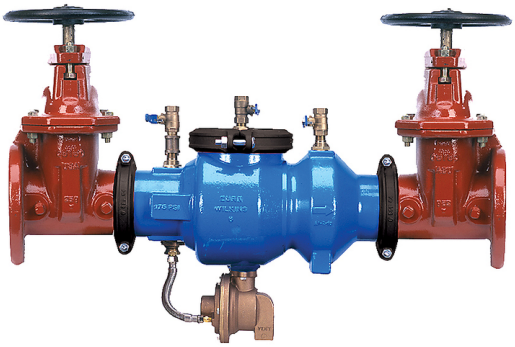
WILKINS Model 375A

Backflow Preventer - Reduced Pressure Principle Assembly

TAG

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 375A 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.



6" 375A

Standards Compliance

- ASSE® Listed 1013
- AWWA Compliant C511 (with gates only) and C550
- cUPC® Listed
- CSA® Certified B64.4
- 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 484-04-M
- Meets the requirements of NSF/ANSI/CAN 61 and 372*

*(LESS THAN 0.25% WEIGHTED AVERAGE LEAD CONTENT)

Materials

Main Valve Body	Ductile Iron ASTM A536
Access Covers	Ductile Iron ASTM A536
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)	ANSI/ASME B16.42 Class 150

*2 1/2 & 3" sizes use 4" body & reducer couplings

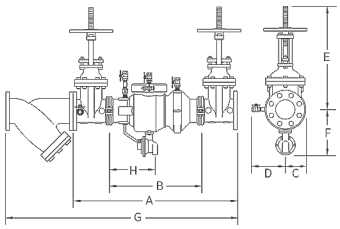
Options (Suffixes can be combined)

	With flanged end NRS gate valves (standard)
L	Less shut-off valves (grooved body connections)
OSY	With flanged end OS&Y gate valves
OSYG	With grooved end OS&Y gate valves
PI	With post indicator gate valves
BG	With grooved end butterfly valves with integral supervisory switches
BF	With flanged end butterfly valves with integral supervisory switches
G	With grooved end NRS gate valves
GF	With grooved inlet gate connection and flanged outlet gate connection
FG	With flanged inlet gate connection and grooved outlet gate connection
FSC	With epoxy coated wye type strainer (flanged only)

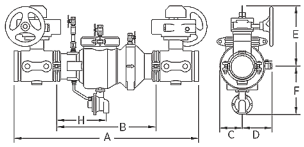
Accessories

- Repair Kits (2-1/2" - 10")
- Repair Kits – RP Relief Valve
- 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

MODEL 375A with OSY & FSC option



MODEL 375A with BG option



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

Dimensions & Weights (do not include pkg.)

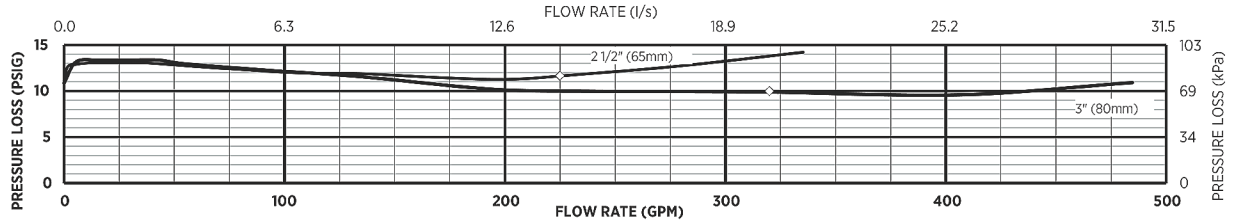
MODEL 375A SIZE		WEIGHT													
		WITHOUT GATES		WITH NRS GATES (GXF)		WITH OS&Y GATES (GXF)		WITH NRS GATES (GXG)		WITH OS&Y GATES (GXG)		WITH BUTTERFLY VALVES (GXG)		WITH BUTTERFLY VALVES (GXF)	
in.	mm	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
2 1/2	65	97	44	191	87	199	90	183	83	191	87	139	63	149	68
3	80	96	43.5	211	96	217	98	201	91	207	94	141	64	154	70
4	100	83	38	227	103	237	108	201	91	211	96	131	59	153	69
6	150	136	62	356	162	372	169	326	148	342	155	210	95	240	109
8	200	305	139	757	344	781	355	757	344	757	344	449	204	495	225
10	250	358	162	985	447	1043	473	863	391	921	418	574	260	632	287

MODEL 375A SIZE		DIMENSION (approximate)																							
		A		A WITH BUTTERFLY VALVES		B LESS GATE VALVES		C		D		E OS&Y OPEN		E OS&Y CLOSED		E NRS GATE		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	35 1/8	892	32 1/8	816	20 1/8	511	4 1/2	114	7 1/4	184	16 3/8	416	13 7/8	352	11 3/8	289	8 1/4	210	11	279	45 1/4	1150	9 5/8	247
3	80	36 1/8	918	33	838	20 1/8	511	4 1/2	114	7 1/4	184	18 7/8	479	15 5/8	397	12 3/8	314	8 1/2	216	11	279	46 7/8	1191	9 5/8	247
4	100	38 1/4	972	33 1/4	845	19 7/8	505	4 1/2	114	8	203	22 3/4	578	18 1/4	464	14 3/4	375	9	229	11	279	53 3/8	1356	9 5/8	247
6	150	47 1/4	1200	40 1/4	1022	25 7/8	657	5 1/2	140	10	254	30 1/8	765	23 3/4	603	19	483	10 1/4	260	12 3/8	314	65 3/8	1661	13	330
8	200	62	1575	55	1397	38 1/2	978	10	254	11	279	37 3/4	959	29 1/4	743	22 1/2	572	12	305	15 3/8	391	86 3/8	2194	17 5/16	440
10	250	64 5/8	1641	59	1499	38 1/2	978	10	254	12	305	45 3/4	1162	35 3/8	899	26 1/2	673	13	330	15 3/8	391	94 3/8	2398	17 1/8	435

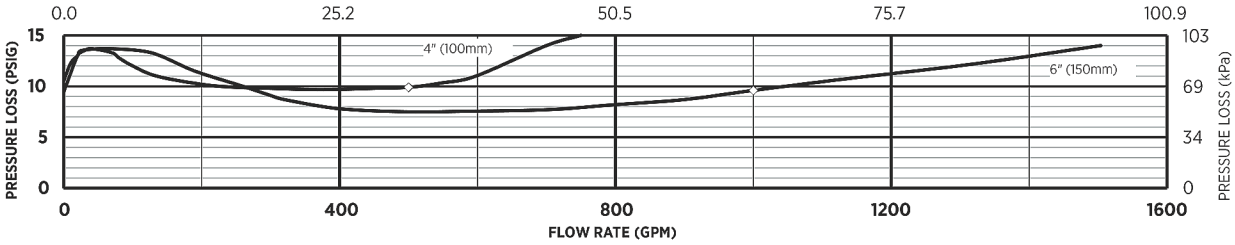
Flow Characteristics

◇ Rated Flow (established by approval agencies)

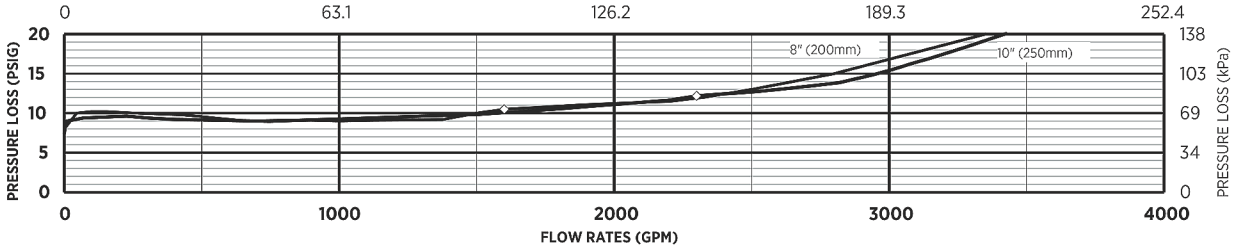
MODEL 375A 2-1/2", 3" (STANDARD & METRIC)



MODEL 375A 4" & 6" (STANDARD & METRIC)

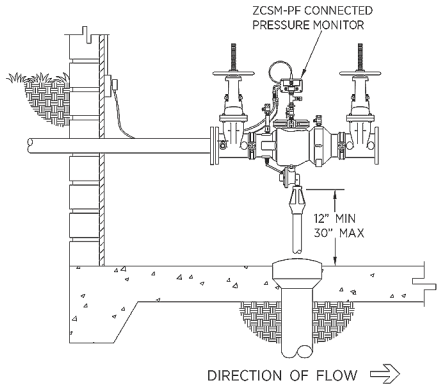


MODEL 375A 8" & 10" (STANDARD AND METRIC)



Typical Installation

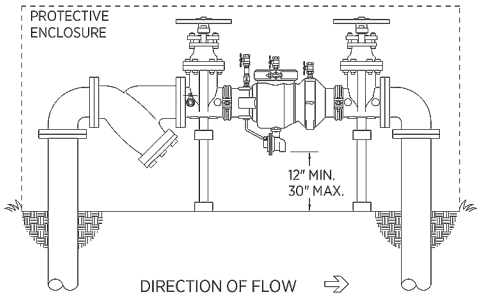
Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the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



INDOOR INSTALLATION

(375AOSY with ZCSM-PF Connected Pressure Monitor)

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



OUTDOOR INSTALLATION

(375A with FSC option)

Installation and Maintenance Instructions 2-1/2" - 6" Model 375A

Installation and Maintenance Instructions 8" and 10" Model 375A

Specifications

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 epoxy coated ductile iron (ASTM A 536), 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 375A.