

# TURF IRRIGATION



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RPS75

## RPS75™ Rotor

The RPS75™ gear drive is designed for basic residential and light commercial applications and is a direct replacement for Hunter® PGP® rotors. The reversing mechanism, a K-Rain patented feature, is the same mechanism used in the Hunter PGP (K-Rain currently licenses this patent to Hunter.) With K-Rain's wide selection of standard and low angle nozzles, the RPS75 provides even water distribution.

### Features:

- Direct Replacement for Hunter® PGP®.
- Right Position Start - Rotor rotates counterclockwise from fixed right start position.
- Riser Fits in Existing Hunter PGP Cans - Simply unscrew the existing riser from the PGP can and replace with the RPS75 riser.
- Top Adjustment - No training necessary, the RPS75 has the same adjustment procedure as the Hunter PGP.
- Full and Part Circle Rotation - Provides a full range of adjustment from 40° to 360°
- Non-Flushing Wiper Seal - Reduces leaks caused by debris trapped under seal.
- 3/4" Inlet - Replaces all standard rotors.
- Ideal for Low Flow Applications.
- Universal Adjustment Tool - Compatible with existing Hunter products.
- Rubber Cover - Seals out dirt and increases product durability.
- Wide Selection of Nozzles - Including standard and low angle, provides flexibility in system design.
- **Key and check disc also included in master cases.**
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**



Find performance data on following page.



ARC selection 40°- 360°. Adjusts from RIGHT start.

### Specifications:

- Inlet 3/4" female threaded NPT
- Arc Adjustment Range: 40° to 360°
- Flow range: 0.75 - 8.2 GPM
- Pressure Rating: 30-70 PSI
- Precipitation Rate: 0.12 to 1.16 inches/hour
- Overall height popped down : 7 3/8"
- Recommended spacing: 25' to 45'
- Radius: 22' to 51'
- Nozzle trajectory: 25° standard or 11° low angle
- 8 standard and 4 low angle nozzles included
- Riser Height: 4"

Part Number	Description	Ctn Qty
RPS75	RPS Standard Rotor	20

## RPS75™ Rotor Performance Data



### STANDARD ANGLE

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#0.75	30	29	0.7
	40	30	0.8
	50	30	0.9
	60	31	1.0
#1	30	30	0.9
	40	31	1.0
	50	31	1.2
	60	32	1.3
#1.5	30	32	1.2
	40	33	1.4
	50	34	1.6
	60	34	1.8
#2	30	34	1.6
	40	36	1.8
	50	38	2.0
	60	38	2.2
#3 preinstalled	30	36	2.0
	40	38	2.4
	50	40	2.7
	60	40	2.9
#4	30	36	2.6
	40	40	3.0
	50	42	3.4
	60	42	3.7
#6	30	38	4.2
	40	43	4.9
	50	46	5.5
	60	47	6.0
#8	40	45	6.0
	50	48	6.8
	60	49	7.6
	70	51	8.2

### LOW ANGLE

#1	30	22	1.2
	40	24	1.7
	50	26	1.8
	60	28	2.0
#3	30	29	3.0
	40	32	3.1
	50	35	3.5
	60	37	3.8
#4	30	31	3.4
	40	34	3.9
	50	37	4.4
	60	38	4.7
#6	40	38	6.5
	50	40	7.3
	60	42	8.0
	70	44	8.6

Data represents test results in zero wind.

Adjust for local conditions.

Radius may be reduced with nozzle retention screw.



RPS SELECT

## RPS® SELECT Rotor

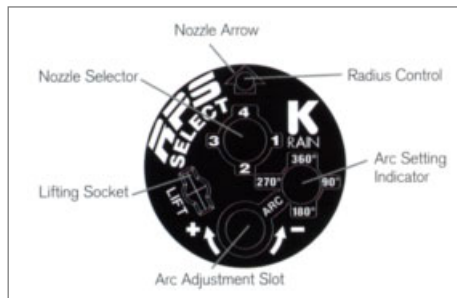
The RPS® SELECT rotary sprinkler is gear-driven for basic residential and light commercial applications. With 4 selectable built-in nozzles, matched precipitation is fast and easy without the need to change nozzles in the field.

### Features:

- Four built-in selectable nozzles to match arc settings 90° to 360°
- Adjustable Arc (40° to 360°) made from the top with no special tools needed.
- Matched precipitation rate when nozzle setting matched to arc.
- 3/4" Inlet - Replaces all standard rotors.
- Low pressure operation.
- Standard Rubber Cover
- Proven gear-drive design common to the popular RPS75® series.
- Riser assembly interchanges with Hunter® PGP® rotors
- **Key and check disc also included in master cases.**
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**

### Specifications:

- Inlet 3/4" female threaded NPT
- Arc Adjustment Range: 40° to 360°
- Flow range: 1.3 - 6.8 GPM
- Pressure Rating: 30-70 PSI
- Precipitation Rate: 0.23 to 0.71 inches/hour
- Overall height popped down: 7 3/8"
- Recommended spacing: 31' to 44'
- Radius: 33' to 46'



Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#1 90°	30	33	1.3
	35	34	1.4
	40	37	1.5
	45	37	1.6
	50	37	1.8
#2 180°	30	37	2.6
	35	38	2.8
	40	39	3.0
	45	40	3.2
	50	40	3.6
#3 270°	30	37	3.8
	35	40	4.1
	40	41	4.5
	45	41	4.7
	50	43	4.9
#4 360°	30	38	5.2
	35	40	5.7
	40	44	6.0
	45	45	6.4
	50	46	6.8

Part Number	Description	Ctn Qty
RPS SELECT	RPS Select Rotor	20



## MiniPro™ Rotor

Perfect for small lawn and landscape areas and for replacing fixed sprays.  
Direct replacement for the Toro Mini8.



13003

### Features:

- Gear driven, rotary type sprinkler capable of covering an area of 17' to 30'.
- Revolutionary patented easy arc set is easily adjusted from the top with a flat blade screwdriver. Stainless steel radius adjustment screw.
- Adjustable rotation provides a full range of adjustments from 40° to 360°. Patented arc set degree markings clearly indicate current watering pattern and simplifies adjustment.
- Adjustable in all phases of installation - before, after while static or while in operation.
- Time proven patented reversing mechanism assures continuous reverse and return.
- Ratcheting riser easily adjusts your left start position by turning the riser.
- Supplied with 5 numerically coded interchangeable nozzles. Wide selection of nozzles provides flexibility in system design to achieve matched precipitation.
- Heavy duty rubber cover seals out dirt and increases durability.
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**



### Specifications:

- Inlet 1/2" NPT
- Arc adjustment range 40° to 360°
- Flow range: 0.75 - 3.3 GPM
- Pressure Rating: 20-70 PSI
- Precipitation Rate: 0.22 to 0.41 inches/hour (depending on spacing and nozzle used)
- Overall height popped down : 6"
- Recommended spacing: 17' to 28'
- Radius: 17' to 30'
- Nozzle trajectory: 26°
- Riser Height: 4", 6" or 12".



### MiniPro™ Rotor Performance Data

**STANDARD ANGLE** Red Nozzle

Pressure Nozzle	Radius PSI	Flow Rate Ft.	GPM
#0.75	30	17'	.75
	40	17'	.8
	50	18'	.9
#1	30	20'	.9
	40	21'	1.2
	50	21'	1.3
#1.5 preinstalled	30	23'	1.4
	40	24'	1.7
	50	24'	1.9
#2	30	25'	1.8
	40	27'	2.1
	50	27'	2.4
#3	30	28'	2.7
	40	30'	3.0
	50	30'	3.3



ARC selection 40° - 360°.  
Adjusts from LEFT start.

Part Number	Description	Ctn Qty
13003	MiniPro short range rotor 4"	25
13006	MiniPro short range rotor 6"	20
13012	MiniPro short range rotor 12"	12



11003

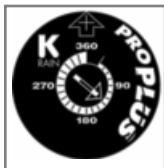
## ProPlus™ 11003 Rotor

Appropriate for medium to large landscape areas with high level risers and shrubs.

Direct replacement for the Toro Super800.

### Features:

- Gear driven, rotary type sprinkler capable of covering an area of 22' to 50'.
- Revolutionary patented easy arc set is easily adjusted from the top with a flat blade screwdriver. Stainless steel radius adjustment screw.
- 2N1 adjustable or continuous rotation provides a full range of adjustments from 40° to a full 360°. Patented arc set degree markings show the degree of adjustment with the point of an arrow on the top cover.
- Arc memory clutch returns rotor to its preset position automatically even after being tampered with. Time proven patented reversing mechanism assures continuous reverse and return.
- Ratcheting riser easily adjusts your left start position by turning the riser.
- Supplied with 9 numerically coded interchangeable nozzles including 4 low angle nozzles. Wide selection of nozzles provides flexibility in system design to achieve matched precipitation.
- Heavy duty rubber cover seals our dirt and increases durability.
- **FULL 5 YEAR WARRANTY. Subject to all standard warranty conditions that apply to all K-Rain rotors.**



ARC selection 40° to continuous 360°. Adjusts from LEFT start.

### Specifications:

- Inlet 3/4" threaded NPT
- Arc Adjustment Range: 40° to continuous 360°
- Flow range: 0.5 - 10.0 GPM
- Pressure Rating: 20-70 PSI
- Precipitation Rate: 0.06 to 0.50 inches/hour (depending on spacing and nozzle used)
- Overall height popped down : 7 1/2" 17" for High pop
- Recommended spacing: 28' to 44'
- Radius: 22' to 50'
- Nozzle trajectory: 26° standard or 12° low angle
- Riser Height: 5"

Part Number	Description	Ctn Qty
11003	ProPlus mid-range rotor	20

Find performance data on following page.



# K-Rain<sup>®</sup> Rotors

## ProPlus™ 11003 Rotor Performance Data

### STANDARD ANGLE

Red Nozzle

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM	
#0.5	30	28	0.5	
	40	29	0.6	
	50	29	0.7	
	60	30	0.8	
#0.75	30	29	0.7	
	40	30	0.8	
	50	31	0.9	
	60	32	1.0	
#1	30	32	1.3	
	40	33	1.5	
	50	34	1.6	
	60	35	1.8	
#2	30	37	2.4	
	40	40	2.5	
	50	42	3.0	
	60	43	3.3	
#2.5	30	38	2.5	
	preinstalled	40	39	2.8
	50	40	3.2	
	60	41	3.5	
#3	30	38	3.6	
	40	39	4.2	
	50	41	4.6	
	60	42	5.0	
#4	30	43	4.4	
	40	44	5.1	
	50	46	5.6	
	60	49	5.9	
#6	40	45	5.9	
	50	46	6.0	
	60	48	6.3	
	70	49	6.7	
#8	40	42	8.0	
	50	45	8.5	
	60	49	9.5	
	70	50	10.0	

### LOW ANGLE

Green Nozzle

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#1	30	22	1.2
	40	24	1.7
	50	26	1.8
	60	28	2.0
#3	30	29	3.0
	40	32	3.1
	50	35	3.5
	60	37	3.8
#4	30	31	3.4
	40	34	3.9
	50	37	4.4
	60	38	4.7
#6	40	38	6.5
	50	40	7.3
	60	42	8.0
	70	44	8.6



10003

## SuperPro™ 10003 Rotor

With flow control, appropriate for residential or light commercial.  
Direct replacement for the Toro Super 800.

### Features:

- Riser fits in existing Toro Super800 cans.
- Gear driven, rotary type sprinkler capable of covering an area of 26' to 49'.
- Patented flow control valve inside the rotor allows individual head to be turned off or be partially closed to reduce the distance by up to 75%. Additionally it simultaneously reduces the flow rate creating an added water savings.
- Revolutionary patented easy arc set is easily adjusted from the top with a flat blade screwdriver. Stainless steel radius adjustment screw.
- 2N1 adjustable or continuous rotation provides a full range of adjustments from 40° to continuous 360°. Patented arc set degree markings show the degree of adjustment with the point of an arrow on the top cover.
- Arc memory clutch returns rotor to its preset position automatically even after being tampered with. Time proven patented reversing mechanism assures continuous reverse and return.
- Ratcheting riser easily adjusts your left start position by turning the riser.
- Supplied with 9 numerically coded interchangeable nozzles including 4 low angle nozzles.
- Heavy duty rubber cover seals out dirt and increases durability.
- 5 year limited warranty.



### Specifications:

- Inlet 3/4" threaded NPT
- Arc Adjustment Range: 40° to continuous 360°
- Flow range: 0.5 - 10.0 GPM
- Pressure Rating: 20-70 PSI
- Precipitation Rate: 0.05 to 0.74 inches/hour (depending on spacing and nozzle used)
- Overall height popped down : 7 1/2"
- Recommended spacing: 28' to 44'
- Radius: 26' to 49'
- Nozzle trajectory: 26°standard or 12°low angle
- Riser Height: 5"

Part Number	Description	Ctn Qty
10003	SuperPro rotor	20



ARC selection 40° to continuous 360°.  
Adjusts from LEFT start.

Find performance data on following page.



# K-Rain<sup>®</sup> Rotors

## SuperPro™ 10003 Rotor Performance Data

### STANDARD ANGLE

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM	
#0.5	30	30	0.45	
	40	29	0.5	
	50	26	0.6	
	60	26	0.7	
#0.75	30	32	0.7	
	40	32	0.8	
	50	33	0.9	
	60	33	1.0	
#1	30	30	1.1	
	40	32	1.3	
	50	33	1.5	
	60	33	1.6	
#2	30	38	2.3	
	40	38	2.5	
	50	40	2.7	
	60	42	3.0	
#2.5	30	35	2.5	
	preinstalled	40	36	2.8
	50	37	3.2	
	60	38	3.6	
#3	30	35	3.4	
	40	36	3.8	
	50	38	4.2	
	60	39	4.8	
#4	30	42	4.1	
	40	44	4.6	
	50	45	5.1	
	60	46	5.7	
#6	40	46	5.8	
	50	48	6.4	
	60	49	7.0	
	70	49	7.5	
#8	40	42	7.5	
	50	45	8.2	
	60	48	9.0	
	70	48	9.5	

### LOW ANGLE

Nozzle	Pressure PSI	Radius Ft.	Flow Rate GPM
#1	30	26	1.3
	40	27	1.5
	50	27	1.7
	60	28	1.9
	60	28	1.9
#3	30	29	2.9
	40	30	3.3
	50	31	3.4
	60	33	4.0
#4	30	28	4.0
	40	31	4.7
	50	34	5.0
	60	36	6.0
	60	36	6.0
#6	40	30	6.0
	50	34	7.0
	60	37	7.8
	70	38	8.2



K Spray Series

## K-Spray Series Spray Bodies

Ideal for watering smaller areas, ground cover and shrub areas.



### Features:

- Available in 3", 4" 6" and 12" models which provide flexibility in design.
- **Accepts MALE threaded nozzles.**
- Stainless steel retraction spring provides reliable retraction of the riser in all soil conditions.
- Ratchet riser allows for easy pattern alignment by turning the riser.
- Heavy duty wiper seal ensures leak free, full pop-up operation even under low pressure situations.

### Specifications:

- Inlet 1/2" NPT female thread
- Flow range: 0.5 - 4.6 GPM
- Pressure Rating: 20-50 PSI
- Precipitation Rate: 0.4 to 1.91 inches/hour

Part Number	Description	Ctn Qty
74001	4" Pop-up Spray body (less nozzles)	50
76001	6" Pop-up Spray body (less nozzles)	50
71201	12" Pop-up Spray body (less nozzles)	25



## Pro-S Pop-Up Sprays

A rugged, contractor friendly spray line designed to be compatible with ALL standard female threaded nozzles.

Direct replacement for RainBird® 1800 Series sprays.

### Features:

- Available in 2", 3", 4" 6" and 12" models which provide flexibility in design.
- **Accepts FEMALE threaded nozzles.**
- Co-Molded wiper seal ensures a leak free, full pop up operation under low pressure situations. Cartridge design allows for easy removal and cleaning. Treated with UV inhibitors for long life. Seal is microbe resistant to reduce degradation and stick ups.
- Ratcheting riser allows for easy pattern alignment by turning the riser.
- Heavy duty retraction spring for positive retraction in all soil conditions.
- Side and bottom inlet on 6" and 12" models.
- Pre-installed flush cap.
- 5 year Limited Warranty.



PRO-S Spray



### Specifications:

- Inlet 1/2" NPT Female Thread
- Flo range: 0 @ 8 psi, 0.10 gpm
- Pressure Rating: 20-70 psi
- Precipitation Rate: 0.4-4 inches/hour
- Overall Body Height: 2" pop up - 4"  
3" pop up - 4 7/8"  
4" pop up - 6"  
6" pop up - 9 3/8"  
12" pop up - 16"



### Part Number Description

### Ctn Qty

Part Number	Description	Ctn Qty
78002	2" Pop up spray	50
78003	3" Pop up spray	50
78004	4" Pop up spray	50
78006	6" Pop up spray	50
78012	12" Pop up spray	25



Co-molded wiper seal



RN Rotary Nozzle



## Fixed Pattern Rotary Nozzle

Provides increased uniform coverage over conventional fixed spray nozzles while delivering matched precipitation.




### Features:

- Perfect for upgrading old irrigation systems by solving low pressure and coverage problems.
- Matched precipitation across various radii and patterns.
- Low precipitation rate reduces run off.
- Low flow rate means less material and fewer zones.
- 25% radius reduction for patented flow control, no tools required.
- Unique speed control maintains the speed of rotation over varying pressure ranges.
- Any pattern can be combined in the same zone with matched precipitation.
- Larger filter prolongs product life.
- 2 year Limited Warranty.

### Specifications:

- Spacing: 13-17 ft
- Pressure Rating: 20-45 psi
- Precipitation Rate: 0.67 - 0.99 inches/hour depending on head spacing.

## FIXED PATTERN ROTARY NOZZLES - PERFORMANCE SPECS

Part Number	Nozzle Pattern	Pressure PSI	Radius Ft.	Flow Rate GPM	Flow GPH	Precip	Precip
RN200-90		25	13	0.38		0.99	0.86
		30	14	0.41		0.93	0.81
		35	15	0.45		0.89	0.77
		40	16	0.48		0.84	0.72
		45	17	0.51		0.78	0.68
RN200-180		25	13	0.74		0.97	0.84
		30	14	0.81		0.92	0.80
		35	15	0.90		0.89	0.77
		40	16	0.96		0.83	0.72
		45	17	1.00		0.77	0.67
RN200-360		25	13	1.50		0.99	0.85
		30	14	1.70		0.96	0.83
		35	15	1.80		0.89	0.77
		40	16	2.00		0.87	0.75
		45	17	2.10		0.81	0.70

Part Number	Description	Ctn Qty
RN100-ADJ	Rotary Nozzle - Adjustable 80-360°10-17'	10
RN200-ADJ	Rotary Nozzle - Adjustable 80-360°17-21'	10
RN300-ADJ	Rotary Nozzle - Adjustable 80-360°21-26'	10





**KV Nozzles**

## KV Variable Arc Nozzles

KV adjustable nozzles have a MALE thread configuration to fit K-Spray bodies.

### Features:

- Superior spray pattern ensures proper precipitation rates throughout the adjustment.
- Color coded by distance.
- Extra long filters provide longer time between cleaning.

Find performance data on following page.

Part Number	Description	Color	Ctn Qty
KV8	8' Variable arc nozzle male thread	Green	25
KV10	10' Variable arc nozzle male thread	Blue	25
KV12	12' Variable arc nozzle male thread	Brown	25
KV15	15' Variable arc nozzle male thread	Black	25
KV17	17' Variable arc nozzle male thread	Gray	25



**KVF Nozzles**

## KVF Variable Arc Nozzles

KVF adjustable nozzles have a FEMALE thread configuration to fit RPS and PRO-S spray bodies.

### Features:

- Superior spray pattern ensures proper precipitation rates throughout the adjustment.
- Color coded by distance.
- Extra long filters provide longer time between cleaning.

Find performance data on following page.

Part Number	Description	Color	Ctn Qty
KVF8	8' Variable arc nozzle female thread	Green	25
KVF10	10' Variable arc nozzle female thread	Blue	25
KVF12	12' Variable arc nozzle female thread	Brown	25
KVF15	15' Variable arc nozzle female thread	Black	25

## VARIABLE ARC NOZZLES - PERFORMANCE SPECS FOR KV NOZZLES



Arc	Pressure PSI	8' GREEN Radius Ft.	Flow GPM	10' BLUE Radius Ft.	Flow GPM	12' BROWN Radius Ft.	Flow GPM	15' BLACK Radius Ft.	Flow GPM	17' GRAY Radius Ft.	Flow GPM
90°	20	9	0.7	12	0.7	12	1.1	15	1.3	18	1.7
	30	9	1.1	12	1.1	13	1.3	17	1.6	18	1.8
	40	10	1.4	13	1.4	14	1.5	18	1.8	19	2.0
	50	11	1.5	14	1.5	15	1.7	19	2.0	20	2.2
180°	20	8	1.4	11	1.4	11	1.6	14	1.8	17	1.9
	30	8	1.6	11	1.6	12	1.8	15	2.3	18	2.4
	40	9	1.8	12	1.8	13	2.2	16	2.6	19	2.6
	50	10	2.0	13	2.0	14	2.4	18	2.8	19	2.6
270°	20	8	1.7	10	1.7	11	1.9	14	2.7	16	2.9
	30	8	2.0	10	2.0	12	2.4	15	3.2	17	3.4
	40	8	2.3	11	2.3	12	2.6	16	3.6	18	4.0
	50	9	2.6	12	2.6	13	3.0	16	4.0	18	4.0
360°	20	8	2.2	10	2.2	11	2.8	13	3.4	15	3.5
	30	8	2.7	10	2.7	12	3.1	15	4.2	17	4.4
	40	8	3.0	11	3.0	12	3.5	15	4.7	17	4.9
	50	8	3.5	12	3.5	13	3.9	16	5.3	18	5.4

## VARIABLE ARC NOZZLES - PERFORMANCE SPECS FOR KVF NOZZLES



Arc	Pressure PSI	8' GREEN Radius Ft.	Flow GPM	10' BLUE Radius Ft.	Flow GPM	12' BROWN Radius Ft.	Flow GPM	15' BLACK Radius Ft.	Flow GPM	17' GRAY Radius Ft.	Flow GPM
90°	20	9	0.40	9	0.40	10	0.45	13	0.55	17	0.80
	25	9	0.42	9	0.42	11	0.52	14	0.63	18	0.94
	30	10	0.45	10	0.45	12	0.55	15	0.70	19	1.05
	40	10	0.50	10	0.50	12	0.60	16	0.80	19	1.30
180°	20	9	1.00	9	1.00	9	1.10	13	1.30	17	1.70
	25	9	1.10	9	1.10	10	1.21	14	1.49	17	1.92
	30	10	1.20	10	1.20	10	1.35	15	1.65	19	2.15
	40	10	1.25	10	1.25	11	1.53	16	2.00	19	2.50
270°	20	9	1.40	9	1.40	9	1.60	13	1.90	16	2.40
	25	10	1.59	10	1.59	10	1.74	15	2.15	16	2.82
	30	10	1.75	10	1.75	10	1.95	15	2.35	17	3.00
	40	10	2.05	10	2.05	11	2.05	16	2.70	18	3.50
360°	20	9	2.30	9	2.30	9	2.40	13	2.80	16	2.90
	25	10	2.51	10	2.51	10	2.61	14	3.26	17	3.40
	30	10	2.65	10	2.65	11	2.78	15	3.60	17	3.80
	40	11	2.75	11	2.75	12	3.03	15	4.10	17	4.40



Fixed Nozzles

## Fixed Pattern Female Nozzles

Matched precipitation female nozzles are compatible with ALL available male threaded bodies.

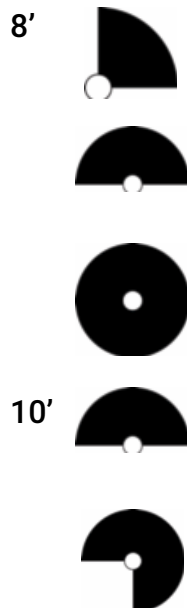
### Features:

- Color coded for easy identification.
- Four distances plus eight fixed patterns provides an array of configurations.
- Matched precipitation allows for even water distribution.

Series Number	Description	Color	Ctn Qty
FN8 *	8' Fixed pattern female nozzle	Green	25
FN10 *	10' Fixed pattern female nozzle	Blue	25
FN12 *	12' Fixed pattern female nozzle	Brown	25
FN15 *	15' Fixed pattern female nozzle	Black	25

\* Add nozzle pattern reference letter to complete part number.

## Fixed Pattern FEMALE THREADED Nozzles Performance & Pricing



Pattern Letter*	Nozzle Pattern	Pressure PSI	Radius Ft.	Flow Rate GPM	Ctn Qty	Part Number
Q	90°	15	5	0.18	25	FN8Q
		20	6	0.21		
		25	7	0.24		
		30	8	0.26		
H	180°	15	5	0.37	25	FN8H
		20	6	0.41		
		25	7	0.47		
		30	8	0.52		
F	360°	15	5	0.74	25	FN8F
		20	6	0.86		
		25	7	0.95		
		30	8	1.05		
H	180°	15	7	0.58	25	FN10H
		20	8	0.65		
		25	9	0.72		
		30	10	0.79		
TQ	270°	15	7	0.87	25	FN10TQ
		20	8	0.98		
		25	9	1.08		
		30	10	1.18		

## Fixed Pattern THREADED Nozzles Performance & Pricing

### MALE (P)

### FEMALE (FN)

12'



15'



Pattern Letter*	Nozzle Pattern	MALE (P)			FEMALE (FN)			Ctn Qty	MALE/FEMALE Part No	
		Pressure PSI	Radius Ft.	Flow Rate GPM	Pressure PSI	Radius Ft.	Flow Rate GPM			
H	180°	20	11	0.9	15	9	0.90	25	P12H	
		25	12	1.1	20	10	1.05			
		40	13	1.4	25	11	1.20			
		50	14	1.5	30	12	1.30			
F	360°	20	10	1.6	15	9	1.80	25	P12F	
		25	12	1.8	20	10	2.10			
		40	13	2.1	25	11	2.40			
		50	14	2.4	30	12	2.60			
Q	90°	20	15	0.7	15	11	0.65	25	P15Q	
		30	16	0.9	20	12	0.75			FN15Q
		40	17	1.1	25	14	0.82			
		50	18	1.2	30	15	0.92			
H	180°	20	14	1.4	15	11	1.30	25	P15H	
		30	15	1.7	20	12	1.50			FN15H
		40	16	2.0	25	14	1.65			
		50	17	2.2	30	15	1.85			
F	360°	20	13	2.9	15	11	2.60	25	P15F	
		30	15	3.6	20	12	3.00			FN15F
		40	16	4.1	25	14	3.30			
		50	17	4.6	30	15	3.70			

## Special Pattern Nozzles Performance & Pricing



Pattern Letter*	Nozzle Pattern	Pressure PSI	Radius Ft.	Flow Rate GPM	Ctn Qty	MALE Part No	FEMALE Part No.
CS	CENTER	20	4' X 24'	0.8	25	P15CS	
	STRIP	30	4' X 30'	1.0			FN15CS
SS	STRIP	30	4' X 32'	1.3	25		FN15SS



7001 Series



7001-NFC Series



7001-MXB Series

Designed for polyethylene piping systems, requires fewer fittings and can be installed quickly.



Flow Through

Self Cleaning  
Screen

## Pro Series 100 Solenoid Valves

A contemporary tilt diaphragm makes this the perfect choice for residential, light commercial and dirty water applications.

### Features:

- Heavy duty, corrosion & UV resistant PVC construction increases the life of the valve.
- Combination 1" and 1 1/4" connections provide the option to increase the pipe size to the valve increasing the flow rate.
- Tilted diaphragm/piston assembly allows for a straight flow path of the water increasing the flow rate while reducing the friction loss.
- Debris tolerant design provides flexibility for use in potable or dirty water applications.
- Manual external bleed through bleed screw allows for manual operation in system start-up.
- Manual internal bleed through solenoid allows for manual operation without leaking water.
- Flow control with removable handle allows for precise flow adjustment, manual shut-off and allows you to remove the handle to prevent tampering.
- Captured plunger solenoid allows for the solenoid to be removed without losing the plunger.
- Self cleaning metering screen is in the turbulent flow of water allowing self cleaning action during operation.
- 5 year Limited Warranty.

### Specifications:

- Dimensions: 4" H x 3" W x 5 1/4" L
- Flow range: 0.75-35 GPM
- Pressure Rating: 20-150 PSI
- Pressure Loss @ 30 gpm - 5 psi
- Solenoid: 24 VAC 60 cycle
- Inrush Current: 0.43 Amps
- Holding Current: 0.25 Amps

Part Number	Description	Ctn Qty
7001	1" Female thread or 1 1/4" Male slip	12
7001-SL	1" Female slip or 1 1/4" Male slip	12
7001-NFC	1" Female th or 1 1/4" Male sl NO FLOW CONTROL	12
7001-SL-NFC	1" Female sl or 1 1/4" Male sl NO FLOW CONTROL	12
7001-MXB	1" Male x Barb	12
7001-MXB-NFC	1" Male x Barb NO FLOW CONTROL	12

# K-Rain® Solenoid Valves



7101 and 7101-J Series

**Pro Series 150 1" Solenoid Valves**  
 Offer the professional a wide array of features and benefits.  
 Use for residential, light commercial, dirty water applications.

**Features:**

- Heavy duty, corrosion & UV resistant PVC construction increases the life of the valve.
- External bleed screw with removable metering pin allows for cleaning of the pin without disassembling the valve.
- **Threaded jar top** allows for quick removal of the cap for easy servicing. The glass filled nylon screw cap increases durability.
- **7101-J Series is direct replacement for Irritrol 2400.**
- Manual external bleed screw allows for manual operation in system start-up.
- Manual internal bleed through solenoid allows for manual operation without leaking water.
- Captured plunger solenoid allows for the solenoid to be removed without losing the plunger.
- 5 year Limited Warranty.



No tools needed with Jar Top



Manual External Bleed Screw

**Specifications:**

- Dimensions: 5 1/4" H x 3 1/8" W x 5" 5 1/4" H x 3" W x 4 3/8" Jar Top
- Flow range: 0.25-30 GPM
- Pressure Rating: 10-150 PSI
- Solenoid: 24 VAC 60 cycle
- Inrush Current: 0.4 Amps
- Holding Current: 0.2 Amps

**Performance Data:**

GPM	5	10	15	20	30
ProSeries 150 1" valve					
PSI LOSS	2.9	2.1	1.8	3.0	5.0
ProSeries 150 1" valve with jar top					
PSI LOSS	3.3	3.9	2.9	3.2	6.1

Part Number	Description	Ctn Qty
7101	1" Female thread NPT	12
7101-SL	1" Female Slip	12
7101-J	1" Female Thread Jar Top, NPT	12
7101-J-SL	1" Female Slip Jar Top	12



7102 and 7115 Series

**Pro Series 150 1 1/2" and 2" Solenoid Valves**  
 Feature a removable inlet cap to easily modify the configuration from globe to angle style.  
 Alternate to Irritrol 216b and 217b.

**Features:**

- Heavy duty, corrosion & UV resistant PVC construction increases the life of the valve.
- External bleed screw with removable metering pin allows for cleaning of the pin without disassembling the valve.
- Manual external bleed screw allows for manual operation in system start-up.
- Manual internal bleed through solenoid allows for manual operation without leaking water.
- Removable inlet cap allows for easy conversion from globe to angle style valve.
- Flow control allows for precise flow adjustment and manual shutoff.
- Captured plunger solenoid allows for the solenoid to be removed without losing the plunger.
- Heavy duty santoprene diaphragm design improves durability.
- 5 year Limited Warranty.



System Flexibility

**Specifications:**

- Dimensions: 1 1/2" valve: 8" H x 4 1/4" W x 5 1/2" L  
 2" valve: 8 7/8" H x 4 7/8" W x 6 1/3" L
- Flow range: 5-120 GPM
- Pressure Rating: 20-150 PSI
- Solenoid: 24 VAC 60 cycle
- Inrush Current: 0.4 Amps
- Holding Current: 0.2 Amps

**Performance Data:**

GPM		20	30	40	50	60	80	100	120
ProSeries 150 1 1/2" valve									
PSI LOSS	globe	3.0	2.6	2.3	2.9	4.1	5.5		
	angle	2.7	2.2	1.9	2.2	3.0	4.4		
ProSeries 150 2" valve									
PSI LOSS	globe	2.0	1.9	1.7	1.5	1.6	2.9	4.8	6.2
	angle	1.9	1.9	1.7	1.5	1.5	2.1	3.2	4.6

Part Number	Description	Ctn Qty
7115	1 1/2" Female Thread, NPT	6
7102	2" Female Thread, NPT	6



RPS46 Series



## RPS46 Controller

Designed for residential applications the RPS46 has four individual programs to allow for efficient watering on separate programs.

### Features:

- 4 and 6 station models for residential lawns.
- 4 fully independent programs allowing up to 4 starts per program, maximum of 16 starts per day.
- Indoor models with external transformer and plug.
- Seasonal adjustment allows adjustment of watering durations from 25% to 150%.
- Rain sensor ready - accepts rain sensor signal and is controlled by a bypass switch.
- Flexible manual operations to run a program, station or test.
- Battery back-up holds programs during power outages.
- 2 year Limited Warranty.

### Specifications:

- Dimensions: 5.7" H x 4.5" W x 1.7" D
- Station run times: 1 min - 12 hours 59 min.
- Programs: 4
- Start Times: 4 per program
- Water Schedules:
  - 7 day calendar w/ individual day selection
  - Odd/Even day or interval watering.
- Rain sensor ready inhibits automatic watering when wet conditions are detected by a rain sensor.
- Master valve / pump start signal.
- Automatic, semi-automatic and single station manual operation.

### Electrical Specifications:

- Electrical Power Supply: 110-120 VAC/ 60 Hz/ 230 VAC 50 Hz.
- Electrical Outputs: 24 Volt AC, 0.85 amp.
- To Solenoid Valves: 24 VAC 50/60 Hz 0.5 amp max.
- Total output load must not be exceeded by the valves and pump requirements.
- Overload protection: Standard 20mm 1 amp fuse.
- Power failure: 9 volt standard alkaline battery maintains clock and programs for up to 2 weeks.
- Wiring: The output circuits should be installed and protected in accordance with wiring rules.

Part Number	Description	Ctn Qty
3504	4 station, 110 volt external transformer	1
3506	6 station, 110 volt external transformer	1



PRO LC Series

## PRO LC Modular Controller

For residential and light commercial applications. Now wifi ready.



The Pro LC is available in fixed 4, 8, or 12 station outdoor models. Compact controllers offer an array of user-friendly features including easy to follow programming, full program screen display, large LCD display, rain/freeze sensor compatibility, seasonal adjust, buried valve locator and more.

### Specifications:

- Dimensions: 7" H x 7" W x 3.5" D
- Station run times: 1 sec - 6 hours for all stations
- Programs: 3
- Automatic Start Times: 4 per program
- Program Water Schedule:
  - Custom (day of the week)
  - Odd or Even (calendar days)

### Electrical Specifications:

- Power Input: 110 V AC +/- 10% 60 Hz
- Power Output: 24 V AC, 1.0 amp.
- Power Backup: Lithium coin-cell battery maintains time and date during primary power outages.
- Multi-Valve Operation: Up to 4 24V AC, 7VA solenoid valves.

### Features:

- Patented Full Program Display with one screen shows watering days, start times, stations and special programming.
- Now comes wi-fi ready. Wifi requires the BRIDGE module, sold separately.
- Short Circuit protection identifies and isolates stations with short circuits while programs continue.
- Station delay/overlap programming permits additional time between stations or dual operation for maintenance issues.
- AM/PM or 24 hour clock settings.
- System Test allows a full system check for valve operation.
- Manual Start allows manual program operation.
- Permanent Memory saves programs during power outages.
- Location feature aids in locating buried valves.
- Sensor bypass switch for global override.
- Master valve/pump start relay permits individual station programming.
- Dedicated Sensor enables direct sensor installation for maximum watering control.
- Default programming saves and recalls programs.
- Permanent day off watering feature.
- Seasonal adjust of watering times from 10-200% conserves water.

Part Number	Description	Ctn Qty
3104W	4 Station 110V AC internal transformer	1
3108W	8 Station 110V AC internal transformer	1
3112W	12 Station 110V AC internal transformer	1
3100-BRIDGE	ProLC WIFI bridge	1



**2000 Series**

## 2000 Series Single Station Controller

Single station controllers stay safe with rain-tight enclosures.



### Features:

- 24 hour programmable time dial with multiple start times and a wide variety of timing periods including skip-a-day 14 day program.
- UL approved components.
- Perfect for nursery or mist applications.
- 2200 models have 10 minute programmable dial with a wide variety of timing periods in multiples of 1.5, 3 and 6 seconds and multiple start times.
- 2500 models are prewired for easy connection of a rainswitch and allows manual override of rainswitch from controller face.
- 2520 model allows operation of 24 volt rainswitch and 2 hp 220 volt pump with same controller.
- 2 year Limited Warranty.

Part Number	Voltage Input	Voltage Output	Rating	Ctn Qty
<b>2100 Single Station Controllers</b>				
2110	110 VAC, 60 Hz	110 VAC, 60 Hz	Single Pole, up to 1 HP	6
2112	110 VAC, 60 Hz	110 VAC, 60 Hz	Double Pole, up to 2 HP	6
2114	110 VAC, 60 Hz	24 VAC, 30 VA	Built in Transformer	6
2120	220 VAC, 60 Hz	220 VAC, 60 Hz	Double Pole, up to 2 HP	6
<b>2200 Short Duration Single Station Controllers</b>				
2210	110 VAC, 60 Hz	110 VAC, 60 Hz	up to 1 HP	6
2214	110 VAC, 60 Hz	24 VAC, 30 VA	Built in transformer	6
<b>2500 Rainswitch Ready Controllers</b>				
2510	110 VAC, 60 Hz	110 VAC, 60 Hz	Double Pole, up to 2 HP	6
2514	110 VAC, 60 Hz	24 VAC, 30 VA	Built in transformer	6
2520	220 VAC, 60 Hz	220 VAC, 60 Hz	Double Pole, up to 2 HP	6



1500 Series

## 1500 Series Pump Start Relays

### Features:

- Industrial, rain tight, secure, rustproof industrial grade enclosure ensures long product life and deters tampering. UV resistant and shockproof.
- UL approved components.
- Large easy access enclosure provides easy accessibility during wiring.
- Enclosure has 8 recessed knock-outs to provide easy connections from any direction.
- 24 or 110 VAC coils for applications up to 10 hp.
- 4 plastic inset cover screws provide extra system security reduces liability and deters tampering.
- 2 year Limited Warranty.



### Specifications:

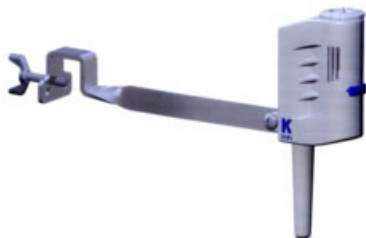
- Dimensions: 7" H x 5" W x 4 5/8" D
- 24 VAC, 60 Hz or 110 VAC, 60 Hz
- Double pole, single throw

	Model #1522	Model #1521	Model #1552	Model #1551
• Inrush:	35 VA	42 VA	60 VA	77 VA
• Sealed:	7.0 VA, 3 watts	8.5 VA, 3.6 watts	7 VA, 2.3 watts	10 VA, 4 watts
• Resistance ( $\pm 10\%$ ):	11 ohms	210 ohms	5.61 ohms	89.5 ohms
• Inductive:	20 amp	20 amp	40 amp	40 amp
• Resistive:	30 amp	30 amp	50 amp	50 amp
• Input 120 V:	up to 3 hp	up to 3 hp	up to 3 hp	up to 3 hp
• Input 240 V:	up to 3 hp	up to 3 hp	up to 5 hp	up to 5 hp



Part Number	Description	Volts	Ctn Qty
1522	3 hp pump start relay	24 VAC	8
1521	3 hp pump start relay	110 VAC	8
1552	5 hp pump start relay	24 VAC	8
1551	5 hp pump start relay	110 VAC	8

# K-Rain® Rain Sensor



3208

### 3208 Rain Sensor Features:

- Turns irrigation controllers into water managers by suspending watering during rain and/or freeze periods.
- Weather resistant. Made of UV resistant polymer for outdoor exposure.
- Maintenance free. No batteries to replace.
- 2 in 1 mounting provides flexible installation with standard flat and gutter mounting.
- HRFS includes a freeze sensor that prevents the system from starting when temperatures drop to 37° F or below.



Part Number	Description	Ctn Qty
3208-HRS	Hardwired Rain Sensor	1
3208-HRFS	Hardwired Rain/Freeze Sensor	1



4000 Series



## 4000 Series Indexing Valves

### Features:

- Automates multiple zoned residential and small commercial irrigations systems.
- Ideally suited for both city water and pump applications.
- ABS Polymer body construction is high strength, non-corrosive for long product life.
- Available in 4 and 6 outlet models to easily change from two to six watering zones.
- Operates at low 10 gpm at pressures of 25-75 psi.
- Simplicity of design and few moving parts ensures easy maintenance and long life.
- 2 year Limited Warranty.

### Specifications:

- ABS polymer construction
  - Dimensions: 5 3/4" H x 5 3/4" W
  - Flow Range: 10-40 gpm
  - Pressure rating: 25-75 psi
  - Pressure Loss
- |                |          |     |     |     |     |
|----------------|----------|-----|-----|-----|-----|
| 4 outlet valve | Flow gpm | 10  | 20  | 30  | 40  |
|                | PSI loss | 2.0 | 3.0 | 4.5 | 6.4 |
| 6 outlet valve | Flow gpm | 10  | 20  | 30  |     |
|                | PSI loss | 2.5 | 4.5 | 7.5 |     |

Part Number	Description	Zones	Ctn Qty
4400	4 outlet index valve	NO cam	8
4402	4 outlet index valve	2 zones	8
4403	4 outlet index valve	3 zones	8
4404	4 outlet index valve	4 zones	8
P6107042	2 zone cam only		5
P6107043	3 zone cam only		5
P6107044	4 zone cam only		5
4600	6 outlet index valve	NO cam	8
4602	6 outlet index valve	2 zones	8
4603	6 outlet index valve	3 zones	8
4604	6 outlet index valve	4 zones	8
4605	6 outlet index valve	5 zones	8
P6107063	3 zone cam only		5
P6107065	5 zone cam only		5
P6107066	6 zone cam only		5
P6200400	Cam screws - set of 2 per bag		5

# K-Rain® Indexing Valves



**KR6000 Series**

## KR6000 Series Indexing Valves

### Features:

- Automates multiple zoned residential and small commercial irrigations systems with high pressure.
- Recommended for pump fed or high-flow city water systems.
- Metal die-cast body is durable, long lasting and capable of high pressure applications.
- Available in 4 and 6 outlet models to easily change from two to six watering zones.
- Operates at 15 gpm at pressures of 25-150 psi.
- Built-in atmospheric vacuum breaker releases any vacuum created between the pump and valve on shut down.
- 2 year Limited Warranty.



### Specifications:

- Die-cast metal valve top/housing, ABS polymer outlets.
- Dimensions: 7" H x 8" W
- Inlet: 1 1/2" threaded NPT connection
- Outlet: Slip and glue connections to 1 1/2" PVC pipe
- Flow Range: 15-150 gpm
- Pressure rating: 25-150 psi
- Pressure Loss

4 outlet valve	Flow gpm	20	40	60	80	100
	PSI loss	2.5	3.5	5.0	7.5	10.0
6 outlet valve	Flow gpm	20	40	60	80	100
	PSI loss	3.0	4.0	6.0	9.0	11.0

Part Number	Description	Zones	Ctn Qty
KR6402	4 outlet index valve	2 zones	4
KR6403	4 outlet index valve	3 zones	4
KR6404	4 outlet index valve	4 zones	4
KR6605	6 outlet index valve	5 zones	4
KR6606	6 outlet index valve	6 zones	4



TFV and TFV-F Series



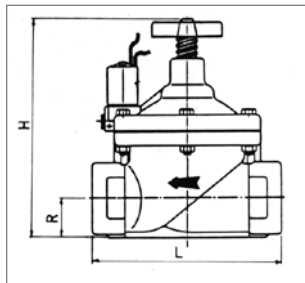
H701

### TFV Irrigation Solenoid Valve Features:

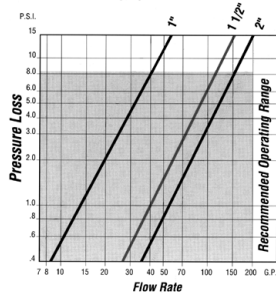
- Rugged glass-reinforced nylon construction.
- For residential, commercial and agricultural irrigation systems only.
- High strength, long life natural rubber diaphragm.
- In line globe design.
- Normally closed valve provides slow and smooth opening and closing.
- Quarter turn downstream bleed lever allows manual operation without external water spills.
- High flow rate with low head loss.
- Flow control available for exact water flow adjustment.
- Accurate operation over a wide range of pressure flows.
- In line maintenance - No need to remove valve from line for service.
- Standard and flow control models available.
- Available with standard 24 volt or optional 110 volt solenoid.

**TFV Series irrigation solenoid valves are designed and intended for use in turf irrigation applications only. While these valves may operate in applications other than they are intended, the AGI warranty will not apply for those uses.**

**\*\* NO RETURNS on any special order valves.**



Flow Chart For Fully Open Valves



### Specifications:

- Voltage .....24 Volts AC 3 Watts
- Current .....Inrush .48 AMPS;  
.....Holding .24 AMPS
- Max. Working Temp .....180°F
- Max. Operating Pressure .....150 PSI
- Min. Operating Pressure .....10 PSI
- Recommended minimum pressure differential .....7 PSI
- Valve Body .....Glass reinforced Nylon
- Inner Plastic Parts .....Acetal
- Diaphragm .....Natural rubber
- Seals .....Buna-N
- Metal Parts and Screws .....Stainless Steel 303

Part Number	Size (FPT)	Volts	Flow Control	Weight	Dimensions			Width	Ctn Qty
					L	H	R		
TFV100T	1"	24	No	12.5 oz	4 5/16	2 1/2	7/8	3 1/16	20
TFV100T110V	1"	110	No	12.5 oz	4 5/16	2 1/2	7/8	3 1/16	20
TFV100TF	1"	24	Yes	12.5 oz.	4 5/16	4 1/2	7/8	3 1/16	20
TFV100TF110V	1"	110	Yes	12.5 oz.	4 5/16	4 1/2	7/8	3 1/16	20
TFV150TF	1 1/2"	24	Yes	2.2 lbs.	6 5/16	7 3/16	15/16	5	5
TFV150TF110V	1 1/2"	110	Yes	2.2 lbs.	6 5/16	7 3/16	15/16	5	5
TFV200TF	2"	24	Yes	2.2 lbs,	6 3/4	7 3/8	1 1/2	5	5
TFV200TF110V	2"	110	Yes	2.2 lbs,	6 3/4	7 3/8	1 1/2	5	5

### Replacement Solenoid Assemblies

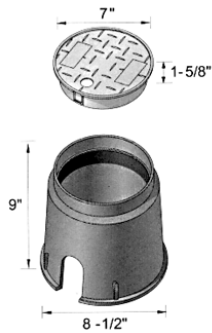
H701-24	24 volt
H701-110	110 volt



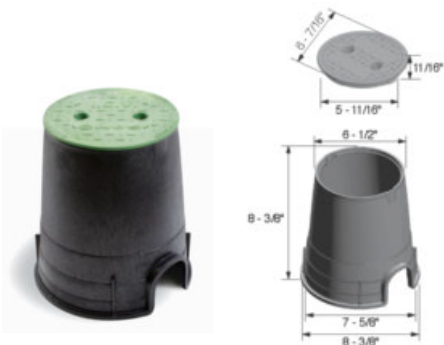


### Valve Box Features:

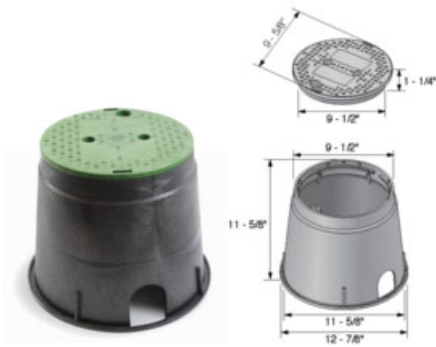
- Bodies made from structural polyolefin.
- Covers made with UV inhibitors to prevent discoloration and deterioration.
- Nestable for easy storage.
- 10" round and all rectangular boxes include brass insert so bolts may be added for easy lock down.
- ICV cover design, green covers for water applications.



**6" Round Economy**



**6" Round**

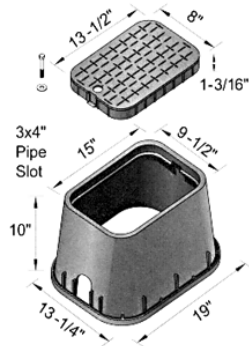


**10" Round Box**

Part Number	Description	Pallet Qty
<b>6" Round Economy Box with overlapping lip snap-on green cover</b>		
D109-G	Box w/ cover	600
D109GL	Cover only	1

<b>6" Round Box with overlapping lip snap-on green cover</b>		
107BCH	Box w/ cover	250
107CH	Cover only	1
107BCS	Box w/ sewer cover	250
107BC	ICV Box w/ cover	250
107C	ICV cover only	800

<b>10" Round Box with bayonet twist-on overlapping lip green cover</b>		
111BC	Box w/ cover	180
111C	Cover Only	1
111BCS	Box w/ sewer cover	180

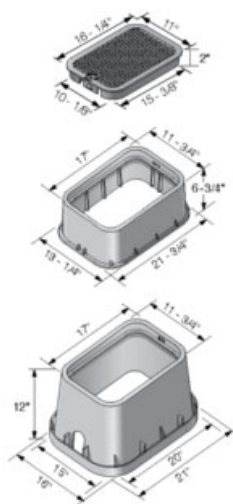


**10" Standard Rectangular  
Box**

## 10" x 15" Standard Rectangular Valve Box

- Standard drop-in green cover

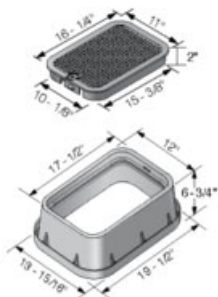
Part Number	Description	Pallet Qty
<b>10" x 15" Rectangular Valve Box</b>		
D1000-SG	10" x 15" x 10" Box w/ drop in cover	96
D1000-SGL	Cover Only	1



## 14" x 19" Standard Rectangular Valve Box

- Overlapping lip snap-on green cover

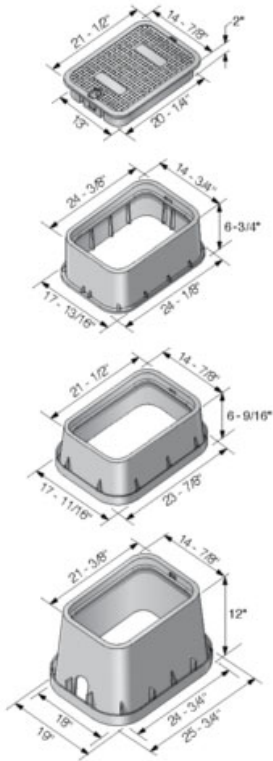
Part Number	Description	Pallet Qty
<b>14" x 19" Standard Rectangular Valve Box</b>		
113BC	14" x 19" Box w/ overlapping cover	78
113C	Overlapping Cover Only	1
113-6	Extension - no cover	49



## 14" x 19" x 6" Tapered Low Profile Rectangular Valve Box

- Overlapping lip snap-on green cover

Part Number	Description	Pallet Qty
<b>14" x 19" x 6" Tapered (Low Profile) Rectangular Box</b>		
115TBC	14" x 19" x 6" Tapered Box w/ cover	96
115	14" x 19" x 6" Tapered Extension w/ cover	49



### 13" x 20" Jumbo Rectangular Valve Box

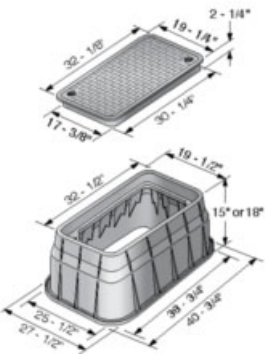
- Overlapping lip snap-on green cover
- "Water Meter" labeled cover available.

Part Number	Description	Pallet Qty
<b>13" x 20" Jumbo Rectangular Valve Box</b>		
117BC	13" x 20" Jumbo Box w/ cover	56
117C	Jumbo cover only	1
117CW	Jumbo Black "WATER METER" cover only	1
117B	13" x 20" Jumbo Box only	56
117-6	Jumbo Extension - no cover	32

### 13" x 20" x 6" Tapered Low Profile Jumbo Valve Box

- Overlapping lip snap-on green cover

Part Number	Description	Pallet Qty
<b>13" x 20" x 6" Tapered Low Profile Jumbo Valve Box</b>		
119TBC	13" x 20" x 6" Tapered Jumbo Box w/ cover	56
119	13" x 20" x 6" Tapered Jumbo Extension w/ cover	32



### 17" x 30" x 18" Pro-Spec Jumbo Rectangular Valve Box

- HDPE green body, green cover.
- Includes stainless steel bolts.
- LID dimensions: 32 1/8" x 19 1/4" outer rim.
- BOX dimensions: 32 1/2" x 19 1/2" top, 18" high, 40 3/8" x 27 1/2" base

Part Number	Description	Pallet Qty
<b>17" x 30" x 18" Jumbo Rectangular Box</b>		
326BCB	17" x 30" x 18" Jumbo Box w/ cover	10



94-11



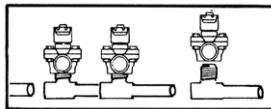
1376-010



HMT70-1G

## Irrigation Valve Manifold Tee Features:

- Uniformly spaced installation of manifolds for 1" irrigation valves.
- Designed to be mounted horizontally for electric globe valves or installed with the threaded outlet upright to accommodate angle valves.
- Schedule 40 PVC.



## 94-11, 1376 Series Manifold Tees:

- Aligns valves with integral notch and key design on 1376-010.
- Preset spacing of valves.
- Sch 40 wall thickness.
- Full flow 1" main line with 1" mpt (94-11) or 1" fpt (1376-010).
- Pressure rated at 315 psi, tested to over 1000 psi.

## HMT70-1G Manifold Tee:

- 1" IPS threads compatible with all 1" valves.
- Hand tight assembly in series for a uniformly spaced sprinkler manifold.
- Riser always positions correctly, self aligning when tightened until threads no longer show.
- Schedule 40 PVC with Buna N o-ring seal.

Part Number	Description	Ctn Qty
94-11	1" soc x 1" slip x 1" mpt	50
1376-010	1" soc x 1" slip x 1" fpt	6
HMT70-1G	1" fpt x 1" mpt x 1" mpt	12



HMRA1/2x3/4

## HMRA Adapter Features:

- 1/2" x 3/4" mipt Reducing Adapter

Part Number	Description	Ctn Qty
HMRA 1/2 x 3/4	1/2" x 3/4" MIPT Reducing Adapter	50

## P73 Cut-off Nipples Features:

- Patented design 4 in 1 nipple allows choice of length, excess becomes additional useable nipples.
- 100 PSI (max) and 201°F max temperature.
- Green

## Poly Cut-off Nipple, Riser Extension and Poly Nipple Features:

- Black poly

## SW500 Nipple Extractor Features:

- For 1/2" or 3/4" plastic nipples.
- Easy to remove broken plastic riser from sprinkler pipe and fittings.
- Insert tip and turn.



P73 Series



PCO Series



RE Series



RECO Series



PN Series



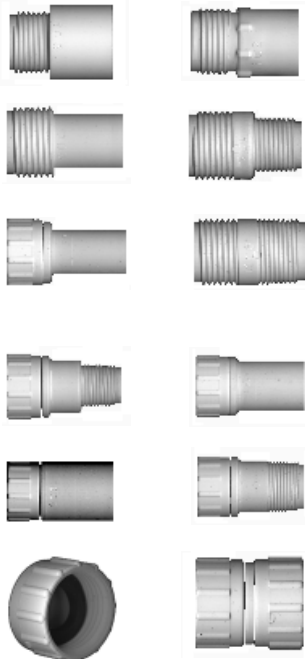
SW500C

Part Number	Description	Ctn Qty
<b>Cut-off Nipples</b>		
P73-1/2	1/2" MIPT x 1/2" MIPT x 6"	50
P73-3/4	3/4" mipt x 3/4" mipt x 6"	25
P73-3/4x1/2	Reducing, 3/4" mipt x 1/2" mipt, 6"	40
<b>Poly Cut-off Nipples</b>		
PCO1/2X4	1/2" x 4" MPT x MPT	500
PCO1/2X6	1/2" x 6" mpt x mpt	500
PCO1/2X3/4X6	1/2" x 3/4" x 6" mpt x mpt	400
PCO3/4X4	3/4" x 4" mpt x mpt	400
PCO3/4X6	3/4" x 6" mpt x mpt	400
<b>Riser Extensions</b>		
RE1/2X1	1/2" x 1" fpt x mpt	1000
RE1/2X1 1/2	1/2" x 1 1/2" fpt x mpt	1000
RECO1/2X4	1/2" x 4" fpt x mpt	500
RECO3/4XSHORT	3/4" x Short fpt x mpt	500
RECO3/4X4	3/4" x 4" fpt x mpt	400
<b>Poly Nipples</b>		
PN1/2XCLOSE	1/2" x close	1000
PN1/2X3/4XCLOSE	1/2" x 3/4" x close	1000
PN3/4XCLOSE	3/4" x close	1000
PN1/2X2	1/2" x 2"	1000
PN1/2X3	1/2" x 3"	500
PN1/2X4	1/2" x 4"	500
PN1/2X5	1/2" x 5"	500
PN1/2X6	1/2" x 6"	500
PN1/2X8	1/2" x 8"	50
PN1/2X10	1/2" x 10"	50
PN1/2X12	1/2" x 12"	50
PN1/2X18	1/2" x 18"	50
PN1/2X24	1/2" x 24"	50
<b>Nipple Extractors</b>		
SW500C	Stub Wrench	50

# Irrigation Installation Fittings

## Garden Hose Thread Fittings

- Material: PVC Type I White, or brass



Part Number	Size	Connections	Ctn Qty
<b>Garden Hose Thread Fittings - MALE</b>			
MHT-101	3/4" x 1/2"	MHT x Slip	25/200
MHT-102	3/4" x 1/2"	MHT x FIPT	25/200
MHT-103	3/4"	MHT x Slip	25/200
MHT-104	3/4" x 1/2"	MHT x MIPT	25/200
MHT-105	3/4" x 1/2"	MHT x Spigot	25/200
MHT-106	3/4"	MHT x MIPT	25/200

<b>Garden Hose Thread Fittings - FEMALE</b>			
FHT-201	3/4" x 1/2"	FHT x Spigot	25/200
FHT-202	3/4" x 1/2"	FHT x Slip	25/200
FHT-203	3/4" x 1/2"	FHT x MIPT	25/200
FHT-204	3/4"	FHT x MIPT	25/200
FHT-205	3/4"	FHT x Slip	25/200
FHT-206	3/4"	FHT x FIPT Swivel	25/200
BFHT-206	3/4"	FHT x FIPT Swivel BRASS	5/60
FHT-207	3/4"	FHT x FHT swivel	20/500
FHT-301	3/4"	FHT CAP	25/200



## Swing Riser Fittings for Funny Pipe

- For use with Funny Pipe and other thick walled 1/2" ID tubing.
- Use in drip irrigation, home sprinkler systems & other residential irr. applications.
- Spiral barb design allows quicker twist-on installation.
- Made of Celcon® plastic resin providing long term durability.

Part Number	Size	Connections	Ctn Qty
<b>90° Elbow</b>			
SRE1/2	1/2" x 1/2"	MIPT x funny pipe barb (FPB)	100/1500
SRE3/4	3/4" x 1/2"	MIPT x FPB	50/1000
<b>Male Adapter</b>			
SRMA1/2	1/2" x 1/2"	MIPT x FPB	100/500
SRMA3/4	3/4" x 1/2"	MIPT x FPB	50/500
<b>Coupling</b>			
SRC1/2	1/2" x 1/2"	FPB x FPB	50/500
<b>Tee</b>			
SRT1/2	1/2" x 1/2"	FPB x FPB x FPB	50/250

## LASCO Swing Riser Fittings for Funny Pipe with Double Helix design

Part Number	Size	Connections	Ctn Qty
<b>90° Elbow</b>			
3300-005	1/2" x 1/2"	MIPT x funny pipe barb	500
3300-007	3/4" x 1/2"	MIPT x funny pipe barb	500
<b>Male Adapter</b>			
3400-005	1/2" x 1/2"	MIPT x funny pipe barb	100
3400-007	3/4" x 1/2"	MIPT x funny pipe barb	100

## TRANSITION FITTINGS MARLEX™ STREET ELBOWS

- Ideal for use in swing joints.
- More than 27% heavier than other elbows, providing added strength & durability.



Part Number	Size	Connection	Ctn Qty
MSE1/2	1/2" x 1/2"	mipt x fipt	50/500
MSE3/4	3/4" x 3/4"	mipt x fipt	25/350
MSE1	1" x 1"	mipt x fipt	25/100

## Transition Fittings for Irrigation Applications

- Save money on material and labor cost.
- Faster, easier installation.
- Retaining spikes to prevent movement on Dawn fittings.
- Double helix design on LASCO fittings.

**Westlake**  
Pipe & Fittings

## Westlake Double Helix / KWIKADAPT SW Series Fitting Features:

- One piece design to go from Poly to swing/funny pipe.
- Use instead of a combo insert tee and a swing elbow.
- Available in 3/4" and 1".
- Westlake/LASCO double helix fitting pipe connection.



LASCO Double Helix  
SW Series

Part Number	Description	Ctn Qty
<b>LASCO - Poly to Swing/Funny Pipe Double Helix Design</b>		
1429-099	3/4" Insert x Swing /Funny Pipe Coupling	10
1429-129	1" Insert x Swing /Funny Pipe Coupling	10
1401-099	3/4" Insert x Swing/Funny Pipe Tee	10
1401-129	1" Insert x Swing/Funny Pipe Tee	10

# Swing Joint Assemblies, Poly Swing Pipe



## SWING JOINT ASSEMBLIES

- Fully assembled swing assemblies with funny pipe.
- Includes marlex elbow.
- Available in additional lengths or without marlex elbow by special order.

Part Number	Size x Length	Connection	Ctn Qty
SA125050	1/2" x 1/2" x 12"	mipt x mipt (marlex ell)	50
SA125075	1/2" x 3/4" x 12"	mipt x mipt (marlex ell)	50
SA127575	3/4" x 3/4" x 12"	mipt x mipt (marlex ell)	50



## POLY SWING PIPE

- Highly flexible.
- Use with swing riser fittings for a flexible swing joint assembly.
- LLDPE for increased flexibility.
- Up to 100 psi working pressure at 72°F.
- Shrink wrapped coils.



Part Number	Size	Ctn Qty
PSP50-100	1/2" x 100' roll	1



PSC Series



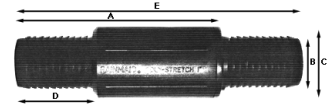
### Poly-Stretch Repair Coupling Features:

- For repair of polyethylene irrigation pipe.
- Avoid extra digging and buckled pipe.
- Couplings are made of ABS
- O-ring seal is made of Buna 70
- Pressure rated at 160 psi.
- Designed for irrigation operation pressures of polyethylene pipe and more.

### Instructions for Installation:

- Cut out approximately 4" of pipe where repair is needed.
- Place clamps over ends of pipe
- Insert end marked with "END FIRST" arrow by pushing and turning at same time.
- Insert other end by pushing & turning.
- Place clamps over ribbed ends & tighten.

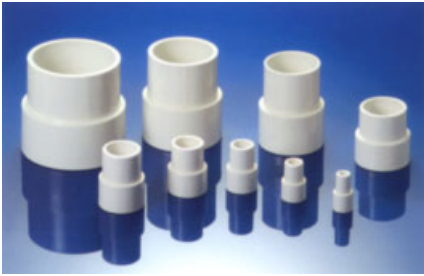
### Dimensions:



	A	B	C	D	E
3/4"	4.0	.575	.820	1.50	5.625
1"	4.0	.770	1.075	1.50	5.625
1 1/4"	5.0	1.109	1.415	1.755	6.70
1 1/2"	5.0	1.310	1.63	1.755	6.70
2"	5.0	1.825	2.125	1.755	6.70

### Part

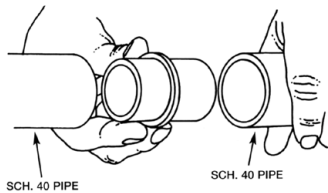
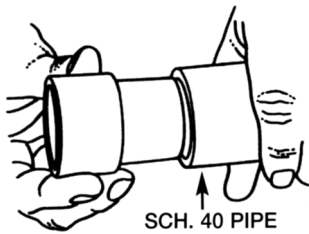
Number	Description	Ctn Qty
PSC07	3/4" Poly-stretch coupling	50
PSC10	1" Poly-stretch coupling	50
PSC12	1 1/4" Poly-stretch coupling	25
PSC15	1 1/2" Poly-stretch coupling	25
PSC20	2" Poly-stretch coupling	20



PEX Series



PIC Series



## Pipe Extender and Inside Connector Repair Fitting

### Features:

- For Sch 40 pipe.
- Saves labor.
- Invisible after installation.
- Permanent repair.
- Insignificant flow restriction.
- PVC Construction.
- PIC Series connects two pieces of Sch 40 pipe with flush joint.

Part Number	Description	IPS Size	Ctn Qty
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### Pipe Extender Repair Fitting

PEX50	Pipe Extender	1/2"	48
PEX75	Pipe Extender	3/4"	48
PEX100	Pipe Extender	1"	48
PEX125	Pipe Extender	1 1/4"	48
PEX150	Pipe Extender	1 1/2"	48
PEX200	Pipe Extender	2"	48
PEX250	Pipe Extender	2 1/2"	96
PEX300	Pipe Extender	3"	96
PEX400	Pipe Extender	4"	48

### Inside Connector Repair Fitting

PIC100	Inside Connector	1"	48
PIC150	Inside Connector	1 1/2"	48
PIC200	Inside Connector	2"	48



## Single Ear Pinch Clamps with Mechanical Interlock

### Features and Benefits:

- 300 series stainless steel material for excellent corrosion resistance.
- Mechanical interlock provides superior strength.
- Quick, easy installation provides a uniform 360° seal.
- Permanent seal is tamper proof.
- 61 series clamps are compatible with most clinching tools.
- Fits most popular polyethylene and polybutylene water service lines.
- Perfect for irrigation applications.

### To identify proper clamp size:

Measure actual OD of the hose on the fitting. Select the nominal size clamp nearest but always larger than the OD of the hose on the fitting.

### Quantities:

Bag quantities required.



61001-51



61001-52

Part Number	Cross Ref Part No.	Nominal Size	Open Diameter	Closed Diameter	Bag Qty	Ctn Qty
61198	15500011	3/4"	0.780	0.669	100	4000
61210	15500012	13/16"	0.827	0.717	100	4000
15500013	15500013	7/8"	0.780	0.890	100	4000
61256	15500015	1"	1.008	0.898	100	4000
61271	15500016	1 1/16"	1.067	0.945	100	4000
61316	15500019	1 1/4"	1.244	1.122	100	2500
61331	15500020	1 5/16"	1.303	1.181	100	2500
61410	15500026	1 5/8"	1.614	1.492	100	1500
61425	15500027	1 11/16"	1.673	1.551	100	1500
61485	15500031	1 7/8"	1.909	1.787	100	1500

61001-51 **Standard Jaw** Pinch tool  
for all size pinch clamps

10

61001-52 **Side Jaw** Pinch tool  
for all size pinch clamps

10

# Saddle Tees - Bronze, Plastic for Poly Pipe



DST Saddle Tee

## HARVARD CONTRACTOR'S Plastic Saddle Tees for Polyethylene Pipe:

- Heavy duty PVC saddle tee bodies with glass-reinforced nylon T-bolts and nuts.
- Molded barb seal for superior sealing to poly pipe. Barb seals deeper and tighter as the poly pipe pressurizes. No o-rings or gaskets needed.
- Withstands over 400 psi without leaking.
- 2 1/2" length protects seal area if pipe is kinked or damaged near saddle tee.
- **NO FLOW RESTRICTION**
- **NOT for use on RIGID PVC Pipe.**



Part Number	Pipe Size	Color	Outlet FPT	Bag/Ctn Qty
<b>HARVARD CONTRACTOR'S Plastic Saddle Tees</b>				
DST3/4x1/2	3/4"	Gray	1/2"	10/250
DST3/4x3/4	3/4"	Gray	3/4"	10/250
DST1x1/2	1"	White	1/2"	10/250
DST1x3/4	1"	White	3/4"	10/250
DST11/4x1/2	1-1/4"	White	1/2"	10/250
DST11/4x3/4	1-1/4"	White	3/4"	10/200



ND Series



HC Series

## HARVARD CONTRACTOR'S Plastic Saddle Tee Installation Tool

### Features:

#### ND Series Nut Driver:

- Glass-reinforced nylon for durability and strength.

#### HC Series Coring Tool:

- Spring-loaded self-retracting blade.
- Cuts a clean, burr-free, sawdust-free hole in seconds.



Part Number	Description	Ctn Qty
<b>Coring Tools/Nut Driver (for DST Series)</b>		
ND375	9/16" Nut Driver	1
HC45	Coring Tool for DST Saddle Tees w/1/2" fipt outlet	1
HC55	Coring Tool for DST Saddle Tees w/3/4" fipt outlet	1



HBST Saddle Tee

## HARVARD BRONZE Saddle Tees for Polyethylene Pipe:

- Bronze (81% copper) body to prevent material breakdown when buried.
- Stainless steel slotted screws.
- Leakproof, rubber gasket seal.
- **NOT for use on RIGID PVC pipe.**
- **DISCONTINUED items. Limited quantities available.**



Part Number	Pipe Size	Outlet FPT	Bag/Ctn Qty
<b>HARVARD Bronze Saddle Tees</b>			
HBST3/4X3/4	3/4"	3/4"	200
HBST11/4X1/2	1-1/4"	1/2"	120
HBST2X1/2	2"	1/2"	80

# Saddle Tees - PVC for Rigid Plastic Pipe



## Clamp-It™ PVC Saddle Tees for Rigid Pipe Features:

- Use for turf and irrigation systems, golf courses, athletic fields.
- Use for water service lines, mines, landfills.
- Provides full and equal support around the entire circumference of the pipe.
- Easy to install hinge and clamping wedge eliminates need for metal screws.
- Made of high impact type II PVC.
- EPDM O-ring seal.
- Rated at 200 PSI at 72°F.
- For use on cold water lines only, 2" - 8" PVC.



### Clamp-It™ PVC Saddle Tee



1. Place saddle on desired location and mark. Drill hole according to Drill Chart and deburr.



2. Place saddle over hole and attach easy clamping hinge around pipe.



3. Apply wedge half way by hand and finish off with a slight tap of a rubber mallet. Ideal for new installations or additions.



4. Saddle should be pressure tested prior to burial to assure system integrity. Long lasting EPDM o-ring seal assures a leak free installation. Note: wedge does not need to be flush with saddle body to seal.

### Saddle Drill Sizes:

Outlet size over 2 1/2" pipe	Drill Size
3/4" IPS Slip & Fipt	3/4"
1" IPS Slip & Fipt	1"
1 1/4" IPS Slip & Fipt	1 1/4"
1 1/2" IPS Slip & Fipt	1 3/8"

\* For 2 1/2" IPS saddle with a 2" outlet - Drill size must be 1 3/4" due to pipe restriction.

Part Number	IPS Pipe Size	Tap Size	Ctn Qty
<b>Clamp-It™ PVC Saddle Tees</b>			
421507	1 1/2	3/4 fipt	5
421510	1 1/2	1 fpt	5
422007	2	3/4 fipt	5
422010	2	1 fipt	5
422015	2	1-1/2 fipt	5
432010	2	1 slip	5
432012	2	1-1/4 slip	5
422507	2-1/2	3/4 fipt	5
432510	2-1/2	1 slip	5
432515	2-1/2	1-1/2 slip	5
432520	2-1/2	2 slip	5

See next page for 3" - 8" CLAMP IT Saddle Tees.

# Saddle Tees - PVC for Rigid Plastic Pipe



Part Number	IPS Pipe Size	Tap Size	Ctn Qty
453007	3	3/4 slip	5
453010	3	1 slip	5
453012	3	1-1/4 slip	5
453015	3	1-1/2 slip	5
453020	3	2 slip	5
443007	3	3/4 fipt	5
443010	3	1 fipt	5
443012	3	1-1/4 fipt	5
443015	3	1-1/2 fipt	5
443020	3	2 fipt	5
454010	4	1 slip	5
454015	4	1-1/2 slip	5
454020	4	2 slip	5
444007	4	3/4 fipt	5
444010	4	1 fipt	5
444012	4	1-1/4 fipt	5
444015	4	1-1/2 fipt	5
444020	4	2 fipt	5
456010	6	1 slip	5
456015	6	1-1/2 slip	5
456020	6	2 slip	5
446007	6	3/4 fipt	5
446010	6	1 fipt	5
446015	6	1-1/2 fipt	5
446020	6	2 fipt	5
458015	8	1-1/2 slip	5
458020	8	2 slip	5
448010	8	1 fipt	5
448020	8	2 fipt	5



**Clamp-It™ PVC  
Saddle Tee**



**Replacement O-rings available for all size PVC Saddle Tees.  
Contact your customer service representative for sizing and pricing.**

## 3M® DBO/B-6 and DBR/Y-6 Direct Burial Splice Connector Features:


**ISO 9002**

**HDBR/Y-6 Splice Tube  
and Connector**


*UL Listed for Direct Burial, Rated for 600V.*

*Replaces existing 3M DBY, DBR, DBY6, DBR6, DBR/Y.*

- Electrically connects two or more pre-stripped copper wires
- Provides moisture seal of the connections for the direct burial.
- Ideal for splicing wires and cables in irrigation and low voltage lighting systems.
- For residential, commercial, golf and other green industry applications.
- Smaller profile DBO/B-6 Series connectors are used when a larger size range of wires is not needed.
- May be installed above or below ground, inside a valve box or buried next to a valve-in-head sprinkler or light fixture.
- Not recommended for submersible applications.
- Each kit includes a 3M Performance Plus quick biting wire connector O/B+ or R/Y+ and a high impact, UV resistant polypropylene tube prefilled with moisture-resistant grease.
- The gel filled tube includes a lid that compresses the wire insulation when closed. This applies pressure, known as "strain relief" that keeps the connection inside the tube when the wires are pulled-upon. The connector tube includes channels for three sets of wires.
- 3M Electrical products are manufactured for AGI in an ISO 9002 facility.

### Specifications:

Maximum voltage rating:  
600 volts.

UL Listed, File No. E102356

UL Listed 98U1

UL Standard 486D

Application temperature:  
32°F to 120°F

Operating temperature:  
-40°F to 221°F.

### Construction:

Tube: Impact and UV

Resistant Polypropylene

Grease: 711B (DBO) Mineral Oil  
Based, EG3 (DBR)

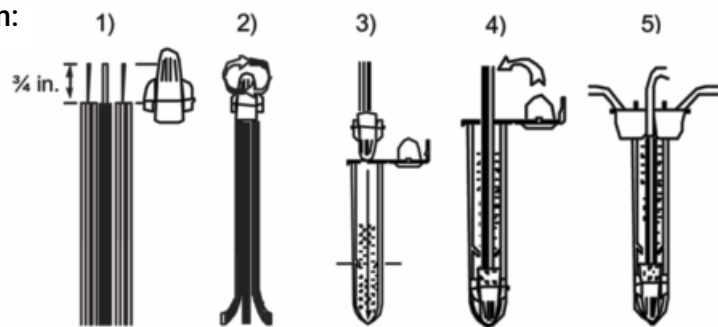
O/B+ or R/Y+ Connector: Steel  
Spring, Flame Retardant  
Insulator

### Common AWG Wire Combinations - CV only

DBO		DBR	
2-3 #16 sol/str	1 #18 to 1-2 #14 sol/str	2 - 7 #18	1-3 #12 w/ 1 #18
2-3 #14 sol/str	1 #18 to 1-2 #12 sol/str	2 - 6 #16	1-2 #10 w/ 1 #18
2 #12 sol/str	1 #16 to 1-2 #14 sol/str	2 - 4 #14	1-3 #12 w/ 1 #16
1 #14 to 1 #12 sol/str	1 #16 to 1-2 #12 sol/str	2 - 4 #12	1-2 #10 w/ 1 #12
		2 - 3 #10	1-2 #14 w/ 1 #18

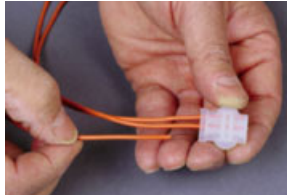
See complete chart of combinations on reverse.

### Installation:



Part Number	Description	Ctn Qty	Pallet Qty
CHDBO/B-6	3M® Direct Bury Splice Kit, Bulk	100	
CHDBR/Y-6	3M® Direct Bury Splice Kit, Bulk	100	7500
HDBR/Y2-6	3M® Direct Bury Splice Kit, 2 per package	25	-





SSP314

## 3M® SSP Series Insulation Displacement Connector

### Features:

- Used to electrically connect two or three wire ends & insulate the connection.
- #22-#14 AWG range on SSP314. SSP314 is UL and CSA listed.
- #22-#16 AWG range on SSP316.
- Also used for pigtail 2- and 3-wire splicing.
- Connector provides a moisture-resistant seal and is flame retardant.



Part Number	Description	Ctn Qty
SSP314	3M® Insulation Displacement Connectors #22-#14 AWG	1000
SSP316	3M® Insulation Displacement Connectors #22-#16 AWG	300



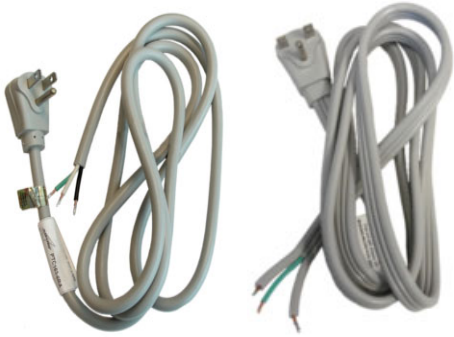
VL1

## CLICK-IT™ Valve Locator Features:

- Water resistant.
- Compact design.
- For location of solenoid valve quickly and easily.
- Practical and cost effective.

Part Number	Description	Ctn Qty
VL1	Click-It Valve Locator	10

# Electrical Installation Accessories

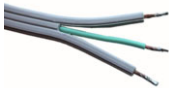


### HARVARD CONTRACTOR'S Power Cord Features:

- Three prong right angle (115V, 220V) molded plugs.
- 16 gauge, 3 conductor, 13 amp, 125 Volt rating.
- 14 gauge, 3 conductor, 15 amp, 250 Volt rating.
- Six foot cord length.
- Free end is split, stripped 3/8".
- SJTW Indoor/Outdoor rated.
- UL and CSA listed in US and Canada.

PTC163-6 Series

PTC143-6RA220



Part Number	Description	Wire Gauge	Volt Rating	Ctn Qty
PTC163-6ST	Straight plug cord	16	125 V	50
PTC163-6RA	Right angle plug cord	16	125 V	50
PTC143-6RA220	Right angle plug cord	14	250 V	50



### HARVARD CONTRACTOR'S Anchor Kit Features:



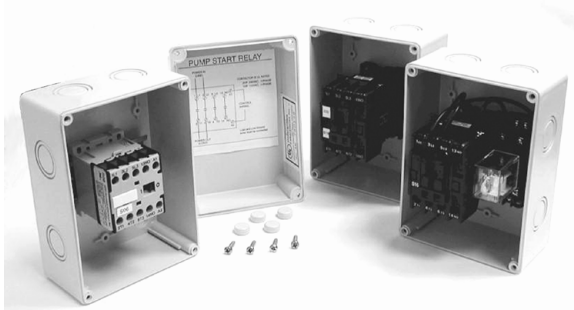
- Anchor kits complete with 100 plastic anchors, 100 screws and 1/4" masonry drill bit in a plastic case.
- Plastic gray ribbed anchors with lip design for electronic timer, pump start relay installations. Use with concrete block, brick and wallboard.
- Anchors have internal ribs for better centering of screws, locking lugs against pull and twist. Exterior design prevents fall out in overhead holes.
- Kit available with combination slotted/phillips head or tri-combination, slotted/phillips/hex head #10 x 1" screws.
- Kits complete with 1/4" x 4" masonry drill bit.
- Clear, unbreakable plastic case with molded-in hanging tab.



Combo Head

Tri Combo Head

Part Number	Description	Ctn Qty
AK10CSPR	Ribbed Combo Head	36
AK10TCR	Ribbed Tri Combo Head	36



### Pump Start Relay Features:

- Contactors are UL and UL Canada rated.
- Wide coil operating range, +10% to -30% of rated 60 hz coil voltage. Contactors will start on low voltage as follows:  
 Single phase: 24 VAC coil will pull in at 17 volts.  
 120 VAC coil will pull in at 84 volts.  
 230 VAC coil will pull in at 161 volts.
- One normally open auxiliary contact for powering a pilot light or alarm.
- Pressure screw terminals accept 18 through 10 AWG wire.
- Interposing relay units accept 24 through 10 AWG wire.
- Mechanical life up to 10 million operations.
- Long electrical life.
- PSR567 Series with interposing relay designed for low voltage and low controller output.



### Industrial Non-metallic Enclosure Features:

- Gray enclosures are UL, CSA listed.
- Rated NEMA 4X for indoor or outdoor use.
- To maintain 4X enclosure rating use required 4X connectors.
- Watertight, dust tight, oil tight and rain tight, High impact, durable insulated Noryl thermoplastic. Neoprene gasketed cover.
- Resistant to shock, corrosion, chemicals and atmospheric agents.
- 8 conduit knockouts (1/2", 3/4" NPT combination.)
- Service temperature -40° to 260°F.
- Stainless steel cover screws (max tightening torque: 7 in-lbs.)
- Sealing plugs provided to waterproof mounting screws.
- 5.9" H x 4.3" W x 3.9" D

Part Number	INPUT- PUMP START RELAY CONTACTOR			PUMP MOTOR HP (MAX)				
	Volts VAC	Req'd Coil Power Close	Coil Hold	Coil Voltage	Single Phase* 120 v	230 v	200/230v	Three Phase 460 v
<b>Direct Control Style Contactor</b>								
PSR575-230	230	70 VA	12 VA	230	2 HP	5 HP	7.5 HP	15 HP

**NOTES:**

1. Direct Control Style: The **input volts** must match the controller output voltage. The **contactor coil voltage** must match the controller voltage.
  2. Interposing Relay Style: The **input volts** must match the controller output voltage. The **contactor coil voltage** must match the controller voltage.
  3. VA=Volt Amps. To determine the operating amperage needed by the coil, divide the VA by the controller output voltage.
- \* Single Phase systems require **motor overload protection** within the motor.
- \*\* Three phase systems: May require **motor overload protection** within the motor. For proper **overload protection** consult the NEC (National Electrical Code) and local building codes before installation.

