

311A SERIES ELECTRICAL ANTI-SIPHONS

**3/4" AND 1"
(20MM AND 25MM)
PLASTIC MODELS**



311A-1

**FOR PETE'S SAKE,
LET'S ONLY DO
THIS ONCE.**

The irrigation industry's premier anti-siphon valves, the Irritrol 311 Series offers a comprehensive package of performance-enhancing features. Beginning with the reliability of a leak-proof double-beaded nylon-reinforced Buna-N diaphragm, the strength of glass-filled nylon, and the expanded range of a maximum working pressure rating of 150 psi, the 311 Series' list of features easily outdistances the competition. Unique to these top-of-the-line models is their compatibility with the OmniReg™ modular pressure regulator, making them the industry's only anti-siphon valves with a pressure regulation option. Additional features include an upgraded bonnet design, a self-cleaning metering system for dirty water applications and a captive plunger solenoid. Plus, the actuator module is removable as a single unit, with the diaphragm and internal components held in place, which means no more lost diaphragm screws and springs during installation. Irritrol. **Get more done.**

KEY FEATURES & BENEFITS

**UPPER BODY AND AIR-VENT CAP
CONSTRUCTED OF GLASS-FILLED NYLON**
Provides long-term performance

**RUGGED, DOUBLE-BEADED NYLON-
REINFORCED BUNA-N DIAPHRAGM**
Ensures a leak-proof seal

**INTERNAL AND EXTERNAL BLEED (FLUSH
MODE)**
Manual operation

**ACCEPTS OMNIREG™ MODULAR
PRESSURE REGULATOR**
Ensures consistent performance

**EXTERNALLY REMOVABLE SELF-
CLEANING METERING SYSTEM**
Ensures consistent performance in recycled-water
applications

ADDED FEATURES

- Flow control allows precise adjustment and manual shutoff
- Lower body constructed of heavy-duty, corrosion- and UV-resistant PVC
- Buna-N valve seat seal
- All stainless steel hardware and springs
- Unique three-way stainless steel bonnet screws with threaded brass inserts
- Encapsulated injection-molded solenoid with a captive hex plunger
- Removable, tamper-resistant flow control handle
- Meets listing requirements of IAPMO-UPC and City of Los Angeles
- Five-year warranty

OPERATING SPECIFICATIONS

- Flow range: 1-30 GPM (4-115 L/M)
- Pressure range: 10-150 psi (0,7-10 Bars)
- Operating temperature: up to 130° F (54° C)

ELECTRICAL SPECIFICATIONS

- Solenoid: 24 V ac
- Inrush volt-amp: 24 V ac-9.6 VA
- Inrush current: .4 amp
- Holding volt-amp: 24 V ac-4.8 VA
- Holding current: .2 amp

OPTIONAL ACCESSORIES

- IBOC300-9V battery operated "on valve" controller
- OmniReg™ 5-30 psi (0,34-2 Bars) regulator (OMR-30)
- OmniReg™ 5-100 psi (0,34-7 Bars) regulator (OMR-100)
- Recycled-water solenoid kit (RW60-KIT); purple solenoid with purple warning tag
- DC latching solenoid (E2003). *NOTE: Maximum pressure for a valve that utilizes E2003 latching solenoid is 120 psi (8 Bars).*
- Weatherproof gauge (SPK-30)
- Weatherproof gauge (SPK-100)

SPECIFYING INFORMATION

311A-X	
MODEL	SIZE
311A-.75	3/4" (20MM)
311A-1	1" (25MM)

NOTE: Anti-Siphon valve to be mounted above ground at least 6" (152mm) above highest sprinkler head (consult local codes).

DIMENSIONS

H	8½" (216mm)
W	3⅝" (92mm)
L	6" (152mm)

Model	Size	Flow Rate-GPM						
		1	5	10	15	20	25	30
311A-.75	¾"	5.5	6.0	8.0	9.0	11.0		
311A-1	1"	5.5	6.0	7.5	8.5	10.0	13.0	18.5

Pressure Loss-PSI

- 1) When designing a system, the industry standard for flow rate velocity through pipes and fittings is 5 FPS.
- 2) Pressure loss data are derived from valves independently tested by CIT, Fresno, CA.

Metric

Flow L/M	311A-.75	311A-1
	Bar	Bar
4	0,4	0,4
20	0,4	0,4
40	0,6	0,5
60	0,6	0,6
75	0,8	0,7
95		0,9
115		1,3



311A-.75 valves