

MANUAL/ELECTRIC

2700 SERIES (ANTI-SIPHON)

VALVES



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2700 SERIES (ANTI-SIPHON)

VALVES

Irritrol Systems' 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 to 150 psi.

The 2700 Series — The next generation in valves.

Irritrol[®]
SYSTEMS

2700 SERIES ELECTRIC

VALVES

3/4" and 1"
plastic models

2700 Series (Electric)

Electric APR and DPR Models
(2711APR, 2713APR, 2711DPR
and 2713DPR)

Features

Performance

- Flow range from .25-30 GPM
- Pressure range from 10-150 psi
- Manual internal bleed
- Manual external bleed (flush mode)
- Flow control allows precise flow adjustment and manual shutoff

Quality Construction

- Heavy-duty, corrosion- and UV-resistant PVC, glass-filled polypropylene and stainless steel construction

- Rugged, double-beaded SANTOPRENE® diaphragm provides leak-proof seal
- Buna-N valve seat seal
- Encapsulated injection-molded solenoid
- Captive plunger
- Full stainless steel metering system
- Easily serviced without removal from system
- Gravity-type anti-siphon poppet
- Electric H-body with atmospheric vacuum breaker
- Meets listing standards of ASSE, IAPMO and City of Los Angeles

APR Models (2711APR and 2713APR)

- Removable, ergonomic tamper-resistant flow control handle
- Self-aligning bonnet permits fast and easy servicing
- Captured hex/Phillips screws
- High-strength ribbed bonnet



2711APR

U.S.

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.

2) Pressure loss data for DPR models are derived from valves independently tested by CIT, Fresno, CA.

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

DPR Models (2711DPR and 2713DPR)

- Patented, tamper-resistant flow control mechanism
- Threaded bonnet permits fast and easy servicing

Electrical Specifications

- Solenoid: 24 V ac
- Inrush volt-amp: 24 V ac 11.50 VA
- Inrush current: .4 amp
- Holding volt-amp: 24 V ac 5.75 VA
- Holding current: .2 amp

Optional Accessories

- Threaded bonnet wrench (2400-45: DPR models)
- DC latching solenoid (E2002-A)

Note: Maximum pressure for a valve that utilizes E2002-A latching solenoid is 120 psi.

- Reclaimed water solenoid kit (RW60-Kit); purple solenoid with purple warning tag



Specifying Information

Model	Size	Bonnet 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 is to be mounted above ground at least 6" (152mm) above highest sprinkler head (consult local codes).

2700 SERIES MANUAL

V A L V E S

3/4" and 1"
plastic models

2700 Series (Manual)

Manual PR Models (2706PR and 2709PR)

Features

Performance

- Flow range from .25-30 GPM
- Pressure range from 10-150 psi
- Flow control allows precise flow adjustment and manual shutoff

Quality Construction

- Heavy-duty, corrosion- and UV-resistant PVC construction
- Convenient manual control handle
- Hand-tight pipe thread connection provides positive seal
- Manual H-body with atmospheric vacuum breakers can be converted to electric operation with 756 DPR adapter
- Non-rotating Buna-N shutoff seal for long-term performance
- Contamination guard protects valve stem threads

- Easily serviced without removal from system
- Meets listing standards of ASSE, IAPMO and City of Los Angeles



Flow Rate-GPM

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

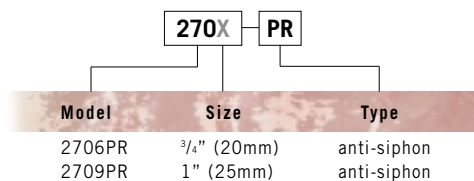
Pressure Loss-PSI

- 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.
- 3) In general, we recommend sizing regulating valves toward upper flow ranges for best regulating performance.

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

Specifying Information



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

Irritrol
SYSTEMS

BEYOND THE EXPECTED

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