2700 SERIES ELECTRICAL AND MANUAL ANTI-SIPHONS

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

2711APR
STAINLESS SCREW TOP

2713DPR
THREADED BONNET TOP

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

Irritrol anti-siphon 2700 Series valves offer optimum performance, reliability and ease-of-use for a wide variety of residential applications. Featuring anti-siphon capability, this family of plastic valves also features flow control for precise flow adjustment, manual shutoff, and a built-in atmospheric vacuum breaker to eliminate back siphonage. Available in electric and manual models, these 3⁄4-inch and one-inch valves also feature a flow range from .25 to 30 GPM and a pressure range from 10 to150 psi. Irritrol. Get more done.

KEY FEATURES & BENEFITS

RUGGED, DOUBLE-BEADED SANTOPRENE® DIAPHRAGM
Ensures a leak-proof seal

INTERNAL AND EXTERNAL BLEED (FLUSH MODE)
Manual operation

FULL STAINLESS-STEEL METERING SYSTEM (DPR MODELS)
Consistent valve operation

PATENTED FLOATING METERING SYSTEM (APR MODELS)
Consistent valve operation

HEAVY-DUTY, CORROSION- AND UV-RESISTANT PVC, GLASS-FILLED POLYPROPYLENE (DPR MODELS ONLY) AND STAINLESS STEEL CONSTRUCTION
Durable, long-term performance

HEAVY-DUTY, CORROSION- AND UV-RESISTANT PVC AND STAINLESS STEEL CONSTRUCTION
Durable, long-term performance (APR models)

SELF-ALIGNING BONNET WITH CAPTURED HEX/PHILLIPS SCREWS
Permits fast and easy servicing without removal from the system (APR models)

THREADED BONNET DESIGN
Allows easy servicing without removal from the system (DPR models)

PATENTED, TAMPER-RESISTANT FLOW-CONTROL MECHANISM
Allows for precise water flow (DPR models)

ADDED FEATURES

- Buna-N valve seat seal
- Flow control for precise adjustment and manual shutoff
- Gravity-type anti-siphon poppet
- Encapsulated injection-molded solenoid with a captive hex plunger
- Removable, ergonomic, tamper-resistant flow-control handle (APR models)
- Electric H-body with atmospheric vacuum breaker
- Meets listing standards of ASSE, IAPMO and CSA
- Five-year warranty

OPERATING SPECIFICATIONS

- Flow range: .25-30 GPM (1-115 L/M)
- Pressure range: 10-150 psi (0,7-10 Bars)

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
- 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).*
- Threaded bonnet wrench (2400-45: DPR models)

2711APR Valve

SPECIFYING INFORMATION

270X — PR

MODEL	SIZE	TYPE
2706PR	3/4"(20mm)	Anti-Siphon
2709PR	1"(25mm)	Anti-Siphon

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

271X — XPR

MODEL	SIZE	TYPE
2711APR	3/4"(20mm)	Stainless Screws
2713APR	1"(25mm)	Stainless Screws
2711DPR	3/4"(20mm)	Threaded
2713DPR	1"(25mm)	Threaded

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

DIMENSIONS

	2706PR	2709PR
H	4 7/8" (124mm)	5 1/16" (129mm)
W	2 5/8" (67mm)	3 1/8" (79mm)
L	5 3/4"(146mm)	6 1/4" (159mm)

DIMENSIONS

	2711 Models	2713 Models
H	5 5/8" (143mm)	6" (152mm)
W	3"(76mm)	3"(76mm)
L	6 1/4" (159mm)	6 7/8" (175mm)

Flow Rate-GPM

Model	Size	.25	2	5	10	15	20	30	Pressure Loss-PSI
2711APR/2711DPR	3/4"	5.0	5.8	4.14	4.11	4.72	7.60		
2713APR/2713DPR	1"	5.0	5.5	2.03	3.10	2.22	3.72	8.01	

1) When designing a system, the industry standard for flow rate velocity through pipes and fittings is 5 FPS.

Flow Rate-GPM

Model	Size	5	10	15	20	25	Pressure Loss-PSI
2706PR	3/4"	1	3	5			
2709PR	1"	1	1	2	4	6	

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.
3) See friction loss charts on pages 80 through 85 for details.
4) In general, we recommend sizing regulating valves toward upper flow ranges for best regulating performance.

METRIC

Flow L/M	2711 APR/DPR		2713 APR/DPR	
	Bar	kPa	Bar	kPa
1	0,34	34,5	0,34	34,5
8	0,40	40,0	0,40	40,0
20	0,29	28,5	0,15	14,7
40	0,29	28,5	0,21	21,2
60	0,36	35,9	0,17	17,0
80	0,57	56,9	0,28	28,4
100			0,44	43,7
120			0,61	60,7

METRIC

Flow L/M	2706 PR		2709 PR	
	Bar	kPa	Bar	kPa
20	0,06	7,7	<,05	<5
40	0,22	22,2	0,07	7,4
60	0,37	36,8	0,15	15,3
80			0,31	31,0
100			0,45	45,2

