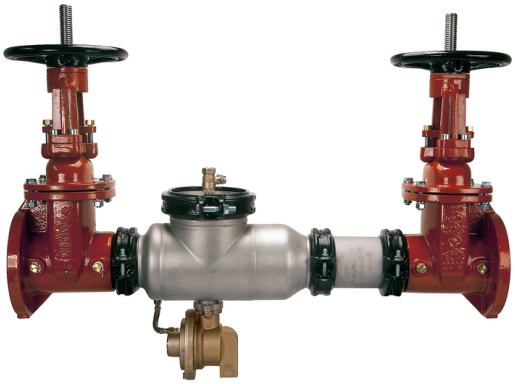
Model 375ASTR

Backflow Preventer - Reduced Pressure Principle Assembly with custom replacement spool

TAG

Application

Designed for drop-in replacement of existing longer lay length assemblies without the need for additional spools or spacers, saving 2 to 6 hours of installation labor and up to 2 machine hours per backflow replacement. A custom sized grooved spool installed between the backflow body and downstream shut-off valve allows customer specified assembly lengths to be shipped directly from the factory. Designed for installation on potable water lines to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. The Model 375ASTR provides protection where a potential health hazard exists. This backflow prevention assembly is connectable and capable of flood sensing.



4" 375ASTROSY

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	Electrostatic Epoxy Finish (FDA approved)
Fasteners and Springs	300 series Stainless Steel
Internals	300 series Stainless Steel
O-rings	Buna Nitrile (FDA approved)
Seal Rings	EPDM (FDA approved)
Sensing Line	Stainless Steel braided hose

Features

Sizes in 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

Options (Suffixes can be combined)

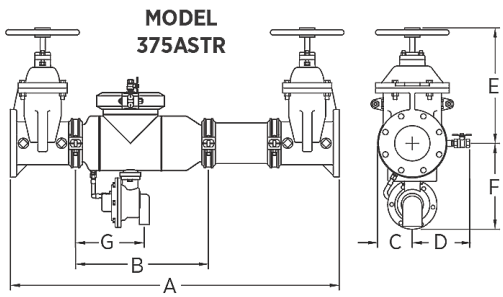
	With flanged end NRS gate valves (standard)
OSY	With flanged end OS&Y gate valves
OSYG	With grooved end OS&Y gate valves
BG	With grooved end butterfly valves with integral supervisory switches
BF	With flanged end butterfly valves with integral supervisory switches
G	With grooved end NRS gate valves

Accessories

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

Dimensions & Weights (do not include pkg.)

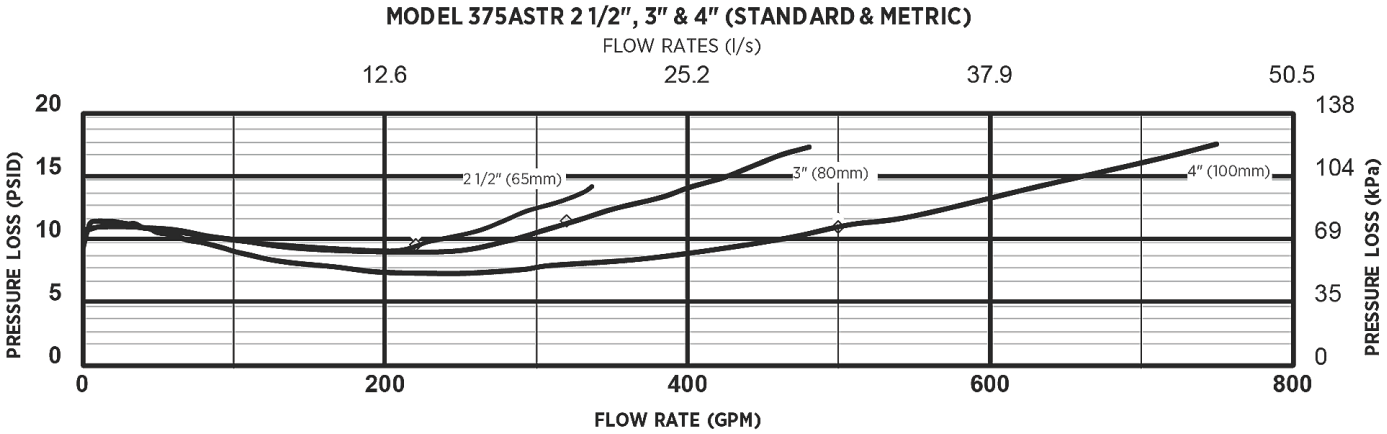
MODEL 375ASTR SIZE		WEIGHT W/MAX. SPOOL LENGTH											
		WITH NRS GATES (GXF)		WITH NRS GATES (GXG)		WITH OS&Y GATES (GXF)		WITH OS&Y GATES (GXG)		WITH BUTTERFLY VALVES (GXF)		WITH BUTTERFLY VALVES (GXG)	
in.	mm	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
2 1/2	65	108	49	98	44	126	57	116	53	106	48	95	43
3	80	127	58	115	52	145	66	133	60	115	52	102	46
4	100	192	87	172	78	228	104	204	93	136	62	114	52
6	150	314	143	284	129	372	169	350	159	216	98	186	84
8	200	627	285	587	266	709	322	655	297	455	206	409	186
10	250	882	401	830	376	978	445	920	417	614	279	556	252

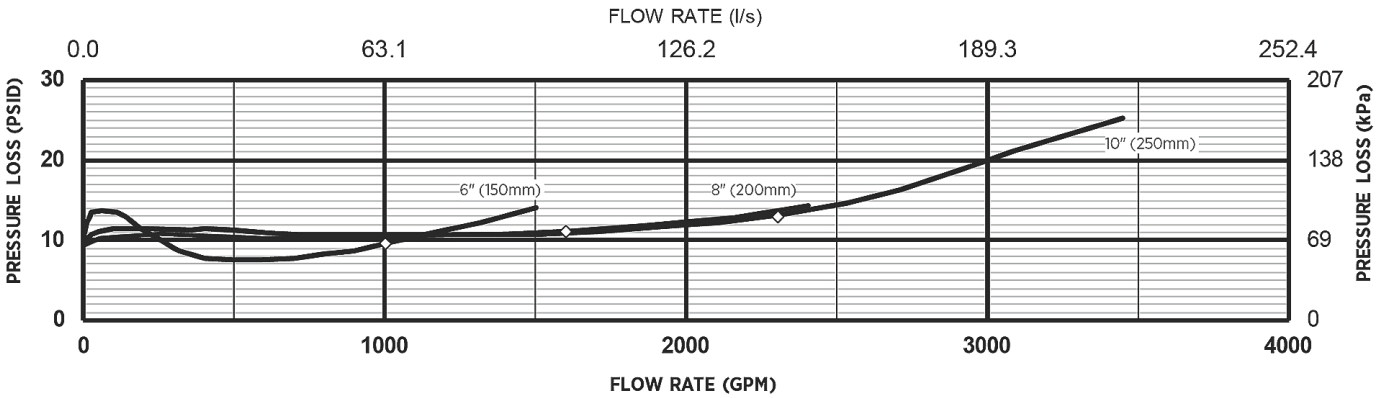


MODEL 375ASTR SIZE		DIMENSION (approximate)																									
		A				A WITH BUTTERFLY VALVES				B		C		D		E NRS GATE		E OS&Y OPEN		E OS&Y CLOSED		E BUTTERFLY VALVE		F		G	
		in.		mm		in.		mm																			
in.	mm	min	max	min	max	min	max	min	max	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
2 1/2	65	34	47 1/8	864	1197	31	44 1/8	787	1121	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
3	80	35	48 1/8	889	1222	31 1/2	44 5/8	800	1133	16 5/8	422	4 1/2	114	7 1/4	184	12 3/4	324	20 1/4	514	17	432	8 1/2	216	9 3/4	248	8 5/8	219
4	100	37 3/8	62 1/4	949	1581	32 5/8	57 1/2	829	1461	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
6	150	46	71 1/4	1168	1810	39	64 1/4	991	1632	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
8	200	55 3/4	86	1416	2184	48 3/4	79	1238	2007	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
10	250	58 5/8	100 5/8	1489	2556	52 5/8	94 5/8	1337	2403	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

Flow Characteristics

◇ 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 drain with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.

Order Configuration

- Exact in field measurements are required when ordering the assembly. Please have the assembly length ready when ordering.
- All assemblies are custom made to order and all sales are final.
- Lead time is approximately one week.

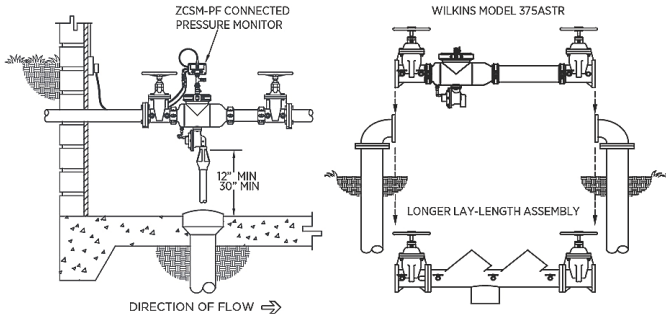
Generic part number used for ordering:

X-375ASTR*-A

where X=NOMINAL VALVE SIZE (212 REPRESENTS 2-1/2")
*= ADDED OPTIONS (use suffixes designated in OPTIONS section on previous page)

Example

To order a 4" Model 375ASTR with OS&Y gate valves and an assembly length of 52 3/8", the part number would be: 4-375ASTROSY-A.
The length of 52 3/8" must be given to Customer Service.



INDOOR INSTALLATION
(375ASTR with ZCSM-PF Connected Pressure Monitor accessories)

VALVE SIZE	MINIMUM FACE TO FACE DIMENSIONS (OVERALL LAY LENGTH)		MAXIMUM LENGTHS
	STAINLESS STEEL BODY		
	GATE VALVES	BUTTERFLY VALVES	
2-1/2"	34"	31"	47-1/8"
3"	35"	31-1/2"	48-1/8"
4"	37-3/8"	32-5/8"	62-1/4"
6"	46"	39"	71-1/4"
8"	55-3/4"	48-3/4"	86"
10"	58-5/8"	52-5/8"	100-5/8"

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

Installation and Maintenance Instructions 8" - 10" Model 375ASTR

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 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 used for all backflow replacements shall be a WILKINS Model 375ASTR.