

# RAINPRO®

Intelligent Irrigation Solutions™

## 2022 Product Catalog



rainproco.com



# OUR SOLUTIONS

*To Your Problems*

HIT Products has come along way in the past years, with many innovations to improve the irrigation industry. The new product lines offered under the new logo “Rain Pro” and the new “Intelligent Irrigation Solutions” slogan have begun a new era of innovation taking us into the new century. We will continue, through “**Intelligent Irrigation Solutions**”, bringing new and exciting products to the industry that offers cost savings, either with the products themselves or to save time and money through technologically advanced efficiencies during installation and / or future maintenance of irrigation systems.



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# **SPRINKLERS**



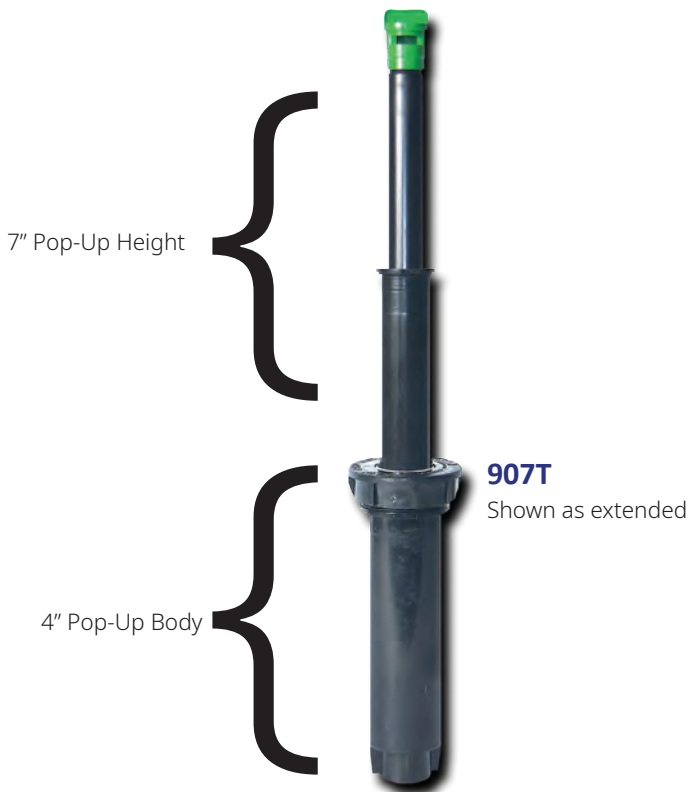
# 900T Series Telescopic Pop-Up

## FEATURES

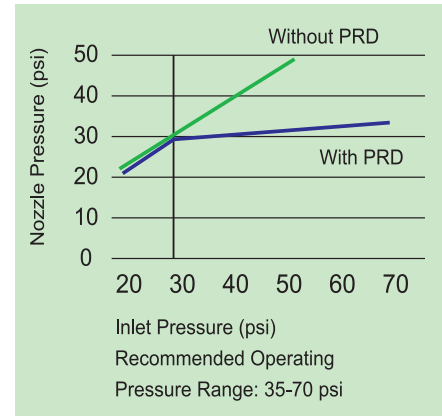
- Double acting telescoping piston
- Two independent heavy duty stainless steel retraction springs
- Integrally molded "Leak-Stopper" gaskets prevent any body-cap leaks
- Designed for shallow trench and labor savings
- Patented Lateral discharging flush plug to aid installation
- High impact virgin ABS plastic construction of body, pistons and cap
- Spring-loaded ratchet on all models for directional adjustment of spray pattern
- Side inlet on 913T
- 7" pop-up has a overall retracted body height as 4" pop-up body 900 Series
- 13" pop-up has a overall retracted body height as 6" pop-up body 900 Series
- 7" pop-up can be field retrofit into HIT 900 Series
- 4" body or Rainbird™ 1804 body
- 13" pop-up can be field retrofit into HIT 900 Series
- 6" body or Rainbird™ 1806 body

## OPERATING SPECIFICATIONS

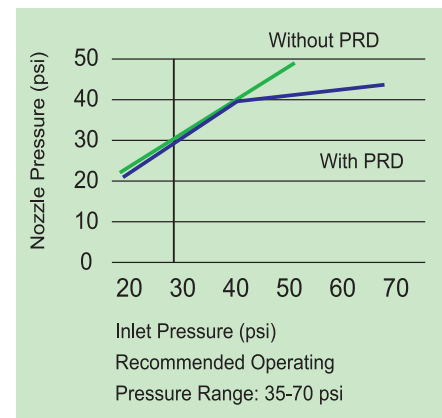
- Operating pressure range: 20-70 PSI, 25-70 PSI with CKV
- Recommended working pressure: 30 PSI
- Recommended working pressure with PRD: 30-70 PSI



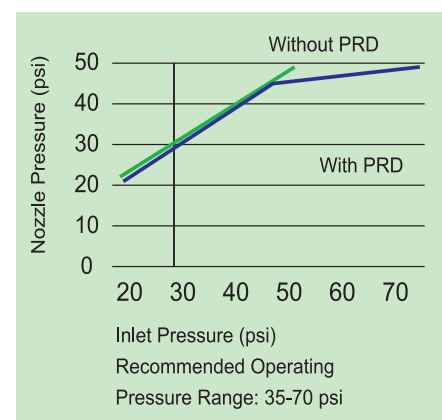
## PRD-30 Performance Graph Standard



## PRD-40 Performance Graph Standard



## PRD-45 Performance Graph Standard



# 900T Series Telescopic Pop-Up

## DIMENSIONS

½" female pipe thread on bottom inlet  
 Male threaded piston to accept fixed or adjustable arc nozzles with female threads



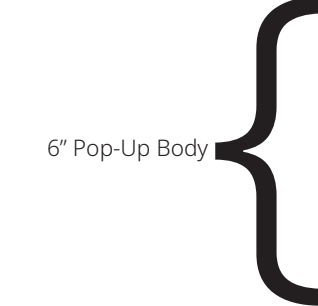
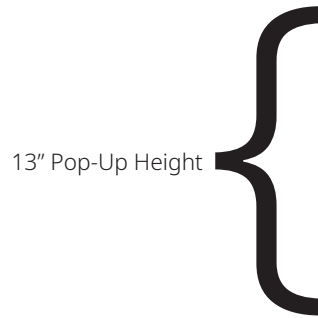
### 907T

Body Height: 4" Pop-Up Body  
 Pop-Up Height: 7"  
 Exposed Surface Diameter: 2 1/8"



### 913T

Body Height: 6" Pop-Up Body  
 Pop-Up Height: 13"  
 Exposed Surface Diameter: 2 1/8"  
 Side Inlet



### 913T

Shown as extended

## OPTIONS AVAILABLE

- Check Valve (CKV): holds up to 14 feet of head
- In stem pressure regulating device (PRD)
  - PRD-30 (30 PSI Outlet)
  - PRD-40 (40 PSI Outlet)
  - PRD-45 (45 PSI Outlet)
- Reclaimed purple cap

## ORDER SPECIFICATION GUIDE : Model + Option1 + Option2 + Option3

Model	Option 1	Option 2	Option 3
907T = 7" Pop-Up	Blank = No Option	Blank = No Option	Blank = Black Cap
913T = 13" Pop-Up	CKV = Check Valve	PRD 30 = 30 PSI	R = Reclaimed Purple Cap
913TS = 13" Pop-Up with Side Inlet		PRD 40 = 40 PSI	
		PRD 45 = 45 PSI	

## Examples

- 907T = 7" Pop-up only
- 907T - CKV - PRD45 = 7" Pop-Up with a Check Valve and 45 PSI Pressure Regulator
- 913T - PRD30 - R = 13" Pop-Up with a 30 PSI Pressure Regulator and Purple Cap



# 900 Series Pop-Up

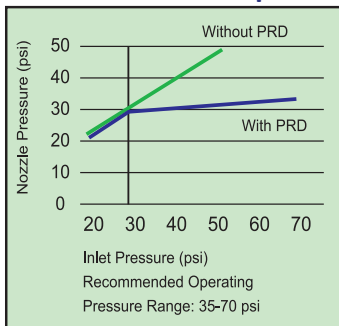
## FEATURES

- Unique integrally molded "Leak-Stopper" gasket prevents any body-cap leaks
- Cap and seal utilize a "co-molded" design which provides internal support for the long term integrity of the wiper seal
- High impact virgin ABS plastic construction of body, piston and cap
- Patented Lateral discharging flush plug to aid installation
- Heavy duty stainless steel retraction spring
- Spring-loaded ratchet on all models for directional adjustment of spray pattern
- Available with female (red flush plug) or male (green flush plug) threaded pistons

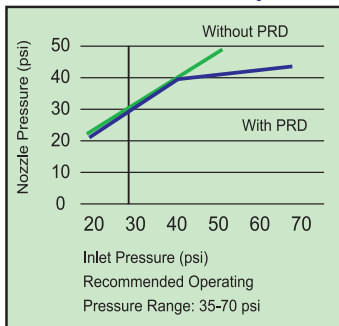
## OPERATING SPECIFICATIONS

- Operating pressure: 15-70 PSI, 25-70 PSI with CKV
- Recommended working pressure: 30 PSI
- Recommended working pressure with PRD: 30-70 PSI

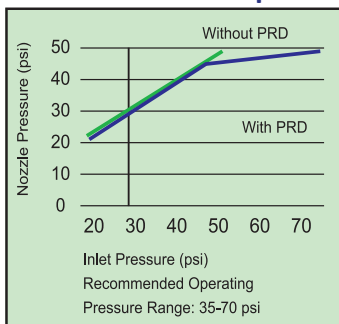
### PRD-30 Performance Graph Standard



### PRD-40 Performance Graph Standard



### PRD-45 Performance Graph Standard



## DIMENSIONS

1/2" female pipe thread on bottom inlet



**902**

Body Height: 4 1/4"  
Pop-Up Height: 2"  
Exposed Surface Diameter: 2 1/8"



**903**

Body Height: 5"  
Pop-Up Height: 3"  
Exposed Surface Diameter: 2 1/8"



**904**

Body Height: 6"  
Pop-Up Height: 4"  
Exposed Surface Diameter: 2 1/8"



**905**

Body Height: 8 1/2"  
Pop-Up Height: 5"  
Exposed Surface Diameter: 2 1/8"





# 900 Series Pop-Up



## 906

Body Height: 9 1/2"  
Pop-Up Height: 6"  
Exposed Surface Diameter: 2 1/8"



## 912

Body Height: 15 1/2"  
Pop-Up Height: 12"  
Exposed Surface Diameter: 2 1/8"  
• Side Inlet



## 906S

Body Height: 9 1/2"  
Pop-Up Height: 6"  
Exposed Surface Diameter: 2 1/8"  
• Side Inlet

### Co-molded Wiper Seal



With "Leak-Stopper" gasket eliminating body/cap leak

### OPTIONS AVAILABLE

Check Valve (-CKV): holds up to 14 feet of head

\*(904, 905, 906, and 912 only)

In stem pressure regulating device (-PRD)

- PRD-30 (30 PSI Outlet)

- PRD-40 (40 PSI Outlet)

- PRD-45 (45 PSI Outlet)

\*(904, 905, 906, and 912 only)

Reclaimed purple cap (-R)

### ORDER SPECIFICATION GUIDE : Model(Option1) + Option2 + Option3 + Option4

Model	Option 1	Option 2	Option 3	Option 4
902 = 2" Pop-Up	Blank = Male Nozzle Thread on Piston F = Female Nozzle Thread on Piston	Blank = No Option -CKV = Check Valve	Blank = No Option -PRD 30/40/45 = Pressure Regulating Device	Blank = Black Cap -R = Reclaimed Purple Cap
903 = 3" Pop-Up				
904 = 4" Pop-Up				
905 = 5" Pop-Up				
906 = 6" Pop-Up				
906S = 6" Pop-Up with Side Inlet				
912 = 12" Pop-Up				

### Examples

906 = 6" Pop-up only

906 - CKV - PRD45 = 6" Pop-Up with a Check Valve and 45 PSI Pressure Regulator

912 - PRD30 - R = 12" Pop-Up with a 30 PSI Pressure Regulator and Purple Cap



# 700 Series Pop-Up

## FEATURES

- Heavy duty internally supported wiper seal
- Patented lateral discharging flush plug
- High impact virgin ABS plastic construction of body, piston, and cap
- Stainless steel retraction spring
- Spring-loaded ratchet on all models for directional adjustment of spray pattern
- Easy service from top of head
- Available with female (red flush plug) or male (green flush plug) threaded pistons

## OPERATING SPECIFICATIONS

- Operating pressure: 15-70 PSI
- Recommended working pressure: 30 PSI

## DIMENSIONS

- ½" female pipe thread on bottom inlet
- Male threaded piston to accept fixed or adjustable arc nozzles with female threads
- Female threaded piston to accept fixed or adjustable arc nozzles with male threads



**702**  
Body Height: 4"  
Pop-Up Height: 2"  
Exposed Surface Diameter: 2"



**703**  
Body Height: 5"  
Pop-Up Height: 3"  
Exposed Surface Diameter: 2"



**704**  
Body Height: 6"  
Pop-Up Height: 4"  
Exposed Surface Diameter: 2"



**706**  
Body Height: 8"  
Pop-Up Height: 6"  
Exposed Surface Diameter: 2"



**712**  
Body Height: 15 ½"  
Pop-Up Height: 12"  
Exposed Surface Diameter: 2 1/8"  
• Side Inlet

## OPTIONS AVAILABLE

- Check Valve (CKV)
- Reclaimed purple cap

## ORDER SPECIFICATION GUIDE : Model(Option1) + Option2 + Option3

### Model

702 = 2" Pop-Up  
703 = 3" Pop-Up  
704 = 4" Pop-Up  
705 = 5" Pop-Up  
706 = 6" Pop-Up  
712 = 12" Pop-Up

### Option 1

Blank = Male  
F = Female

### Option 2

Blank = No Option  
-CKV = Check Valve

### Option 3

Blank = Black Cap  
-R = Reclaimed Purple Cap

## Examples

702F = 2" Female Pop-up only  
704 - CKV = 4" Male Pop-Up with a Check Valve  
712F - R = 12" Female Pop-Up with a Purple Cap



# HP Series Pop-Up

## FEATURES

- Efficient design for maximum value
- Internally supported wiper seal design
- Patented lateral discharging flush plug
- Stainless steel retraction spring
- High impact virgin ABS plastic construction for body, piston and cap
- Spring-loaded ratchet on all models for directional adjustment of spray pattern
- Pressure activated chevron seal design minimizes flushing “blow by” and seals at low pressures
- Male threaded piston, to accept fixed or adjustable arc nozzles with female threads



### HP02

Body Height: 4"  
Pop-Up Height: 2"  
Exposed Surface Diameter: 1 ½"

## OPERATING SPECIFICATIONS

- Operating pressure: 15-70 PSI
- Recommended working pressure: 30 PSI

## DIMENSIONS

- Inlet 1/2" female pipe thread (F.P.T.)

## OPTIONS AVAILABLE

- Can be ordered with Adjustable Arc (AA) nozzles installed (consult price list)



### HP04

Body Height: 6"  
Pop-Up Height: 4"  
Exposed Surface Diameter: 2 ½"

## ORDER SPECIFICATION GUIDE : Model + Option1

Model	Option 1
HP02 = 2" Pop-Up	Blank = No Option
HP04 = 4" Pop-Up	8A = 8' Adjustable Arc Nozzle
	10A = 10' Adjustable Arc Nozzle
	12A = 12' Adjustable Arc Nozzle
	15A = 15' Adjustable Arc Nozzle

## Examples

- HP02 = 2" Pop-up only
- HP02 - 12A = 2" Pop-Up with a 12' Adjustable Arc Nozzle
- HP04 - 8A = 4" Pop-Up with a 8' Adjustable Arc Nozzle



# Shrub Adapters

## SHRUB ADAPTERS WITH PRD

Provides the ability to utilize an in-stem pressure regulating device (PRD) for above ground shrub adapter applications.

### FEATURES

- Ultra Violet resistant material for above grade installations
- Adapts from a 1/2" female pipe thread inlet to industry standard male nozzle thread outlet to accept all industry standard female threaded nozzles (500-200-PRD)
- Adapts from a 1/2" female pipe thread inlet to industry standard female nozzle thread outlet to accept all industry standard male threaded nozzles (500-201-PRD)
- Incorporates an in-stem pressure regulating device that maintains constant 30 psi resulting in optimal nozzle performance, and water conservation
- Should nozzle be damaged or removed; up to 70% of water loss will be prevented by PRD

### OPERATING SPECIFICATIONS

- 15 to 70 PSI (1.0 to 4.8 bars)
- 0.2 to 4.0 GPM (0.05 to 0.91 m<sup>3</sup>/h; 0.01 to 0.25 I/S)
- 30 PSI Pressure Regulating Device

### ORDER SPECIFICATION GUIDE : Model + PRD(Optional)

Model	Option
500-200 = Male	PRD30 = 30 PSI
500-201 = Female	PRD40 = 40 PSI
	PRD45 = 45 PSI

### Examples

500-200 - PRD30 = 5 1/4" Male Shrub Adapter with 30 PSI Pressure Regulating Device  
 500-201 - PRD45 = 5 1/4" Female Shrub Adapter with 45 PSI Pressure Regulating Device

## SHRUB ADAPTER

### FEATURES

- 500-100 has a 1/2" female inlet thread with a male fine threaded outlet for use with female threaded nozzles
- 500-101 has a 1/2" female inlet thread with a female fine threaded outlet for use with male threaded nozzles
- Compatible with screens supplied with nozzles

### ORDER SPECIFICATION GUIDE : Model

Model
500-100 = Female/Male
500-101 = Female/Female
500-100-R = Female/Male Purple Cap



**500-200-PRD  
(Male)**



**500-201-PRD  
(Female)**

### DIMENSIONS

- Overall Height 5 1/4"
- Inlet 1/2" F.P.T.



**500-100  
(Female/Male)**



**500-101  
(Female/Female)**



**500-100-R  
(Female/Male)**

### OPTIONS AVAILABLE

- Available in reclaimed purple color to identify non-potable water in use



# Bubblers

## Proline Pressure Compensating Flood Bubbler

### FEATURES

Pressure compensating performance for controlled and consistent flow

Inlet 1/2" female pipe thread

Constructed of high impact plastic ABS material



**502-017**

	Pressure (PSI)	Radius (ft)	Flow (GPM)
502-014	20	0.10	0.20
	25	0.10	0.23
	30	0.10	0.25
	35	0.10	0.25
502-015	20	0.10	0.45
	25	0.10	0.47
	30	0.10	0.50
	35	0.10	0.50
502-016	20	0.60	0.70
	25	0.80	0.73
	30	1.00	0.75
	35	1.00	0.75
502-017	20	0.80	0.80
	25	0.90	0.90
	30	1.00	1.00
	35	1.00	1.00
502-018	20	0.80	1.80
	25	0.90	1.90
	30	1.00	2.00
	35	1.00	2.00

## ORDER SPECIFICATION GUIDE : Model

### Model

- 502-010 = 1-2" FIPT 0-5 GPM Proline Adjustable Flood Bubbler
- 502-014 = 1-2" FIPT .25 GPM Pressure Compensating Bubbler with strainer
- 502-015 = 1-2" FIPT .50 GPM Pressure Compensating Bubbler with strainer
- 502-016 = 1-2" FIPT .75 GPM Pressure Compensating Bubbler with strainer
- 502-017 = 1-2" FIPT 1.0 GPM Pressure Compensating Bubbler with strainer
- 502-018 = 1-2" FIPT 2.0 GPM Pressure Compensating Bubbler with strainer
- 502-020 = 1-2" FIPT .25 GPM end strip 2 streams with strainer
- 502-021 = 1-2" FIPT .50 GPM center strip 4 streams with strainer
- 502-022 = 1-2" FIPT .50 GPM half circle 4 streams with strainer
- 502-023 = 1-2" FIPT 1.0 GPM full circle 6 streams with strainer

### Examples

502-014 = 1-2" FIPT .25 GPM Pressure Compensating Bubbler with strainer

## Proline Adjustable Flood Bubbler

### FEATURES

Inlet 1/2" female pipe thread

Constructed of high impact plastic ABS material

Stainless Steel Screw

Adjustable from 0 - 3.25 GPM & 35 PSI



**502-010**

	Pressure (PSI)	Radius (ft)	Flow (GPM)
502-010	20	0-1.0	0-2.45
	25	0-1.5	0-2.75
	30	0-1.75	0-3.00
	35	0-2.0	0-3.25

## Proline Pressure Compensating Spider Bubbler

### FEATURES

- Pressure compensating performance for controlled and consistent flow
- Inlet 1/2" female pipe thread
- Constructed of high impact plastic ABS material



**502-023**

	Pressure (PSI)	Radius (ft)	Flow (GPM)
502-020	20	1.30	0.20
	25	1.50	0.23
	30	2.00	0.25
	35	2.00	0.25
502-021	20	1.30	0.40
	25	1.50	0.46
	30	2.00	0.50
	35	2.00	0.50
502-022	20	1.30	0.40
	25	1.50	0.46
	30	2.00	0.50
	35	2.00	0.50
502-028	20	1.30	0.80
	25	1.50	0.90
	30	2.00	1.00
	35	2.00	1.00



# Proline Adjustable Arc Nozzles

## FEATURES

- Matched precipitation rates
- Full uniform coverage
- Color coded for easy radius identification
- Stainless steel screw for flow and radius adjustment
- High impact virgin ABS plastic construction
- Available with female or male threads to fit all HIT, RainPro and other brand Pop-Up spray bodies
- Screen included with each nozzle
- No special tools required for arc adjustment
- Large Droplets

## OPERATING SPECIFICATIONS

- Operating pressure range: 10-40 PSI
- Recommended working pressure: 30 PSI







**AA17 (grey)**







**AA15 (black)**







**AA12 (green)**

	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip In/Hr	
				■	▲
Q 	20	16	0.88	1.33	1.53
	25	17	1.03	1.37	1.58
	30	17	1.10	1.47	1.69
	35	18	1.14	1.36	1.57
H 	20	16	1.77	1.33	1.53
	25	17	2.05	1.37	1.58
	30	17	2.20	1.47	1.69
	35	18	2.29	1.36	1.57
TQ 	20	16	2.65	1.33	1.53
	25	17	3.08	1.37	1.58
	30	17	3.30	1.47	1.69
	35	18	3.43	1.36	1.57
F 	20	16	3.53	1.33	1.53
	25	17	4.11	1.37	1.58
	30	17	4.40	1.47	1.69
	35	18	4.57	1.36	1.57

	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip In/Hr	
				■	▲
Q 	20	14	0.77	1.51	1.74
	25	15	0.88	1.50	1.73
	30	15	0.93	1.58	1.83
	35	16	1.03	1.55	1.79
H 	20	14	1.54	1.51	1.74
	25	15	1.75	1.50	1.73
	30	15	1.85	1.58	1.83
	35	16	2.07	1.55	1.79
TQ 	20	14	2.30	1.51	1.74
	25	15	2.63	1.50	1.73
	30	15	2.78	1.58	1.83
	35	16	3.10	1.55	1.79
F 	20	14	3.07	1.51	1.74
	25	15	3.50	1.50	1.73
	30	15	3.70	1.58	1.83
	35	16	4.13	1.55	1.79

	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip In/Hr	
				■	▲
Q 	20	11	0.54	1.71	1.97
	25	12	0.57	1.52	1.75
	30	12	0.73	1.94	2.24
	35	13	0.77	1.75	2.03
H 	20	11	1.08	1.71	1.97
	25	12	1.14	1.52	1.75
	30	12	1.45	1.94	2.24
	35	13	1.54	1.75	2.03
TQ 	20	11	1.61	1.71	1.97
	25	12	1.70	1.52	1.75
	30	12	2.18	1.94	2.24
	35	13	2.31	1.75	2.03
F 	20	11	2.15	1.71	1.97
	25	12	2.27	1.52	1.75
	30	12	2.90	1.94	2.24
	35	13	3.08	1.75	2.03



# Proline Adjustable Arc Nozzles







**AA10 (red)**







**AA8 (brown)**







**AA6 (orange)**

	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip In/Hr	
				■	▲
Q 	20	8	0.37	2.25	2.59
	25	9	0.43	2.02	2.34
	30	10	0.45	1.73	2.00
	35	11	0.50	1.60	1.85
H 	20	8	0.75	2.25	2.59
	25	9	0.85	2.02	2.34
	30	10	0.90	1.73	2.00
	35	11	1.00	1.60	1.85
TQ 	20	8	1.12	2.25	2.59
	25	9	1.28	2.02	2.34
	30	10	1.35	1.73	2.00
	35	11	1.51	1.60	1.85
F 	20	8	1.49	2.25	2.59
	25	9	1.70	2.02	2.34
	30	10	1.80	1.73	2.00
	35	11	2.01	1.60	1.85





	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip In/Hr	
				■	▲
Q 	20	6	0.33	3.55	4.10
	25	7	0.38	2.97	3.43
	30	8	0.40	2.41	2.78
	35	8	0.45	2.69	3.10
H 	20	6	0.66	3.55	4.10
	25	7	0.76	2.97	3.43
	30	8	0.80	2.41	2.78
	35	8	0.89	2.69	3.10
TQ 	20	6	1.00	3.55	4.10
	25	7	1.14	2.97	3.43
	30	8	1.20	2.41	2.78
	35	8	1.34	2.69	3.10
F 	20	6	1.33	3.55	4.10
	25	7	1.51	2.97	3.43
	30	8	1.60	2.41	2.78
	35	8	1.79	2.69	3.10

	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip In/Hr	
				■	▲
Q 	20	4	0.33	7.99	9.22
	25	5	0.38	5.83	6.73
	30	6	0.40	4.28	4.94
	35	7	0.45	3.51	4.05
H 	20	4	0.66	7.99	9.22
	25	5	0.76	5.83	6.73
	30	6	0.80	4.28	4.94
	35	7	0.89	3.51	4.05
TQ 	20	4	1.0	7.99	9.22
	25	5	1.14	5.83	6.73
	30	6	1.20	4.28	4.94
	35	7	1.34	3.51	4.05
F 	20	4	1.32	7.99	9.22
	25	5	1.49	5.83	6.73
	30	6	1.58	4.28	4.94
	35	7	1.80	3.51	4.05



**AA4 (yellow)**

	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip In/Hr	
				■	▲
Q 	20	4	0.33	14.20	16.40
	25	5	0.38	16.19	18.69
	30	6	0.40	9.63	11.11
	35	7	0.45	6.87	7.94
H 	20	4	0.66	14.20	16.40
	25	5	0.76	16.19	18.69
	30	6	0.80	9.63	11.11
	35	7	0.89	6.87	7.94
TQ 	20	4	1.0	14.20	16.40
	25	5	1.14	16.19	18.69
	30	6	1.20	9.63	11.11
	35	7	1.34	6.87	7.94
F 	20	4	1.32	14.20	16.40
	25	5	1.49	16.19	18.69
	30	6	1.58	9.63	11.11
	35	7	1.80	6.87	7.94

## ORDER SPECIFICATION GUIDE : Model + Option1

### Model

AA17 = Grey 17' Radius Adjustable Arc Nozzle  
 AA15 = Black 15' Radius Adjustable Arc Nozzle  
 AA12 = Green 12' Radius Adjustable Arc Nozzle  
 AA10 = Red 10' Radius Adjustable Arc Nozzle  
 AA8 = Brown 8' Radius Adjustable Arc Nozzle  
 AA6 = Orange 6' Radius Adjustable Arc Nozzle  
 AA4 = Yellow 4' Radius Adjustable Arc Nozzle

### Option 1

Blank = Female Thread  
 M = Male Thread

### Examples

AA15 = Female Thread Grey 17' Radius Adjustable Arc Nozzle  
 AA4 - M = Male Thread Yellow 4' Radius Adjustable Arc Nozzle



# Proline Fixed Arc Nozzles

## FEATURES

- Matched precipitation rates
- Full uniform coverage
- Color coded for easy radius identification
- Stainless steel screw for flow and radius adjustment
- High impact virgin ABS plastic construction
- Available with female or male threads to fit all HIT, Rain-Pro and other brand Pop-Up spray bodies
- Screen included with each nozzle
- No special tools required for arc adjustment
- Large Droplets

## OPERATING SPECIFICATIONS

- Operating pressure range: 10-40 PSI
- Recommended working pressure: 30 PSI



















**15' Standard Spray (black)**



**12' (brown)**



**10' Low Angle (blue)**

15' Standard Spray (black)					12' (brown)					10' Low Angle (blue)										
Model	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip In/Hr		Model	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip In/Hr		Model	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip In/Hr				
				■	▲					■	▲					■	▲			
15Q 	15	11	0.64	2.01	2.32	12Q 	15	9	0.42	2.02	2.33	10QLA 	15	7	0.30	2.22	2.56			
	20	12	0.74	1.95	2.25		20	10	0.49	1.91	2.20		20	8	0.34	1.91	2.21			
	25	14	0.81	1.58	1.82		25	12	0.55	1.80	2.08		25	9	0.37	1.66	1.92			
	30	15	0.91	1.54	1.78		30	12	0.60	1.64	1.89		30	10	0.40	1.48	1.71			
501-110						501-116						501-122								
	15T 	15	11	0.86	2.01		2.32	12T 	15	9	0.56		2.02	2.33	10TLA 	15	7	0.38	2.22	2.56
		20	12	0.98	1.95		2.25		20	10	0.65		1.91	2.20		20	8	0.41	1.91	2.21
		25	14	1.08	1.58		1.82		25	12	0.74		1.80	2.08		25	9	0.46	1.66	1.92
30		15	1.21	1.54	1.78	30	12		0.81	1.64	1.89	30	10	0.51		1.48	1.71			
501-111						501-117						501-141								
	15H 	15	11	1.27	2.01		2.32	12H 	15	9	0.84		2.02	2.33	10HLA 	15	7	0.57	2.22	2.56
		20	12	1.47	1.95		2.25		20	10	0.98		1.91	2.20		20	8	0.63	1.91	2.21
		25	14	1.61	1.58		1.82		25	12	1.12		1.80	2.08		25	9	0.70	1.66	1.92
30		15	1.81	1.54	1.78	30	12		1.21	1.64	1.89	30	10	0.77		1.48	1.71			
501-112						501-118						501-123								
	15TT 	15	11	1.68	2.01		2.32	12TT 	15	9	1.10		2.02	2.33	10FLA 	15	7	1.13	2.22	2.56
		20	12	1.95	1.95		2.25		20	10	1.29		1.91	2.20		20	8	1.27	1.91	2.21
		25	14	2.14	1.58		1.82		25	12	1.47		1.80	2.08		25	9	1.40	1.66	1.92
30		15	2.40	1.54	1.78	30	12		1.60	1.64	1.89	30	10	1.54		1.48	1.71			
501-113						501-119						501-124								
	15TQ 	15	11	1.89	2.01		2.32	12TQ 	15	9	1.28		2.02	2.33	12F 	15	9	1.70	2.02	2.33
		20	12	2.19	1.95		2.25		20	10	1.50		1.91	2.20		20	10	1.98	1.91	2.20
		25	14	2.41	1.58		1.82		25	12	1.71		1.80	2.08		25	12	2.26	1.80	2.08
30		15	2.70	1.54	1.78	30	12		1.85	1.64	1.89	30	12	2.45		1.64	1.89			
501-114						501-120						501-121								
	15F 	15	11	2.53	2.01		2.32													
		20	12	2.93	1.95		2.25													
		25	14	3.21	1.58		1.82													
501-115																				





# Proline Fixed Arc Nozzles



**8' Flat (green)**

	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip In/Hr	
				■	▲
8FSQ	15	5	0.13	2.04	2.36
	20	6	0.18	1.98	2.28
	25	7	0.20	1.57	1.81
501-125	30	8	0.25	1.54	1.55
8FST	15	5	0.16	2.04	2.36
	20	6	0.23	1.98	2.28
	25	7	0.25	1.57	1.81
	501-142	30	8	0.32	1.54
8FSH	15	5	0.26	2.04	2.36
	20	6	0.37	1.98	2.28
	25	7	0.40	1.57	1.81
	501-126	30	8	0.51	1.54
8FSF	15	5	0.53	2.04	2.36
	20	6	0.74	1.98	2.28
	25	7	0.80	1.57	1.81
	501-127	30	8	1.03	1.54



**6' Flat (red)**

	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip In/Hr	
				■	▲
6FSQ-LG	15	2	0.02	2.41	2.78
	20	3	0.06	2.25	2.59
	25	5	0.08	1.16	1.33
	501-128	30	6	0.11	1.20
6FSG-LG	15	2	0.05	2.41	2.78
	20	3	0.10	2.25	2.59
	25	5	0.15	1.16	1.33
	501-129	30	6	0.23	1.20
6FSF-LG	15	2	0.10	2.41	2.78
	20	3	0.21	2.25	2.59
	25	5	0.30	1.16	1.33
	501-130	30	6	0.45	1.20



**35\* Stream Spray (black)**

	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip In/Hr	
				■	▲
35SSQ	15	16	0.56	0.56	0.64
	20	18	0.65	0.51	0.58
	25	19	0.71	0.50	0.58
501-138	30	20	0.80	0.51	0.58
35SSH	15	16	0.84	0.56	0.64
	20	18	0.97	0.51	0.58
	25	19	1.07	0.50	0.58
	501-139	30	20	1.20	0.51
35SSF	15	16	1.48	0.56	0.64
	20	18	1.70	0.51	0.58
	25	19	1.87	0.50	0.58
	501-140	30	20	2.10	0.51



**10\* Stream Spray (Black)**

	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip In/Hr	
				■	▲
10SSQ	15	12	0.56	0.99	1.14
	20	14	0.65	0.83	0.96
	25	15	0.71	0.80	0.92
	501-135	30	16	0.80	0.79
10SSH	15	12	0.84	0.99	1.14
	20	14	0.97	0.83	0.96
	25	15	1.07	0.80	0.92
	501-136	30	16	1.20	0.79
10SSF	15	12	1.48	0.99	1.14
	20	14	1.7	0.83	0.96
	25	15	1.87	0.80	0.92
	501-137	30	16	2.1	0.79



**Special Pattern (orange)**

	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip In/Hr	
				■	▲
15SST4	15	3x15	1.05	1.27	
	20	4x16	1.22	1.22	
	25	4x17	1.34	1.24	
	501-131	30	4x18	1.50	1.20
17SST9	15	9x15	0.84	0.60	
	20	9x16	0.97	0.65	
	25	9x17	1.07	0.67	
	501-132	30	9x18	1.20	0.71
15EST	15	4x13	0.42	1.35	
	20	4x14	0.48	1.29	
	25	4x14	0.54	0.92	
	501-133	30	4x15	0.60	0.96
15CST	15	4x26	0.84	1.35	
	20	4x28	0.97	1.29	
	25	4x28	1.07	0.99	
	501-134	30	4x30	1.20	0.96

## ORDER SPECIFICATION GUIDE

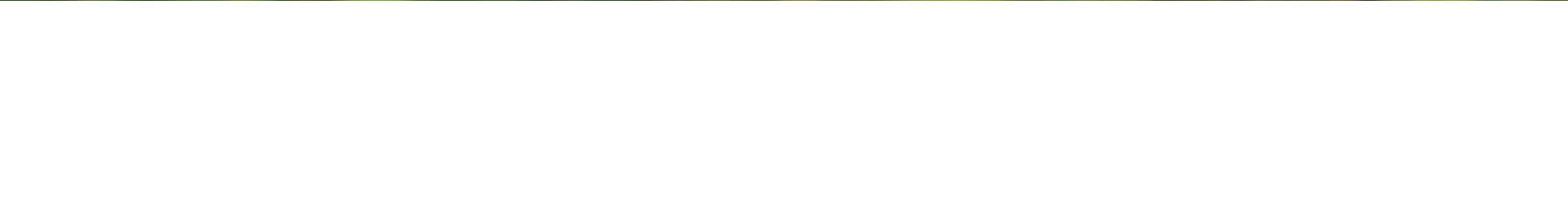
### Option 1

Blank = Female Thread  
M = Male Thread

### Examples

501-110 = Female Thread Black 15'  
Standard Spray Arc Nozzle  
M - 501-131 = Male Thread Orange  
15SST4 4'x30' Side Strip Nozzle







# VALVES

# 200 Series PVC Valves

## FEATURES

- Virgin PVC material construction (NSF approved material)
- Internal manual bleed lever standard on all valves,
- Manual bleed can be removed for "tamper proof" operation
- Heavy duty diaphragm
- 1 1/2" and 2" provided with both bottom (angle) and side inlet
- All stainless steel fasteners and components
- Standard 24 VAC 60 Hz solenoid (black wire) Hex plunger design for sandy water conditions
- 3/4", 1" available with or without flow control
- 1 1/2" and 2" standard with flow control stem
- Suitable for residential and commercial applications

## ELECTRICAL SPECIFICATIONS

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

## OPERATING SPECIFICATIONS

- 1" Flow: 5 - 30 GPM
- 1 1/2" Flow: 5 - 80 GPM
- 2" Flow: 5 - 120 GPM
- Operating pressure: 15 to 150 PSI
- Recommended velocity not to exceed 5 Feet per Second
- All valves for outdoor use and installation only

## PRESSURE LOSS WITH 1" VALVE

Flow (GPM)	Pressure Loss (PSI)
15	1.90
20	3.10
25	5.10
30	6.20

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

Flow (GPM)	Pressure Loss (PSI)
20	3.10
25	2.60
30	2.68
35	2.30
40	2.36
45	2.65
50	3.01
60	4.10
70	4.90
80	5.62

## PRESSURE LOSS WITH 2" VALVE

Flow (GPM)	Pressure Loss (PSI)
20	2.01
25	2.0
30	1.95
35	1.79
40	1.75
45	1.60
50	1.54
60	1.65
70	2.0
80	2.16
90	3.2
100	4.65
110	5.40
120	6.28

### 275-000

3/4" Female Threaded inlet and outlet  
 Overall Height: 5 - 1/2"  
 Overall Width: 3"  
 Overall Length 4 - 3/4"



### 275-050

3/4" Female Thread inlet and outlet  
 Flow Control  
 Overall Height: 5 - 1/2"  
 Overall Width: 3"  
 Overall Length 4 - 3/4"



# 200 Series PVC Valves



## 210-005

1" Slip Socket inlet and outlet  
Overall Height: 5 - 1/2"  
Overall Width: 3"  
Overall Length 4 - 3/4"



## 210-050

1" Female Thread inlet and outlet  
Flow Control  
Overall Height: 5 - 1/2"  
Overall Width: 3"  
Overall Length 4 - 3/4"



## 215-050

1 - 1/2" Female Thread inlet and outlet  
Flow Control  
Overall Height: 8"  
Overall Width: 4 1/4"  
Overall Length 5 - 1/2"



## 220-050

2" Female Thread inlet and outlet  
Flow Control  
Overall Height: 9"  
Overall Width: 4 - 3/4"  
Overall Length 6 - 1/2"

## ORDER SPECIFICATION GUIDE : Model

### Model

275-000= 3/4" Female Threaded Inlet / Outlet without Flow Control  
275-050= 3/4" Female Threaded Inlet / Outlet with Flow Control  
210-000 = 1" Male Threaded Inlet / Outlet without Flow Control  
210-005= 1" Slip Socket Inlet / Outlet without Flow Control  
210-055 = 1" Slip Socket Inlet / Outlet with Flow Control  
210-050 = 1" Female Threaded Inlet / Outlet with Flow Control  
215-050= 1 - 1/2" Female Threaded Inlet / Outlet with Flow Control  
220-050= 2" Female Threaded Inlet / Outlet with Flow Control



# 310 Series Straight Flow Valves

## FEATURES

- Patented full open straight through flow design
- Extremely low pressure loss
- Low flow capability from 1 GPH
- Slow closing - minimizes water hammer
- Contamination resistant with internal control water filtration with "Agitator"
- Internal manual bleed operation and can be removed for "tamper proof" operation
- Heavy duty reinforced diaphragm
- 33% glass filled nylon construction
- All stainless steel screws and components
- Available with or without flow control stem
- Self tapping stainless screws (6) for bonnet to body fastening (Hex/Phillips heads)
- Suitable for residential and commercial applications
- PVC body for slip configuration

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.

## PRESSURE LOSS WITH 1" VALVE

Flow (GPM)	Pressure Loss (PSI)
15	1.2
20	2.1
25	4.0
30	5.0
35	6.2
40	8.0
45	10.0

## ELECTRICAL SPECIFICATIONS

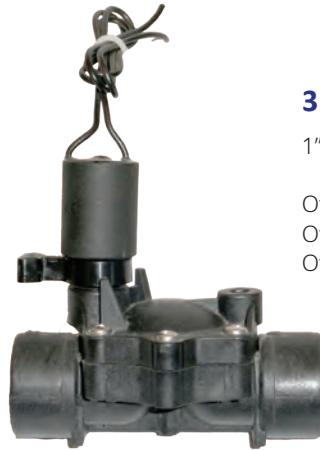
- 24 VAC standard
- Inrush: 350 mA
- Holding: 250 mA
- Standard 24 VAC 60 Hz solenoid (black wire) Hex plunger design for sandy water conditions

## OPERATING SPECIFICATIONS

- 1" Flow: 1 GPH - 50 GPM
- Operating pressure: 10 to 150 PSI
- All valves for outdoor use and installation only
- Recommended velocity not to exceed 5 feet per second of corresponding pipe size

## OPTIONS AVAILABLE

- Reclaimed purple valves
- 110 VAC solenoid
- BSP threads
- Without solenoid



### 310-005

1" PVC Female Thread inlet and outlet  
 Overall Height: 5 - 1/2"  
 Overall Width: 3 - 1/2"  
 Overall Length 5"



### 310-000

1" Nylon Female Thread inlet and outlet  
 Overall Height: 5 - 1/2"  
 Overall Width: 3 - 1/2"  
 Overall Length 5"



# 310 Series Straight Flow Valves



## 310-050

1" Nylon Female Thread inlet and outlet  
Flow Control  
Overall Height: 5 - 1/2"  
Overall Width: 3 - 1/2"  
Overall Length 5"



## 310-055

1" PVC Slip Socket inlet and outlet  
Flow Control  
Overall Height: 5 - 1/2"  
Overall Width: 3 - 1/2"  
Overall Length 5"

## ORDER SPECIFICATION GUIDE : Model + Options

### Model

310-000 = 1" Nylon Female Threaded Inlet / Outlet without Flow Control  
310-005 = 1" PVC Slip Inlet / Outlet without Flow Control  
310-050 = 1" Nylon Female Threaded Inlet / Outlet with Flow Control  
310-055 = 1" PVC Slip Inlet / Outlet with Flow Control

### Options

R = Reclaimed Purple Valve  
WS = Without solenoid  
BSP = BSP Threads  
110VAC = 110 VAC Solenoid



# 500 Series Straight Flow Valves

## 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 residential and commercial applications

## 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

## 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

## ELECTRICAL SPECIFICATIONS

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

## OPERATING SPECIFICATIONS

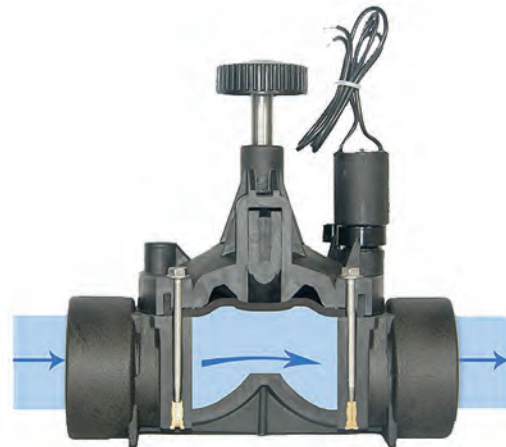
- 1" Flow: 1 GPH - 50 GPM
- 1 1/2" Flow: 1 - 110 GPM
- 2" Flow: 2 - 250 GPM
- 3" Flow: 5 GPM - 250 GPM
- Operating pressure: 15 to 200 PSI
- Recommended velocity not to exceed 5 feet per second of corresponding pipe size
- All valves for outdoor and installation only

## OPTIONS AVAILABLE

- Pressure Regulation Device (-P) (consult price list)
- Reclaimed Purple Valves (-R) (consult price list)
- Normally Open Valves (NO) (consult price list)

## 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



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 diaphragm operated valve.





# 500 Series Straight Flow Valves



## 510-050

1" 33% Glass filled Nylon Straight Flow Valve  
Female Thread inlet and outlet  
Overall Height: 4 - 1/2"  
Overall Width: 3 - 1/2"  
Overall Length 5"



## 515-050

1 - 1/2" Nylon Female Thread inlet and outlet  
Flow Control  
Overall Height: 7"  
Overall Width: 4 - 1/2"  
Overall Length 6"



## 520-050

2" Nylon Female Thread inlet and outlet  
Flow Control  
Overall Height: 8"  
Overall Width: 5 - 3/4"  
Overall Length 8 - 1/4"



## 530-050

3" Nylon Female Thread inlet and outlet  
Flow Control  
Overall Height: 9"  
Overall Width: 6 - 1/4"  
Overall Length 8 - 7/8"

## ORDER SPECIFICATION GUIDE : Model + Options

### Model

510-000 = 1" Nylon Female Threaded Inlet / Outlet without Flow Control  
510-005 = 1" Nylon Slip Socket Inlet / Outlet without Flow Control  
510-050 = 1" Nylon Female Threaded Inlet / Outlet with Flow Control  
510-055 = 1" Nylon Slip Socket Inlet / Outlet with Flow Control  
515-050 = 1 - 1/2" Nylon Female Threaded Inlet / Outlet with Flow Control  
520-050 = 2" Nylon Female Threaded Inlet / Outlet with Flow Control  
530-050 = 3" Nylon Female Threaded Inlet / Outlet with Flow Control

### Examples

510-000-P = 1" Nylon Female Threaded Inlet / Outlet with Pressure Regulating Device  
510-055-R = 1" Nylon Slip Socket Inlet / Outlet with Flow Control and Reclaimed Purple Valve Top  
520-050-NO = 2" Normally Open Nylon Female Threaded Inlet / Outlet with Flow Control

### Options

R = Reclaimed Purple Valve  
P = Pressure Regulator  
NO = Normally Open Valve



# 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



# 500 Series Straight Flow Valves

## 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 + R

#### Model

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



# 500 Series Straight Flow Valves

## with Reclaimed Purple Cap

### 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 RECLAIMED CAP FEATURES

- Reclaimed purple flow control handle and bonnets
- Ideal for reclaimed and non-potable water residential and commercial applications

### 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

### 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

### ELECTRICAL SPECIFICATIONS

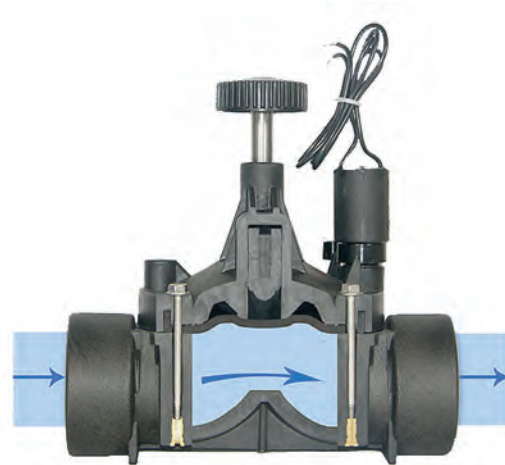
- 24 VAC standard
- Inrush: 350 mA
- Holding: 250 mA
- Cycles: 50 Hz to 60 Hz

### 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
- Downstream pressure adjustable from 15-150 PSI
- All valves for outdoor use only

### 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



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.



# 500 Series Straight Flow Valves

## with Reclaimed Purple Cap



### 510-050-R

1" Nylon Female Thread inlet and outlet  
Flow Control  
Reclaimed Purple Cap  
Overall Height: 6"  
Overall Width: 3 - 1/2"  
Overall Length 5"



### 515-050-R

1 - 1/2" Nylon Female Thread inlet and outlet  
Flow Control  
Reclaimed Purple Cap  
Overall Height: 6"  
Overall Width: 4 - 1/2"  
Overall Length 7"

## ORDER SPECIFICATION GUIDE : Model + R

### Model

**510-000-R** = 1" Nylon Female Threaded Inlet / Outlet With Purple Reclaimed Cap but without Flow Control

**510-050-R** = 1" Nylon Female Threaded Inlet / Outlet with Flow Control and Purple Reclaimed Cap

**515-050-R** = 1 - 1/2" Nylon Female Threaded Inlet / Outlet with Flow Control and Purple Reclaimed Cap

**520-050-R** = 2" Nylon Female Threaded Inlet / Outlet with Flow Control and Purple Reclaimed Cap

**530-050-R** = 3" Nylon Female Threaded Inlet / Outlet with Flow Control and Purple Reclaimed Cap



# 8400 Series Jar Top Valves

## FEATURES

- Virgin PVC material body construction (NSF approved material)
- Glass filled nylon bonnet and ring construction
- Heavy duty co-molded diaphragm with stainless steel spring
- Hex plunger design for sandy water conditions
- Stainless steel spring and internal components
- Internal manual bleed
- Suitable for residential and light commercial applications

## PRESSURE LOSS WITH 3/4" VALVE

Flow (GPM)	Pressure Loss (PSI)
5	3.5
10	4.0
15	3.0
20	3.2
25	4.1
30	6.2

## PRESSURE LOSS WITH 1" VALVE

Flow (GPM)	Pressure Loss (PSI)
5	3.5
10	4.0
15	3.0
20	3.2
25	4.1
30	6.2

## OPTIONS AVAILABLE

Optional with 110 VAC Solenoid

## ELECTRICAL SPECIFICATIONS

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

## OPERATING SPECIFICATIONS

- 3/4" Flow: 1 - 30 GPM
- 1" Flow: 1 - 30 GPM
- Operating pressure: 15 - 125 PSI
- Minimum flow is 5 GPM
- Recommended velocity not to exceed 5 feet per second of corresponding pipe size
- All valves for outdoor use and installation only



### ASV-8100

1" Female Threaded Inlet and Outlet  
Flow Control  
Overall Height: 5 - 1/4"  
Overall Width: 2 - 4/5"  
Overall Length 6 - 1/2"

## ORDER SPECIFICATION GUIDE : Model + Option 1

### Model

8410T = 1" Female Threaded Inlet / Outlet without Flow Control  
8410 = 1" Slip Socket Inlet / Outlet without Flow Control  
8475T = 3/4" Female Threaded Inlet / Outlet without Flow Control  
8475 = 3/4" Slip Socket Inlet / Outlet without Flow Control  
8475-I = 3/4" Slip Socket Inlet / Outlet without Flow Control



# Valve Replacement Parts

- HIT Products 24 VAC solenoid (part # 504-050) interchangeable with most all Hardie, Irritrol, Richdel, LR Nelson and Orbit Valves
- Series Valve replacement diaphragms interchangeable with Hardie, Irritrol, Richdel, 205, 216 and 217 series valves
- Jar Top diaphragms (part # 8400-D) and valve parts are interchangeable with Richdel, Irritrol, Jar Top series valves
- 12 VDC, 110 VAC with conduit cover. Solenoids available in ¾ -20 thread



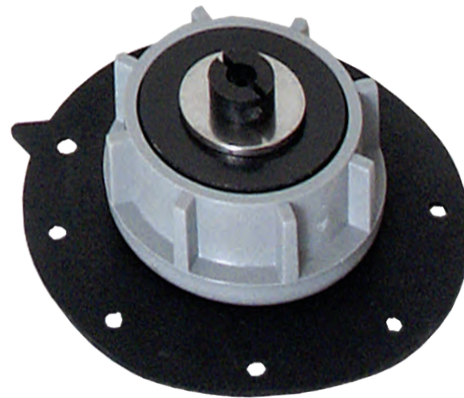
## 504-050

Solenoid 24 VAC 60 Hz  
.35 Amp Inrush  
.25 Amp Holding  
Compatible with 200, 300,  
500 Series, Jar Top, and  
Richdel™, Hardi™, Irritrol™ valves



## 391-200

2" Diaphragm for HIT 500 Series flow control valve



## 210-D

1" Diaphragm Assembly for 200 series PVC valves, also compatible with Richdel™, Hardi™, Irritrol™ 205 series valves



## 504-059

Solenoid 110 VAC 60 Hz  
Conduit Cap  
.35 Amp Inrush  
.25 Amp Holding



## 222

Universal Manual Bleed Adapter  
Includes: Manual bleed adapter, handle and O-ring



# Valve Replacement Parts



## 391-115

1" Diaphragm for HIT 310 and 500 Series non-flow control valve



## 215-D

1 - 1/2" Diaphragm Assembly for 200 series PVC valves. Also compatible with Richdel™, Hardi™, Irritrol™ 216 series valves

## ORDER SPECIFICATION GUIDE : PartNumber

### Hit Valve Diaphragms PartNumber

210-D = 1" Diaphragm Assembly for 200 Series PVC valves, also compatible with Richdel™, Hardie™, Irritrol™ 205 Series valves.

215-D = 1 - 1/2" Diaphragm Assembly for 200 Series PVC valves, also compatible with Richdel™, Hardie™, Irritrol™ 216 Series valves.

220-D = 2" Diaphragm Assembly for 200 Series PVC valves, also compatible with Richdel™, Hardie™, Irritrol™ 217 Series valves.

222 = Universal Manual Bleed Adapter Assembly. Includes Manual Bleed Adapter, Hand, and o-ring

391-115 = 1" Diaphragm for HIT 310 and 500 Series non-flow control valve

391-116 = 1" Diaphragm for HIT 310 and 500 Series flow control valve

391-150 = 1 - 1/2" Diaphragm for HIT 500 Series control valve

391-200 = 2" Diaphragm for HIT 500 Series control valve

8400-D = 1" Diaphragm Assembly for Jar Top Valves manufactured by HIT Products PrainPro. Also compatible with Richdel™ and Irritrol™

### Solenoids PartNumber

504-050 = Solenoid 24 VAC 60Hz .35 amp inrush, .25 amp holding. Compatible with 200, 300, 500 Series, Jar top. Also compatible with Richdel™, Hardie™, and Irritrol™ valves.

504-055 = 12-volt DC solenoid. 7 Watts.

504-058 = Solenoid 24 VAC 60Hz .35 amp inrush, .25 amp holding. Compatible with 100 Series and ASV HIT Valves.

504-059 = Solenoid 110 VAC 60 Hz. Female conduit connection compatible with 200, 300, 500 Series HIT valves. Also compatible with Richdel™, Hardie™, and Irritrol™ valves





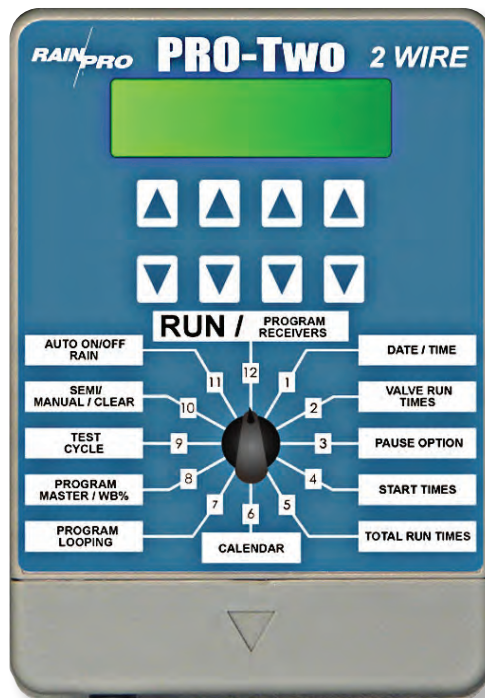


# CONTROLLERS

# Pro-Two 2 Wire Controller

## FEATURES

- 1 - 16 Stations.
- Two Wire Technology with unlimited Tees and Crosses in two wire path.
- Utilizes standard 18/2 wire with a maximum 2,000 foot run (measured by most direct two wire path from Controller to Valve).
- A P2-D Decoder is used at each valve. Decoder is programmable at Controller to any valve number from 1 to 16 or MV/PS.
- A maximum of 2 Decoders can operate simultaneously of the same or different numbers plus a Master Valve or Pump Start Relay.
- P2-D Decoder is shipped with two approved waterproof wire connectors (#DBC-BR) to be used for the Decoder connections to the two wire path.
- System is compatible with all standard irrigation valve solenoids rated with a 350Ma inrush and 250Ma holding current.
- Decoders are purchased separate from Controller and are supplied with number identification tags #1 - #16 and MV / PS to identify each valve in the field to its corresponding Controller valve number.
- 6 Independent Programs.
- ODD / EVEN or Weekly Calendar.
- Water Budget by Program.
- Individual Valve Run Times can be in minutes and hours or seconds and minutes in program.
- Up to 6 Start Times per Program.
- Can Operate in Automatic, Semi Automatic and Manual modes.
- Programmable Rain Delay.



### P2-I

ProTwo 2 wire 16 station indoor controller



### P2-D

ProTwo 2 wire decoder



### DBC-BR

Logic receiver waterproof brass splice kit with direct bury gel filled housing for receiver to Two-wire path connection.

## ORDER SPECIFICATION GUIDE : Model

### Model

P2 = Outdoor ProTwo 2 wire 16 station Controller  
 P2-I = Indoor ProTwo 2 wire 16 station Controller  
 P2-D = ProTwo 2 Wire Decoder



# Logic Plus S - 2 Wire Controller

## FEATURES

- 42 station capability / 128 station capability.
- 8 programs / 16 programs.
- 8 start times per program / 16 start times per program.
- Looping feature on program 6 and remote sensor relay to activate program 6.
- 1 minute to 10 hr 59 minutes run time per station (all programs except 5 and 6 which are 1 second to 59 minutes 59 seconds)
- Water budget 0-250% (5% increments) increasing run times per station to over 24 hours.
- Semi automatic and programmable manual operations.
- Programmable pause between stations per program 0-59 seconds.
- Programmable rain delay up to 31 days.
- Programmable master valve.
- Fertigation control relays with fertigation programming.
- Date/leap year sensitive scheduling options weekly, 1-28 day interval.
- odd /even calendar day capabilities.
- Programmable test cycle.

- “Bounce back” technology allows programs to immediately continue on schedule after power outage.
- Radio remote ready.
- Program start input.
- Clear function for each independent program or entire controller.
- Displays real time operation.
- Up to 4 valves may operate simultaneously, same or different valve numbers.
- 4 field wire outputs, wire run lengths up to 12,000 feet each in four different directions.
- Field wires may be installed with tee, crosses and star wire configurations.
- Each valve has dedicated unique programmable receiver.
- Receivers can be programmed at controller or by way of portable programming unit, Model #LP-HHRP.
- Equipped with modular, replaceable surge protection package.
- Short wire and short valve sensing capabilities.
- Easy wire trouble shooting procedures.



### LP128S-C

1-128 Station, 16 Program, 15 Starts per program, 4 path two-wire output controller in stainless steel locking enclosure



# Logic Plus 2 Wire Controller

## FEATURE SPECIFICS

- Primary power input shall be 120 VAC 60 Hz or 240 VAC 50 Hz. Specify primary power when ordering LogicPLUS Controller. Secondary power output shall be 24 VAC. Non-volatile memory. Internal battery provides backup for time and date.
- When controller is not operating no power shall be delivered to field receivers. A 15 second "power up" delay shall occur when the controller initiates any activity to supply power to field receivers.
- Use only LogicPLUS Receivers (Gray color). Part number LP-RP.
- Maximum pressure of 100 PSI at solenoid valve. For higher operating pressure consult factory.
- Minimum wire size is 14 gauge Irrigation solid core copper direct burial wire. It is recommended to use two colors for field wire from the controller to valves. It is recommended to change colors at each tee, cross or wagon wheel connection. This will help with any possible future trouble shooting.
- Wire layout allows for Tees, Crosses and Wagon wheel layouts. Do not loop any wire layouts. Install all wire splices in valve boxes.
- Use only HIT/LogicPLUS DBC-BR splice kits, supplied with Receiver, to make all field wire connections from 2 wire path to Red wires on Receiver.
- Use only HIT/LogicPLUS DBC-BR or HIT/LogicPLUS DBC-Y splice kits to make receiver to solenoid connections. (use Black wires on receiver)
- Use only standard 24 VAC solenoid, do not use low power or diode bridge solenoids.
- In multiple controller installations, each controller shall have its' own dedicated ground rod (customer to supply) and grounding system. Do not connect multiple controller installations together in any way or share ground system.
- For lightning protection, install HIT/LogicPLUS Field Surge Protection, part number L-SPD-F, every 300-500 feet along two wire path, and attach to ground rod (customer supplied). Install Field Surge Protectors in valve box.

Install LogicPLUS controllers at least 15 feet from all power source or high voltage power meters, magnetic starters, pumps, variable speed controllers, etc., to eliminate any possible EMI. This is a computer.

- Program all LogicPLUS Receivers at the controller or use LogicPLUS hand-held programmer (part number LP-HHRP) before installing Receivers at each valve location.
- Maximum number of receivers per controller shall be 80 for LogicPLUS 42, and 128 for LogicPLUS 128.
- A maximum of four (4) Receivers of the same or different number may be operated at one time.
- Each controller shall have available four (4) field wire outputs. This allows for up to a maximum of four (4) field wire runs of 12,000 feet each in four directions from the controller.
- Each controller shall have the capacity to be remote ready. Contact the factory for this option.
- Each controller is pre-wired for a Pump Start/Master Valve Relay and a Fertigation relay. Use 24 VAC slave relay (maximum power 350 Ma in rush, 250 Ma holding) or HIT PS 200 or PS 500 pump start relays to activate pump starter and Fertigation pumps.
- Each controller is pre-wired for a "Rain Off" function, designed for interfacing with a "Rain Sensor" (Normally closed).
- LogicPLUS controllers have a modular surge protection board to protect the main controller board. In case of lightning strike or power surge this board is sacrificial.
- LogicPLUS controllers are equipped with "short" sensing capability. Contact factory or consult Instruction/Installation manuals for directions of using "short" sensing capabilities.
- LogicPLUS two-wire systems are compatible with certain wire tracing equipment. Consult Factory.
- Stainless Steel Wall mount box measures 13.56" H, 10.25" W, 5" D.



### LP-RP

Programmable Receiver for LogicPlus and Universal 2



### LP-HHRP

Hand-held battery operated programming device for LogicPlus receivers



### DBC-BR

Logic receiver waterproof brass splice kit with direct bury gel filled housing for receiver to Two-wire path connection.

Included with every LP:-RP Receiver



# Logic Plus 2 Wire Controller

## ORDER SPECIFICATION GUIDE : Model

### Model

LP42S-C = 1-42 Station, 8 Program, 8 Starts per Program, 4 path, two-wire output controller in stainless steel locking enclosure.  
LP128S-C = 1-128 Station, 16 Program, 16 Starts per Program, 4 path, two-wire output controller in stainless steel locking enclosure.  
LP-PED = Stainless steel pedestal for use with Controllers  
LP-RP = Programmable receiver for LogicPlus Controllers  
LP-HHRP = Hand-held batter operated device for programming LogicPlus receivers in the field.  
LP-RP-ID = Extra programmable receiver identification kit  
LP-SPD-F = Surge protection device for field wiring of two-wire path  
DBC-R/Y = Water proof, direct bury, gel filled splice housings  
LP-SPD-PAN-S = Replacement module for sacrificial surge protection panel in LogicPlus Controller  
DBC-BR = Waterproof Logic receiver brass splice kit with direct bury gel filled housing for receiver to two-wire path connection.  
DBC-SPL = Direct bury splice kit  
LP-RPC = Replacement programming cables

### Radio Remote Options

LP-RAD-SK = Sidekick radio remote compatible with Logic 2, 3, and LogicPlus 42 and 128  
LP-RAD-COM = Commander radio remote to 128 stations included: case, radio remote transmitter, radio receiver, antennae with mounting bracket  
LP-RAD-COM-T = Transmitter only  
LP-RAD-COM-R = Receiver 128 station only



# Universal 2 (Two Wire Converter)

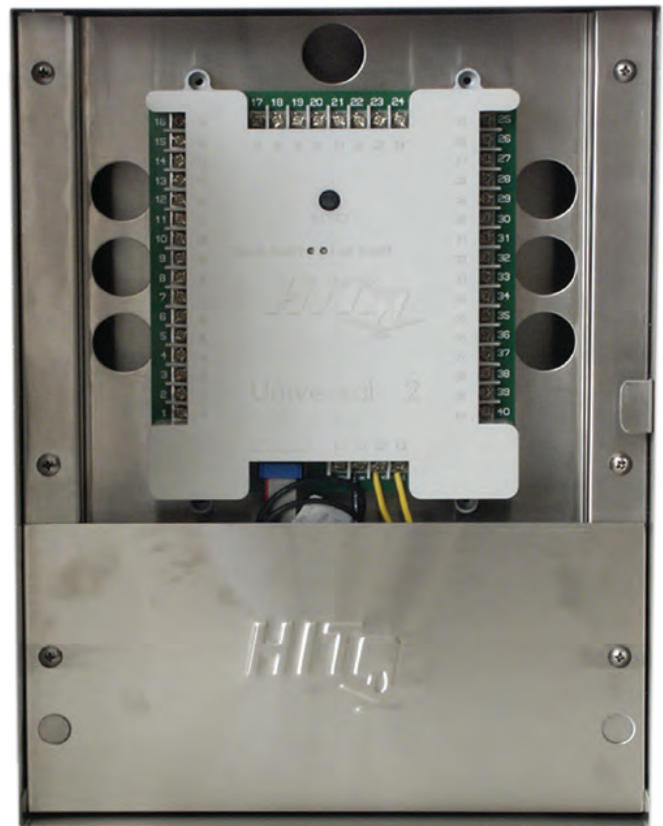
## FEATURES

- Converts any controller to two wire output system
- Individual Logic Plus Receiver installed at each valve
- Each Universal Plus 2 has capacity for 40 valve inputs from controller
- Locking stainless steel enclosure wall mount with transformer
- Field wires may be installed with tees, crosses and star configurations
- Optional receiver programmer to program receiver on job site. Use part # LP-HHRP programmer
- Short sensing capability
- Easy wire trouble shooting capabilities

## FEATURE SPECIFICS

- Primary power input shall be 120 VAC 60 Hz or 240 VAC 50 Hz. Specify primary power when ordering Universal Controller. Secondary power output shall be 24 VAC.
- When controller is not operating no power shall be delivered to field receivers. A 15 second "power up" delay shall occur when the controller initiates any activity to supply power to field receivers.
- Use only Universal Receivers (Gray color). Part number LP-RP.
- Maximum total wire length from controller to any Receiver at end of the wire length is 12,000 feet. Maximum pressure of 100 PSI at solenoid valve. For higher operating pressure consult factory.
- Minimum wire size is 14 gauge Irrigation solid core copper direct burial wire. It is recommended to use two colors for field wire from the controller to valves. It is recommended to change colors at each tee, cross or wagon wheel connection. This will help with future trouble shooting.
- Wire layout allows for Tees, Crosses and Wagon wheel layouts. Do not loop any wire layouts. Install all wire splices in valve boxes.
- Use only HIT/Universal DBC-BR splice kits, supplied with Receiver, to make all field wire connections from 2 wire path to Red wires on Receiver.
- Use only HIT/Universal DBC-BR or HIT/Universal DBC-Y splice kits to make receiver to solenoid connections. (use Black wires on receiver).
- Use only standard 24 VAC solenoid, do not use low power or diode bridge solenoids.
- In multiple Universal 2 installations, each Universal 2 shall have its' own dedicated ground rod (customer to supply) and grounding system. Do not connect multiple Universal 2 installations together in any way or share ground system.
- For lightning protection, install HIT/Universal Field Surge Protection, part number L-SPD-F, every 500-1000 feet along two wire path, and attach to ground rod (customer supplied). Install Field Surge Protectors in valve box.
- Install Universal controllers at least 15 feet from all power source or high voltage power meters, magnetic starters, pumps, variable speed controllers, etc., to eliminate any possible EMI. This is a computer.
- Program all Universal Receivers at a Logic Plus controller or use a Universal hand-held programmer (part number LP-HHRP) before installing Receivers at each valve location.
- Maximum number of receivers per controller shall be 80.

- A maximum of four (4) Receivers of the same or different number may be operated at one time.
- Each Universal 2 shall have available 4 field wire outputs. This allows for up to a maximum of 4 field wire runs of 12,000 feet.
- Universal controllers have a modular surge protection board to protect the main controller board. In case of lightning strike or power surge this board is sacrificial.
- Universal controllers are equipped with "short" sensing capability. Contact factory or consult Instruction/Installation manuals for directions of using "short" sensing capabilities.
- Universal two-wire systems are compatible with certain wire tracing equipment. Consult Factory.
- Stainless Steel Wall mount box measures 13.56" H, 10.25" W, 5" D.



## LP-UNI-2

Universal 2 - Two Wire Converter



# Universal 2 (Two Wire Converter)



## DBC-BR

Logic receiver waterproof brass splice kit with direct bury gel filled housing for receiver to Two-wire path connection.



## LP-RP

Programmable Receiver for LogicPlus and Universal 2

## ORDER SPECIFICATION GUIDE : Model

### Model

LP-UNI-2 = Universal 2 Plus, 1 to 40 station Two-Wire system converter with dual output in stainless steel enclosure

LP-RP = Programmable receiver for LogicPlus Controllers

LP-RP-ID = Extra programmable receiver identification kit

LP-SPD-F = Surge protection device for field wiring of two-wire path

DBC-R/Y = Water proof, direct bury, gel filled splice housings

DBC-BR = Waterproof Logic receiver brass splice kit with direct bury gel filled housing for receiver to two-wire path connection.

DBC-SPL = Direct bury splice kit

LP-RPC = Replacement programming cables



# Logic Plus Hand Held Programmer

## FEATURES

- Portable hand held programmer for programming Logic Plus Receiver identification number.
- Operates on 9 Volt battery or wall plug in transformer.
- Part number LP-HHRP, for use with Logic Plus Controllers/Universal 2 Plus Receivers model LP-RP only.

## DIMENSIONS

- Overall Length : 6.50"
- Overall Width : 1.55"
- Overall Height : 2.35"



## LP-HHRP

Hand-held battery operated programming device for LogicPlus receivers



## DBC-BR

Logic receiver waterproof brass splice kit with direct bury gel filled housing for receiver to Two-wire path connection.



## LP-RP

Programmable Receiver for LogicPlus and Universal 2

## ORDER SPECIFICATION GUIDE : Model

### Model

LP-HHRP = Hand-held batter operated device for programming LogicPlus receivers in the field.

LP-RP-ID = Extra programmable receiver identification kit

DBC-R/Y = Water proof, direct bury, gel filled splice housings

DBC-BR = Waterproof Logic receiver brass splice kit with direct bury gel filled housing for receiver to two-wire path connection.

DBC-SPL = Direct bury splice kit

LP-RPC = Replacement programming cables







**ACCESSORIES**

# Direct Bury Connector Kit

## FEATURES

- Do not store above 150°F
- U.V. Stabilized
- Insulation material is non-toxic, waterproof and petroleum free.
- Operating temperature 20-150°F
- Voltage 36V Maximum

## DBC-R/Y Solid Wire Combinations

#22 SOL or STR	1 2 3 4 5						
#20 SOL or STR	1 2 3 4 5						
#18 SOL	1 2 3 4 5 6						
#16 SOL	1 2 3 4 5 6						
#14 SOL	1 2 3 4 5 6						
#12 SOL	1 2 3 4						
#10 SOL	1 2 3						
R/Y+	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5	1 2 3 4	1 2 3
	#22 STR or SOL	#20 STR or SOL	#18 SOL	#16 SOL	#14 SOL	#12 SOL	#10 SOL



## DBC-R/Y

Water proof, direct bury, gel filled splice housings



## DBC-BR

Waterproof Logic receiver brass splice kit with direct bury gel filled housing for receiver to two-wire path connection.

## Common AWG Wire combination

Quantity	Size	Combination
2-3	#10	1#10 to 1#12
2-4	#12	1#10 to 1 or 2#14
3-4	#14	1#12 to 1 or 2#14
4-6	#16	1#12 to 2 or 3#16

## ORDER SPECIFICATION GUIDE : Model

### Model

DBC-R/Y = Water proof, direct bury, gel filled splice housings

DBC-BR = Waterproof Logic receiver brass splice kit with direct bury gel filled housing for receiver to two-wire path connection.

DBC-SPL = Direct bury splice kit



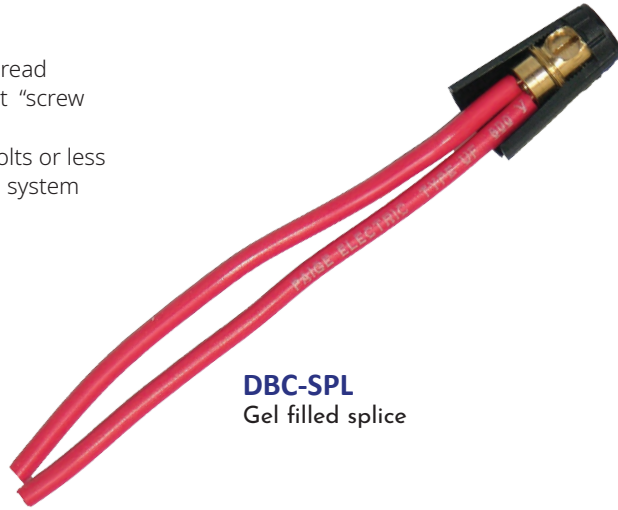
# Direct Bury SPL

## FEATURES

- Includes 2 “screw-tight” brass wire connectors with external thread
- 2 oversized, gel filled wire, nuts with internal threads to accept “screw tight” connectors
- Recommended use for outdoor lighting or other uses of 30 volts or less
- **DO NOT USE** for LogicPLUS or other two-wire communication system

## Common AWG Wire combination

Quantity	Size	Combination
2-3	#10	1#10 to 1#12
2-4	#12	1#10 to 1 or 2#14
3-4	#14	1#12 to 1 or 2#14
4-6	#16	1#12 to 2 or 3#16



**DBC-SPL**  
Gel filled splice

## ORDER SPECIFICATION GUIDE : Model

### Model

DBC-SPL = Direct bury splice kit

# Pump Start Relay

## FEATURES

- Mechanical Relay (not solid state)
- Relay is UC Approved
- 2 Horsepower and 5 Horsepower rated relays available
- Compatible with all standard 24 VAC Controllers



### PS-200

2 HP Pump Start Relay Single Phase

## ORDER SPECIFICATION GUIDE : Model

### Model

PS-200 = Pump Start Relay, 2 HP, 24 VAC Coil, 110/220 VAC, Single Phase  
PS-500 = Pump Start Relay, 5 HP, 24 VAC Coil, 110/220 VAC, Single Phase



# Plug-In Pig Tails

## FEATURES

- 16 Gage Stranded Copper Wire
- 3 Prong Angle Plug
- Stripped and Tinned Ends
- Straight Plug available on 6' Pig Tail #H6PT-S
- SJTW rating - Outdoor rated

## PACKAGING

- Individually Bagged and Labeled
- 12 Per Box



### H8PT

8' long 3 wire, 3 prong, 16Ga Pig Tail

## ORDER SPECIFICATION GUIDE : Model

### Model

- H3PT = 3' long 3 wire, 3 prong 16 Ga angled plug pig tail
- H6PT = 6' long 3 wire, 3 prong 16 Ga angled plug pig tail
- H8PT = 8' long 3 wire, 3 prong 16 Ga angled plug pig tail
- H6PT-S = 6' long 3 wire, 3 prong 16 Ga straight plug pig tail

# Cut Off Nipples

Multiple threaded Male thread (IPT) X Male thread (IPT) Nipple to connect sprinklers to lateral pipe lines. Nipples can be easily cut to desired length(s).

## FEATURES

- One 6" nipple be easily cut to provide the following options:
- One close nipple and one 4-1/2" nipple
- One close nipple, one 2" nipple and one 2-1/2" nipple
- Two close nipples and one 2-1/2" nipple



## ORDER SPECIFICATION GUIDE : Model

### Model

- CON-0500 = 1/2" x 6" Cutt-off nipple
- CON-0700 = 3/4" x 6" Cutt-off nipple
- CON-5070 = 1/2" x 3/4" 6" Cutt-off nipple

## Examples

CON-0500 = Black 1/2" x 6" Cutt-off nipple

# Riser Adapters

Provides the ability to easily create a water source for 1/4" tubing under any sprinkler with a 1/2" inlet. Ideal for supplemental watering of remote plantings that were previously under irrigated and for easily watering potted/hanging plants using an existing sprinkler with a 1/2" inlet as the water source. Available with either one or two 1/4" barbed outlets.

## FEATURES

- Moveable barb outlet to desired orientation
- Molded of high grade ABS material
- Available with either one barbed outlet (RPRA 250-1) Or two barbed outlets (RPRA 250-2)

## OPERATING SPECIFICATIONS

- 1/2" FPT inlet by 1/2" MPT outlet
- Barb fits 0.160" OD - 0.170" OD tubing
- Overall length of fittings is 2.25"



**RPRA250-1**  
1 Barbed Outlet



**RPRA250-2**  
2 Barbed Outlet

## ORDER SPECIFICATION GUIDE : Model

### Model

RPRA250-1 = 1/2" FPT x 1/2" MPT with 1 Barbed Outlet

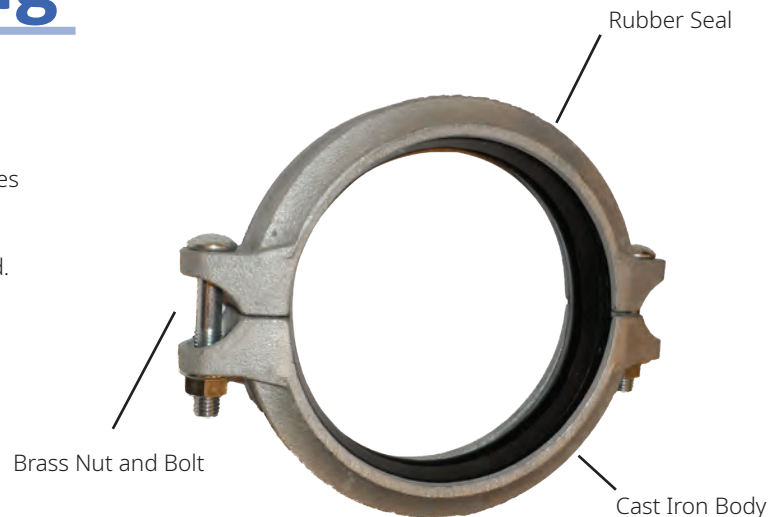
RPRA250-2 = 1/2" FPT x 1/2" MPT with 2 Barbed Outlet

# Grooved Coupling

Grooved Fittings are a popular method of making pipe connections with larger diameter pipe in the Agricultural market. These fittings are compatible with grooved PVC pipe ranging in size from 2" through 12". Each cast iron fitting comes with a matching rubber seal and two brass bolts and nuts for a leak proof connection. Grooved fittings can be removed as needed and re-used with no gluing or cutting of pipe required.

## FEATURES

- Grooved flexible couplings have a 300 psi rating



## ORDER SPECIFICATION GUIDE : Model

### Model

RP-GRCP-2 = 2" Diameter two piece cast iron, grooved, flexible coupling, 300 PSI rating

RP-GRCP-3 = 3" Diameter two piece cast iron, grooved, flexible coupling, 300 PSI rating

RP-GRCP-4 = 4" Diameter two piece cast iron, grooved, flexible coupling, 300 PSI rating

RP-GRCP-5 = 5" Diameter two piece cast iron, grooved, flexible coupling, 300 PSI rating

RP-GRCP-6 = 6" Diameter two piece cast iron, grooved, flexible coupling, 300 PSI rating

RP-GRCP-8 = 8" Diameter two piece cast iron, grooved, flexible coupling, 300 PSI rating

RP-GRCP-10 = 10" Diameter two piece cast iron, grooved, flexible coupling, 300 PSI rating

RP-GRCP-12 = 12" Diameter two piece cast iron, grooved, flexible coupling, 300 PSI rating



# Rainpro Hand Pump

The RainPro hand pump is a manually operated, rugged, self priming, debris tolerant pump that is manufactured to easily and quickly pump out water filled; valve boxes, broken pipe lines, sprinkler repair sites or anyplace you want to pump water away from. This hand pump will flow up to 13 GPM or ¼ gallon per stroke.

To use, simply insert the 1-1/2" pump intake on bottom of shaft into the water you want vacated and place the flexible outlet hose (6' long) to the location you want the water to be pumped. The water can be muddy and laden with dirt and debris. Should pump get clogged, it can be easily disassembled, cleaned and back to use in a couple of minutes. Repair parts are available.

## FEATURES

- High Flow Capacity – 13 GPM, 4 strokes per gallon
- Self Priming Action
- Debris Tolerant
- Special reinforced shaft
- Intake grate filter designed to prevent internal clogging of any ingested debris
- Removable Intake Cap and Top Cap for easy cleaning
- Outlet Stake directs discharge where you want it to go
- Polyvinyl body and components eliminate Rust or Corrosion
- Made in the USA

## OPERATING SPECIFICATIONS

- Body has overall length of 39", diameter of 1-1/2"
- Flexible outlet hose is 6' long and will not crush

## ORDER SPECIFICATION GUIDE : Model

### Model

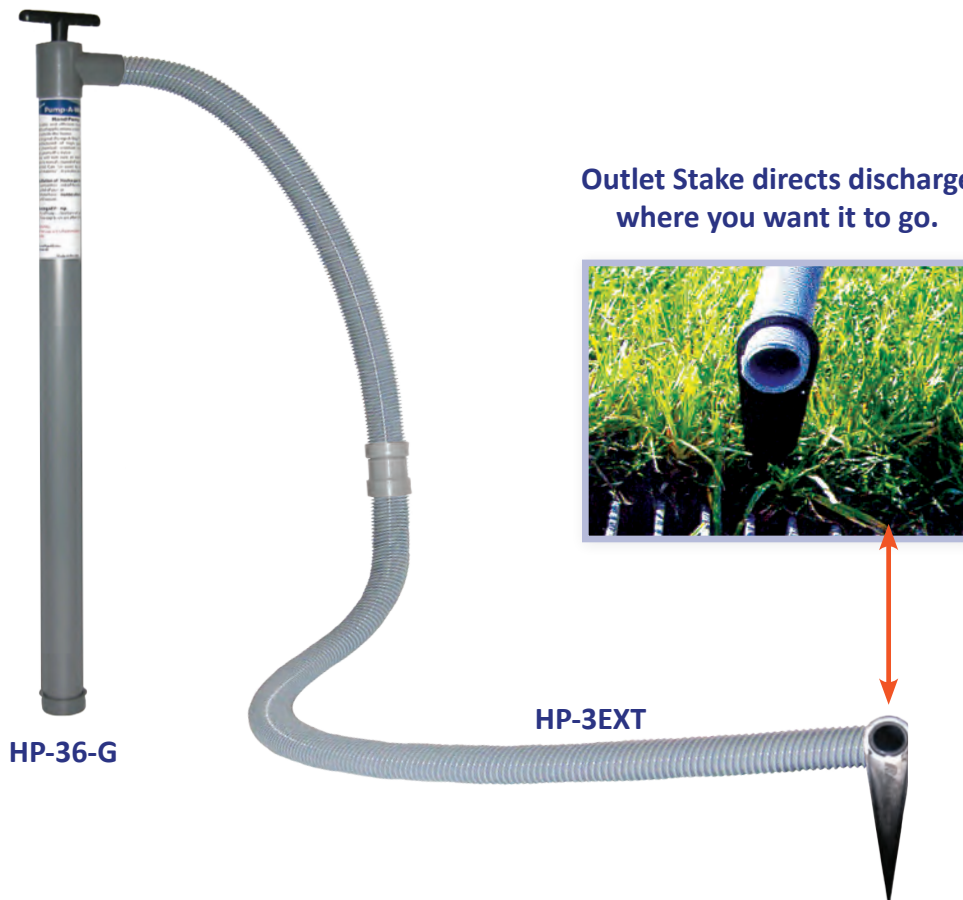
HP-36-G = Pump with 6 foot outlet hose

HP-33-G = Pump with 3 foot outlet hose

### Replacement Parts

HP-3EXT = 3 foot hose extension

HP-159 = HP foot check valve assembly



**Outlet Stake directs discharge where you want it to go.**



# Dual Stage Lake/Pump Filter

The RainPro Lake/Pump Filters are dual staged with both an outer and inner filter designed for use on the intake side of a pump that is typically drawing from a pond or lake. These Lake/Pump Filters are easily matched to the Flow requirements of any application with the unique 2" male spigot connections on each end for easy manifolding using standard 2" slip PVC fittings or Union connections. The PON-006, 6" diameter unit is designed for 0 to 40 gallon per minute flow and the PON-012, 12" diameter unit is designed for 0 to 80 gallons per minute flow. The size and quantity of filters required is dependent on desired flows. The RainPro Lake/Pump Filters are manufactured of Heavy Duty PVC top and bottoms with rigid molded PVC inner and outer filtration walls. The hardware is all Stainless Steel.

The PON-006 has a 6" outer molded filter screen with exactly 38.8 square inches of total open area and an inner 2" molded diameter filter screen with exactly 21.6 square inches of total open area. The PON-006 is rated for 0 to 40 GPM in clean water.

The PON-012 has a 12" outer molded filter screen with exactly 82.0 square inches of total open area and an inner 6" molded diameter filter screen with 38.8 square inches of total open area. The PON-012 is rated for 0 to 80 GPM in clean water.

With the relatively large surface intake area, the velocities remain low, minimizing the suction of unwanted debris from the surrounding area.

At the site, the Filters are typically semi disassembled, filled with 3/8" or larger, irregular shaped pea gravel, reassembled and placed in the pond or lake, connected to the pump intake pipe. The size (and number of units) chosen is based on desired flows and the amount of debris to be dealt with. An exclusive feature of the RainPro model is the ability to easily and cost effectively connect multiple Filters in Series or Parallel utilizing the Standard 2" pipe size spigot connection(s) with standard 2"PVC fittings or Unions to match pump capacity.

## OPERATING SPECIFICATIONS

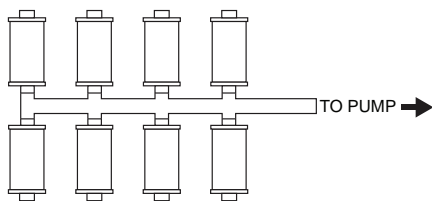
- Each Pon-012 filter added to system equates to an additional 80 GPM capacity. Centerline pipe must be sized to maximum flow desired.
- All connections to filter use standard 2" slip PVC fittings, including; tees, ells, couplings, male or female threaded adapters, unions etc. This filter system provides you the most flexibility and cost effective means of assembling the filter design that meets your system requirements. Each filter includes 2" slip PVC Schedule 40 threaded female adapter and a 2" slip PVC Schedule 40 cap.



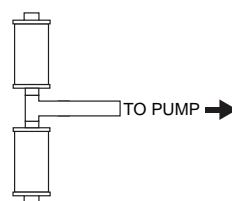
PON-012

PON-006

## Popular Configuration Of PON-012 Lake/Pump Filters



0-640 GPM



0-160 GPM



0-80 GPM

## ORDER SPECIFICATION GUIDE : Model

### Model

PON-012 = 12" Lake/Pump Filter, 0-80 GPM, with 2" PVC connection fittings  
PON-006 = 6" Lake/Pump Filter, 0-40v GPM, with 2" PVC connection fittings



# Swing Joint Assemblies

## FEATURES

- 3-way flexible connection from lateral pipe line to sprinkler
- Available in two configurations;
- SJA – Standard with one marlex street ell at sprinkler connection
- SJA2 – Standard with one marlex street ell at both ends for maximum flexibility and ease in installation
- Flexible for easy installation of sprinkler to grade
- Leak Proof connection
- Retains flexibility so that pipe/riser does not break when sprinkler head is run over or stepped on
- Economical answer for labor saving, quality connection
- Operating pressure up to 90 psi
- Surge pressure up to 240 psi
- Temperature rated up to 110 degrees F

## OPTIONS AVAILABLE

All models are available with either one marlex (model# SJA-XXX) or with two marlex connections (model# SJA2-XXX). All combinations of the following components are available; 1/2" connections, 3/4" connections, 6", 12" or 18" lengths



## ORDER SPECIFICATION GUIDE : Model

### Model

- SJA-605 = 6" long swing joint with 1/2" male thread connections
- SJA-605-7 = 6" long swing joint with 1/2" inlet and 3/4" outlet male thread connections
- SJA-1205 = 12" long swing joint with 1/2" male thread connections
- SJA-1205-7 = 12" long swing joint with 1/2" inlet and 3/4" outlet male thread connections
- SJA-1805 = 18" long swing joint with 1/2" male thread connections
- SJA-1805-7 = 18" long swing joint with 1/2" inlet and 3/4" outlet male thread connections
- SJA2-605 = 6" long swing joint with 1/2" male thread connections with dual marlex
- SJA2-1205 = 12" long swing joint with 1/2" male thread connections with dual marlex
- SJA2-1805 = 18" long swing joint with 1/2" male thread connections with dual marlex

# Funny Pipe Fittings

## FEATURES

- Manufactured of hard Acetal plastic
- Easy "Twist In" one way barbs for no leak, no blow out security
- No glue or clamps required

## OPERATING SPECIFICATIONS

- 0 to 80 psi
- 32F to 110F

## ORDER SPECIFICATION GUIDE : Model

### Model

- 1413-005 = 1/2" Male x 1/2" barb ell
- 1413-074 = 3/4" male x 1/2" barb ell
- 1429-005 = 1/2" barb x 1/2" barb coupler
- 1436-005 = 1/2" male x 1/2" barb adapter
- 1436-101 = 3/4" male x 1/2" barb adapter





# EZ-Funny Pipe Fittings

## FEATURES

- Easy push installation
- No glue or clamps required

## OPERATING SPECIFICATIONS

- 0 to 400 psi
- 32F to 110F

## ORDER SPECIFICATION GUIDE : Model

### Model

EZFP-005 = 1/2" Male x 1/2" push ell



EXFP-005

# Marlex Street Ells

A male threaded X female threaded street elbow fitting typically incorporated in connection from lateral to sprinkler to provide adjustment of sprinkler head to desired height and vertical orientation when incorporating two or more fittings. Provides protection to lateral piping when sprinkler is run over by lawn mower, cars, etc.

## FEATURES

- Manufactured of a self lubricating material, semi flexible material
- 30% more tapered threads than others to accommodate standard varivance found in industry threaded components
- When used in pairs or triplicate, marlex street ells provide stability to support sprinkler head during installation and enough flexibility when backfilling to fine adjust the sprinkler head to desired grade level and vertical orientation.

## ORDER SPECIFICATION GUIDE : Model

### Model

M412-005= 1/2" Threaded Marlex Street Ell  
M412-007 = 3/4" Threaded Marlex Street Ell  
M412-005 = 1" Threaded Marlex Street Ell



M412-010



M412-007



M412-005

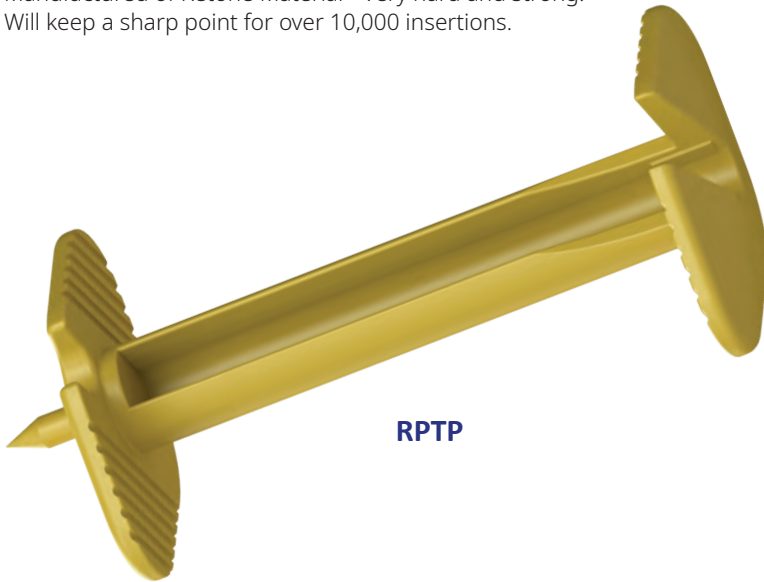


# RPTP - Hole Punch

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## FEATURES

- Manufactured of Ketone Material - Very hard and strong.
- Will keep a sharp point for over 10,000 insertions.



RPTP



# PVC Ball Valves

Thread or Slip

## FEATURES

- PVC handle/lever
- Industrial Grade, Maintenance Free Design
- Fully ported opening
- One piece PVC molded body, Leak tested 100%
- Available with female NPT or slip / socket connections
- Applications include: Irrigation, Water Supply, Plumbing, Swimming Pool, Chemical Feed, Marine and Waste Water

## OPERATING SPECIFICATIONS

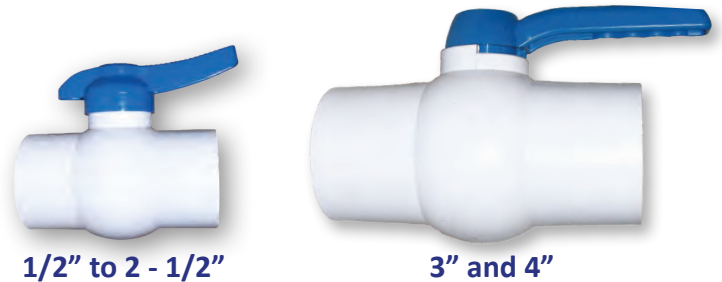
- Pressure Ratings:
  - 1/2" - 2" Valves rated at 200 psi @ 70°F
  - 2 1/2" - 4" Valves rated at 150 psi @ 70°F
- Temperature Operating range is from 41°F to 122°F
- EPDM seat and O-ring

## DETAILED SPECIFICS

Part Number	Size	Schedule Class	Pressure Rated at 70F
BVT-005/BVS-005	1/2"	80	200 PSI
BVT-007/BVS-007	3/4"	80	200 PSI
BVT-010/BVS-010	1"	80	200 PSI
BVT-012/BVS-012	1 - 1/4"	80	200 PSI
BVT-015/BVS-015	1 - 1/2"	80	200 PSI
BVT-020/BVS-020	2"	80	200 PSI
BVT-025/BVS-025	2 - 1/2"	80	150 PSI
BVT-030/BVS-030	3"	80	150 PSI
BVT-040/BVS-040	4"	80	150 PSI

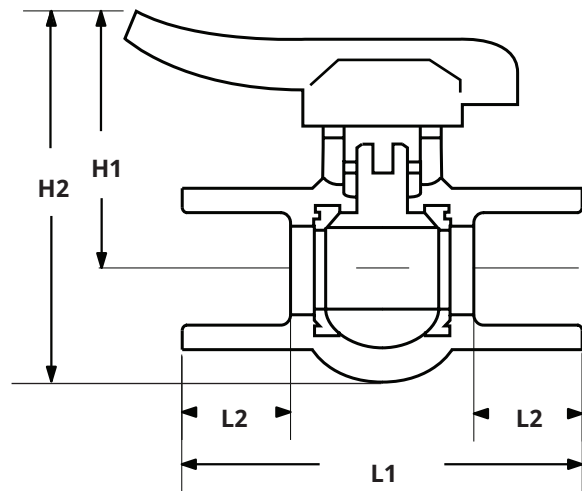
## DIMENSIONS

Part Number	L1	L2	H1	H2
BVT-005/BVS-005	3	0.87	1.98	2.49
BVT-007/BVS-007	3.45	0.90	2.11	3.02
BVT-010/BVS-010	3.91	1.00	2.21	3.42
BVT-012/BVS-012	4.35	1.06	2.45	3.83
BVT-015/BVS-015	5.00	1.20	2.97	4.26
BVT-020/BVS-020	5.75	1.50	3.43	5.10
BVT-025/BVS-025	6.82	1.57	3.91	6.53
BVT-030/BVS-030	9.38	2.50	4.42	7.42
BVT-040/BVS-040	10.38	2.56	5.05	8.23



1/2" to 2 - 1/2"

3" and 4"



## ORDER SPECIFICATION GUIDE : Model

### Threaded Models

- BVT-005 = 1/2" Threaded PVC Ball Valve
- BVT-007 = 3/4" Threaded PVC Ball Valve
- BVT-010 = 1" Threaded PVC Ball Valve
- BVT-012 = 1 - 1/4" Threaded PVC Ball Valve
- BVT-015 = 1 - 1/2" Threaded PVC Ball Valve
- BVT-020 = 2" Threaded PVC Ball Valve
- BVT-025 = 2 - 1/2" Threaded PVC Ball Valve
- BVT-030 = 3" Threaded PVC Ball Valve
- BVT-040 = 4" Threaded PVC Ball Valve

### Slip Models

- BVS-005 = 1/2" Slip PVC Ball Valve
- BVS-007 = 3/4" Slip PVC Ball Valve
- BVS-010 = 1" Slip PVC Ball Valve
- BVS-012 = 1 - 1/4" Slip PVC Ball Valve
- BVS-015 = 1 - 1/2" Slip PVC Ball Valve
- BVS-020 = 2" Slip PVC Ball Valve
- BVS-025 = 2 - 1/2" Slip PVC Ball Valve
- BVS-030 = 3" Slip PVC Ball Valve
- BVS-040 = 4" Slip PVC Ball Valve





# LOW FLOW

# Low Flow Products

## FEATURES

- Internal and external barb compression fittings
- Filters
- Pressure compensating emitters
- Turbulent flow emitters
- Jets sprays with and without valves
- Stream and flood type sprays, barb, thread and stake models
- Multiport emitters
- Mini sprinklers
- Mist sprays
- Hose ball valves and Y ball valves
- Pressure regulators
- Complete line of low flow products to meet any need



# Low Flow Products

## PERFORMANCE TABLES

HYDRO-Pro ADJUSTABLE JETS MODEL RPVF90 / RPVF180 / RPVF360			
RADIUS (FEET)	DISCHARGE (GPH)		
	RPVF90	RPVF180	RPVF360
1 ft	-	-	4.0 gph
2ft	-	6.5 gph	5.7 gph
3ft	12.4 gph	8.3 gph	7.8 gph
4ft	14.5 gph	10.2 gph	10.5 gph
5ft	16.2 gph	12.1 gph	12.7 gph
6ft	18.6 gph	14.5 gph	14.8 gph
7ft	20.1 gph	17.1 gph	16.8 gph
8ft	23.0 gph	21.8 gph	18.0 gph
9ft	25.3 gph	26.4 gph	21.2 gph
10 ft	27.6 gph	-	23.5 gph
11 ft	29.3 gph	-	25.6 gph
12 ft	-	-	27.6 gph

DAIL-A-Pro EMITTERS		
PART NO	PATTERN	DISCHARGE
RP DAFB-360 / DAFT-360	360°	0-10
RP DAFS-360 / DAFU-360	360°	0-10
RP DAFB-180 / DAFT-180	180°	0-10
RP DAFS-180 / DAFU-180	180°	0-10
RP DAFB-FAN / DAFT-FAN	360°	0-20
RP DAFS-FAN / DAFU-FAN	360°	0-20
RP DAFB-BUB / DAFT-BUB	360°	0-25
RP DAFS-BUB / DAFU-BUB	360°	0-25

MICRO-Pro SPRINKLER MODEL RPMFA	
RADIUS (feet)	DISCHARGE (GPH)
1 ft	-
2ft	-
3ft	4.7 gph
4ft	6.6 gph
5ft	8.2 gph
6ft	9.8 gph
7ft	11.3 gph
8ft	13.2 gph
9ft	14.8 gph
10 ft	16.4 gph

MODEL RPDAFB180 / RPDAFS180 / RPDAFU180 / RPDAFS135 MODEL RPDAFB360 / RPDAFT360 / RPDAFS360 / RPDAFU360						
POSITION	20 PSI		30 PSI		40 PSI	
	Discharge	Radius	Discharge	Radius	Discharge	Radius
0	0 gph	0-	0 gph	0-	0 gph	0'
1	1.8 gph	0-	2.3 gph	0-	2.7 gph	0'
2	2.4 gph	0-	3.1 gph	0-	3.5 gph	2'
3	3.0 gph	0"	3.9 gph	2-	4.6 gph	3'
4	3.7 gph	2-	4.8 gph	3-	5.6 gph	4'
5	4.4 gph	3-	5.7 gph	4"	6.7 gph	5'
6	5.0 gph	4"	6.5 gph	6-	7.6 gph	8'
7	5.6 gph	5"	7.2 gph	7"	8.4 gph	10'
8	6.2 gph	6"	8.1 gph	9"	9.1 gph	12'
1+	7.0 gph	7"	9.1 gph	11-	10.4 gph	14'
2+	7.9 gph	9"	10.3 gph	12-	11.7 gph	16'

MODEL RPDAFB-BUB / RPDAFS-BUB / RPDAFU-BUB / RPDAFS-BUB MODEL RPDAFB-FAN / RPDAFS-FAN / RPDAFU-FAN						
POSITION	20 PSI		30 PSI		40 PSI	
	Discharge	Radius	Discharge	Radius	Discharge	Radius
0	0 gph	0'	0 gph	0"	0 gph	0"
1	3.8 gph	0'	5.0 gph	0"	5.8 gph	0"
2	6.3 gph	0'	8.2 gph	0"	9.5 gph	0"
3	9.5 gph	0'	12.4 gph	0"	14.3 gph	1'
4	10.6 gph	0'	13.6 gph	1 "	16.0 gph	2'
5	11.4 gph	1'	14.8 gph	1"	17.1 gph	3'
6	12.1 gph	1'	15.6 gph	2"	18.1 gph	3'
7	13.0 gph	1'	16.5 gph	2"	19.0 gph	4'
8	13.5 gph	1'	17.1 gph	3"	20.0 gph	4'
1+	14.0 gph	2'	18.1 gph	3-	20.9 gph	5'
2+	14.3 gph	2"	18.7 gph	4"	21.6 gph	5"

# Low Flow Products

PERFORMANCE TABLES

Model	Part No.	10 PSI	15 PSI	20 PSI	25 PSI	30 PSI	40 PSI	60 PSI	80 PSI
<b>Mobster-Pro Bubbler</b>	RPCFL 2			1.80 gph	1.90 gph	2.00 gph	2.20 gph	2.50 gph	2.50 gph
	RPCFL 6			5.70 gph	6.90 gph	7.00 gph	7.80 gph	8.90 gph	10.00 gph
	RPCFL10			7.60 gph	8.60 gph	9.70 gph	11.0 gph	13.30 gph	15.00 gph
	RPCFL 20			13.70 gph	15.00 gph	16.50 gph	18.8 gph	22.20 gph	25.30 gph
<b>OMNI-Pro Flow Emmitter</b>	RPOF2	1.80 gph	2.00 gph	2.10 gph	2.10 gph	2.10 gph	2.00 gph	1.80 gph	
	RPOF6	4.50 gph	4.80 gph	5.10 gph	5.20 gph	5.30 gph	5.00 gph	4.50 gph	
	RPOF10	9.00 gph	9.60 gph	10.00 gph	10.00 gph	9.90 gph	9.60 gph	8.90 gph	
	RPOF 20	18.50 gph	19.30 gph	19.90 gph	20.10 gph	20.30 gph	19.30 gph	17.70 gph	
<b>MONO-Pro Emmitter</b>	RPAPC5 / RPLPC5	0.60 gph	0.63 gph	0.66 gph	0.66 gph	0.67 gph	0.68 gph		
	RPAPC 10 / RPLPC 10	1.10 gph	1.15 gph	1.20 gph	1.22 gph	1.22 gph	1.23 gph		
	RPAPC 20 I RPLPC 20	2.10 gph	2.15 gph	2.20 gph	2.22 gph	2.23 gph	2.25 gph		
<b>ISO-Pro Emmitter</b>	RPIF 5	0.60 gph	0.63 gph	0.66 gph	0.66 gph	0.67 gph	0.68 gph		
	RPIF 10	1.10 gph	1.15 gph	1.20 gph	1.22 gph	1.22 gph	1.23 gph		
	RPIF 20	2.10 gph	2.15 gph	2.20 gph	2.22 gph	2.23 gph	2.25 gph		
<b>PC Pro Emmitter</b>	RPPCP 5 / RPPC 5	0.55 gph	0.57 gph	0.59 gph	0.59 gph	0.61 gph	0.62 gph		
	RPPCP 10 / RPPC 10	1.10 gph	1.13 gph	1.14 gph	1.17 gph	1.20 gph	1.21 gph		
	RPPCP 20 / RPPC20	1.95 gph	2.01 gph	2.06 gph	2.12 gph	2.17 gph	2.22 gph		
<b>MULTI-Pro Emmitter</b>	RPMPB 5 / RPMP5 5	0.60 gph	0.63 gph	0.66 gph	0.66 gph	0.67 gph	0.68 gph		
	RPMPB 10 / RPMP5 10	1.10 gph	1.15 gph	1.20 gph	1.22 gph	1.22 gph	1.23 gph		
	RPMPB 20 / RPMP5 20	2.10 gph	2.15 gph	2.20 gph	2.22 gph	2.23 gph	2.25 gph		
<b>UNI-Pro Emmitter</b>	RPUF5	0.55 gph	0.57 gph	0.59 gph	0.59 gph	0.61 gph	0.62 gph		
	RPUF10	1.10 gph	1.13 gph	1.14 gph	1.17 gph	1.20 gph	1.21 gph		
	RPUF20	1.95 gph	2.01 gph	2.06 gph	2.12 gph	2.17 gph	2.22 gph		
<b>SUPER-Pro Emmitter</b>	RPTAE 10	0.56 gph	0.70 gph	0.80 gph	-0.89 gph	0.97 gph			
	RPTAE 20	1.35 gph	1.62 gph	1.83 gph	2.12 gph	2.38 gph			
	RPTAE 40	2.38 gph	2.91 gph	3.33 gph	3.70 gph	3.97 gph			
<b>DURA-Pro Dripperline</b>	RPSFJR-XX-XX-XX	0.39 gph	0.47 gph	0.56 gph	0.63 gph	0.69 gph			
<b>MINI-Pro Emmitter</b>	RPAFBB 5	0.51 gph	0.63 gph	0.73 gph	0.81 gph	<b>FLUSHING CHARACTERISTICS OF COMPENSATING EMITTERS</b>			
	RPAFBB 10	0.86 gph	1.06 gph	1.22 gph	1.36 gph				
	RPAFBB 20	1.64 gph	2.02 gph	2.32 gph	2.59 gph				
<b>AQUA-Pro Emmitter</b>	RPAFB 5/RPAFS 5/RPAFT 5/RPAFTS 5	0.51 gph	0.63 gph	0.73 gph	0.81 gph	Nominal Flow	Peak Flsh Flow	Peak Flow Pressure	
	RPAFB 10/RPAFS 10 / RPAFT10/RPAFTS 10	0.86 gph	1.06 gph	1.22 gph	1.36 gph	1/2 gph	1.10 gph	3 PSI	
	RPAFB 20 /RPAFS 20/ RPAFT20/RPAFTS 20	1.64 gph	2.02 gph	2.32 gph	2.59 gph	1 gph	1.60 gph	3 PSI	
<b>INLINE - Pro Emmitter</b>	RPIL 165	0.42 gph	0.52 gph	0.60 gph	0.67 gph	<b>Includes MONO-PRO, ISO-PRO, UNI-PRO, and MULTI-PRO Emitters</b>			
	RPIL 1610	0.84 gph	1.04 gph	1.19 gph	1.33 gph				
	RPIL 1610	0.84 gph	1.04 gph	1.19 gph	1.33 gph				
1. Discharge rates on all PC emitters vary slightly according to water temperature 2. When designing for PC. emitters, allow for higher discharge rates during initial flushing									

# Low Flow Products

## DISCHARGE RATES (GPH) / RADIUS (FEET)

Model	Part No.	15 psi		20 psi		25 psi		30 psi		40 psi		45 psi	
		Discharge Radius		Discharge Radius		Discharge Radius		Discharge Radius		Discharge Radius		Discharge Radius	
		gph	ft	gph	ft	gph	ft	gph	ft	gph	ft	gph	ft
Hydro Pro jet	RPTFB 30 (black)	4.8	5.0	5.5	6.0	6.2	7.0	6.8	8.0				
	RPTFB 40 (blue)	8.8	7.0	10.4	8.0	11.7	8.0	12.9	9.0				
	RPTFB 50 (green)	13.8	8.0	15.8	9.0	17.7	9.0	19.5	10.0				
	RPTFB 60 (red)	20.0	8.0	23.3	9.0	26.3	10.0	28.9	11.0				
	RPTFB 70 (white)	32.9	9.0	37.6	10.0	42.5	11.0	46.6	12.0				
	RPTF 336 (black)	4.8	4.0	5.5	4.5	6.2	5.0	6.8	5.0				
	RPTF 436 (blue)	8.8	4.5	10.4	5.0	11.7	5.5	12.9	5.5				
	RPTF 536 (green)	13.8	5.0	15.8	5.5	17.7	6.0	19.5	6.0				
	RPTF 636 (red)	20.0	5.0	23.3	5.5	26.3	6.0	28.9	6.5				
	RPTF 318 (black)	4.8	3.0	5.5	3.5	6.2	4.0	6.8	4.5				
	RPTF 418 (blue)	8.8	3.5	10.4	4.0	11.7	4.5	12.9	5.0				
	RPTF 518 (green)	13.8	4.0	15.8	4.5	17.7	5.0	19.5	5.5				
	RPTF 618 (red)	20.0	4.5	23.3	5.0	26.3	5.5	28.9	6.0				
	RPTF 39 (black)	4.8	4.0	5.5	4.5	6.2	5.5	6.8	6.0				
	RPTF 49 (blue)	8.8	4.5	10.4	5.0	11.7	5.5	12.9	6.0				
RPTF 59 (green)	13.8	4.5	15.8	5.5	17.7	6.0	19.5	6.5					
RPTF 69 (red)	20.0	5.0	23.3	5.5	26.3	6.0	28.9	6.5					
RDO-PRO mini-sprinkler	RPRF55, RPRFF55 (brown)			17.6	13	20.0	14	22.0	15	25.3	15		
	RPRF64, RPRFF64 (green)			23.2	13	26.4	14	29.0	15	33.3	16		
	RPRF72, RPRFF72 (blue)			29.0	14	33.0	15	36.3	16	41.7	17		
	RPRF80, RPRFF80 (grey)			34.8	15	39.6	16	43.5	17	50.0	18		
	RPRF87, RPRFF87 (yellow)			40.6	16	46.2	17	50.8	18	58.4	19		
	RPRF93, RPRFF93 (red)			46.4	16	52.8	18	58.0	19	66.6	20		
MICRO-PRO micro-sprinkler	RPMF 35 (orange)	6.6	6	7.7	7	8.6	8	9.4	8				
	RPMF 40 (blue)	8.6	7	10.0	8	11.3	9	12.4	9				
	RPMF 50 (green)	13.6	8	16.0	9	17.9	10	19.7	10				
STATO-PRO	RPSF 32 (green)	6.7	2	7.9	2	9.0	2	10.0	2	11.3	2	12.0	2
	RPSF 42 (white)	9.9	3	11.6	3	13.2	3	14.5	3	16.6	3	17.6	3
	RPSF 52 (red)	15.9	4	18.6	4	21.1	4	23.2	4	26.6	4	28.2	4
	RPSF 70 (black)	25.5	5	30.2	5	34.4	5	37.5	5	43.1	5	45.7	5



# Low Flow Products

## MAXIMUM RECOMMENDED LENGTH OF RUN (FEET)

### HYDRO-PRO JETS, MICRO-PRO MICRO-SPRINKLERS

ORIFICE	OPERATING PRESSURE	1.0. OF TUBING (INCHES)											
		.600"	.820"	1.040"	.600"	.820"	1.040"	.600"	.820"	1.040"	.600"	.820"	1.040"
		AVERAGE SPACING BETWEEN JETS (FEET)											
		6'			9'			12'			15'		
0.030'	20 PSI	210 lt	400 lt	620 lt	275 lt	520 lt	810 lt	340 lt	645 lt	1 000 lt	385 lt	730 ft	1130 lt
0.040'	20 PSI	140 lt	265 lt	415 lt	185 ft	350 ft	545 ft	225 ft	425 ft	660 ft	250 ft	475 ft	735 ft
0.050'	20 PSI	110 lt	210 ft	325 ft	145 ft	275 ft	425 ft	175 ft	330 ft	515 ft	195 ft	370 ft	575 ft
0.060'	20 PSI	85 ft	160 ft	250 ft	110ft	210 ft	330 ft	135 ft	255 ft	400 ft	150ft	290 ft	450 ft

### ROTO-PRO MINI-SPRINKLERS

ORIFICE	OPERATING PRESSURE	1.0. OF TUBING (INCHES)											
		.600"	.820"	1.040"	.600"	.820"	1.040"	.600"	.820"	1.040"	.600"	.820"	1.040"
		AVERAGE SPACING BETWEEN MINI-SPRINKLERS (FEET)											
		15'			20'			25'			30'		
RPRFIF 55	25 PSI	175 ft	330 lt	505 ft	210ft	400 ft	620 ft	250 ft	475 ft	735 ft	280 ft	530 ft	820 ft
RPRFIF 64	25 PSI	145 ft	275 ft	425 ft	175 ft	330 ft	515 ft	205 ft	390 ft	600 ft	230 ft	435 ft	675 ft
RPRFIF 72	25 PSI	125 ft	235 lt	365 ft	150 ft	285 lt	440 ft	175 ft	330 ft	515 ft	200 ft	380 ft	585 ft
RPRFIF 80	25 PSI	110ft	205 ft	325 ft	130 ft	245 ft	380 ft	150 ft	285 lt	440 ft	170 ft	320 ft	500 ft
RPRFIF 87	25 PSI	100 ft	190 ft	295 ft	120 ft	230 lt	350 ft	140 ft	265 lt	410 ft	160 ft	305 ft	465 lt
RPRFIF 93	25 PSI	95 ft	180 ft	280 ft	110 ft	210ft	325 ft	130 ft	245 ft	380 ft	150 ft	285 ft	435 ft

MODEL	NOMINAL FLOW RATE	OPERATING PRESSURE	I.D. OF TUBING (INCHES)									
			.520"	.600"	.520"	.600"	.520"	.600"	.520"	.600"	.520"	.600"
			SPACING BETWEEN EMITTERS (INCHES)									
			18"		24"		36"		48"		60"	
PC PRO emitter	0.5 gph	20 PSI	350 ft	440 ft	415ft	535 ft	530 ft	680 ft	640 ft	820 ft	740 ft	970 ft
		30 PSI	460 ft	590 ft	550 ft	710 ft	700 ft	900 ft	850 ft	1090 lt	1000 lt	1290 lt
		40 PSI	540 ft	695 ft	640 ft	825 ft	840 ft	1 080 ft	1 020 ft	1310 lt	1160ft	1500 ft
	1.0 gph	20 PSI	220 ft	280 ft	265 ft	340 ft	340 ft	440 ft	410 lt	530 ft	480 ft	620 lt
		30 PSI	290 ft	375 ft	350 ft	450 ft	450 ft	580 ft	540 ft	690 lt	630 ft	820 ft
		40 PSI	340 ft	440 ft	410 lt	530 lt	540 ft	690 ft	650 lt	840 lt	750 ft	965 lt
2.0 gph	20 PSI	160 ft	200 ft	190 lt	240 lt	240 ft	305 ft	300 lt	370 lt	350 ft	435 ft	
	30 PSI	210 lt	265 lt	255 lt	320 lt	325 ft	405 ft	390 lt	490 lt	460 ft	575 ft	
	40 PSI	250 ft	310 ft	300 ft	370 lt	380 ft	475 ft	460 ft	575 ft	540 lt	675 lt	
AQUA-PRO emitter	0.5 gph	20 PSI	230 lt	300 lt	285 lt	360 lt	375 lt	470 lt	440 lt	560 lt	510t	650 ft
	1.0 gph	20 PSI	160 ft	210 ft	200 ft	250 ft	260 ft	325 ft	320 ft	400 lt	370 ft	460 ft
	2.0 gph	20 PSI	105 ft	135 lt	130 ft	160 ft	165 lt	210 lt	200 ft	250 ft	230 ft	290 ft
SUPER FLOTM emitter	1.0 gph	20 PSI	140 ft	185 ft	175 ft	220 ft	230 ft	290 ft	280 ft	350 ft	330 ft	400 ft
	2.0 gph	20 PSI	90 ft	115ft	110ft	135 ft	140 ft	175 ft	170 lt	210 ft	190 lt	240 ft
	4.0 gph	20 PSI	60 lt	75 ft	70 ft	90 lt	90 ft	115ft	110ft	140 ft	125 ft	160 ft

MODEL	NOMINAL FLOW RATE	SPACING	MAXIMUM RUN
DURA-PRO JR	0.5 gph	6"	19 ft
mini dripperline	0.5 gph	12"	33 ft

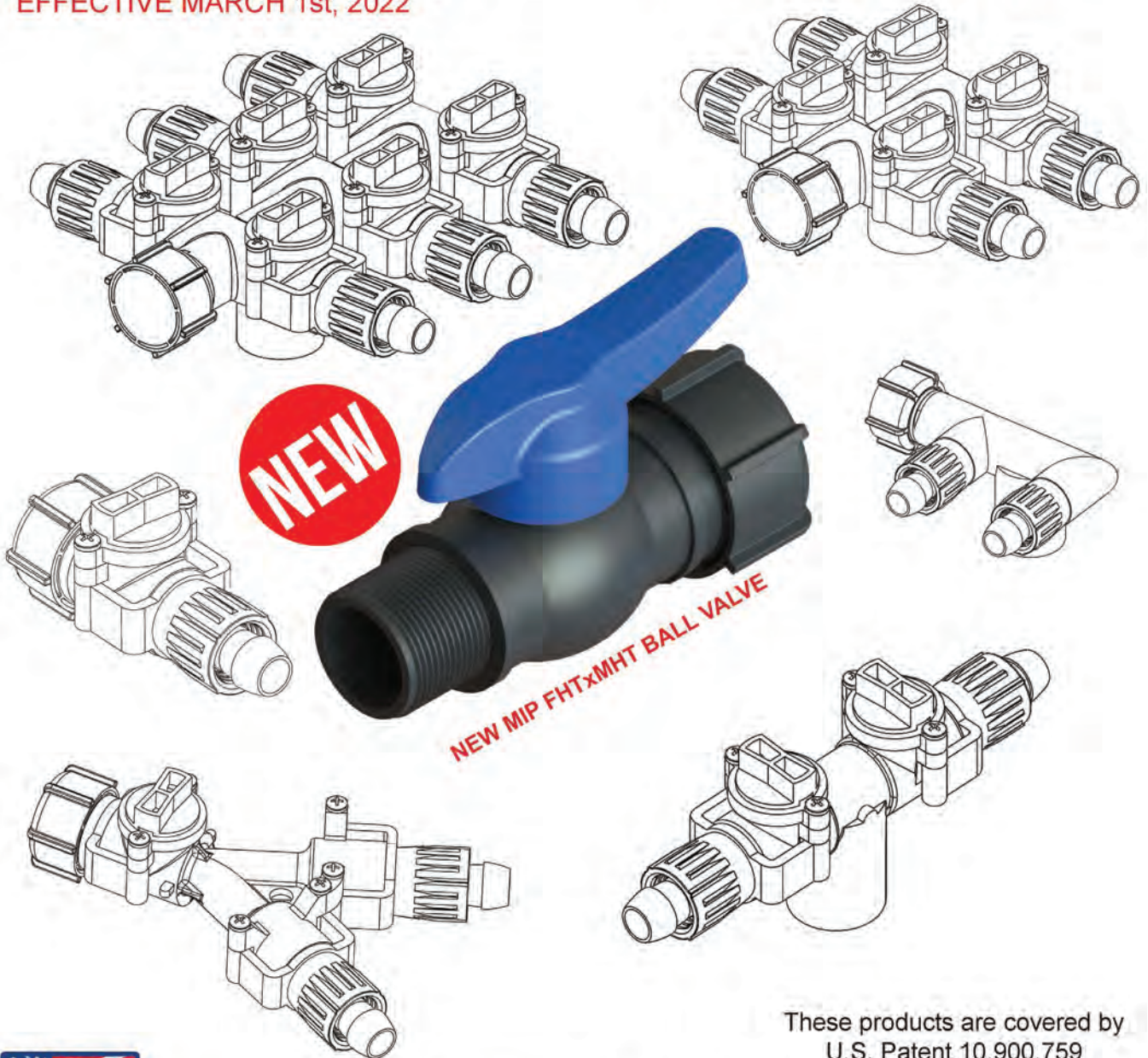
MODEL	NOMINAL FLOW RATE	INmAL PRESSURE	SPACING BETWEEN EMITTERS (INCHES)				
			12"	18"	24"	30"	36"
MINI-PRO emitter	0.5 gph	20 PSI	20 ft	25 ft	30 ft	35 ft	40 ft
	1.0 gph	20 PSI	12 ft	15 ft	18 ft	21 lt	24 ft
	2.0 gph	20 PSI	6ft	7ft	9ft	11 ft	12 ft

# Check out our Riser Manifolds Catalog

# “GLUE-N-GO” MANIFOLDS

2022 PRICE LIST  
EFFECTIVE MARCH 1st, 2022

8 NEW PRODUCT CONFIGURATIONS  
AND MIP FHTxMHT BALL VALVE



Manufactured by Hit Products Lindsay, CA. USA 93247

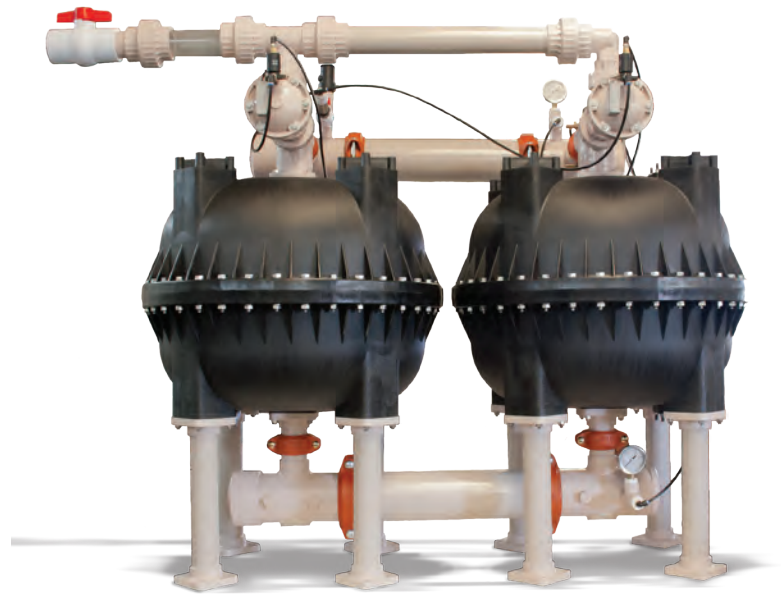
These products are covered by  
U.S. Patent 10,900,759  
U.S. Patent D912,205  
and Other Patents Pending

# Check out our Water Tool 12" and 24" Sand Media Filters Catalog

**Flow: 15-25 GPM Per Tank**  
**Pressure Rating: 80 PSI**  
**Tank Media: 5 Gallons Per Tank**



**Flow: 40-100 GPM Per Tank**  
**Pressure Rating: 80 PSI**  
**Tank Media: 20 Gallons Per Tank**



**Complete Systems; Manual or Automatic Operation**



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