

# 500 Series Straight Flow Valves

## with Pressure Regulation

### FEATURES

- Patented full open straight through flow design
- Extremely low pressure loss
- Low flow capability from 1 GPH
- Contamination resistant w/ internal control water filtration
- Internal manual bleed operation
- Manual bleed can be removed for "tamper proof" operation
- Heavy duty reinforced EPDM diaphragm
- 33% glass filled nylon construction
- Heavy duty brass threaded retainer nuts in body (6 bolt pattern)
- Heavy duty stainless steel bolts for bonnet assembly (6 bolt pattern)
- Heavy duty stainless steel flow control stem
- Hex plunger for sandy water conditions
- 1" available with flow or non flow control, threaded or socket (glass filled PVC body)
- Ideal for commercial applications

### SPECIFIC PRESSURE REGULATION FEATURES

- Utilizes Schrader valve for downstream pressure resisting
- Pressure regulator has "set and lock" feature for tamper resistant adjustment
- Pressure Regulating valve is actually a pressure modulating valve that provides a constant downstream even with changes in upstream pressure

### PRESSURE LOSS WITH 1" VALVE

Flow (GPM)	Pressure Loss (PSI)
15	1.2
20	2.1
25	4
30	5
35	6.2
40	8
45	10

### PRESSURE LOSS WITH 1 - 1/2" VALVE

Flow (GPM)	Pressure Loss (PSI)
40	2
45	2.2
60	2.6
80	3
100	4
150	8

### ELECTRICAL SPECIFICATIONS

- 24 VAC standard
- Inrush: 350 mA
- Holding: 250 mA
- Cycles: 50 Hz to 60 Hz

### OPERATING SPECIFICATIONS

- 1" Flow: 1 GPH - 50 GPM
- 1 1/2" Flow: 1 - 110 GPM
- 2" Flow: 2 - 250 GPM
- 3" Flow: 5 GPM - 250 GPM
- Operating pressure: 15 to 200 PSI
- Recommended velocity not to exceed 5 feet per second of corresponding pipe size
- Downstm pressure adjustable from 15-150 PSI
- All valves for outdoor use only

### PRESSURE LOSS WITH 2" VALVE

Flow (GPM)	Pressure Loss (PSI)
40	1.5
45	1.8
60	3
80	3
100	4
150	5
200	7

### PRESSURE LOSS WITH 3" VALVE

Flow (GPM)	Pressure Loss (PSI)
45	1.8
60	3
80	3
100	4
150	5
200	7
250	10



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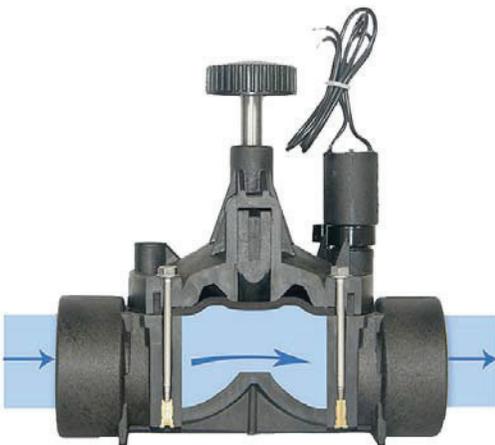
## with Pressure Regulation



**520-050-P**  
 2" Nylon Female Thread inlet and outlet  
 Flow Control  
 Pressure Regulation  
 Overall Height: 8"  
 Overall Width: 5 - 3/4"  
 Overall Length 8 - 1/4"



**515-050-P**  
 2" Nylon Female Thread inlet and outlet  
 Flow Control  
 Pressure Regulation  
 Overall Height: 8"  
 Overall Width: 5 - 3/4"  
 Overall Length 8 - 1/4"



A straight flow valve has a patented open flow design. There are no 90 degree angles that the flow of water has to maneuver around. This allows for flow rates as far low as 1 GPH. The diaphragm inside does not cause hammering when closing like a typical valve.

### ORDER SPECIFICATION GUIDE : Model + P/R

#### Model

- 510-000-P = 1" Nylon Female Threaded Inlet / Outlet without Flow Control
- 510-050-P = 1" Nylon Female Threaded Inlet / Outlet with Flow Control
- 515-050-P = 1 - 1/2" Nylon Female Threaded Inlet / Outlet with Flow Control
- 520-050-P = 2" Nylon Female Threaded Inlet / Outlet with Flow Control
- 530-050-P = 3" Nylon Female Threaded Inlet / Outlet with Flow Control
- 510-000-P-R = 1" Purple Cap Nylon Female Threaded Inlet / Outlet without Flow Control
- 510-050-P-R = 1" Purple Cap Nylon Female Threaded Inlet / Outlet with Flow Control
- 515-050-P-R = 1 - 1/2" Purple Cap Nylon Female Threaded Inlet / Outlet with Flow Control
- 520-050-P-R = 2" Purple Cap Nylon Female Threaded Inlet / Outlet with Flow Control
- 530-050-P-R = 3" Nylon Female Threaded Inlet / Outlet with Flow Control

