

A wide range of pop-up heights suited for many applications.

sprays

## Features

- Available in 3", 4", 6" and 12" Models – Provides flexibility in system design
- Accepts Male Threaded Nozzles
- Stainless Steel Retraction Spring – Provides reliable retraction of the riser in all soil conditions
- Ratcheting 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
- Optional Water-Saving Check Valve – Eliminates low head drainage
- Optional Purple Cap for Reclaimed Water Use – Highly visible for identification of RCW systems

## Fast Facts

ALL	INLET: 1/2" (1,3 CM) FEMALE THREAD NPT	
73001	Retracted height:	4 3/4" (12,1 cm)
	Riser height:	2 1/2" (6,4 cm)
74001	Retracted height:	5 7/8" (14,9 cm)
	Riser height:	4" (10,2 cm)
76001	Retracted height:	8" (20,3 cm)
	Riser height:	5 7/8" (14,9 cm)
71201	Retracted height:	15 3/4" (40 cm)
	Riser height:	11 1/2" (29,2 cm)

## Specifications

- Pressure Rating: 20 – 70 PSI (1,4 – 4,8 bar)
- Inlet: 1/2" (1,3 cm) female thread NPT

## Models

- 73001 3" (7,6 cm) Pop-Up
- 74001 4" (10 cm) Pop-Up
- 76001 6" (15 cm) Pop-Up
- 71201 12" (30,5 cm) Pop-Up

## How to Specify with Options

MODELS	OPTIONS	
73001	-CV	▶ Check Valve
74001	-RCW	▶ Reclaimed Water Use
76001		
71201		

**Examples:** 73001-CV, 71201-RCW

## Accessories

See page 32



# Spray Accessories

## Models

### SHRUB ADAPTERS

- PSA** Shrub Adapter, Female Thread (for male nozzles)
- PFSA** Shrub Adapter, Male Thread (for female nozzles)
- PSA-RCW** RCW Shrub adapter, Female Thread, (for male nozzles)
- PFSA-RCW** RCW Shrub adapter, Male Thread, (for female nozzles)



## Models

### CHECK DISKS

- P53426** K-Spray™ Check Valve
- P53428** Pro-S™ Check Valve
- P53429** NP Spray™ Check Valve



## Models

### NOZZLE GUARD

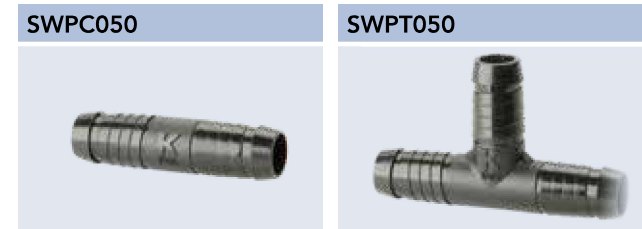
- 78000** Nozzle Guard  
(fits Pro-S™ Sprays)
- 78000-RCW** Nozzle Guard for Reclaimed Water\*  
(Does not include riser seal)

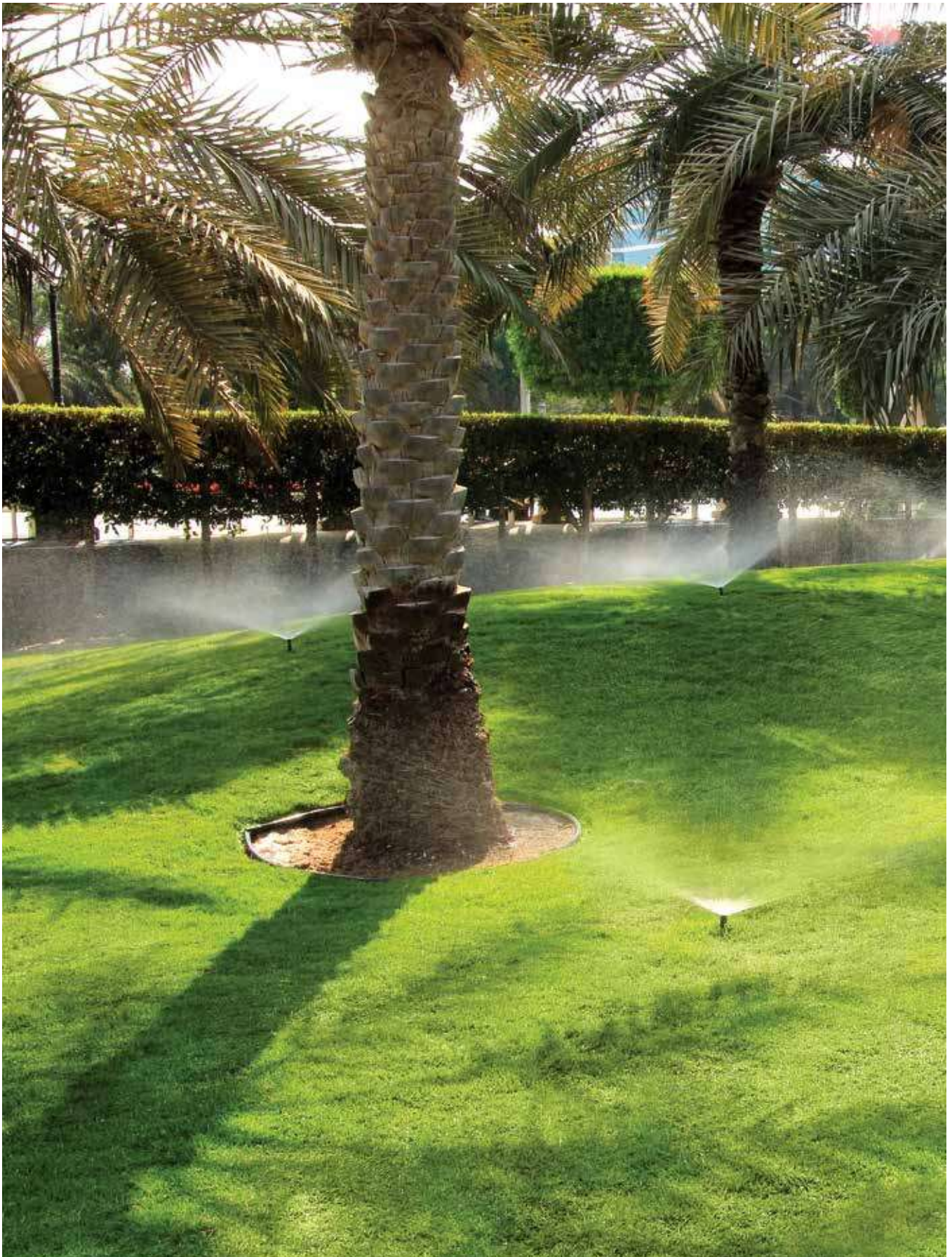


## Models

### SWING PIPE & FITTINGS

- KA05100** Swing Pipe, 1/2" x 100' Roll
- SWPC050** Swing Pipe, Coupling, 1/2" Barb
- SWPT050** Swing Pipe, Tee, 1/2" Barb
- SWPE050** Swing Pipe, Elbow, 1/2" MNPT x 1/2" Barb
- SWPE075** Swing Pipe, Elbow, 3/4" MNPT x 1/2" Barb
- SWPA060505** Swing Pipe Assembly, 6in,  
1/2" Inlet x 1/2" Outlet
- SWPA120505** Swing Pipe Assembly, 12in,  
1/2" Inlet x 1/2" Outlet
- SWPA127575** Swing Pipe Assembly, 12in,  
3/4" Inlet x 3/4" Outlet
- SWPA180505** Swing Pipe Assembly, 18in,  
1/2" Inlet x 1/2" Outlet





# nozzles



## Nozzle Comparison Chart

Designed with the utmost attention to detail, the versatility of the K-Rain nozzle line ensures that the professional has everything needed for a variety of residential and commercial terrains.

nozzles

	Rotary Nozzle Series	Fully Adjustable Rotary Nozzle	KVF Adjustable Nozzles	KV Adjustable Nozzles	Fixed Pattern Nozzles
	Full 360° Adjustable	Fully Adjustable	Fully Adjustable	Fully Adjustable	Fixed Spray
<b>Specifications</b>					
Arc	90° - 360°	80° - 360°	0° - 360°	0° - 360°	90° - 360°
Radius	13' - 30'	13' - 30'	6' - 18'	5' - 20'	6' - 17'
Thread	female	female	female	male	female & male
Special patterns	right, left & side strip				center, end, side & high/low strip
Special pattern dimensions	4' x 15' to 7' x 32'				4' x 12' to 15' x 5' x 32'
<b>Features</b>					
Color-coded	•	•	•	•	•
Automatic matched precipitation	•	•	•	•	•
Warranty	3 year	3 year	7 year	7 year	7 year

\* At optimal pressure

# Rotary Nozzle Series

Superior uniformity for demanding, low-precipitation applications.

## Features

- **Durable Design** – Molded with high-impact engineered resin for long life
- **Superior Uniformity** – Multi-stream technology provides outstanding coverage eliminating brown spots
- **Matched Precipitation** – Low precipitation rate is proportionate even after arc and radius adjustment
- **Water-smart Technology** – Reduce water usage up to 30% without compromising on results
- **Double pop-up Design** – Delivers additional protection from dirt/particulate intrusion in all conditions
- **Simple to Adjust** – Easiest adjustment in the industry
- **Color-Coded** – Easily identify 6 standard nozzles and 3 specialty nozzles in the field

Watch the video.  
Scan this code  
with your smart-  
phone camera.



nozzles



## Models

### RN100-90-210

90°-210° Adjustable  
8' - 15' (2,4 - 4,6 m)

■ Dark Green

### RN100-210-270

210°-270° Adjustable  
8' - 15' (2,4 - 4,6 m)

■ Medium Green

### RN100-FIX30

360° Fixed Pattern  
8' - 15' (2,4 - 4,6 m)

■ Light Green

### RN200-90-210

90°-210° Adjustable  
16' - 20' (4,9 - 6,1 m)

■ Dark Blue

### RN200-210-270

210°-270° Adjustable  
16' - 20' (4,9 - 6,1 m)

■ Medium Blue

### RN200-FIX30

360° Fixed Pattern  
16' - 20' (4,9 - 6,1 m)

■ Light Blue

### RN300-90-210

90°-210° Adjustable  
20' - 28' (6,1 - 8,5 m)

■ Dark Grey

### RN300-210-270

210°-270° Adjustable  
20' - 28' (6,1 - 8,5 m)

■ Medium Grey

### RN300-FIX30

360° Fixed Pattern  
20' - 28' (6,1 - 8,5 m)

■ Light Grey

### RNS-RES-515

Right End Strip  
■ Burnt Orange

### RNS-LES-515

Left End Strip  
■ Olive

### RNS-SS-530

Side Strip  
■ Brown

**Performance Data – U.S.**

RN100-ADJ-90-210 ■ Dark Green

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM	■	▲			
90°	30	13	0.23	0.51	0.59			
	35	14	0.25	0.48	0.56			
	40	15	0.26	0.44	0.51			
	45	15	0.28	0.48	0.55			
	50	16	0.30	0.45	0.52			
180°	30	13	0.45	0.51	0.59			
	35	14	0.48	0.47	0.54			
	40	14	0.51	0.50	0.58			
	45	15	0.55	0.47	0.54			
	50	15	0.59	0.50	0.58			
210°	30	13	0.52	0.51	0.59			
	35	14	0.56	0.47	0.54			
	40	14	0.58	0.49	0.56			
	45	14	0.62	0.52	0.60			
	50	15	0.68	0.50	0.58			

**Performance Data – U.S.**

RN100-ADJ-210-270 ■ Medium Green

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM	■	▲			
210°	30	13	0.52	0.51	0.59			
	35	14	0.56	0.47	0.54			
	40	14	0.58	0.49	0.56			
	45	14	0.62	0.52	0.60			
	50	15	0.68	0.50	0.53			
270°	30	13	0.68	0.51	0.59			
	35	14	0.71	0.46	0.54			
	40	14	0.75	0.49	0.57			
	45	14	0.79	0.52	0.60			
	50	15	0.86	0.49	0.57			

**Performance Data – U.S.**

RN100-FIX360 ■ Light Green

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM	■	▲			
360°	30	13	.88	.50	.58			
	35	14	.94	.46	.53			
	40	14	1.00	.49	.57			
	45	15	1.15	.49	.57			
	50	15	1.20	.51	.59			

**Performance Data – U.S.**

RN200-ADJ-90-210 ■ Dark Blue

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM	■	▲			
90°	30	19	0.38	0.41	0.47			
	35	19	0.42	0.45	0.52			
	40	20	0.45	0.43	0.50			
	45	20	0.48	0.46	0.53			
	50	21	0.51	0.45	0.51			
180°	30	19	0.75	0.40	0.46			
	35	20	0.80	0.39	0.44			
	40	20	0.85	0.41	0.47			
	45	21	0.90	0.39	0.45			
	50	21	1.00	0.44	0.50			
210°	30	18	0.89	0.45	0.52			
	35	19	0.95	0.43	0.50			
	40	20	1.00	0.41	0.48			
	45	20	1.05	0.43	0.50			
	50	21	1.10	0.41	0.48			

**Performance Data – U.S.**

RN200-ADJ-210-270 ■ Medium Blue

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM	■	▲			
210°	30	18	0.89	0.45	0.52			
	35	19	0.95	0.43	0.50			
	40	20	1.00	0.41	0.48			
	45	20	1.05	0.43	0.50			
	50	21	1.10	0.41	0.48			
270°	30	17	1.10	0.49	0.56			
	35	18	1.20	0.48	0.55			
	40	19	1.30	0.46	0.53			
	45	19	1.40	0.50	0.57			
	50	19	1.45	0.52	0.60			

**Performance Data – U.S.**

RN200-FIX360 ■ Light Blue

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM	■	▲			
360°	30	16	1.34	.50	.58			
	35	17	1.50	.50	.58			
	40	18	1.65	.49	.57			
	45	19	1.68	.45	.52			
	50	19	1.88	.50	.58			

**Performance Data – U.S.**

RN300-ADJ-90-210 ■ Dark Grey

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM	■	▲			
90°	30	27	0.90	0.48	0.55			
	35	27	0.95	0.50	0.58			
	40	28	1.00	0.49	0.57			
	45	28	1.05	0.52	0.60			
	50	29	1.10	0.50	0.58			
180°	30	26	1.65	0.47	0.54			
	35	26	1.75	0.50	0.58			
	40	27	1.86	0.49	0.57			
	45	27	1.95	0.51	0.59			
	50	28	2.10	0.52	0.60			
210°	30	25	1.81	0.48	0.55			
	35	26	1.95	0.48	0.55			
	40	27	2.15	0.49	0.56			
	45	27	2.30	0.52	0.60			
	50	28	2.40	0.51	0.58			

**Performance Data – U.S.**

RN300-ADJ-210-270 ■ Medium Grey

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM	■	▲			
210°	30	25	1.81	0.48	0.55			
	35	26	1.95	0.48	0.55			
	40	27	2.15	0.49	0.56			
	45	27	2.30	0.52	0.60			
	50	28	2.40	0.51	0.58			
270°	30	25	2.40	0.49	0.57			
	35	26	2.55	0.48	0.56			
	40	27	2.70	0.48	0.55			
	45	27	2.87	0.51	0.58			
	50	27	3.00	0.53	0.61			

**Performance Data – U.S.**

RN300-FIX360 ■ Light Grey

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM	■	▲			
360°	30	26	3.10	.44	.51			
	35	27	3.20	.42	.49			
	40	28	3.50	.43	.50			
	45	28	3.55	.44	.50			
	50	30	3.70	.40	.46			

**Performance Data – U.S.**

Special Patterns

RNS-RES-515 ■ Burnt Orange

PATTERN	NOZZLE	PRESSURE		W X L		FLOW	
		PSI	FEET	FEET	GPM		
RIGHT END STRIP		30		4 x 15	.30		
		35		5 x 15	.32		
		40		5 x 15	.35		
		45		6 x 16	.38		
		50		6 x 16	.40		

**Performance Data – U.S.**

Special Patterns

RNS-LES-515 ■ Olive

PATTERN	NOZZLE	PRESSURE		W X L		FLOW	
		PSI	FEET	FEET	GPM		
LEFT END STRIP		30		4 x 15	.30		
		35		5 x 15	.32		
		40		5 x 15	.35		
		45		6 x 15	.38		
		50		6 x 16	.40		

**Performance Data – U.S.**

Special Patterns

RNS-SS-530 ■ Brown

PATTERN	NOZZLE	PRESSURE		W X L		FLOW	
		PSI	FEET	FEET	GPM		
SIDE STRIP		30		4 x 29	.50		
		35		5 x 30	.55		
		40		5 x 30	.60		
		45		6 x 31	.65		
		50		7 x 32	.70		

# Rotary Nozzle Series

nozzles

## Performance Data - Metric

RNI00-ADJ-90-210 ■ Dark Green

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	Bar	METERS	L/M	■	▲
90°	2,1	4,0	0,85	13	15
	2,4	4,3	0,93	12	14
	2,8	4,6	0,98	11	13
	3,1	4,6	1,06	12	14
	3,4	4,9	1,14	11	13
180°	2,1	4,0	1,70	13	15
	2,4	4,3	1,82	12	14
	2,8	4,3	1,93	13	15
	3,1	4,6	2,08	12	14
	3,4	4,6	2,23	13	15
210°	2,1	4,0	1,97	13	15
	2,4	4,3	2,12	12	14
	2,8	4,3	2,20	12	14
	3,1	4,3	2,35	13	15
	3,4	4,6	2,57	13	15

## Performance Data - Metric

RNI00-ADJ-210-270 ■ Medium Green

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	Bar	METERS	L/M	■	▲
210°	2,1	4,0	1,97	13	15
	2,4	4,3	2,12	12	14
	2,8	4,3	2,20	12	14
	3,1	4,3	2,35	13	15
	3,4	4,6	2,57	13	15
270°	2,1	4,0	2,56	13	15
	2,4	4,3	2,69	12	14
	2,8	4,3	2,84	12	14
	3,1	4,3	2,99	13	15
	3,4	4,6	3,26	12	14

## Performance Data - Metric

RNI00-FIX360 ■ Light Green

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	Bar	METERS	L/M	■	▲
360°	2,1	4,0	3,33	13	15
	2,4	4,3	3,56	12	13
	2,8	4,3	3,79	12	14
	3,1	4,6	4,35	12	14
	3,4	4,6	4,54	13	15

## Performance Data - Metric

RN200-ADJ-90-210 ■ Dark Blue

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	Bar	METERS	L/M	■	▲
90°	2,1	5,8	1,44	10	12
	2,4	5,8	1,59	11	13
	2,8	6,1	1,70	11	13
	3,1	6,1	1,82	12	14
	3,4	6,4	1,93	11	13
180°	2,1	5,8	2,84	10	12
	2,4	6,1	3,03	10	11
	2,8	6,1	3,22	10	12
	3,1	6,4	3,41	10	12
	3,4	6,4	3,79	11	13
210°	2,1	5,5	3,37	12	13
	2,4	5,8	3,60	11	13
	2,8	6,1	3,79	10	12
	3,1	6,1	3,97	11	13
	3,4	6,4	4,16	10	12

## Performance Data - Metric

RN200-ADJ-210-270 ■ Medium Blue

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	Bar	METERS	L/M	■	▲
210°	2,1	5,5	3,37	12	13
	2,4	5,8	3,60	11	13
	2,8	6,1	3,79	10	12
	3,1	6,1	3,97	11	13
	3,4	6,4	4,16	10	12
270°	2,1	5,2	4,16	12	14
	2,4	5,5	4,54	12	14
	2,8	5,8	4,92	12	14
	3,1	5,8	5,30	13	15
	3,4	5,8	5,49	13	15

## Performance Data - Metric

RN200-FIX360 ■ Light Blue

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	Bar	METERS	L/M	■	▲
360°	2,1	4,9	5,07	13	15
	2,4	5,2	5,68	13	15
	2,8	5,5	6,25	12	14
	3,1	5,8	6,36	11	13
	3,4	5,8	7,12	13	15

## Performance Data - Metric

RN300-ADJ-90-210 ■ Dark Grey

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	Bar	METERS	L/M	■	▲
90°	2,1	8,2	3,41	12	14
	2,4	8,2	3,60	13	15
	2,8	8,5	3,79	12	14
	3,1	8,5	3,97	13	15
	3,4	8,8	4,16	13	15
180°	2,1	7,9	6,25	12	14
	2,4	7,9	6,62	13	15
	2,8	8,2	7,04	12	14
	3,1	8,2	7,38	13	15
	3,4	8,5	7,95	13	15
210°	2,1	7,6	6,85	12	14
	2,4	7,9	7,38	12	14
	2,8	8,2	8,14	12	14
	3,1	8,2	8,71	13	15
	3,4	8,5	9,08	13	15

## Performance Data - Metric

RN300-ADJ-210-270 ■ Medium Grey

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	Bar	METERS	L/M	■	▲
210°	2,1	7,6	6,85	12	14
	2,4	7,9	7,38	12	14
	2,8	8,2	8,14	12	14
	3,1	8,2	8,71	13	15
	3,4	8,5	9,08	13	15
270°	2,1	7,6	9,08	13	14
	2,4	7,9	9,65	12	14
	2,8	8,2	10,22	12	14
	3,1	8,2	10,86	13	15
	3,4	8,2	11,36	13	15

## Performance Data - Metric


RN300-FIX360 ■ Light Grey

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	Bar	METERS	L/M	■	▲
360°	2,1	7,9	11,73	11	13
	2,4	8,2	12,11	11	12
	2,8	8,5	13,25	11	13
	3,1	8,5	13,44	11	13
	3,4	9,1	14,01	10	12

## Performance Data - Metric

Special Patterns


RNS-RES-515 ■ Burnt Orange

PATTERN	NOZZLE	PRESSURE	W X L	FLOW
		Bar	METERS	L/M
RIGHT END STRIP		2,1	1,2 x 4,6	1,14
		2,4	1,5 x 4,6	1,21
		2,8	1,5 x 4,6	1,32
		3,1	1,8 x 4,9	1,43
		3,4	1,8 x 4,9	1,51

## Performance Data - Metric

Special Patterns


RNS-LES-515 ■ Olive

PATTERN	NOZZLE	PRESSURE	W X L	FLOW
		Bar	METERS	L/M
LEFT END STRIP		2,1	1,2 x 4,6	1,14
		2,4	1,5 x 4,6	1,21
		2,8	1,5 x 4,6	1,32
		3,1	1,8 x 4,6	1,43
		3,4	1,8 x 4,9	1,51

## Performance Data - Metric

Special Patterns

RNS-SS-530 ■ Brown

PATTERN	NOZZLE	PRESSURE	W X L	FLOW
		Bar	METERS	L/M
SIDE STRIP		2,1	1,2 x 8,8	1,80
		2,4	1,5 x 9,1	2,08
		2,8	1,5 x 9,1	2,30
		3,1	1,8 x 9,4	2,46
		3,4	2,1 x 9,7	2,64





nozzles

# Fully Adjustable Rotary Nozzle

The only fully adjustable rotary nozzle from 80° – 360°.

## Features

- Fully adjustable 80° to 360° – only one SKU per distance
- Female Threaded – replaces all female thread nozzles
- Hand adjustable – no tools needed
- Radius adjustment up to 30% – patented flow control
- Arc adjustment wet or dry – visual left start and right stop
- Double pop up system – superior dirt tolerance
- Three model options – distances from 13' to 30' (3,96 m to 9,14 m)
- Matched precipitation – superior efficiency in water and uniformity through all patterns and distances
- Low precipitation rate – reduces runoff and improves soil absorption
- Low flow rate – allows for more heads per zone, fewer zones
- Viscous dampening – ensures consistent application speed over varying flow rates and pressure ranges
- Multiple stream technology – for improved wind resistance
- Large filter – prolongs product life
- Can be installed in the same zone as rotors
- Three year limited warranty



## Models

### RN100-ADJ

80°-360° Adjustable  
13' – 15' (4 – 4,6 m),

 Green

### RN200-ADJ

80°-360° Adjustable  
16' – 19' (4,9 – 5,8 m),

 Blue

### RN300-ADJ

80°-360° Adjustable  
26' – 30' (7,9 – 9,1 m),

 Red



Watch the video.  
Scan this code  
with your smart-  
phone camera.

**RN100-ADJ**


13' - 15' (4-4,6 m)

**Performance Data - U.S.**

NOZZLE	PRESSURE	RADIUS	FLOW	PRECIP in/hr	
	PSI	FEET	GPM	■	▲
90°	30	13	.22	.50	.58
	40	14	.25	.49	.57
	50	15	.30	.51	.59
180°	30	13	.44	.50	.58
	40	14	.50	.49	.57
	50	15	.60	.51	.59
360°	30	13	.90	.51	.59
	40	14	1.00	.49	.57
	50	15	1.20	.51	.59

**Performance Data - Metric**

NOZZLE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	BAR	METERS	L/M	■	▲
90°	2,1	3,96	0,83	13	15
	2,8	4,27	0,95	12	14
	3,5	4,57	1,14	13	15
180°	2,1	3,96	1,67	13	15
	2,8	4,27	1,89	12	14
	3,5	4,57	2,27	13	15
360°	2,1	3,96	3,41	13	15
	2,8	4,27	3,79	12	14
	3,5	4,57	4,54	13	15

**RN200-ADJ**


16' - 19' (4,9-5,8 m)

**Performance Data - U.S.**

NOZZLE	PRESSURE	RADIUS	FLOW	PRECIP in/hr	
	PSI	FEET	GPM	■	▲
90°	30	16	0.34	0.51	0.59
	40	18	0.41	0.49	0.56
	50	19	0.47	0.50	0.58
180°	30	16	0.67	0.50	0.58
	40	18	0.83	0.49	0.57
	50	19	0.94	0.50	0.58
360°	30	16	1.35	0.51	0.59
	40	18	1.70	0.51	0.58
	50	19	1.90	0.51	0.58

**Performance Data - Metric**

NOZZLE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	BAR	METERS	L/M	■	▲
90°	2,1	4,88	1,29	13	15
	2,8	5,49	1,55	12	14
	3,5	5,79	1,78	13	15
180°	2,1	4,88	2,54	13	15
	2,8	5,49	3,14	12	14
	3,5	5,79	3,56	13	15
360°	2,1	4,88	5,11	13	15
	2,8	5,49	6,44	13	15
	3,5	5,79	7,19	13	15

**RN300-ADJ**


26' - 30' (7,9-9,1 m)

**Performance Data - U.S.**

NOZZLE	PRESSURE	RADIUS	FLOW	PRECIP in/hr	
	PSI	FEET	GPM	■	▲
90°	30	26	0.80	0.46	0.53
	40	27	0.90	0.48	0.55
	50	29	1.00	0.46	0.53
180°	30	26	1.50	0.43	0.49
	40	27	1.60	0.42	0.49
	50	29	1.80	0.41	0.48
360°	30	26	3.00	0.43	0.49
	40	27	3.20	0.42	0.49
	50	28	3.80	0.47	0.54

**Performance Data - Metric**

NOZZLE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	BAR	METERS	L/M	■	▲
90°	2,1	7,92	3,03	12	13
	2,8	8,23	3,41	12	14
	3,5	8,84	3,79	12	13
180°	2,1	7,92	5,68	11	12
	2,8	8,23	6,06	11	12
	3,5	8,84	6,81	10	12
360°	2,1	7,92	11,36	11	12
	2,8	8,23	12,11	11	12
	3,5	8,83	14,38	12	14

\*Data represents test results in zero wind. Adjust for local conditions.



# KVF Nozzles

Complete flexibility for working in a variety of terrains.

## Features

- Superior Spray Patterns
- Fits any male-thread spray body
- Color-coded for Easy Identification
- Uniform Water Distribution
- Water Efficient Low Flow Rates
- Extra Long Filters Extend Time Between Cleanings

## Performance Data - U.S.

KVF6 6' (1,8 m) Nozzle (red)

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP in/hr	
	PSI	FEET	GPM	■	▲
90°	20	5	0.36	5.54	6.40
	25	5	0.43	6.16	7.65
	<b>30</b>	<b>6</b>	<b>0.50</b>	<b>5.35</b>	<b>6.17</b>
180°	20	5	0.60	4.61	5.33
	25	5	0.66	5.07	5.86
	<b>30</b>	<b>6</b>	<b>0.74</b>	<b>3.95</b>	<b>4.56</b>
270°	20	5	0.80	4.10	4.74
	25	5	0.89	4.56	5.27
	<b>30</b>	<b>6</b>	<b>0.97</b>	<b>3.45</b>	<b>3.99</b>
360°	20	5	1.08	4.15	4.79
	25	5	1.25	4.81	5.55
	<b>30</b>	<b>6</b>	<b>1.37</b>	<b>3.66</b>	<b>4.22</b>
	40	6	1.62	4.33	4.99

## Performance Data - Metric

KVF6 6' (1,8 m) Nozzle (red)

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	BAR	METERS	L/M	■	▲
90°	1,38	1,5	1,36	141	163
	1,72	1,5	1,63	156	194
	<b>2,07</b>	<b>1,8</b>	<b>1,89</b>	<b>136</b>	<b>157</b>
180°	1,38	1,5	2,27	117	135
	1,72	1,5	2,50	129	149
	<b>2,07</b>	<b>1,8</b>	<b>2,80</b>	<b>100</b>	<b>116</b>
270°	1,38	1,5	3,03	104	120
	1,72	1,5	3,37	116	134
	<b>2,07</b>	<b>1,8</b>	<b>3,67</b>	<b>88</b>	<b>101</b>
360°	1,38	1,5	4,09	105	122
	1,72	1,5	4,73	122	141
	<b>2,07</b>	<b>1,8</b>	<b>5,19</b>	<b>93</b>	<b>107</b>
	2,76	1,8	6,13	110	127

## Performance Data - U.S.

KVF8 8' (2,4 m) Nozzle (green)

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP in/hr	
	PSI	FEET	GPM	■	▲
90°	20	9	0.39	1.85	2.14
	25	10	0.42	1.62	1.87
	<b>30</b>	<b>10</b>	<b>0.50</b>	<b>1.93</b>	<b>2.22</b>
180°	20	9	0.75	1.78	2.06
	25	9	0.85	2.02	2.33
	<b>30</b>	<b>10</b>	<b>1.00</b>	<b>1.93</b>	<b>2.22</b>
270°	20	9	1.15	1.82	2.10
	25	9	1.25	1.98	2.29
	<b>30</b>	<b>10</b>	<b>1.50</b>	<b>1.93</b>	<b>2.22</b>
360°	20	9	1.50	1.78	2.06
	25	9	1.70	2.02	2.33
	<b>30</b>	<b>10</b>	<b>2.00</b>	<b>1.93</b>	<b>2.22</b>
	40	10	2.30	2.21	2.56

## Performance Data - Metric

KVF8 8' (2,4 m) Nozzle (green)

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	BAR	METERS	L/M	■	▲
90°	1,38	2,7	1,48	47	54
	1,72	3,1	1,59	41	47
	<b>2,07</b>	<b>3,1</b>	<b>1,89</b>	<b>49</b>	<b>56</b>
180°	1,38	2,7	2,84	45	52
	1,72	2,7	3,22	51	59
	<b>2,07</b>	<b>3,1</b>	<b>3,79</b>	<b>49</b>	<b>56</b>
270°	1,38	2,7	4,35	46	53
	1,72	2,7	4,73	50	58
	<b>2,07</b>	<b>3,1</b>	<b>5,68</b>	<b>49</b>	<b>56</b>
360°	1,38	2,7	5,68	45	52
	1,72	2,7	6,44	51	59
	<b>2,07</b>	<b>3,1</b>	<b>7,57</b>	<b>49</b>	<b>56</b>
	2,76	3,1	8,71	56	65

## Models

### KVF6

6' (1,8 m) Nozzle,  
■ Red

### KVF8

8' (2,4 m) Nozzle,  
■ Green

### KVF10

10' (3 m) Nozzle,  
■ Blue

### KVF12

12' (3,7 m) Nozzle,  
■ Brown

### KVF15

15' (4,6 m) Nozzle,  
■ Black

### KVF17

17' (5,2 m) Nozzle,  
■ Grey

## Performance Data - U.S.

KVF10 10' (3 m) Nozzle (blue)

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP in/hr	
	PSI	FEET	GPM	■	▲
90°	20	10	0.45	1.73	2.00
	25	11	0.54	1.72	1.98
	<b>30</b>	<b>12</b>	<b>0.62</b>	<b>1.66</b>	<b>1.91</b>
180°	20	10	0.90	1.73	2.00
	25	11	1.10	1.75	2.02
	<b>30</b>	<b>12</b>	<b>1.25</b>	<b>1.67</b>	<b>1.93</b>
270°	20	10	1.35	1.73	2.00
	25	11	1.65	1.75	2.02
	<b>30</b>	<b>12</b>	<b>1.85</b>	<b>1.65</b>	<b>1.90</b>
360°	20	10	1.80	1.73	2.00
	25	11	2.20	1.75	2.02
	<b>30</b>	<b>12</b>	<b>2.50</b>	<b>1.67</b>	<b>1.93</b>
	40	12	2.80	1.87	2.16

## Performance Data - Metric

KVF10 10' (3 m) Nozzle (blue)

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	BAR	METERS	L/M	■	▲
90°	1,38	3,1	1,70	44	51
	1,72	3,4	2,04	44	50
	<b>2,07</b>	<b>3,7</b>	<b>2,35</b>	<b>42</b>	<b>49</b>
180°	1,38	3,1	3,41	44	51
	1,72	3,4	4,16	44	51
	<b>2,07</b>	<b>3,7</b>	<b>4,73</b>	<b>42</b>	<b>49</b>
270°	1,38	3,1	5,11	44	51
	1,72	3,4	6,25	44	51
	<b>2,07</b>	<b>3,7</b>	<b>7,00</b>	<b>42</b>	<b>48</b>
360°	1,38	3,1	6,81	44	51
	1,72	3,4	8,33	44	51
	<b>2,07</b>	<b>3,7</b>	<b>9,46</b>	<b>42</b>	<b>49</b>
	2,76	3,7	10,60	47	55

\*Data represents test results in zero wind. Radius may be reduced with the radius reduction screw. **Bold = recommended pressure of 30 PSI**

### Performance Data - U.S.

KVFI2 12' (3,7 m) Nozzle (brown)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM	■	▲			
90°	20	12	0.65	1.74	2.01			
	25	13	0.70	1.59	1.84			
	<b>30</b>	<b>14</b>	<b>0.80</b>	<b>1.57</b>	<b>1.81</b>			
	40	14	0.90	1.77	2.04			
180°	20	12	1.30	1.74	2.01			
	25	13	1.40	1.59	1.84			
	<b>30</b>	<b>14</b>	<b>1.60</b>	<b>1.57</b>	<b>1.81</b>			
	40	14	1.80	1.77	2.04			
270°	20	12	1.90	1.69	1.96			
	25	13	2.10	1.59	1.84			
	<b>30</b>	<b>14</b>	<b>2.40</b>	<b>1.57</b>	<b>1.81</b>			
	40	14	2.60	1.70	1.97			
360°	20	12	2.20	1.47	1.70			
	25	13	2.60	1.48	1.71			
	<b>30</b>	<b>14</b>	<b>3.10</b>	<b>1.52</b>	<b>1.76</b>			
	40	14	3.50	1.72	1.98			

### Performance Data - Metric

KVFI2 12' (3,7 m) Nozzle (brown)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP mm/hr	
	BAR	METERS	L/M	■	▲			
90°	1,38	3,7	2,46	44	51			
	1,72	4,0	2,65	40	47			
	<b>2,07</b>	<b>4,3</b>	<b>3,03</b>	<b>40</b>	<b>46</b>			
	2,76	4,3	3,41	45	52			
180°	1,38	3,7	4,92	44	51			
	1,72	4,0	5,30	40	47			
	<b>2,07</b>	<b>4,3</b>	<b>6,06</b>	<b>40</b>	<b>46</b>			
	2,76	4,3	6,81	45	52			
270°	1,38	3,7	7,19	43	50			
	1,72	4,0	7,95	40	47			
	<b>2,07</b>	<b>4,3</b>	<b>9,08</b>	<b>40</b>	<b>46</b>			
	2,76	4,3	9,84	43	50			
360°	1,38	3,7	8,33	37	43			
	1,72	4,0	9,84	38	43			
	<b>2,07</b>	<b>4,3</b>	<b>11,73</b>	<b>39</b>	<b>45</b>			
	2,76	4,3	13,25	44	50			

### Performance Data - U.S.

KVFI5 15' (4,6 m) Nozzle (black)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM	■	▲			
90°	20	14	0.75	1.47	1.70			
	25	15	0.85	1.45	1.68			
	<b>30</b>	<b>15</b>	<b>0.95</b>	<b>1.63</b>	<b>1.88</b>			
	40	17	1.10	1.47	1.69			
180°	20	14	1.40	1.38	1.59			
	25	15	1.70	1.45	1.68			
	<b>30</b>	<b>15</b>	<b>1.90</b>	<b>1.63</b>	<b>1.88</b>			
	40	17	2.30	1.53	1.77			
270°	20	14	2.25	1.47	1.70			
	25	15	2.55	1.45	1.68			
	<b>30</b>	<b>15</b>	<b>2.80</b>	<b>1.60</b>	<b>1.84</b>			
	40	17	3.40	1.51	1.74			
360°	20	14	3.00	1.47	1.70			
	25	15	3.40	1.45	1.68			
	<b>30</b>	<b>15</b>	<b>3.80</b>	<b>1.63</b>	<b>1.88</b>			
	40	17	4.60	1.53	1.77			

### Performance Data - Metric

KVFI5 15' (4,6 m) Nozzle (black)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP mm/hr	
	BAR	METERS	L/M	■	▲			
90°	1,38	4,3	2,84	37	43			
	1,72	4,6	3,22	37	43			
	<b>2,07</b>	<b>4,6</b>	<b>3,60</b>	<b>41</b>	<b>48</b>			
	2,76	5,2	4,16	37	43			
180°	1,38	4,3	5,30	35	40			
	1,72	4,6	6,44	37	43			
	<b>2,07</b>	<b>4,6</b>	<b>7,19</b>	<b>41</b>	<b>48</b>			
	2,76	5,2	8,71	39	45			
270°	1,38	4,3	8,52	37	43			
	1,72	4,6	9,65	37	43			
	<b>2,07</b>	<b>4,6</b>	<b>10,60</b>	<b>41</b>	<b>47</b>			
	2,76	5,2	12,87	38	44			
360°	1,38	4,3	11,36	37	43			
	1,72	4,6	12,87	37	43			
	<b>2,07</b>	<b>4,6</b>	<b>14,38</b>	<b>41</b>	<b>48</b>			
	2,76	5,2	17,41	39	45			

### Performance Data - U.S.

KVFI7 17' (5,2 m) Nozzle (grey)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM	■	▲			
90°	20	17	0.85	1.13	1.31			
	25	17	0.95	1.27	1.46			
	<b>30</b>	<b>18</b>	<b>1.05</b>	<b>1.25</b>	<b>1.44</b>			
	40	18	1.20	1.43	1.65			
180°	20	16	1.70	1.28	1.48			
	25	17	1.90	1.27	1.46			
	<b>30</b>	<b>18</b>	<b>2.10</b>	<b>1.25</b>	<b>1.44</b>			
	40	18	2.40	1.43	1.65			
270°	20	16	2.50	1.25	1.45			
	25	17	2.80	1.24	1.44			
	<b>30</b>	<b>18</b>	<b>3.15</b>	<b>1.25</b>	<b>1.44</b>			
	40	18	3.60	1.43	1.65			
360°	20	16	3.40	1.28	1.48			
	25	17	3.80	1.27	1.46			
	<b>30</b>	<b>18</b>	<b>4.20</b>	<b>1.25</b>	<b>1.44</b>			
	40	18	4.80	1.43	1.65			

### Performance Data - Metric

KVFI7 17' (5,2 m) Nozzle (grey)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP mm/hr	
	BAR	METERS	L/M	■	▲			
90°	1,38	5,2	3,22	29	33			
	1,72	5,2	3,60	32	37			
	<b>2,07</b>	<b>5,5</b>	<b>3,97</b>	<b>32</b>	<b>37</b>			
	2,76	5,5	4,54	36	42			
180°	1,38	4,9	6,44	32	37			
	1,72	5,2	7,19	32	37			
	<b>2,07</b>	<b>5,5</b>	<b>7,95</b>	<b>32</b>	<b>37</b>			
	2,76	5,5	9,08	36	42			
270°	1,38	4,9	9,46	32	37			
	1,72	5,2	10,60	32	36			
	<b>2,07</b>	<b>5,5</b>	<b>11,92</b>	<b>32</b>	<b>37</b>			
	2,76	5,5	13,63	36	42			
360°	1,38	4,9	12,87	32	37			
	1,72	5,2	14,38	32	37			
	<b>2,07</b>	<b>5,5</b>	<b>15,90</b>	<b>32</b>	<b>37</b>			
	2,76	5,5	18,17	36	42			



nozzles

\*Data represents test results in zero wind. Radius may be reduced with the radius reduction screw. **Bold = recommended pressure of 30 PSI.**

# KV Nozzles

Adjustable pattern, male-threaded nozzles.

## Features

- Superior Spray Patterns
- Fits K-Rain® K-Spray™ bodies
- Color-coded for Easy Identification
- Extra Long Filters Extend Time Between Cleanings

## Models

### KV8

8' (2,4 m) Nozzle,  
■ Green

### KV10

10' (3 m) Nozzle,  
■ Blue

### KV12

12' (3,7 m) Nozzle,  
■ Brown

### KV15

15' (4,6 m) Nozzle,  
■ Black

### KV17

17' (5,2 m) Nozzle,  
■ Grey

### Performance Data - U.S.

KV8 8' (2,4 m) Nozzle (Green)

ARC DEGREE	PRESSURE		RADIUS FEET	FLOW GPM	PRECIP in/hr	
	PSI	BAR			■	▲
90°	20	1,38	7	0,30	2,36	2,72
	<b>30</b>	<b>2,07</b>	<b>8</b>	<b>0,40</b>	<b>2,41</b>	<b>2,78</b>
	40	2,76	8	0,40	2,41	2,78
	50	3,45	9	0,40	1,9	2,2
180°	20	1,38	7	0,80	3,14	3,63
	<b>30</b>	<b>2,07</b>	<b>8</b>	<b>0,90</b>	<b>2,71</b>	<b>3,13</b>
	40	2,76	8	1,00	3,01	3,47
	50	3,45	9	1,10	2,61	3,02
270°	20	1,38	7	1,20	3,14	3,63
	<b>30</b>	<b>2,07</b>	<b>8</b>	<b>1,20</b>	<b>2,41</b>	<b>2,78</b>
	40	2,76	8	1,30	2,61	3,01
	50	3,45	9	1,50	2,38	2,74
360°	20	1,38	7	1,90	3,73	4,31
	<b>30</b>	<b>2,07</b>	<b>8</b>	<b>2,00</b>	<b>3,01</b>	<b>3,47</b>
	40	2,76	8	2,20	3,31	3,82
	50	3,45	9	2,30	2,73	3,16

### Performance Data - Metric

KV8 8' (2,4 m) Nozzle (Green)

ARC DEGREE	PRESSURE		RADIUS METERS	FLOW L/M	PRECIP mm/hr	
	BAR	PSI			■	▲
90°	1,38	20	2,1	1,14	60	69
	<b>2,07</b>	<b>30</b>	<b>2,4</b>	<b>1,51</b>	<b>61</b>	<b>70</b>
	2,76	40	2,4	1,51	61	70
	3,45	50	2,7	1,51	48	56
180°	1,38	20	2,1	3,03	80	92
	<b>2,07</b>	<b>30</b>	<b>2,4</b>	<b>3,41</b>	<b>69</b>	<b>79</b>
	2,76	40	2,4	3,79	76	88
	3,45	50	2,7	4,16	66	77
270°	1,38	20	2,1	4,54	80	92
	<b>2,07</b>	<b>30</b>	<b>2,4</b>	<b>4,54</b>	<b>61</b>	<b>70</b>
	2,76	40	2,4	4,92	66	76
	3,45	50	2,7	5,68	60	70
360°	1,38	20	2,1	7,19	95	109
	<b>2,07</b>	<b>30</b>	<b>2,4</b>	<b>7,57</b>	<b>76</b>	<b>88</b>
	2,76	40	2,4	8,33	84	97
	3,45	50	2,7	8,71	69	80

### Performance Data - U.S.

KV10 10' (3 m) Nozzle (Blue)

ARC DEGREE	PRESSURE		RADIUS FEET	FLOW GPM	PRECIP in/hr	
	PSI	BAR			■	▲
90°	20	1,38	12	0,70	1,87	2,16
	<b>30</b>	<b>2,07</b>	<b>12</b>	<b>1,10</b>	<b>2,94</b>	<b>3,40</b>
	40	2,76	13	1,40	3,19	3,68
	50	3,45	14	1,50	2,95	3,40
180°	20	1,38	11	1,40	2,23	2,57
	<b>30</b>	<b>2,07</b>	<b>11</b>	<b>1,60</b>	<b>2,55</b>	<b>2,94</b>
	40	2,76	12	1,80	2,41	2,78
	50	3,45	13	2,00	2,28	2,63
270°	20	1,38	10	1,70	2,18	2,52
	<b>30</b>	<b>2,07</b>	<b>10</b>	<b>2,00</b>	<b>2,57</b>	<b>2,96</b>
	40	2,76	11	2,30	2,44	2,82
	50	3,45	12	2,60	2,32	2,68
360°	20	1,38	10	2,20	2,12	2,45
	<b>30</b>	<b>2,07</b>	<b>10</b>	<b>2,70</b>	<b>2,60</b>	<b>3,00</b>
	40	2,76	11	3,00	2,39	2,76
	50	3,45	12	3,50	2,34	2,70

### Performance Data - Metric

KV10 10' (3 m) Nozzle (Blue)

ARC DEGREE	PRESSURE		RADIUS METERS	FLOW L/M	PRECIP mm/hr	
	BAR	PSI			■	▲
90°	1,38	20	3,7	2,65	47	55
	<b>2,07</b>	<b>30</b>	<b>3,7</b>	<b>4,16</b>	<b>75</b>	<b>86</b>
	2,76	40	4,0	5,30	81	93
	3,45	50	4,3	5,68	75	86
180°	1,38	20	3,4	5,30	56	65
	<b>2,07</b>	<b>30</b>	<b>3,4</b>	<b>6,06</b>	<b>65</b>	<b>75</b>
	2,76	40	3,7	6,81	61	70
	3,45	50	4,0	7,57	58	67
270°	1,38	20	3,1	6,44	55	64
	<b>2,07</b>	<b>30</b>	<b>3,1</b>	<b>7,57</b>	<b>65</b>	<b>75</b>
	2,76	40	3,4	8,71	62	71
	3,45	50	3,7	9,84	59	68
360°	1,38	20	3,1	8,33	54	62
	<b>2,07</b>	<b>30</b>	<b>3,1</b>	<b>10,22</b>	<b>66</b>	<b>76</b>
	2,76	40	3,4	11,36	61	70
	3,45	50	3,7	13,25	59	69

### Performance Data - U.S.

KV12 12' (3,7 m) Nozzle (Brown)

ARC DEGREE	PRESSURE		RADIUS FEET	FLOW GPM	PRECIP in/hr	
	PSI	BAR			■	▲
90°	20	1,38	12	1,10	2,94	3,40
	<b>30</b>	<b>2,07</b>	<b>13</b>	<b>1,30</b>	<b>2,96</b>	<b>3,42</b>
	40	2,76	14	1,50	2,95	3,40
	50	3,45	15	1,70	2,91	3,36
180°	20	1,38	11	1,60	2,55	2,94
	<b>30</b>	<b>2,07</b>	<b>12</b>	<b>1,80</b>	<b>2,41</b>	<b>2,78</b>
	40	2,76	13	2,20	2,51	2,89
	50	3,45	14	2,40	2,36	2,72
270°	20	1,38	11	1,90	2,02	2,33
	<b>30</b>	<b>2,07</b>	<b>12</b>	<b>2,40</b>	<b>2,14</b>	<b>2,47</b>
	40	2,76	12	2,60	2,32	2,68
	50	3,45	13	3,20	2,43	2,81
360°	20	1,38	11	2,80	2,23	2,57
	<b>30</b>	<b>2,07</b>	<b>12</b>	<b>3,10</b>	<b>2,07</b>	<b>2,39</b>
	40	2,76	12	3,50	2,34	2,70
	50	3,45	13	3,90	2,22	2,56

### Performance Data - Metric

KV12 12' (3,7 m) Nozzle (Brown)

ARC DEGREE	PRESSURE		RADIUS METERS	FLOW L/M	PRECIP mm/hr	
	BAR	PSI			■	▲
90°	1,38	20	3,7	4,16	75	86
	<b>2,07</b>	<b>30</b>	<b>4,0</b>	<b>4,92</b>	<b>75</b>	<b>87</b>
	2,76	40	4,3	5,68	75	86
	3,45	50	4,6	6,44	74	85
180°	1,38	20	3,4	6,06	65	75
	<b>2,07</b>	<b>30</b>	<b>3,7</b>	<b>6,81</b>	<b>61</b>	<b>70</b>
	2,76	40	4,0	8,33	64	73
	3,45	50	4,3	9,08	60	69
270°	1,38	20	3,4	7,19	51	59
	<b>2,07</b>	<b>30</b>	<b>3,7</b>	<b>9,08</b>	<b>54</b>	<b>63</b>
	2,76	40	3,7	9,84	59	68
	3,45	50	4,0	12,11	62	71
360°	1,38	20	3,4	10,60	56	65
	<b>2,07</b>	<b>30</b>	<b>3,7</b>	<b>11,73</b>	<b>53</b>	<b>61</b>
	2,76	40	3,7	13,25	59	69
	3,45	50	4,0	14,76	56	65

\*Data represents test results in zero wind. Radius may be reduced with the radius reduction screw. **Bold = recommended pressure of 30 PSI.**

**Performance Data - U.S.**

KV15 15' (4,6 m) Nozzle (Black)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM	■	▲			
90°	20	15	1.30	2.22	2.57			
	<b>30</b>	<b>17</b>	<b>1.60</b>	<b>2.13</b>	<b>2.46</b>			
	40	18	1.80	2.14	2.47			
	50	19	2.00	2.13	2.46			
180°	20	14	1.80	1.77	2.04			
	<b>30</b>	<b>15</b>	<b>2.30</b>	<b>1.97</b>	<b>2.27</b>			
	40	16	2.60	1.96	2.26			
	50	18	2.80	1.66	1.92			
270°	20	14	2.70	1.77	2.04			
	<b>30</b>	<b>15</b>	<b>3.20</b>	<b>1.83</b>	<b>2.11</b>			
	40	16	3.60	1.80	2.08			
	50	18	4.00	1.58	1.83			
360°	20	14	3.40	1.67	1.93			
	<b>30</b>	<b>15</b>	<b>4.20</b>	<b>1.80</b>	<b>2.07</b>			
	40	16	4.70	1.77	2.04			
	50	16	5.30	1.99	2.30			

**Performance Data - Metric**

KV15 15' (4,6 m) Nozzle (Black)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP mm/hr	
	BAR	METERS	L/M	■	▲			
90°	1,38	4,6	4,92	56	65			
	<b>2,07</b>	<b>5,2</b>	<b>6,06</b>	<b>54</b>	<b>62</b>			
	2,76	5,5	6,81	54	63			
	3,45	5,8	7,57	54	62			
180°	1,38	4,3	6,81	45	52			
	<b>2,07</b>	<b>4,6</b>	<b>8,71</b>	<b>50</b>	<b>58</b>			
	2,76	4,9	9,84	50	57			
	3,45	5,5	10,60	42	49			
270°	1,38	4,3	10,22	45	52			
	<b>2,07</b>	<b>4,6</b>	<b>12,11</b>	<b>46</b>	<b>53</b>			
	2,76	4,9	13,63	46	53			
	3,45	5,5	15,14	40	46			
360°	1,38	4,3	12,87	42	49			
	<b>2,07</b>	<b>4,6</b>	<b>15,90</b>	<b>46</b>	<b>53</b>			
	2,76	4,9	17,79	45	52			
	3,45	4,9	20,06	51	58			

**Performance Data - U.S.**

KV17 17' (5,2 m) Nozzle (Grey)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM	■	▲			
90°	20	18	1.70	2.02	2.33			
	<b>30</b>	<b>18</b>	<b>1.80</b>	<b>2.14</b>	<b>2.47</b>			
	40	19	2.00	2.13	2.46			
	50	20	2.20	2.12	2.45			
180°	20	17	1.90	1.27	1.46			
	<b>30</b>	<b>18</b>	<b>2.40</b>	<b>1.43</b>	<b>1.65</b>			
	40	19	2.60	1.39	1.60			
	50	19	2.90	1.55	1.79			
270°	20	16	2.90	1.45	1.68			
	<b>30</b>	<b>17</b>	<b>3.40</b>	<b>1.51</b>	<b>1.74</b>			
	40	18	4.00	1.58	1.83			
	50	18	4.50	1.78	2.06			
360°	20	15	3.50	1.50	1.73			
	<b>30</b>	<b>17</b>	<b>4.40</b>	<b>1.47</b>	<b>1.69</b>			
	40	17	4.90	1.63	1.88			
	50	18	5.40	1.60	1.85			

**Performance Data - Metric**

KV17 17' (5,2 m) Nozzle (Grey)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP mm/hr	
	BAR	METERS	L/M	■	▲			
90°	1,38	5,5	6,44	51	59			
	<b>2,07</b>	<b>5,5</b>	<b>6,81</b>	<b>54</b>	<b>63</b>			
	2,76	5,8	7,57	54	62			
	3,45	6,1	8,33	54	62			
180°	1,38	5,2	7,19	32	37			
	<b>2,07</b>	<b>5,5</b>	<b>9,08</b>	<b>36</b>	<b>42</b>			
	2,76	5,8	9,84	35	41			
	3,45	5,8	10,98	39	45			
270°	1,38	4,9	10,98	37	43			
	<b>2,07</b>	<b>5,2</b>	<b>12,87</b>	<b>38</b>	<b>44</b>			
	2,76	5,5	15,14	40	46			
	3,45	5,5	17,03	45	52			
360°	1,38	4,6	13,25	38	44			
	<b>2,07</b>	<b>5,2</b>	<b>16,66</b>	<b>37</b>	<b>43</b>			
	2,76	5,2	18,55	41	48			
	3,45	5,5	20,44	41	47			

\*Data represents test results in zero wind. Radius may be reduced with the radius reduction screw. **Bold = recommended pressure of 30 PSI.**



# Fixed Pattern Nozzles

Male-threaded, female-threaded and special patterns for system flexibility.

## Features

- Four distances plus eight fixed patterns provide an array of system configurations
- Color-coded for easy identification

## Models

### FN-8

8' (2,4 m) Female Nozzle, Green

### FN-10

10' (3,0 m) Female Nozzle, Blue

### FN-12

12' (3,7 m) Female Nozzle, Brown

### FN-15

15' (4,6 m) Female Nozzle, Black

### FN-15CS

Center Strip, Female

### FN-15ES

End Strip, Female

### FN-15SS

Side Strip, Female

### FN-15HL

High Low, Female

### P12

12' (3,7 M) Male Nozzle, Brown

### P15

15' (4,6 m) Male Nozzle, Black

### P15CS

Center Strip, Male

### P15ES

End Strip, Male

### P15SS

Side Strip, Male

### P15HL

High Low, Male

## Performance Data - U.S.

FN-8 8' (2,4 m) Nozzle, Female (green)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM					
0° FN-8Q	20	6	0.21	2.25	2.59			
	25	7	0.24	1.89	2.18			
	<b>30</b>	<b>8</b>	<b>0.26</b>	<b>1.56</b>	<b>1.81</b>			
180° FN-8H	20	6	0.42	2.25	2.59			
	25	7	0.47	1.85	2.13			
	<b>30</b>	<b>8</b>	<b>0.52</b>	<b>1.56</b>	<b>1.81</b>			
270° FN-8TQ	20	6	0.63	2.25	2.59			
	25	7	0.71	1.86	2.15			
	<b>30</b>	<b>8</b>	<b>0.78</b>	<b>1.56</b>	<b>1.81</b>			
360° FN-8F	20	6	0.86	2.30	2.66			
	25	7	0.96	1.89	2.18			
	<b>30</b>	<b>8</b>	<b>1.05</b>	<b>1.58</b>	<b>1.82</b>			

## Performance Data - U.S.

FN-10 10' (3 m) Nozzle, Female (blue)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM					
0° FN10Q	20	8	0.33	1.99	2.29			
	25	9	0.36	1.71	1.98			
	<b>30</b>	<b>10</b>	<b>0.39</b>	<b>1.50</b>	<b>1.73</b>			
180° FN10H	20	8	0.65	1.96	2.26			
	25	9	0.72	1.71	1.98			
	<b>30</b>	<b>10</b>	<b>0.79</b>	<b>1.52</b>	<b>1.76</b>			
270° FN10TQ	20	8	0.98	1.97	2.27			
	25	9	1.08	1.71	1.98			
	<b>30</b>	<b>10</b>	<b>1.18</b>	<b>1.51</b>	<b>1.75</b>			
360° FN10F	20	8	1.03	1.55	1.79			
	25	9	1.44	1.71	1.98			
	<b>30</b>	<b>10</b>	<b>1.58</b>	<b>1.52</b>	<b>1.76</b>			

## Performance Data - U.S.

FN-12 12' (3,7 m) Nozzle, Female (brown)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM					
0° FN-12Q	20	10	0.53	2.04	2.36			
	25	11	0.60	1.91	2.20			
	<b>30</b>	<b>12</b>	<b>0.65</b>	<b>1.74</b>	<b>2.01</b>			
180° FN-12H	20	10	1.05	2.02	2.33			
	25	11	1.20	1.91	2.20			
	<b>30</b>	<b>12</b>	<b>1.30</b>	<b>1.74</b>	<b>2.01</b>			
270° FN-12TQ	20	10	1.58	2.03	2.34			
	25	11	1.80	1.91	2.20			
	<b>30</b>	<b>12</b>	<b>1.95</b>	<b>1.74</b>	<b>2.01</b>			
360° FN-12F	20	10	2.10	2.02	2.33			
	25	12	2.40	1.91	2.20			
	<b>30</b>	<b>12</b>	<b>2.60</b>	<b>1.74</b>	<b>2.01</b>			

## Performance Data - U.S.

FN-15 15' (4,6 m) Nozzle, Female (black)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP in/hr	
	PSI	FEET	GPM					
0° FN-15Q	20	12	0.75	2.01	2.32			
	25	14	0.82	1.61	1.86			
	<b>30</b>	<b>15</b>	<b>0.92</b>	<b>1.57</b>	<b>1.82</b>			
180° FN-15H	20	12	1.50	2.01	2.32			
	25	14	1.65	1.62	1.87			
	<b>30</b>	<b>15</b>	<b>1.85</b>	<b>1.58</b>	<b>1.83</b>			
270° FN-15TQ	20	12	2.25	2.01	2.32			
	25	14	2.48	1.62	1.88			
	<b>30</b>	<b>15</b>	<b>2.78</b>	<b>1.59</b>	<b>1.83</b>			
360° FN-15F	20	12	3.00	2.01	2.32			
	25	14	3.30	1.62	1.87			
	<b>30</b>	<b>15</b>	<b>3.70</b>	<b>1.58</b>	<b>1.83</b>			

## Performance Data - Metric

FN-8 8' (2,4 m) Nozzle, Female (green)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP mm/hr	
	BAR	METERS	L/M					
0° FN-8Q	1,4	1,8	0,80	57	66			
	1,7	2,1	0,90	48	55			
	2,1	2,4	1,00	40	46			
180° FN-8H	1,4	1,8	1,60	57	66			
	1,7	2,1	1,80	47	54			
	2,1	2,4	2,00	40	46			
270° FN-8TQ	1,4	1,8	2,40	57	66			
	1,7	2,1	2,70	47	54			
	2,1	2,4	3,00	40	46			
360° FN-8F	1,4	1,8	3,30	58	67			
	1,7	2,1	3,60	48	55			
	2,1	2,4	4,00	40	46			

## Performance Data - Metric

FN-10 10' (3 m) Nozzle, Female (blue)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP mm/hr	
	BAR	METERS	L/M					
0° FN10Q	1,4	2,4	1,20	50	58			
	1,7	2,7	1,40	43	50			
	2,1	3,1	1,50	38	44			
180° FN10H	1,4	2,4	2,50	50	57			
	1,7	2,7	2,70	43	50			
	2,1	3,1	3,00	39	45			
270° FN10TQ	1,4	2,4	3,70	50	58			
	1,7	2,7	4,10	43	50			
	2,1	3,1	4,50	38	44			
360° FN10F	1,4	2,4	3,90	39	45			
	1,7	2,7	5,50	43	50			
	2,1	3,1	6,00	39	45			

## Performance Data - Metric

FN-12 12' (3,7 m) Nozzle, Female (brown)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP mm/hr	
	BAR	METERS	L/M					
0° FN-12Q	1,4	3,1	1,51	52	60			
	1,7	3,4	1,70	48	56			
	2,1	3,7	2,27	44	51			
180° FN-12H	1,4	3,1	2,27	51	59			
	1,7	3,4	3,03	48	56			
	2,1	3,7	3,79	44	51			
270° FN-12TQ	1,4	3,1	3,60	51	59			
	1,7	3,4	3,79	48	56			
	2,1	3,7	4,92	44	51			
360° FN-12F	1,4	3,1	6,06	51	59			
	1,7	3,4	6,81	48	56			
	2,1	3,7	7,95	44	51			

## Performance Data - Metric

FN-15 15' (4,6 m) Nozzle, Female (black)

ARC DEGREE	PRESSURE		RADIUS		FLOW		PRECIP mm/hr	
	BAR	METERS	L/M					
0° FN-15Q	1,4	3,7	2,80	51	59			
	1,7	4,3	3,10	41	47			
	2,1	4,6	3,50	40	46			
180° FN-15H	1,4	3,7	5,70	51	59			
	1,7	4,3	6,20	41	47			
	2,1	4,6	7,00	40	46			
270° FN-15TQ	1,4	3,7	8,50	51	59			
	1,7	4,3	9,40	41	48			
	2,1	4,6	10,50	40	46			
360° FN-15F	1,4	3,7	11,40	51	59			
	1,7	4,3	12,50	41	47			
	2,1	4,6	14,00	40	46			

\*Data represents test results in zero wind. Radius may be reduced with the radius reduction screw. **Bold = recommended pressure of 30 PSI.**



### Performance Data – U.S.

P12 12' (3,7 m) Nozzle, Male (brown)

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP in/hr	
	PSI	FEET	GPM	■	▲
90° P12Q25	20	11	0.40	1.27	1.47
	25	12	0.45	1.20	1.39
	<b>30</b>	<b>13</b>	<b>0.50</b>	<b>1.13</b>	<b>1.36</b>
	40	14	0.60	1.18	1.38
180° P12H	20	11	0.60	0.95	1.10
	25	12	0.80	1.07	1.23
	<b>30</b>	<b>13</b>	<b>0.80</b>	<b>0.91</b>	<b>1.13</b>
	40	14	1.00	0.98	1.19
270° P12TQ	20	11	0.95	1.01	1.16
	25	12	1.00	0.89	1.03
	<b>30</b>	<b>13</b>	<b>1.10</b>	<b>0.84</b>	<b>0.98</b>
	40	14	1.30	0.85	0.95
360° P12F	20	11	1.60	1.27	1.47
	25	12	1.80	1.20	1.39
	<b>30</b>	<b>13</b>	<b>1.90</b>	<b>1.08</b>	<b>1.36</b>
	40	14	2.10	1.18	1.38

### Performance Data – Metric

P12 12' (3,7 m) Nozzle, Male (brown)

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	BAR	METERS	L/M	■	▲
90° P12Q25	1,4	3,4	1,51	32	37
	1,7	3,7	1,70	30	35
	<b>2,8</b>	<b>4,3</b>	<b>2,27</b>	<b>30</b>	<b>35</b>
	3,4	4,6	2,65	30	35
180° P12H	1,4	3,4	2,27	24	28
	1,7	3,7	3,03	27	31
	<b>2,8</b>	<b>4,3</b>	<b>3,79</b>	<b>25</b>	<b>29</b>
	3,4	4,6	4,54	26	30
270° P12TQ	1,4	3,4	3,60	26	29
	<b>1,7</b>	<b>3,7</b>	<b>3,79</b>	<b>23</b>	<b>26</b>
	2,8	4,3	4,92	22	25
	3,4	4,6	5,49	21	24
360° P12F	1,4	3,4	6,06	32	37
	1,7	3,7	6,81	30	35
	<b>2,8</b>	<b>4,3</b>	<b>7,95</b>	<b>30</b>	<b>35</b>
	3,4	4,6	10,6	30	35

### Performance Data – U.S.

P15 15' (4,6 m) Nozzle, Male (black)

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP in/hr	
	PSI	FEET	GPM	■	▲
90° P15Q	20	13	0.60	1.37	1.58
	25	14	0.75	1.47	1.70
	<b>30</b>	<b>16</b>	<b>0.90</b>	<b>1.35</b>	<b>1.56</b>
	40	17	1.10	1.47	1.69
180° P15H	20	13	1.20	1.37	1.58
	25	14	1.35	1.33	1.53
	<b>30</b>	<b>16</b>	<b>1.60</b>	<b>1.20</b>	<b>1.39</b>
	40	17	1.90	1.27	1.46
270° P15TQ	20	13	1.85	1.40	1.62
	25	14	2.10	1.37	1.59
	<b>30</b>	<b>16</b>	<b>2.70</b>	<b>1.35</b>	<b>1.56</b>
	40	17	3.10	1.38	1.59
360° P15F	20	13	2.80	1.56	1.84
	25	14	3.20	1.57	1.81
	<b>30</b>	<b>16</b>	<b>4.20</b>	<b>1.58</b>	<b>1.82</b>
	40	17	4.60	1.30	1.77

### Performance Data – Metric

P15 15' (4,6 m) Nozzle, Male (black)

ARC DEGREE	PRESSURE	RADIUS	FLOW	PRECIP mm/hr	
	BAR	METERS	L/M	■	▲
90° P15Q	1,4	4,0	2,27	35	40
	1,7	4,3	2,84	37	43
	<b>2,8</b>	<b>4,9</b>	<b>3,41</b>	<b>34</b>	<b>40</b>
	3,4	5,2	4,16	37	43
180° P15H	1,4	4,0	4,54	35	40
	1,7	4,3	5,11	34	39
	<b>2,8</b>	<b>4,9</b>	<b>6,06</b>	<b>30</b>	<b>35</b>
	3,4	5,2	7,19	32	37
270° P15TQ	1,4	3,4	7,00	36	41
	1,7	4,3	7,95	35	40
	<b>2,8</b>	<b>4,9</b>	<b>10,22</b>	<b>34</b>	<b>40</b>
	3,4	5,2	11,73	35	40
360° P15F	1,4	3,4	10,60	40	47
	1,7	4,3	12,11	40	46
	<b>2,8</b>	<b>4,9</b>	<b>15,90</b>	<b>40</b>	<b>46</b>
	3,4	5,2	17,41	33	45

### Performance Data – U.S.

Special Patterns

NOZZLE PATTERN	NOZZLE	PRESSURE	W X L	FLOW
	Male #   Female#	PSI	Feet	GPM
Center Strip	P15CS   FN-15cs	20	4 x 24	0.8
		30	4 x 30	1.0
End Strip	P15ES   FN-15Es	20	4 x 12	0.4
		30	4 x 15	0.5
Side Strip	P15SS   FN-15SS	20	4 x 28	1.1
		30	5 x 32	1.3
High Strip	P15HL   FN-5HL	20 High:	14 x 28	2.5
		30 Low:	4 x 28	
		30 High:	15 x 32	3.0

### Performance Data – Metric

Special Patterns

NOZZLE PATTERN	NOZZLE	PRESSURE	W X L	FLOW
	Male #   Female#	BAR	Meters	L/M
Center Strip	P15CS   FN-15cs	1,5	1,2 x	3,0
		2,0	1,2 x	3,8
End Strip	P15ES   FN-15Es	1,5	1,2 x	1,5
		2,0	1,2 x	1,9
Side Strip	P15SS   FN-15SS	1,5	1,2 x	4,2
		2,0	1,5 x	4,9
High Strip	P15HL   FN-5HL	1,5 High:	4,3 x	9,5
		2,0 Low:	1,2 x	
		2,0 High:	4,6 x	11,4



nozzles

\*Data represents test results in zero wind. Radius may be reduced with the radius reduction screw. **Bold = recommended pressure of 30 PSI.**