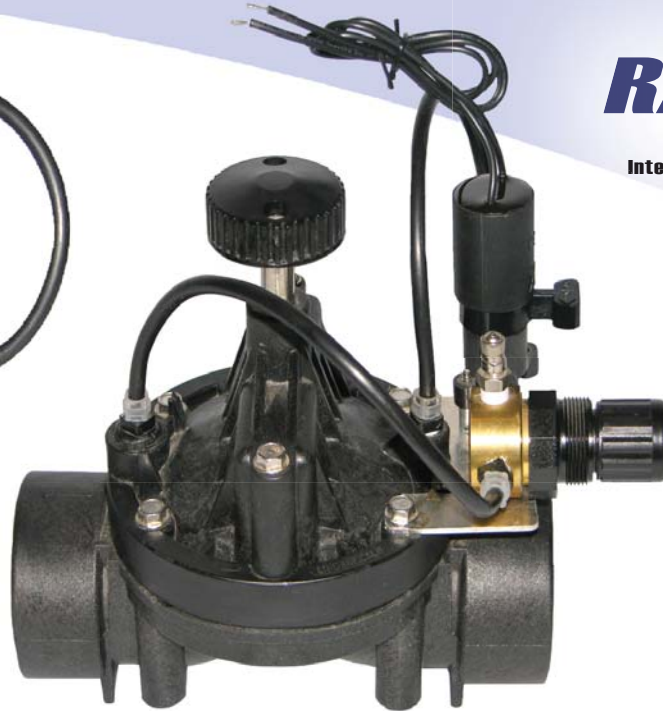
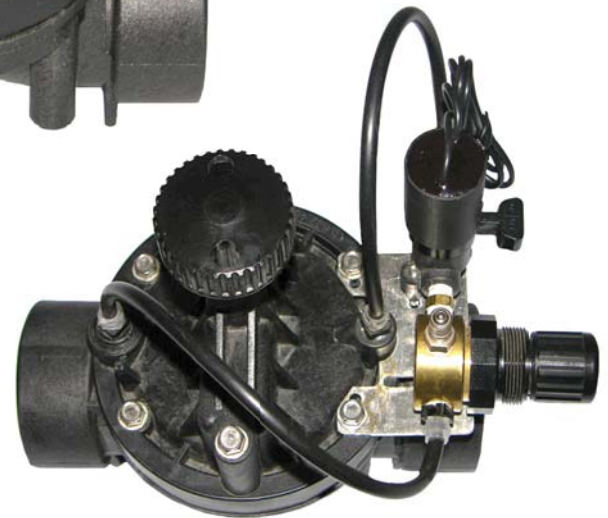




520-050-P



515-050-P



510-050-P

## 500 SERIES STRAIGHT FLOW VALVES WITH PRESSURE REGULATION

- Available in 1", 1½" and 2" NPT or BSP threads
- 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 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
- 15-200 PSI operating range
- Ideal commercial applications
- Downstream pressure adjustable from 15-150 psi
- Utilizes Schrader valve for downstream pressure resisting. Pressure gauge option assemble
- 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 pressure even with changes in upstream pressure

### HIT PRODUCTS CORPORATION

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February 2013

## SPECIFICATIONS

# 500 SERIES STRAIGHT FLOW VALVES WITH PRESSURE REGULATION

### Operating Specifications:

- 1" Flow: 10 - 50 GPM
- 1 1/2" Flow: 10 - 110 GPM
- 2" Flow: 20 - 250 GPM
- Operating pressure: 15 to 200 PSI
- Recommended velocity not to exceed 5 fps of corresponding pipe size
- All valves for outdoor use and installation only
- Pressure Regulating/Modulating Valves require a minimum of 15 psi differential between the inlet pressure and the regulated downstream pressure to operate properly.

### Electrical:

- 24 VAC standard
- Inrush: 350 mA
- Holding: 250 mA
- Cycles: (white wires) 50 Hz or (black wires) 60 Hz

### Features:

- Internal manual bleed
- Stainless steel components
- Reinforced diaphragm
- Glass filled nylon construction
- Stainless steel flow control stem



### Dimensions

Model #	Size	Description	Overall Length		Overall Width		Overall Height	
			inch	mm	inch	mm	inch	mm
510-000-P	1"	Female Thread Inlet and Outlet without Flow Control	5	127	6 1/2	165	5 3/4	146
510-050-P	1"	Female Thread Inlet and Outlet with Flow Control	5	127	6 1/2	165	6	152
515-050-P	1 1/2"	Female Thread Inlet and Outlet with Flow Control	8 3/4	223	4 1/2	115	6	152
520-050-P	2"	Female Thread Inlet and Outlet with Flow Control	10 1/4	260	5 3/4	146	8	204

### Pressure Loss

Flow	GPM	15	20	25	30	35	40	45	60	80	100	150	200
Valve Size	1"	1.2	2.1	4	5	6.2	8	10					
	1 1/2"						2	2.2	2.6	3	4	8	
	2"						1.5	1.8	3	3	4	5	7

### Pressure Loss (Metric) Bars / kPa

Flow	l/min m <sup>3</sup> /hr	56.8 3.4	75.7 4.5	94.6 5.7	113.6 6.8	132.5 7.9	151.4 9.1	170.3 10.2	227.1 13.6	302.8 18.2	378.5 22.7	567.8 34.1	757.1 45.4
Valve Size	1"	0.1 8.3	0.1 14.5	0.3 27.6	0.3 34.5	0.4 42.7	0.6 55.2	0.7 69.0					
	1 1/2"						0.1 13.8	1.5 151.7	0.2 17.9	0.2 20.7	0.3 27.6	0.6 55.2	
	2"						0.1 10.3	0.1 12.4	0.2 20.7	0.2 20.7	0.3 27.6	0.3 34.5	0.5 48.3

Specifications may change due to engineering changes.

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