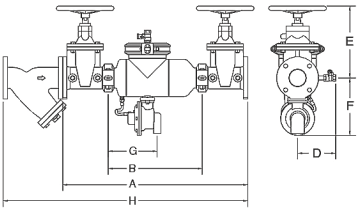
Suggested Pairing

- Pilot-Operated PRV [ZW209](#)
- Pressure Reducing Valve [500XL3](#)

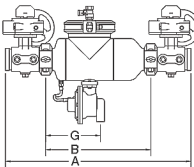
Dimensions & Weights (do not include pkg.)

MODEL 375AST SIZE		WEIGHT															
		WITHOUT GATES		WITH NRS GATES (GXF)		WITH OS&Y GATES (GXF)		WITH NRS GATES (GXG)		WITH OS&Y GATES (GXG)		WITH BUTTERFLY VALVES (GXG)		WITH BUTTERFLY VALVES (GXF)			
in.	mm	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg		
2 1/2	65	41	19	102	46	120	54	92	42	110	50	87	39	97	44		
3	80	42	19	119	54	137	62	107	49	125	57	91	41	104	47		
4	100	43	20	176	80	212	96	156	71	192	87	95	43	117	53		
6	150	71	32	288	130	346	157	258	117	316	143	158	71	188	85		
8	200	177	80	579	263	661	300	539	244	607	275	361	164	407	185		
10	250	177	80	784	356	880	399	732	332	822	373	458	208	516	234		

MODEL 375AST with NRS & FSC option



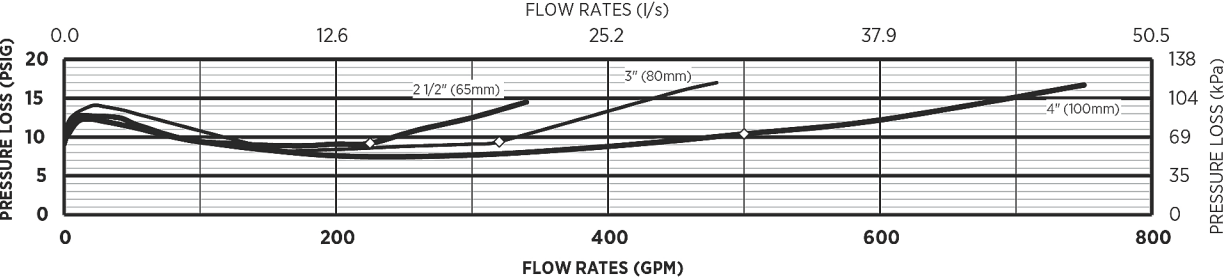
MODEL 375AST with BG option



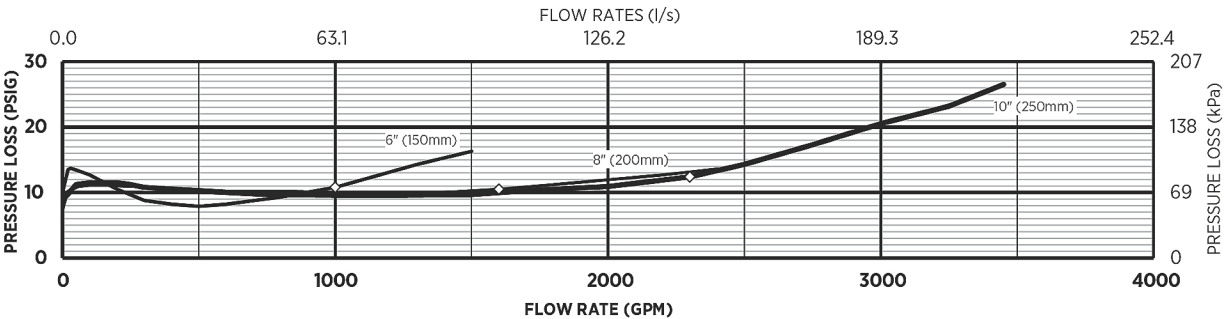
Relief Valve discharge port:
2 1/2" - 6" - 2.75 sq. in.
8" - 10" - 3.69 sq. in.

MODEL 375AST SIZE		DIMENSION (approximate)																							
		A		A WITH BUTTERFLY VALVES		B LESS GATE VALVES		C		D		E NRS GATE		E OS&Y OPEN		E OS&Y CLOSED		E WITH BUTTERFLY VALVES		F		G		H	
in.	mm	in.	mm	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	31 7/8	810	28 3/4	730	16 5/8	422	4 1/2	114	7 1/4	184	11 1/2	292	17 3/4	451	15 3/8	391	8 1/4	210	9 3/4	248	8 5/8	219	42	1067
3	80	32 7/8	835	29 3/8	746	16 5/8	422	4 1/2	114	7 1/4	184	12 3/4	324	20 1/4	514	17	432	8 1/4	210	9 3/4	248	8 5/8	219	43 1/2	1105
4	100	34 7/8	886	30 1/4	768	16 5/8	422	4 1/2	114	8	203	14 1/2	368	22 1/2	572	18 1/4	464	9	229	9 3/4	248	8 5/8	219	50	1270
6	150	43 1/2	1105	36 1/2	927	22 1/4	565	5 1/2	140	10	254	18	457	30 1/2	775	24 1/4	616	10 1/4	260	10 3/4	273	11 1/4	286	61 5/8	1565
8	200	52 3/4	1340	45 3/4	1162	29 1/2	749	9 1/4	235	11	279	21 1/8	537	37	940	28 1/2	724	18 1/2	470	15 5/8	397	13 1/4	337	77 1/8	1959
10	250	55 3/4	1416	49 3/4	1264	29 1/2	749	9 1/4	235	12	305	24 3/4	629	45 5/8	1159	34 3/4	883	18 1/2	470	15 5/8	397	13 1/2	343	85 3/8	2169

MODEL 375AST 2 1/2", 3" & 4" (STANDARD & METRIC)



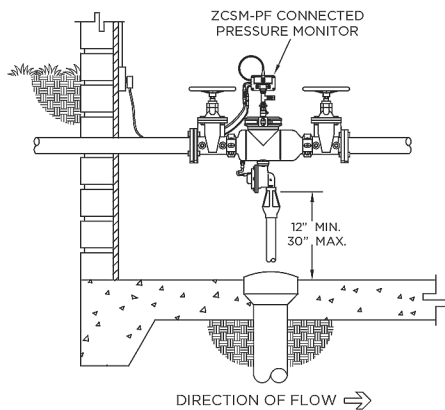
MODEL 375AST 6", 8" & 10" (STANDARD AND METRIC)



Typical Installation

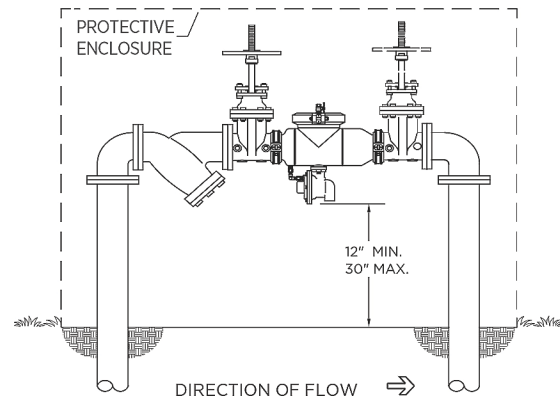
Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the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

Capacity thru Schedule 40 Pipe (GPM)				
Pipe size	5 ft/sec	7.5 ft/sec	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
12"	1763	2644	3525	5288



INDOOR INSTALLATION

(375AST with ZCSM-PF Connected Pressure Monitor accessories)



OUTDOOR HORIZONTAL INSTALLATION

ZURN WILKINS MODEL 375ASTOSYFSC

[Installation and Maintenance Instructions 2-1/2" - 6" Model 375AST](#)

[Installation and Maintenance Instructions 8" - 10" Model 375AST](#)

Specifications (375AST Written Specification)

The Reduced Pressure Principle Backflow Prevention Assembly shall be certified to NSF/ANSI/CAN 61 and 372, ASSE® Listed 1013, and supplied with full port gate valves. The main body and access cover shall be 304L Stainless Steel, 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. The checks and the relief valve shall be accessible for maintenance without removing the device from the line. The Reduced Pressure Principle Backflow Prevention Assembly shall be a WILKINS Model 375AST.