Model 350 (3/4"-2")

Backflow Preventer - Double Check Valve Assembly with Replaceable Pressure Vessel, Non-Potable

TAG

Application

Designed for installation on water lines to protect against both backsiphonage and backpressure of polluted water into the water supply. Assembly shall provide protection where a potential health hazard does not exist.

Standards Compliance

(Horizontal and Vertical)

- ASSE® Listed 1015
- cUPC® Listed
- CSA® Certified B64.5
- AWWA Compliant C510
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
- UL® Classified (less shut-off valves only)
- C-UL® Classified (less shut-off valves only)

Materials

Main Valve Body	Low Lead Cast Bronze ASTM B584 (3/4-1")
Ball Valves	Cast Bronze ASTM B584
Elastomers	Buna Nitrile (FDA approved)
	Silicone (FDA approved)
Fasteners	300 series Stainless Steel
Handles	300 Series Stainless Steel
Housing	Reinforced Nylon
Internals	Acetal Homopolymer (Delrin®) (NSF Listed)
Springs	300 series Stainless Steel
Struts	300 series Stainless Steel

Features

Sizes 3/4", 1", 1-1/4", 1-1/2", 2"

Maximum working water pressure	175 PSI
Maximum working water temperature	180°F
Hydrostatic test pressure	350 PSI
End connections (Threaded)	ANSI B1.20.1



3/4" 350



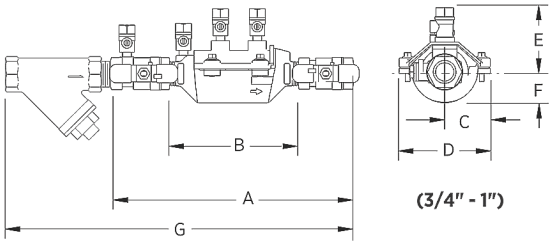
2" 350

Options (Suffixes can be combined)

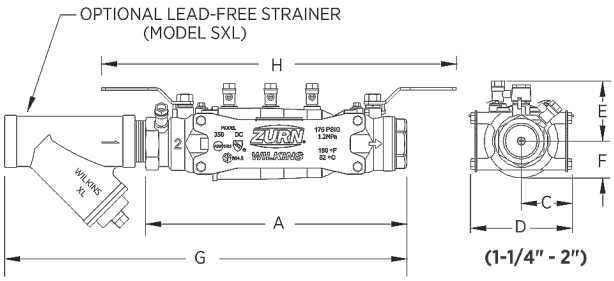
	With full port QT ball valves (standard)
L	Less ball valves, male pipe thread (3/4"-1" only)
FT	With integral male 45° flare SAE test fitting
S	With Model SXL lead free bronze wye strainer
BOF	With blow out/flush fitting

Accessories

- Repair Kits (3/4" and 1")
- Repair Kits (1-1/4" - 2")
- Thermal Expansion Tank XT
- 300XL Series Blow Out / Flush Tool 300XL Blow Out/Flush tools
- 1" 350 Blowout/Flush Fitting **RK1-350BOF**
- 3/4" 350 Blowout/Flush Fitting **RK34-350BOF**
- Quick Test Fitting Set QT-SET
- 1-1/4"-2" Blowout/Flush Fitting **RK114-350-375BOF**



(3/4" - 1")



(1-1/4" - 2")

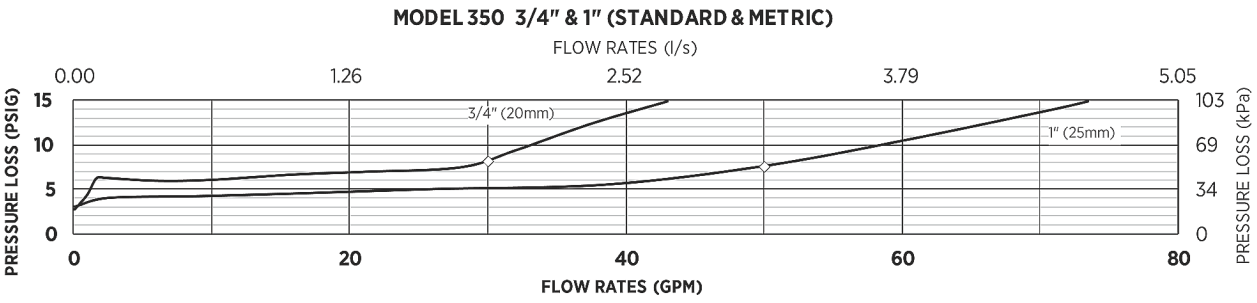
Dimensions & Weights (do not include pkg.)

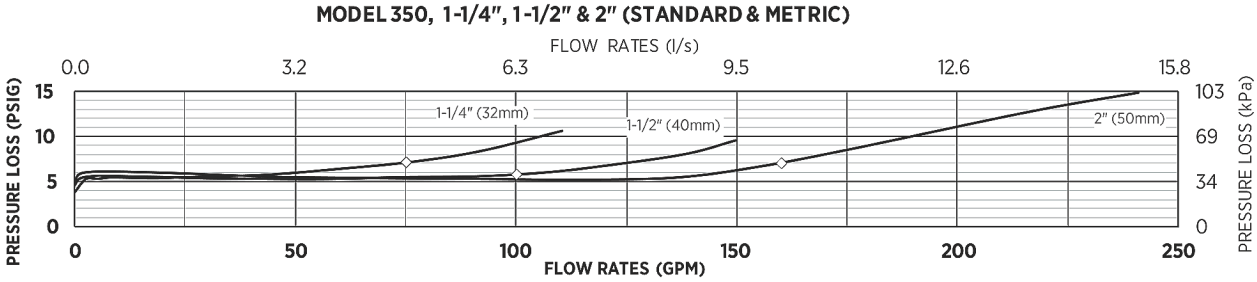
MODEL 350 SIZE		DIMENSIONS (approximate)																WEIGHT			
		A		B LESS BALL VALVES		C		D		E		F		G		H		LESS BALL VALVES		WITH BALL VALVES	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg	lbs.	kg
3/4	20	11	279	6 5/8	168	1 7/8	48	3 3/4	95	3	76	1 1/4	32	15 1/8	384	11 7/16	291	2.3	1.0	4.3	2.0
1	25	12 1/4	311	7	178	2 1/16	52	4 1/8	105	3 1/4	83	1 3/4	45	17	431	12 5/16	313	3.0	1.4	6.0	2.7
1-1/4	32	14 7/8	378	N/A	N/A	3 3/8	86	6 3/4	171	3 3/4	95	2 1/4	57	20 1/2	521	18 1/2	470	N/A	N/A	19	8.6
1-1/2	40	15 1/4	387	N/A	N/A	3 3/8	86	6 3/4	171	3 3/4	95	2 1/4	57	22	559	20 1/4	514	N/A	N/A	20	9.1
2	50	16	406	N/A	N/A	3 3/8	86	6 3/4	171	3 3/4	95	2 1/4	57	24	609	20 3/4	527	N/A	N/A	22	10

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

Flow Characteristics

◇ Rated Flow (established by approval agencies)

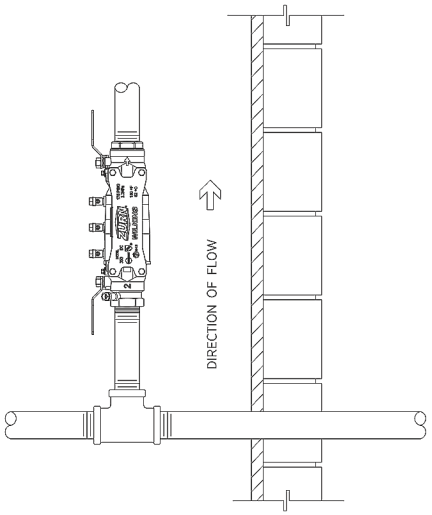




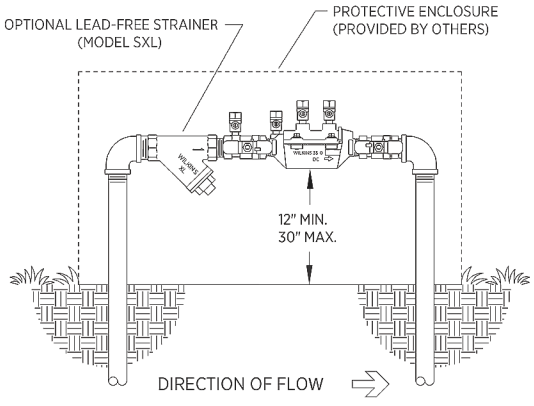
TYPICAL INSTALLATION

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. If installed below grade, be certain adequate drainage is provided to prevent the device from being submerged.

Capacity thru Schedule 40 Pipe				
Pipe size	**5 ft/sec**	**7.5 ft/sec**	**10 ft/sec**	**15 ft/sec**
1/2"	5	7	9	14
3/4"	8	12	17	25
1"	13	20	27	40
1 1/4"	23	35	47	70
1 1/2"	32	48	63	95
2"	52	78	105	167



INDOOR INSTALLATION



OUTDOOR INSTALLATION

Installation and Maintenance Instructions 3/4" - 1" Model 350

Installation and Maintenance Instructions 1-1/4" - 2" Model 350

Blow Out and Flush Housing Instructions

Specifications

The Double Check Valve Backflow Preventer shall be ASSE® Listed 1015, rated to 180°F and supplied with full port ball valves. The main body shall be Bronze for sizes 3/4" & 1", and Nylon for sizes 1-1/4" to 2". The housing shall be reinforced Nylon and the seat disc elastomers shall be silicone (FDA Approved). The first and second checks shall be accessible for maintenance without removing the device from the line. The Double Check Valve Backflow Preventer shall be a WILKINS Model 350.