





SECTION 01:  
**ROTORS**

# ROTORS

## ADVANCED FEATURES

### RELIABLE STRENGTH & DURABILITY

#### PRESSURE REGULATED BODY



Reduces high incoming pressure to prevent misting and allows nozzles to operate at peak efficiency. Lower pressure produces larger water droplets that fight the effects of wind.

PGP Ultra 10 cm, I-20 10 and 15 cm

#### STAINLESS STEEL RISER



For unforgiving soil conditions, unpredictable climates, or heavy foot traffic, stainless steel is the best choice.

Standard on I-40  
Optional on I-20 and I-25

#### DRAIN CHECK VALVE



The drain check valve keeps lines from draining when the system is shut off. This saves water, reduces liability, and increases system life.

PGJ, PGP Ultra, I-20, I-25, I-40, I-90

### VALUE-ADDED OPTIONS



#### OPPOSING NOZZLE 360° MODEL

The opposing nozzle design offers excellent water distribution. With primary and secondary nozzles on opposing sides of the turret, streams arc in opposite directions as the sprinkler rotates for outstanding mid-range and close-in watering.

I-40, I-90

### EASY IN-THE-FIELD IDENTIFICATION

#### RECLAIMED WATER ID



Purple caps indicate where non-potable irrigation water is being used.

PGJ, PGP® Ultra, I-20, I-25, I-40, I-90

#### COLOUR-CODED NOZZLES

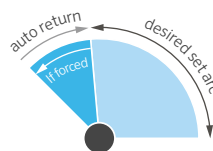


Nozzles are easier to differentiate in the field for simple installation and quick organisation.

I-25, I-40, I-90

### EASY AS-NEEDED ADJUSTMENTS

#### AUTOMATIC ARC RETURN & NON-STRIPPABLE DRIVE



This patented feature returns the turret to the original arc regardless of where it is turned. The non-strippable drive mechanism is protected from damage, ensuring protection from vandalism.

PGP Ultra, I-20, I-25, I-40

#### FLOSTOP® CONTROL



FloStop closes the flow of water from individual sprinkler heads while the system is running. This is ideal for changing nozzles or turning off specific heads during maintenance and construction.

I-20

#### HEADED AND SLOTTED SET SCREW



Use a slotted screwdriver or the Hunter wrench for easier and simpler adjustments as needed.

PGJ, PGP Ultra, I-20

## ROTORS COMPARISON CHART

QUICK SPECS		PGJ	SRM	PGP®-ADJ	PGP ULTRA	I-20	I-25	I-40	I-40-ON	I-90
INLET SIZE		½"	½"	¾"	¾"	¾"	1"	1"	1"	1½"
RADIUS	m	4.3-11.6	4.0-9.4	6.4-15.8	4.9-14.0	4.9-14.0	11.9-21.6	13.1-23.3	15.2-23.2	22.3-31.7
FLOW	m³/hr	0.13-1.23	0.08-0.82	0.10-3.22	0.07-3.23	0.07-3.23	0.82-7.24	1.63-6.84	2.75-7.76	6.7-19.04
	l/min	2.2-20.5	1.4-13.7	1.7-53.7	1.2-53.8	1.2-53.8	13.6-120.7	27.2-114.1	45.8-129.4	111.7-317.2
FEATURES										
RECOMMENDED PRESSURE RANGE	bar	1.7-3.8	1.7-3.8	1.7-4.5	1.7-4.5	1.7-4.5	2.5-7.0	2.5-7.0	2.5-7.0	5.5-8.0
	kPa	170-380	170-380	170-450	170-450	170-450	250-700	280-700	280-700	550-800
OPERATING PRESSURE RANGE	bar	1.4-7.0	1.4-7.0	1.4-7.0	1.4-7.0	1.4-7.0	2.8-6.9	2.5-7.0	2.5-7.0	5.0-8.0
	kPa	140-700	140-700	140-700	140-700	140-700	280-690	250-700	250-700	500-800
NOZZLE TRAJECTORY		15°	15°	25°	25°	25°	25°	25°	25°	22.5°
SPECIFIC NOZZLES		---	---	---	Optional	Optional	Pre-Installed	Pre-Installed	Pre-Installed	Pre-Installed
NOZZLE OPTIONS		8	6	27	34	34	12	6	6	16
WARRANTY		2 Years	1 Year	2 Years	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years
ADVANCED FEATURES										
LOW ANGLE NOZZLE CHOICES				●	●	●				●
AUTOMATIC ARC RETURN					●	●	●	●		
NON-STRIPPABLE DRIVE					●	●	●	●		
PART- AND FULL-CIRCLE IN ONE MODEL					●	●	●	●		
HEADED AND SLOTTED SET SCREW		●			●	●				
RECLAIMED WATER ID		●			●	●	●	●	●	●
AVAILABLE SHORT RADIUS NOZZLES					●	●				
FLOSTOP® CONTROL						●				
OPPOSING NOZZLE									●	●
STAINLESS STEEL RISER OPTION						●	●	●	●	
OPTIONAL OR FACTORY INSTALLED DRAIN CHECK VALVE		● (2 m)			● (2 m)	● (3 m)	● (3 m)	● (4.5 m)	● (4.5 m)	● (2 m)

# PGJ

Radius: **4.3 to 11.6 m**  
 Flow: **0.13 to 1.23 m<sup>3</sup>/hr; 2.2 to 20.5 l/min**  
 Inlet: **½"**

## FEATURES

- Models: Shrub, 10 cm, 15 cm, 30 cm
- Arc setting: 40° to 360°
- Nozzle choices: 8
- Nozzle range: 0.75 to 5.0
- Standard factory installed nozzle: 2.0 only
- Factory installed rubber cover
- Through-the-top arc adjustment
- QuickCheck™ arc mechanism
- Water lubricated gear-drive
- Warranty period: 2 years
- ▶ Headed and slotted set screw
- ▶ Optional reclaimed water ID
- ▶ Drain check valve (up to 2 m of elevation)

## OPERATING SPECIFICATIONS

- Radius: 4.3 to 11.6 m
- Flow: 0.13 to 1.23 m<sup>3</sup>/hr; 2.2 to 20.5 l/min
- Recommended pressure range: 1.7 to 3.8 bar; 170 to 380 kPa
- Operating pressure range: 1.4 to 7.0 bar; 140 to 700 kPa
- Precipitation rates: 15 mm/hr approximately
- Nozzle trajectory: 15° approximately
- ▶ = *Advanced Feature descriptions on page 18*



**PGJ Reclaimed**  
 Available as a factory installed option on all models

PGJ - SPECIFICATION BUILDER: ORDER 1 + 2 + 3		
1 Model	2 Standard Features	3 Feature Options
PGJ-00 = Shrub	Adjustable arc, 8 standard nozzles	<b>(blank)</b> = No option
PGJ-04 = 10 cm Pop-up		<b>V</b> = Drain check valve
PGJ-06 = 15 cm Pop-up		<b>R</b> = Drain check valve and reclaimed water ID (pop-up models only)
PGJ-12 = 30 cm Pop-up		

**Examples:**  
 PGJ-04 = 10 cm Pop-up, adjustable arc  
 PGJ-06 - V = 15 cm Pop-up, adjustable arc, with drain check valve  
 PGJ-12 - R = 30 cm Pop-up, adjustable arc, with drain check valve and reclaimed water ID

ROTORS



**PGJ-00**  
 Overall height: 18 cm  
 Exposed diameter: 3 cm  
 Inlet size: ½"



**PGJ-04**  
 Overall height: 18 cm  
 Pop-up height: 10 cm  
 Exposed diameter: 3 cm  
 Inlet size: ½"



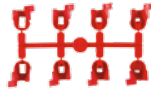
**PGJ-06**  
 Overall height: 23 cm  
 Pop-up height: 15 cm  
 Exposed diameter: 3 cm  
 Inlet size: ½"



**PGJ-12**  
 Overall height: 41 cm  
 Pop-up height: 30 cm  
 Exposed diameter: 3 cm  
 Inlet size: ½"

PGJ RED NOZZLE PERFORMANCE DATA							
Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</sup> /hr	l/min	■	▲
<b>.75</b> ● Red	1.7	170	4.3	0.13	2.2	14	17
	2.0	200	4.6	0.14	2.4	14	16
	2.5	250	4.9	0.16	2.7	13	15
	3.0	300	5.2	0.18	3.0	13	15
	3.5	350	5.2	0.19	3.2	14	17
	3.8	380	5.5	0.20	3.4	13	15
<b>1.0</b> ● Red	1.7	170	5.2	0.18	3.0	13	15
	2.0	200	5.5	0.19	3.2	13	15
	2.5	250	5.5	0.21	3.5	14	16
	3.0	300	5.8	0.23	3.8	14	16
	3.5	350	5.8	0.24	4.1	15	17
	3.8	380	6.1	0.25	4.2	14	16
<b>1.5</b> ● Red	1.7	170	6.1	0.27	4.5	15	17
	2.0	200	6.4	0.29	4.8	14	16
	2.5	250	6.4	0.32	5.4	16	18
	3.0	300	6.7	0.36	6.0	16	18
	3.5	350	6.7	0.39	6.4	17	20
	3.8	380	7.0	0.40	6.7	16	19
<b>2.0</b> ● Red	1.7	170	7.0	0.34	5.6	14	16
	2.0	200	7.3	0.37	6.2	14	16
	2.5	250	7.3	0.42	7.1	16	18
	3.0	300	7.6	0.48	8.0	17	19
	3.5	350	7.6	0.53	8.8	18	21
	3.8	380	7.9	0.56	9.3	18	20
<b>2.5</b> ● Red	1.7	170	7.9	0.46	7.6	15	17
	2.0	200	8.2	0.49	8.1	14	17
	2.5	250	8.2	0.54	9.0	16	18
	3.0	300	8.5	0.59	9.8	16	19
	3.5	350	8.5	0.63	10.5	17	20
	3.8	380	8.8	0.65	10.9	17	19
<b>3.0</b> ● Red	1.7	170	8.8	0.51	8.5	13	15
	2.0	200	9.1	0.56	9.3	13	15
	2.5	250	9.1	0.64	10.6	15	18
	3.0	300	9.4	0.72	12.0	16	19
	3.5	350	9.4	0.78	13.1	18	20
	3.8	380	9.8	0.82	13.7	17	20
<b>4.0</b> ● Red	1.7	170	9.8	0.80	13.3	17	19
	2.0	200	10.1	0.83	13.8	16	19
	2.5	250	10.1	0.89	14.8	18	20
	3.0	300	10.4	0.94	15.7	17	20
	3.5	350	10.4	0.98	16.3	18	21
	3.8	380	10.7	1.00	16.7	18	20
<b>5.0</b> ● Red	1.7	170	10.7	1.02	17.0	18	21
	2.0	200	11.0	1.06	17.6	18	20
	2.5	250	11.0	1.11	18.5	18	21
	3.0	300	11.3	1.17	19.4	18	21
	3.5	350	11.3	1.21	20.1	19	22
	3.8	380	11.6	1.23	20.5	18	21

PGJ NOZZLES



PGJ



Note:

All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.

# SRM


Radius: **4.0 to 9.4 m**  
 Flow: **0.08 to 0.82 m<sup>3</sup>/hr; 1.4 to 13.7 l/min**  
 Inlet: **½"**

## FEATURES

- Model: 10 cm
- Arc setting: 40° to 360°
- Nozzle choices: 6
- Nozzle range: 0.50 to 3.0
- Standard factory installed nozzle: 3.0 only
- Through-the-top arc adjustment
- QuickCheck™ arc mechanism
- Water lubricated gear-drive
- Warranty period: 1 year

## OPERATING SPECIFICATIONS

- Radius: 4.0 to 9.4 m
- Flow: 0.08 to 0.82 m<sup>3</sup>/hr; 1.4 to 13.7 l/min
- Recommended pressure range: 1.7 to 3.8 bar; 170 to 380 kPa
- Operating pressure range: 1.4 to 7.0 bar; 140 to 700 kPa
- Precipitation rates: 11 mm/hr approximately
- Nozzle trajectory: 15° approximately

SRM		SRM NOZZLES
Model	Description	
SRM-04	10 cm Pop-up, adjustable arc, 6 standard nozzles	

SRM



**SRM-04**  
 Overall height: 18 cm  
 Pop-up height: 10 cm  
 Exposed diameter: 3 cm  
 Inlet size: ½"

### SRM GREEN NOZZLE PERFORMANCE DATA

Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</sup> /hr	l/min	■	▲
<b>.50</b> ● Dk. Green	1.7	170	4.0	0.08	1.4	11	12
	2.0	200	4.3	0.09	1.6	10	12
	2.5	250	4.3	0.11	1.8	12	14
	3.0	300	4.6	0.12	2.0	12	13
	3.5	350	4.6	0.13	2.2	13	15
	3.8	380	4.9	0.14	2.3	12	14
<b>.75</b> ● Dk. Green	1.7	170	4.9	0.13	2.2	11	13
	2.0	200	5.2	0.14	2.4	11	12
	2.5	250	5.2	0.16	2.7	12	14
	3.0	300	5.5	0.18	3.0	12	14
	3.5	350	5.5	0.19	3.2	13	15
	3.8	380	5.8	0.20	3.4	12	14
<b>1.0</b> ● Dk. Green	1.7	170	5.8	0.18	2.9	11	12
	2.0	200	6.1	0.19	3.2	10	12
	2.5	250	6.1	0.21	3.5	11	13
	3.0	300	6.4	0.24	3.9	12	13
	3.5	350	6.4	0.25	4.2	12	14
	3.8	380	6.7	0.26	4.4	12	14
<b>1.5</b> ● Dk. Green	1.7	170	6.7	0.27	4.5	12	14
	2.0	200	7.0	0.29	4.8	12	14
	2.5	250	7.0	0.32	5.4	13	15
	3.0	300	7.3	0.36	6.0	13	16
	3.5	350	7.3	0.39	6.5	15	17
	3.8	380	7.6	0.40	6.7	14	16
<b>2.0</b> ● Dk. Green	1.7	170	7.3	0.35	5.8	13	15
	2.0	200	7.9	0.38	6.3	12	14
	2.5	250	7.9	0.43	7.1	14	16
	3.0	300	8.2	0.48	8.0	14	16
	3.5	350	8.2	0.53	8.8	16	18
	3.8	380	8.5	0.55	9.2	15	17
<b>3.0</b> ● Dk. Green	1.7	170	8.2	0.51	8.5	15	17
	2.0	200	8.5	0.56	9.3	15	18
	2.5	250	8.5	0.64	10.6	17	20
	3.0	300	9.1	0.72	12.0	17	20
	3.5	350	9.1	0.78	13.1	19	22
	3.8	380	9.4	0.82	13.7	18	21

**Note:**

All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.



Radius: **6.4 to 15.8 m**  
 Flow: **0.10 to 3.22 m<sup>3</sup>/hr; 1.7 to 53.7 l/min**  
 Inlet: **3/4"**

**FEATURES**

- Model: 10 cm
- Arc setting: 40° to 360°
- Factory installed rubber cover
- Through-the-top arc adjustment
- QuickCheck™ arc mechanism
- Water lubricated gear-drive
- Nozzle choices: 27 total
- Nozzle racks: Red, Blue, Grey Low Angle
- Warranty period: 2 years



**PGP-ADJ**  
 Overall height: 19 cm  
 Pop-up height: 10 cm  
 Exposed diameter: 4 cm  
 Inlet size: 3/4"

**ROTORS**

**OPERATING SPECIFICATIONS**

- Radius: 6.4 to 15.8 m
- Flow: 0.10 to 3.22 m<sup>3</sup>/hr; 1.7 to 53.7 l/min
- Recommended pressure range: 1.7 to 4.5 bar; 170 to 450 kPa
- Operating pressure range: 1.4 to 7.0 bar; 140 to 700 kPa
- Precipitation rates: 10 mm/hr approximately
- Nozzle trajectory: Standard = 25°, Low Angle = 13°



**PGP-ADJ**  
 Easy arc and radius adjustment

<b>PGP-ADJ – SPECIFICATION BUILDER: ORDER 1 + 2 + 3</b>		
<b>1</b> Model	<b>2</b> Standard Features	<b>3</b> Feature Options
<b>PGP-ADJ-B</b> = 10 cm Pop-up	Adjustable arc with Blue nozzle rack	<b>1.5 to 4.0</b> = Factory-installed Blue nozzle number
<b>PGP-ADJ</b> = 10 cm Pop-up	Adjustable arc with Red nozzle rack	<b>#5 to #8</b> = Factory-installed Red nozzle number  <b>#7</b> = Factory-installed Red nozzle number

**Examples:**  
 PGP-ADJ = 10 cm Pop-up, adjustable arc  
 PGP-ADJ-B - 3.0 = 10 cm Pop-up, adjustable arc, and #3.0 Blue nozzle  
 PGP-ADJ - 07 = 10 cm Pop-up, adjustable arc, and #7 Red nozzle

PGP Red Nozzle





ROTORS

PGP® BLUE NOZZLE PERFORMANCE DATA							
Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m³/hr	l/min	■	▲
1.5 ● Blue	1.7	170	8.8	0.27	4.5	7	8
	2.0	200	9.1	0.29	4.8	7	8
	2.5	250	9.4	0.32	5.4	7	8
	3.0	300	9.8	0.35	5.9	7	9
	3.5	350	9.8	0.38	6.4	8	9
	4.0	400	9.8	0.41	6.8	9	10
4.5	450	9.4	0.43	7.2	10	11	
2.0 ● Blue	1.7	170	10.1	0.32	5.4	6	7
	2.0	200	10.1	0.35	5.8	7	8
	2.5	250	10.1	0.39	6.5	8	9
	3.0	300	10.4	0.43	7.2	8	9
	3.5	350	10.4	0.47	7.8	9	10
	4.0	400	10.4	0.50	8.3	9	11
4.5	450	10.4	0.53	8.8	10	11	
2.5 ● Blue	1.7	170	10.1	0.39	6.6	8	9
	2.0	200	10.4	0.43	7.1	8	9
	2.5	250	10.7	0.48	8.0	8	10
	3.0	300	10.7	0.54	8.9	9	11
	3.5	350	10.7	0.58	9.7	10	12
	4.0	400	10.7	0.62	10.4	11	13
4.5	450	10.7	0.66	11.1	12	13	
3.0 ● Blue	1.7	170	10.7	0.50	8.4	9	10
	2.0	200	10.7	0.54	9.1	10	11
	2.5	250	11.0	0.61	10.2	10	12
	3.0	300	11.6	0.68	11.4	10	12
	3.5	350	11.9	0.74	12.3	10	12
	4.0	400	11.9	0.79	13.2	11	13
4.5	450	11.9	0.84	14.0	12	14	
4.0 ● Blue	1.7	170	11.3	0.68	11.3	11	12
	2.0	200	11.6	0.73	12.2	11	13
	2.5	250	11.9	0.81	13.6	12	13
	3.0	300	12.2	0.90	15.0	12	14
	3.5	350	12.2	0.97	16.2	13	15
	4.0	400	12.5	1.04	17.3	13	15
4.5	450	12.5	1.10	18.3	14	16	
5.0 ● Blue	1.7	170	11.3	0.84	14.0	13	15
	2.0	200	11.6	0.91	15.2	14	16
	2.5	250	11.9	1.02	17.1	15	17
	3.0	300	12.8	1.14	19.0	14	16
	3.5	350	12.8	1.24	20.6	15	17
	4.0	400	12.8	1.32	22.1	16	19
4.5	450	12.8	1.41	23.4	17	20	
6.0 ● Blue	1.7	170	11.6	1.01	16.8	15	17
	2.0	200	11.9	1.09	18.2	15	18
	2.5	250	12.2	1.22	20.4	16	19
	3.0	300	13.1	1.36	22.7	16	18
	3.5	350	13.1	1.47	24.5	17	20
	4.0	400	13.4	1.57	26.2	18	20
4.5	450	13.4	1.67	27.9	19	21	
8.0 ● Blue	1.7	170	11.3	1.35	22.5	21	25
	2.0	200	11.9	1.46	24.3	21	24
	2.5	250	12.5	1.63	27.2	21	24
	3.0	300	13.4	1.81	30.2	20	23
	3.5	350	13.7	1.95	32.6	21	24
	4.0	400	14.0	2.09	34.8	21	25
4.5	450	14.0	2.22	36.9	23	26	

PGP GREY LOW ANGLE NOZZLE PERFORMANCE DATA							
Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m³/hr	l/min	■	▲
4 ● LA Grey	1.7	170	6.4	0.30	4.9	14	17
	2.0	200	6.7	0.32	5.3	14	16
	2.5	250	7.0	0.35	5.9	14	17
	3.0	300	7.3	0.39	6.5	15	17
	3.5	350	7.9	0.42	7.0	13	15
	4.0	400	8.5	0.45	7.5	12	14
4.5	450	8.5	0.47	7.9	13	15	
5 ● LA Grey	1.7	170	7.3	0.33	5.6	12	14
	2.0	200	7.6	0.36	6.0	12	14
	2.5	250	7.9	0.40	6.7	13	15
	3.0	300	8.2	0.45	7.4	13	15
	3.5	350	8.5	0.48	8.0	13	15
	4.0	400	8.8	0.52	8.6	13	15
4.5	450	9.1	0.55	9.1	13	15	
6 ● LA Grey	1.7	170	8.8	0.44	7.3	11	13
	2.0	200	9.1	0.47	7.9	11	13
	2.5	250	9.4	0.53	8.8	12	14
	3.0	300	9.8	0.59	9.8	12	14
	3.5	350	10.1	0.64	10.6	13	15
	4.0	400	10.7	0.68	11.3	12	14
4.5	450	10.7	0.72	12.0	13	15	
7 ● LA Grey	1.7	170	8.5	0.58	9.7	16	18
	2.0	200	8.8	0.62	10.3	16	18
	2.5	250	9.4	0.68	11.4	15	18
	3.0	300	10.1	0.75	12.5	15	17
	3.5	350	10.7	0.80	13.3	14	16
	4.0	400	11.3	0.85	14.1	13	15
4.5	450	11.3	0.89	14.8	14	16	
8 ● LA Grey	1.7	170	9.1	0.71	11.8	17	20
	2.0	200	9.4	0.76	12.7	17	20
	2.5	250	9.8	0.84	14.1	18	20
	3.0	300	10.4	0.93	15.5	17	20
	3.5	350	11.3	1.00	16.6	16	18
	4.0	400	11.6	1.06	17.6	16	18
4.5	450	11.6	1.12	18.6	17	19	
9 ● LA Grey	1.7	170	9.8	0.89	14.9	19	22
	2.0	200	10.1	0.96	16.0	19	22
	2.5	250	10.7	1.07	17.9	19	22
	3.0	300	11.3	1.19	19.8	19	22
	3.5	350	12.2	1.28	21.3	17	20
	4.0	400	12.8	1.37	22.8	17	19
4.5	450	12.8	1.45	24.1	18	20	
10 ● LA Grey	1.7	170	10.1	1.17	19.5	23	27
	2.0	200	10.7	1.26	21.0	22	26
	2.5	250	11.3	1.40	23.4	22	25
	3.0	300	11.6	1.55	25.9	23	27
	3.5	350	12.2	1.67	27.8	22	26
	4.0	400	12.8	1.78	29.7	22	25
4.5	450	12.8	1.89	31.4	23	27	

**Note:**  
All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.

**PGP NOZZLES**



Blue  
(P/N 665300)



Grey  
(P/N 233200)



PGP® RED NOZZLE PERFORMANCE DATA								PGP RED NOZZLE PERFORMANCE DATA							
Nozzle	Pressure		Radius m	Flow		Precip mm/hr		Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</sup> /hr	l/min	■	▲		bar	kPa		m <sup>3</sup> /hr	l/min	■	▲
1 Red	1.7	170	8.2	0.10	1.7	3	3	8 Red	1.7	170	11.0	0.66	11.0	11	13
	2.0	200	8.5	0.11	1.8	3	3		2.0	200	11.3	0.71	11.8	11	13
	2.5	250	8.5	0.13	2.1	4	4		2.5	250	11.6	0.79	13.2	12	14
	3.0	300	8.8	0.15	2.4	4	4		3.0	300	11.9	0.87	14.5	12	14
	3.5	350	8.8	0.16	2.7	4	5		3.5	350	12.5	0.94	15.6	12	14
	4.0	400	9.1	0.18	2.9	4	5		4.0	400	12.5	1.00	16.6	13	15
	4.5	450	9.1	0.19	3.2	5	5	4.5	450	12.8	1.05	17.6	13	15	
2 Red	1.7	170	8.5	0.14	2.4	4	5	9 Red	1.7	170	11.3	0.73	12.2	11	13
	2.0	200	8.8	0.16	2.6	4	5		2.0	200	11.6	0.80	13.4	12	14
	2.5	250	8.8	0.17	2.9	4	5		2.5	250	11.6	0.92	15.4	14	16
	3.0	300	9.1	0.19	3.2	5	5		3.0	300	12.5	1.05	17.5	13	16
	3.5	350	9.1	0.21	3.5	5	6		3.5	350	13.4	1.15	19.2	13	15
	4.0	400	9.4	0.22	3.7	5	6		4.0	400	13.4	1.25	20.9	14	16
	4.5	450	9.4	0.23	3.9	5	6	4.5	450	13.7	1.35	22.4	14	17	
3 Red	1.7	170	8.8	0.18	3.0	5	5	10 Red	2.0	200	12.2	1.14	19.0	15	18
	2.0	200	9.1	0.20	3.3	5	5		2.5	250	12.8	1.29	21.4	16	18
	2.5	250	9.1	0.22	3.7	5	6		3.0	300	13.4	1.44	24.0	16	18
	3.0	300	9.4	0.25	4.1	6	6		3.5	350	14.0	1.56	26.1	16	18
	3.5	350	9.4	0.27	4.5	6	7		4.0	400	14.3	1.68	28.0	16	19
	4.0	400	9.8	0.29	4.8	6	7		4.5	450	14.3	1.79	29.9	17	20
	4.5	450	9.8	0.31	5.1	6	7	5.0	500	14.6	1.90	31.7	18	21	
4 Red	1.7	170	9.4	0.24	4.1	5	6	11 Red	2.0	200	12.8	1.55	25.9	19	22
	2.0	200	9.8	0.27	4.4	6	6		2.5	250	13.7	1.73	28.7	18	21
	2.5	250	9.8	0.30	5.0	6	7		3.0	300	14.0	1.90	31.7	19	22
	3.0	300	10.1	0.34	5.6	7	8		3.5	350	14.6	2.05	34.1	19	22
	3.5	350	10.1	0.37	6.2	7	8		4.0	400	14.9	2.18	36.3	20	23
	4.0	400	10.4	0.40	6.6	7	9		4.5	450	15.2	2.30	38.4	20	23
	4.5	450	10.4	0.43	7.1	8	9	5.0	500	15.5	2.42	40.4	20	23	
5 Red	1.7	170	10.1	0.33	5.5	7	8	12 Red	2.0	200	12.8	2.03	33.8	25	29
	2.0	200	10.4	0.36	5.9	7	8		2.5	250	13.4	2.26	37.7	25	29
	2.5	250	10.4	0.39	6.5	7	8		3.0	300	14.3	2.51	41.8	24	28
	3.0	300	11.0	0.43	7.2	7	8		3.5	350	14.6	2.70	45.0	25	29
	3.5	350	11.6	0.46	7.7	7	8		4.0	400	14.9	2.88	48.1	26	30
	4.0	400	11.6	0.49	8.1	7	8		4.5	450	15.2	3.06	50.9	26	30
	4.5	450	11.6	0.51	8.6	8	9	5.0	500	15.8	3.22	53.7	26	30	
6 Red	1.7	170	10.1	0.42	6.9	8	10	<p><b>Note:</b> All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.</p>							
	2.0	200	10.4	0.45	7.5	8	10								
	2.5	250	10.7	0.51	8.5	9	10								
	3.0	300	11.0	0.57	9.4	9	11								
	3.5	350	11.6	0.61	10.2	9	11								
	4.0	400	11.6	0.66	10.9	10	11								
	4.5	450	11.9	0.70	11.6	10	11								
7 Red	1.7	170	10.1	0.54	9.0	11	12								
	2.0	200	10.4	0.58	9.7	11	12								
	2.5	250	11.0	0.65	10.8	11	12								
	3.0	300	11.6	0.72	12.0	11	12								
	3.5	350	12.2	0.78	12.9	10	12								
	4.0	400	12.2	0.83	13.8	11	13								
	4.5	450	12.2	0.88	14.6	12	14								

PGP NOZZLES



Red (P/N 130900)



ROTORS

# PGP® ULTRA

Radius: **4.9 to 14.0 m**  
 Flow: **0.07 to 3.23 m³/hr; 1.2 to 53.8 l/min**  
 Inlet: **¾"**

## FEATURES

- Models: Shrub, 10 cm, 30 cm
- Arc setting: 50° to 360°
- Factory installed rubber cover
- Through-the-top arc adjustment
- QuickCheck™ arc mechanism
- Water lubricated gear-drive
- Nozzle choices: 34
- Nozzle racks: 1.5 to 8.0 Blue, 2.0 Low Angle to 4.0 Low Angle Grey, 0.50 Short Radius to 3.0 Short Radius Black, 6.0 to 13.0 Green, MPR-20, MPR-30, MPR-35
- Warranty period: 5 years
- ▶ Automatic arc return
- ▶ Non-strippable drive
- ▶ Part- and full-circle in one model
- ▶ Headed and slotted set screw
- ▶ Optional reclaimed water ID
- ▶ Drain check valve (up to 3 m of elevation)

## OPERATING SPECIFICATIONS

- Radius: 4.9 to 14.0 m
- Flow: 0.07 to 3.23 m³/hr; 1.2 to 53.8 l/min
- Recommended pressure range: 1.7 to 4.5 bar; 170 to 450 kPa
- Operating pressure range: 1.4 to 7.0 bar; 140 to 700 kPa
- Precipitation rates: 10 mm/hr approximately
- Nozzle trajectory: Standard = 25°, Low Angle = 13°
- ▶ = *Advanced Feature descriptions on page 18*



**PGP-00**  
 Overall height: 19 cm  
 Exposed diameter: 4.5 cm  
 Inlet size: ¾"



**PGP-04**  
 Overall height: 19 cm  
 Pop-up height: 10 cm  
 Exposed diameter: 4.5 cm  
 Inlet size: ¾"



**PGP-12**  
 Overall height: 43 cm  
 Pop-up height: 30 cm  
 Exposed diameter: 4.5 cm  
 Inlet size: ¾"



**PGP Ultra Reclaimed**  
 Available as a factory installed option on all models



**PGP Ultra**  
 Easy arc and radius adjustment

### PGP-ULTRA - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
<p><b>PGP-00</b> = Shrub</p> <p><b>PGP-04</b> = 10 cm Pop-up</p> <p><b>PGP-12</b> = 30 cm Pop-up</p>	<p>Adjustable arc, plastic riser, 8 standard nozzles, and 4 low angle nozzles</p>	<p><b>CV</b> = Drain check valve</p> <p><b>CV-R</b> = Drain check valve and reclaimed water ID</p>	<p><b>Blue 1.5 - 8.0</b></p> <p><b>Grey Low Angle</b></p> <p><b>Black Short Radius</b></p> <p><b>Green High Flow</b></p> <p><b>MPR-25-Q, T, H, F</b></p> <p><b>MPR-30-Q, T, H, F</b></p> <p><b>MPR-35-Q, T, H, F</b></p> <p><b>1.5 to 4.0</b> = only nozzles 1.5 - 4.0 can be factory-installed</p>

**Examples:**

- PGP-04 = 10 cm Pop-up, adjustable arc
- PGP-04 - 2.5 = 10 cm Pop-up, adjustable arc and 2.5 nozzle
- PGP-12 - CV-R - 4.0 = 30 cm Pop-up, adjustable arc, with drain check valve and reclaimed water ID with 4.0 nozzle

ROTORS

# I-20

Radius: **4.9 to 14.0 m**  
 Flow: **0.07 to 3.23 m³/hr; 1.2 to 53.8 l/min**  
 Inlet: **¾"**

## FEATURES

- Models plastic riser: Shrub, 10 cm, 15 cm, 30 cm
  - Models stainless steel riser: 10 cm, 15 cm
  - Arc setting: 50° to 360°
  - Factory installed rubber cover
  - Through-the-top arc adjustment
  - QuickCheck™ arc mechanism
  - Water lubricated gear-drive
  - Nozzle choices: 34
  - Nozzle racks: 1.5 to 8.0 Blue, 2.0 to 4.0 Low Angle Grey, 0.50 to 3.0 Short Radius Black, 6.0 to 13.0 Green, MPR-20, MPR-30, MPR-35
  - Warranty period: 5 years
- ▶ Automatic arc return
  - ▶ Non-strippable drive
  - ▶ Part- and full-circle in one model
  - ▶ Headed and slotted set screw
  - ▶ FloStop® control
  - ▶ Optional reclaimed water ID
  - ▶ Stainless steel riser
  - ▶ Drain check valve (up to 3 m of elevation)

## OPERATING SPECIFICATIONS

- Radius: 4.9 to 14.0 m
- Flow: 0.07 to 3.23 m³/hr; 1.2 to 53.8 l/min
- Recommended pressure range: 1.7 to 4.5 bar; 170 to 450 kPa
- Operating pressure range: 1.4 to 7.0 bar; 140 to 700 kPa
- Precipitation rates: 10 mm/hr approximately
- Nozzle trajectory: Standard = 25°, Low angle = 13°

▶ = *Advanced Feature descriptions on page 18*



**I-20 Reclaimed**  
 Available as a factory installed option on all models



**I-20-00**  
 Overall height: 20 cm  
 Exposed diameter: 4.5 cm  
 Inlet size: ¾"



**I-20-04**  
 Overall height: 19 cm  
 Pop-up height: 10 cm  
 Exposed diameter: 4.5 cm  
 Inlet size: ¾"



**I-20-06**  
 Overall height: 25 cm  
 Pop-up height: 15 cm  
 Exposed diameter: 4.5 cm  
 Inlet size: ¾"



**I-20-12**  
 Overall height: 43 cm  
 Pop-up height: 30 cm  
 Exposed diameter: 4.5 cm  
 Inlet size: ¾"

### I-20 (PLASTIC) - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
I-20-00 = Shrub I-20-04 = 10 cm Pop-up I-20-06 = 15 cm Pop-up I-20-12 = 30 cm Pop-up	Adjustable arc, plastic, check valve, 8 standard nozzles, and 4 low-angle nozzles	(blank) = no option NCV = Without check valve (only available on 10 cm model) R = Reclaimed water ID	Blue 1.5 - 8.0 Grey Low Angle Black Short Radius Green High Flow MPR-25-Q, T, H, F MPR-30-Q, T, H, F MPR-35-Q, T, H, F 1.5 to 4.0 = only nozzles 1.5 - 4.0 can be factory-installed

### I-20 (STAINLESS STEEL) - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
I-20-04-SS = 10 cm Pop-up I-20-06-SS = 15 cm Pop-up	Adjustable arc, stainless steel, check valve, 8 standard nozzles, and 4 low-angle nozzles	(blank) = no option NCV = Without check valve (only available on 10 cm model) R = Reclaimed water ID	Blue 1.5 - 8.0 Grey Low Angle Black Short Radius Green High Flow MPR-25-Q, T, H, F MPR-30-Q, T, H, F MPR-35-Q, T, H, F 1.5 to 4.0 = only nozzles 1.5 - 4.0 can be factory-installed

#### Examples:

- I-20-04 = 10 cm Pop-up, adjustable arc
- I-20-12 - R - 4.0 = 30 cm Pop-up, adjustable arc, check valve, with reclaimed water ID, and 4.0 nozzle
- I-20-06-SS - R - 3.0 = 15 cm Pop-up, adjustable arc, stainless steel riser, with reclaimed water ID, and 3.0 nozzle

ROTORS

# PGP® ULTRA & I-20 PRB

PRESSURE REGULATED BODY

Radius: **4.9 to 14.0 m**  
 Flow: **0.07 to 2.22 m³/hr; 1.2 to 36.0 l/min**  
 Inlet: **¾"**

## FEATURES

- Models:
  - PGP Ultra: 10 cm
  - I-20: 10 cm, 15 cm
- Arc setting: 50° to 360°
- Factory installed rubber cover
- Through-the-top arc adjustment
- QuickCheck™ arc mechanism
- Water lubricated gear-drive
- Nozzle choices: 30
- Nozzle racks: 1.5 to 8.0 Blue, 2.0 to 4.5 Low Angle Gray, 0.50 to 3.0 Black, MPR-25, MPR-30, MPR-35
- Warranty period: 5 years
- ▶ Pressure Regulated Body
- ▶ Automatic arc return
- ▶ Non-strippable drive
- ▶ Part- and full-circle in one model
- ▶ Headed and slotted set screw
- ▶ Reclaimed water ID
- ▶ Drain check valve (up to 3 m of elevation)



### PGP-04-PRB

Overall height: 22 cm  
 Pop-up height: 10 cm  
 Exposed diameter: 4.5 cm  
 Inlet size: ¾"

## OPERATING SPECIFICATIONS

- Radius: 4.9 to 14.0 m
- Flow: 0.07 to 2.22 m³/hr; 1.2 to 36.0 l/min
- Nozzle discharge pressure: 3.1 bar; 310 kPa
- Operating pressure range: 1.7 to 4.5 bar; 170 to 450 kPa
- Precipitation rates: 10 mm/hr approximately
- Nozzle trajectory: Std = 25°, Low Angle = 13°

▶ = Advanced Feature descriptions on page 18



### I-20-04-PRB

Overall height: 22 cm  
 Pop-up height: 10 cm  
 Exposed diameter: 4.5 cm  
 Inlet size: ¾"



### I-20-06-PRB

Overall height: 27 cm  
 Pop-up height: 15 cm  
 Exposed diameter: 4.5 cm  
 Inlet size: ¾"



### Pressure Regulation

Continual operating pressure of 3.1 bar; 310 kPa

### PGP-ULTRA-PRB - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
PGP-04-PRB = 10 cm Pop-up	Adjustable arc, plastic riser, Pressure Regulated Body, 8 standard nozzles, and 4 low-angle nozzles	(blank) = No option CV = Drain check valve CV-R = Drain check valve and reclaimed water ID	Blue 1.5 - 8.0 Gray Low Angle Black Short Radius MPR-25, 30, 35 - Q, T, H, F 1.5 to 4.0 = only nozzles 1.5 - 4.0 can be factory-installed

#### Examples:

PGP-04-PRB = 10 cm Pop-up, adjustable arc, pressure regulated body  
 PGP-04-PRB - 2.5 = 10 cm Pop-up, adjustable arc, Pressure Regulated Body and 2.5 nozzle

### I-20 (PLASTIC)-PRB - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
I-20-04-PRB = 10 cm Pop-up I-20-06-PRB = 15 cm Pop-up	Adjustable arc, plastic riser, check valve, Pressure Regulated Body, 8 standard nozzles, and 4 low-angle nozzles	(blank) = No option R = Drain check valve and reclaimed water ID	Blue 1.5 - 8.0 Gray Low Angle Black Short Radius MPR-25, 30, 35 - Q, T, H, F 1.5 to 4.0 = only nozzles 1.5 - 4.0 can be factory-installed

### I-20 (STAINLESS)-PRB - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
I-20-04-SS-PRB = 10 cm Pop-up I-20-06-SS-PRB = 15 cm Pop-up	Adjustable arc, plastic riser, Pressure Regulated Body, 8 standard nozzles, and 4 low-angle nozzles	(blank) = No option R = Drain check valve and reclaimed water ID	Blue 1.5 - 8.0 Gray Low Angle Black Short Radius MPR-25, 30, 35 - Q, T, H, F 1.5 to 4.0 = only nozzles 1.5 - 4.0 can be factory-installed

#### Examples:

I-20-04-PRB = 10 cm Pop-up, adjustable arc, pressure regulated body  
 I-20-06-SS-PRB - R - 3.0 = 15 cm Pop-up, adjustable arc, stainless steel riser, Pressure Regulated Body, with reclaimed water ID, and 3.0 nozzle

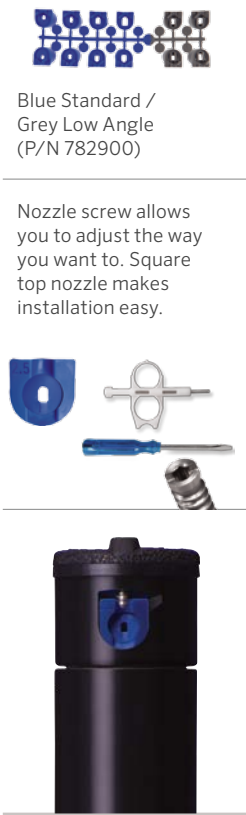
**PGP® ULTRA / I-20 / PRB BLUE STANDARD NOZZLE PERFORMANCE DATA**

Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>2</sup> /hr	l/min	■	▲
<b>1.5</b> ● Blue	1.7	170	8.8	0.27	4.5	7	8
	2.0	200	9.1	0.29	4.8	7	8
	2.5	250	9.4	0.32	5.4	7	8
	3.0	300	9.8	0.35	5.9	7	9
	3.5	350	9.8	0.38	6.4	8	9
	4.0	400	9.8	0.41	6.8	9	10
4.5	450	9.4	0.43	7.2	10	11	
<b>2.0</b> ● Blue	1.7	170	10.1	0.32	5.4	6	7
	2.0	200	10.1	0.35	5.8	7	8
	2.5	250	10.1	0.39	6.5	8	9
	3.0	300	10.4	0.43	7.2	8	9
	3.5	350	10.4	0.47	7.8	9	10
	4.0	400	10.4	0.50	8.3	9	11
4.5	450	10.4	0.53	8.8	10	11	
<b>2.5</b> ● Blue	1.7	170	10.1	0.39	6.6	8	9
	2.0	200	10.4	0.43	7.1	8	9
	2.5	250	10.7	0.48	8.0	8	10
	3.0	300	10.7	0.54	8.9	9	11
	3.5	350	10.7	0.58	9.7	10	12
	4.0	400	10.7	0.62	10.4	11	13
4.5	450	10.7	0.66	11.1	12	13	
<b>3.0</b> ● Blue	1.7	170	10.7	0.50	8.4	9	10
	2.0	200	10.7	0.54	9.1	10	11
	2.5	250	11.0	0.61	10.2	10	12
	3.0	300	11.6	0.68	11.4	10	12
	3.5	350	11.9	0.74	12.3	10	12
	4.0	400	11.9	0.79	13.2	11	13
4.5	450	11.9	0.84	14.0	12	14	
<b>4.0</b> ● Blue	1.7	170	11.3	0.68	11.3	11	12
	2.0	200	11.6	0.73	12.2	11	13
	2.5	250	11.9	0.81	13.6	12	13
	3.0	300	12.2	0.90	15.0	12	14
	3.5	350	12.2	0.97	16.2	13	15
	4.0	400	12.5	1.04	17.3	13	15
4.5	450	12.5	1.10	18.3	14	16	
<b>5.0</b> ● Blue	1.7	170	11.3	0.84	14.0	13	15
	2.0	200	11.6	0.91	15.2	14	16
	2.5	250	11.9	1.02	17.1	15	17
	3.0	300	12.8	1.14	19.0	14	16
	3.5	350	12.8	1.24	20.6	15	17
	4.0	400	12.8	1.32	22.1	16	19
4.5	450	12.8	1.41	23.4	17	20	
<b>6.0</b> ● Blue	1.7	170	11.6	1.01	16.8	15	17
	2.0	200	11.9	1.09	18.2	15	18
	2.5	250	12.2	1.22	20.4	16	19
	3.0	300	13.1	1.36	22.7	16	18
	3.5	350	13.1	1.47	24.5	17	20
	4.0	400	13.4	1.57	26.2	18	20
4.5	450	13.4	1.67	27.9	19	21	
<b>8.0</b> ● Blue	1.7	170	11.3	1.35	22.5	21	25
	2.0	200	11.9	1.46	24.3	21	24
	2.5	250	12.5	1.63	27.2	21	24
	3.0	300	13.4	1.81	30.2	20	23
	3.5	350	13.7	1.95	32.6	21	24
	4.0	400	14.0	2.09	34.8	21	25
4.5	450	14.0	2.22	36.9	23	26	

**PGP ULTRA / I-20 / PRB GREY LOW ANGLE NOZZLE PERFORMANCE DATA**

Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</sup> /hr	l/min	■	▲
<b>2.0</b> ● LA Grey	1.7	170	7.3	0.33	5.6	12	14
	2.0	200	7.6	0.36	6.0	12	14
	2.5	250	7.9	0.40	6.7	13	15
	3.0	300	8.2	0.45	7.4	13	15
	3.5	350	8.5	0.48	8.0	13	15
	4.0	400	8.8	0.52	8.6	13	15
4.5	450	9.1	0.55	9.1	13	15	
<b>2.5</b> ● LA Grey	1.7	170	7.9	0.44	7.3	14	16
	2.0	200	8.2	0.47	7.9	14	16
	2.5	250	8.8	0.53	8.8	14	16
	3.0	300	9.4	0.59	9.8	13	15
	3.5	350	10.1	0.64	10.6	13	15
	4.0	400	10.4	0.68	11.3	13	15
4.5	450	10.7	0.72	12.0	13	15	
<b>3.5</b> ● LA Grey	1.7	170	8.5	0.58	9.7	16	18
	2.0	200	8.8	0.62	10.3	16	18
	2.5	250	9.1	0.68	11.4	16	19
	3.0	300	10.1	0.75	12.5	15	17
	3.5	350	10.7	0.80	13.3	14	16
	4.0	400	11.0	0.85	14.1	14	16
4.5	450	11.3	0.89	14.8	14	16	
<b>4.5</b> ● LA Grey	1.7	170	8.2	0.71	11.8	21	24
	2.0	200	8.8	0.76	12.7	19	23
	2.5	250	9.1	0.84	14.1	20	23
	3.0	300	10.1	0.93	15.5	18	21
	3.5	350	10.7	1.00	16.6	18	20
	4.0	400	11.0	1.06	17.6	18	20
4.5	450	11.3	1.12	18.6	18	20	

**PGP ULTRA / I-20 / PRB NOZZLES**



Blue Standard / Grey Low Angle (P/N 782900)

Nozzle screw allows you to adjust the way you want to. Square top nozzle makes installation easy.

PGP Ultra



**Note:**

All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.

ROTORS

**PGP® ULTRA / I-20 GREEN HIGH FLOW NOZZLE PERFORMANCE DATA**

Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</sup> /hr	l/min	■	▲
<b>10</b> Dk. Green	1.7	170	10.7	1.48	24.6	26	30
	2.0	200	11.9	1.60	26.7	23	26
	2.5	250	12.5	1.80	30.0	23	27
	3.0	300	12.8	2.01	33.5	25	28
	3.5	350	13.1	2.18	36.3	25	29
	4.0	400	13.7	2.34	39.0	25	29
4.5	450	14.0	2.49	41.5	25	29	
<b>13</b> Dk. Green	1.7	170	11.0	1.91	31.9	32	37
	2.0	200	12.2	2.08	34.6	28	32
	2.5	250	12.8	2.34	38.9	29	33
	3.0	300	13.1	2.61	43.4	30	35
	3.5	350	13.4	2.83	47.1	31	36
	4.0	400	13.7	3.03	50.5	32	37
4.5	450	14.0	3.23	53.8	33	38	
<b>6.0 LA</b> Dk. Green	1.7	170	9.1	0.86	14.3	21	24
	2.0	200	9.4	0.94	15.6	21	24
	2.5	250	10.1	1.07	17.8	21	24
	3.0	300	10.7	1.20	20.0	21	24
	3.5	350	11.3	1.31	21.9	21	24
	4.0	400	11.6	1.42	23.6	21	24
4.5	450	11.9	1.52	25.3	21	25	
<b>8.0 LA</b> Dk. Green	1.7	170	10.1	1.17	19.5	23	27
	2.0	200	10.7	1.28	21.3	22	26
	2.5	250	11.3	1.44	24.0	23	26
	3.0	300	11.6	1.61	26.9	24	28
	3.5	350	11.9	1.76	29.3	25	29
	4.0	400	12.5	1.89	31.5	24	28
4.5	450	12.5	2.01	33.6	26	30	

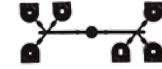
**PGP ULTRA / I-20 / PRB BLACK SHORT RADIUS NOZZLE PERFORMANCE DATA**

Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</sup> /hr	l/min	■	▲
<b>.50 SR</b> Black	1.7	170	4.9	0.07	1.2	6	7
	2.0	200	5.2	0.08	1.3	6	7
	2.5	250	5.2	0.09	1.5	7	8
	3.0	300	5.2	0.10	1.7	8	9
	3.5	350	5.5	0.12	1.9	8	9
	4.0	400	5.5	0.13	2.1	8	10
4.5	450	5.5	0.14	2.3	9	10	
<b>1.0 SR</b> Black	1.7	170	4.9	0.16	2.7	14	16
	2.0	200	5.2	0.17	2.9	13	15
	2.5	250	5.2	0.19	3.2	14	17
	3.0	300	5.2	0.21	3.6	16	18
	3.5	350	5.5	0.23	3.8	15	18
	4.0	400	5.5	0.25	4.1	16	19
4.5	450	5.5	0.26	4.3	17	20	
<b>2.0 SR</b> Black	1.7	170	4.9	0.28	4.7	24	27
	2.0	200	5.2	0.31	5.2	23	27
	2.5	250	5.2	0.36	6.0	27	31
	3.0	300	5.2	0.41	6.9	31	35
	3.5	350	5.5	0.45	7.6	30	35
	4.0	400	5.5	0.49	8.2	33	38
4.5	450	5.5	0.53	8.9	35	41	
<b>.75 SR</b> Black	1.7	170	6.7	0.12	2.0	5	6
	2.0	200	7.0	0.13	2.2	5	6
	2.5	250	7.0	0.15	2.4	6	7
	3.0	300	7.3	0.16	2.7	6	7
	3.5	350	7.6	0.17	2.9	6	7
	4.0	400	7.6	0.19	3.1	6	7
4.5	450	7.6	0.20	3.3	7	8	
<b>1.5 SR</b> Black	1.7	170	6.7	0.23	3.8	10	12
	2.0	200	7.0	0.25	4.1	10	12
	2.5	250	7.0	0.28	4.6	11	13
	3.0	300	7.3	0.31	5.2	12	13
	3.5	350	7.6	0.34	5.6	12	13
	4.0	400	7.6	0.36	6.0	12	14
4.5	450	7.6	0.39	6.4	13	15	
<b>3.0 SR</b> Black	1.7	170	6.7	0.53	8.9	24	27
	2.0	200	7.0	0.56	9.3	23	26
	2.5	250	7.0	0.60	10.0	24	28
	3.0	300	7.3	0.64	10.7	24	28
	3.5	350	7.6	0.67	11.2	23	27
	4.0	400	7.6	0.70	11.7	24	28
4.5	450	7.6	0.73	12.1	25	29	

**PGP ULTRA / I-20 / PRB NOZZLES**



Dk. Green High Flow (P/N 444800)



Black Short Radius (P/N 466100)



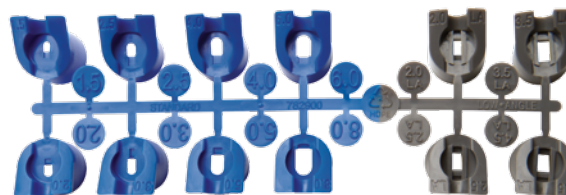
I-20 with Blue Standard Nozzle







**Note:**

All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.





**Convenient Nozzle Rack**



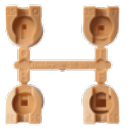
PGP® ULTRA / I-20 / PRB MPR-25 NOZZLE PERFORMANCE DATA							
Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m³/hr	l/min	■	▲
90° 	1.7	170	7.0	0.17	3.0	13.7	15.8
	2.4	240	7.3	0.20	3.6	14.9	17.3
	3.1	310	7.6	0.23	3.6	15.6	18.1
	3.8	380	7.6	0.25	4.2	17.4	20.1
	4.5	450	7.6	0.27	4.8	18.9	21.9
120° 	1.7	170	7.0	0.23	3.6	13.9	16.0
	2.4	240	7.3	0.27	4.8	15.4	17.8
	3.1	310	7.6	0.31	5.4	16.2	18.7
	3.8	380	7.6	0.35	6.0	18.0	20.7
	4.5	450	7.6	0.38	6.6	19.6	22.6
180° 	1.7	170	7.0	0.33	5.4	13.3	15.4
	2.4	240	7.3	0.39	6.6	14.7	17.0
	3.1	310	7.6	0.45	7.2	15.5	17.9
	3.8	380	7.6	0.50	8.4	17.3	20.0
	4.5	450	7.6	0.55	9.0	18.9	21.8
360° 	1.7	170	7.0	0.63	10.8	12.8	14.8
	2.4	240	7.3	0.76	12.6	14.2	16.4
	3.1	310	7.6	0.87	14.4	14.9	17.3
	3.8	380	7.6	0.97	16.2	16.6	19.2
	4.5	450	7.6	1.05	17.4	18.1	20.9





**MPR-25 NOZZLE**



PGP ULTRA / I-20 / PRB MPR-35 NOZZLE PERFORMANCE DATA							
Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m³/hr	l/min	■	▲
90° 	1.7	170	9.8	0.32	5.4	13.4	15.4
	2.4	240	10.4	0.38	6.6	14.1	16.3
	3.1	310	10.7	0.44	7.2	15.3	17.7
	3.8	380	10.7	0.48	7.8	17.0	19.6
	4.5	450	10.7	0.52	9.0	18.4	21.3
120° 	1.7	170	9.8	0.40	6.6	12.7	14.6
	2.4	240	10.4	0.49	8.4	13.6	15.8
	3.1	310	10.7	0.56	9.6	14.7	17.0
	3.8	380	10.7	0.62	10.2	16.4	18.9
	4.5	450	10.7	0.68	11.4	17.9	20.7
180° 	1.7	170	9.8	0.62	10.2	13.1	15.2
	2.4	240	10.4	0.76	12.6	14.1	16.3
	3.1	310	10.7	0.87	14.4	15.2	17.6
	3.8	380	10.7	0.96	16.2	16.9	19.5
	4.5	450	10.7	1.05	17.4	18.4	21.3
360° 	1.7	170	9.8	1.22	20.4	12.8	14.8
	2.4	240	10.4	1.50	25.2	14.0	16.2
	3.1	310	10.7	1.72	28.8	15.1	17.5
	3.8	380	10.7	1.91	31.8	16.8	19.4
	4.5	450	10.7	2.09	34.8	18.3	21.2

**MPR-35 NOZZLE**



PGP ULTRA / I-20 / PRB MPR-30 NOZZLE PERFORMANCE DATA							
Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m³/hr	l/min	■	▲
90° 	1.7	170	8.8	0.23	3.6	12.0	13.8
	2.4	240	9.1	0.28	4.8	13.4	15.4
	3.1	310	9.1	0.32	5.4	15.2	17.6
	3.8	380	9.1	0.35	6.0	17.0	19.6
	4.5	450	9.1	0.38	6.6	18.4	21.2
120° 	1.7	170	8.8	0.30	4.8	11.7	13.5
	2.4	240	9.1	0.37	6.0	13.2	15.2
	3.1	310	9.1	0.42	7.2	15.1	17.4
	3.8	380	9.1	0.47	7.8	16.8	19.4
	4.5	450	9.1	0.51	8.4	18.3	21.1
180° 	1.7	170	8.8	0.49	8.4	12.5	14.4
	2.4	240	9.1	0.59	9.6	14.1	16.2
	3.1	310	9.1	0.67	11.4	16.1	18.6
	3.8	380	9.1	0.75	12.6	17.9	20.7
	4.5	450	9.1	0.82	13.8	19.6	22.6
360° 	1.7	170	8.8	0.96	16.2	12.3	14.2
	2.4	240	9.1	1.15	19.2	13.8	15.9
	3.1	310	9.1	1.31	21.6	15.7	18.1
	3.8	380	9.1	1.45	24.0	17.4	20.0
	4.5	450	9.1	1.57	26.4	18.8	21.7

**MPR-30 NOZZLE**



**Note:**

All precipitation rates calculated for 180 degree operation. For the precipitation rate for a 360 degree sprinkler, divide by 2.



# I-25

Radius: **11.9 to 21.6 m**  
 Flow: **0.82 to 7.24 m³/hr; 13.6 to 120.2 l/min**  
 Inlet: **1" BSP**

## FEATURES

- Models plastic riser: 10 cm, 15 cm
  - Models stainless steel riser: 10 cm, 15 cm
  - Arc setting: 50° to 360°
  - Factory installed rubber cover
  - Through-the-top arc adjustment
  - QuickCheck™ arc mechanism
  - Water lubricated gear-drive
  - Nozzle choices: 12
  - Nozzle range: #4 to #28
  - Warranty period: 5 years
- ▶ Automatic arc return
  - ▶ Non-strippable drive
  - ▶ Part- and full-circle in one model
  - ▶ Colour-coded nozzles
  - ▶ Stainless steel riser
  - ▶ Drain check valve (up to 3 m of elevation)



**I-25-04**  
 Overall height: 20 cm  
 Pop-up height: 10 cm  
 Exposed diameter: 5 cm  
 Inlet size: 1" BSP



**I-25-06**  
 Overall height: 26 cm  
 Pop-up height: 15 cm  
 Exposed diameter: 5 cm  
 Inlet size: 1" BSP

## OPERATING SPECIFICATIONS

- Radius: 11.9 to 21.6 m
- Flow: 0.82 to 7.24 m³/hr; 13.6 to 120.2 l/min
- Recommended pressure range: 2.5 to 7.0 bar; 250 to 700 kPa
- Operating pressure range: 2.5 to 7.0 bar; 250 to 700 kPa
- Precipitation rates: 15 mm/hr approximately
- Nozzle trajectory: 25°

▶ = *Advanced Feature descriptions on page 18*



**I-25 Reclaimed**  
 Available as a factory installed option on all models



**I-25 High Speed**  
 Available as a factory installed option on all stainless steel models

### I-25 (PLASTIC) - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
I-25-04 = 10 cm Pop-up I-25-06 = 15 cm Pop-up	Adjustable arc, plastic riser, check valve, and 5 nozzles	<b>B</b> = BSP inlet threads <b>R</b> = Reclaimed water ID	<b>#4 - #28</b> = Factory installed nozzle number

### I-25 (STAINLESS STEEL) - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
I-25-04-SS = 10 cm Pop-up I-25-06-SS = 15 cm Pop-up	Adjustable arc, stainless steel riser, check valve, and 5 nozzles	<b>B</b> = BSP inlet threads <b>R</b> = Reclaimed water ID <b>HS</b> = High-Speed <b>HS-R</b> = High-speed and reclaimed water ID	<b>#4 - #28</b> = Factory installed nozzle number

**Examples:**

- I-25-04 - B = 10 cm Pop-up, adjustable arc, BSP inlet threads
- I-25-04-SS - R - B - 18 = 10 cm Pop-up, adjustable arc, stainless steel riser, reclaimed water ID, and #18 nozzle, BSP inlet threads
- I-25-06-SS - B = 15 cm Pop-up, adjustable arc, stainless steel riser, BSP inlet threads

I-25 STANDARD NOZZLE PERFORMANCE DATA										I-25 NOZZLE					
Nozzle	Pressure		Radius	Flow		Precip mm/hr		Nozzle	Pressure		Radius	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</sup> /hr	l/min	■	▲		bar	kPa		m	m <sup>3</sup> /hr	l/min	■
4 ● Yellow	2.5	250	11.9	0.82	13.6	12	13	15 ● Grey*	3.0	300	16.8	2.86	47.7	20	24
	3.0	300	12.2	0.91	15.2	12	14		3.5	350	17.1	3.05	50.8	21	24
	3.5	350	12.5	0.98	16.4	13	15		4.0	400	17.4	3.22	53.7	21	25
	4.0	400	12.5	1.05	17.5	13	16		4.5	450	17.4	3.38	56.3	22	26
	4.5	450	12.8	1.11	18.6	14	16		5.0	500	17.4	3.53	58.8	23	27
	5.0	500	13.1	1.18	19.6	14	16		5.5	550	17.7	3.69	61.5	24	27
5 ○ White	5.5	550	13.4	1.24	20.7	14	16	6.0	600	18.0	3.82	63.7	24	27	
	2.5	250	12.8	0.95	15.9	12	13	6.2	620	18.3	3.88	64.6	23	27	
	3.0	300	13.1	1.04	17.3	12	14	18 ● Red	3.0	300	17.4	30.8	51.4	20	24
	3.5	350	13.4	1.11	18.5	12	14		3.5	350	17.7	3.31	55.2	21	24
	4.0	400	13.4	1.17	19.6	13	15		4.0	400	18.0	3.52	58.7	22	25
	4.5	450	13.7	1.24	20.6	13	15		4.5	450	18.3	3.72	62.0	22	26
5.0	500	14.0	1.29	21.5	13	15	5.0		500	18.9	3.91	65.2	22	25	
5.5	550	14.3	1.35	22.6	13	15	5.5		550	19.2	4.11	68.5	22	26	
7 ● Orange*	2.5	250	13.4	1.44	24.0	16	19	6.0	600	19.5	4.28	71.4	23	26	
	3.0	300	14.0	1.54	25.6	16	18	6.2	620	19.5	4.35	72.5	23	26	
	3.5	350	14.3	1.61	26.9	16	18	20 ● Dk. Brown*	3.5	350	18.0	3.72	62.1	23	27
	4.0	400	14.3	1.68	28.0	16	19		4.0	400	18.6	3.97	66.2	23	27
	4.5	450	14.6	1.75	29.1	16	19		4.5	450	18.9	4.20	70.1	24	27
	5.0	500	14.9	1.81	30.1	16	19		5.0	500	19.2	4.42	73.7	24	28
5.5	550	15.2	1.87	31.1	16	19	5.5		550	19.5	4.66	77.7	25	28	
8 ● Lt. Brown	2.5	250	14.0	1.65	27.5	17	19		6.0	600	19.8	4.86	81.0	25	29
	3.0	300	14.3	1.81	30.1	18	20	6.5	650	20.1	5.05	84.2	25	29	
	3.5	350	14.9	1.94	32.3	17	20	6.9	690	20.4	5.21	86.8	25	29	
	4.0	400	15.2	2.05	34.2	18	20	23 ● Dk. Green	3.5	350	18.6	4.56	76.0	26	30
	4.5	450	15.2	2.16	36.0	19	22		4.0	400	19.2	4.88	81.3	26	31
	5.0	500	15.5	2.27	37.8	19	22		4.5	450	19.5	5.18	86.3	27	31
5.5	550	15.8	2.38	39.6	19	22	5.0		500	19.8	5.47	91.1	28	32	
10 ● Lt. Green*	3.0	300	15.2	2.15	35.8	18	21		5.5	550	20.1	5.78	96.3	29	33
	3.5	350	15.5	2.32	38.6	19	22		6.0	600	20.1	6.04	100.6	30	34
	4.0	400	15.8	2.48	41.3	20	23	6.5	650	20.4	6.29	104.8	30	35	
	4.5	450	16.2	2.63	43.9	20	23	6.9	690	20.7	6.50	108.3	30	35	
	5.0	500	16.2	2.78	46.3	21	25	25 ● Dk. Blue*	3.5	350	19.2	4.86	80.9	26	30
	5.5	550	16.5	2.94	48.9	22	25		4.0	400	19.8	5.23	87.1	27	31
6.0	600	16.8	3.07	51.1	22	25	4.5		450	20.1	5.58	93.1	28	32	
13 ● Lt. Blue	3.0	300	15.8	2.38	39.6	19	22		5.0	500	20.4	5.92	98.7	28	33
	3.5	350	16.2	2.57	42.8	20	23		5.5	550	21.0	6.29	104.9	28	33
	4.0	400	16.5	2.75	45.7	20	23		6.0	600	21.0	6.60	110.0	30	34
	4.5	450	16.5	2.91	48.5	21	25	6.5	650	21.3	6.90	115.1	30	35	
	5.0	500	16.8	3.04	51.2	22	25	6.9	690	21.6	7.15	119.2	31	35	
	5.5	550	16.8	3.24	54.0	23	27	28 ● Black	3.5	350	18.3	5.31	88.5	32	37
6.0	600	17.1	3.39	56.4	23	27	4.0		400	19.2	5.63	93.8	31	35	
15 ● Grey*	3.0	300	16.8	2.86	47.7	20	24		4.5	450	20.1	5.93	98.8	29	34
	3.5	350	17.1	3.05	50.8	21	24		5.0	500	20.7	6.21	103.5	29	33
	4.0	400	17.4	3.22	53.7	21	25		5.5	550	21.3	6.52	108.6	29	33
	4.5	450	17.4	3.38	56.3	22	26		6.0	600	21.3	6.77	112.8	30	34
	5.0	500	17.4	3.53	58.8	23	27	6.5	650	21.6	7.01	116.9	30	35	
	5.5	550	17.7	3.69	61.5	24	27	6.9	690	21.6	7.21	120.2	31	36	



Standard



ROTORS

\* 5 standard nozzles included with each sprinkler.

**Note:**

All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.

ROTORS

**I-25 HIGH-SPEED NOZZLE PERFORMANCE DATA**

**I-25 NOZZLE**

Nozzle	Pressure		Radius m	Flow		Precip mm/hr		Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</sup> /hr	l/min	■	▲		bar	kPa		m <sup>3</sup> /hr	l/min	■	▲
4 ● Yellow	2.5	250	11.0	0.81	13.6	14	16	15 ● Grey*	3.0	300	14.6	2.86	47.7	27	31
	3.0	300	11.3	0.91	15.1	14	16		3.5	350	14.9	3.05	50.8	27	32
	3.5	350	11.6	0.99	16.4	15	17		4.0	400	15.2	3.22	53.7	28	32
	4.0	400	11.6	1.06	17.6	16	18		4.5	450	15.5	3.38	56.3	28	32
	4.5	450	11.6	1.13	18.8	17	19		5.0	500	16.2	3.53	58.8	27	31
	5.0	500	11.9	1.19	19.9	17	19		5.5	550	16.5	3.69	61.5	27	31
5 ○ White	5.5	550	11.9	1.26	21.1	18	21	6.0	600	16.5	3.82	63.7	28	33	
	2.5	250	11.3	0.93	15.5	15	17	6.2	620	16.5	3.88	64.6	29	33	
	3.0	300	11.6	1.04	17.3	16	18	18 ● Red	3.0	300	14.9	3.08	51.4	28	32
	3.5	350	11.9	1.13	18.9	16	18		3.5	350	15.2	3.31	55.2	29	33
	4.0	400	12.2	1.22	20.3	16	19		4.0	400	15.5	3.52	58.7	29	34
	4.5	450	12.2	1.30	21.6	17	20		4.5	450	16.2	3.72	62.0	29	33
5.0	500	12.5	1.38	22.9	18	20	5.0		500	16.8	3.91	65.2	28	32	
5.5	550	12.5	1.46	24.4	19	22	5.5		550	17.4	4.11	68.5	27	31	
7 ● Orange*	2.5	250	11.9	1.32	22.0	19	22	6.0	600	17.4	4.28	71.4	28	33	
	3.0	300	12.2	1.46	24.3	20	23	6.2	620	17.4	4.35	72.5	29	33	
	3.5	350	12.5	1.57	26.2	20	23	20 ● Dk. Brown*	3.5	350	15.5	3.72	62.1	31	36
	4.0	400	12.8	1.68	27.9	20	24		4.0	400	16.2	3.97	66.2	30	35
	4.5	450	13.1	1.78	29.6	21	24		4.5	450	16.5	4.20	70.1	31	36
	5.0	500	13.4	1.87	31.1	21	24		5.0	500	17.1	4.42	73.7	30	35
5.5	550	13.4	1.97	32.8	22	25	5.5		550	17.7	4.66	77.7	30	34	
8 ● Lt. Brown	2.5	250	12.5	1.54	25.7	20	23		6.0	600	17.7	4.86	81.0	31	36
	3.0	300	12.8	1.72	28.6	21	24	6.5	650	18.0	5.05	84.2	31	36	
	3.5	350	13.1	1.86	31.0	22	25	6.9	690	18.0	5.21	86.8	32	37	
	4.0	400	13.4	2.00	33.3	22	26	23 ● Dk. Green	3.5	350	16.5	4.56	76.0	34	39
	4.5	450	13.4	2.13	35.4	24	27		4.0	400	17.1	4.88	81.3	33	39
	5.0	500	13.7	2.25	37.5	24	28		4.5	450	17.4	5.18	86.3	34	40
5.5	550	13.7	2.38	39.7	25	29	5.0		500	17.7	5.47	91.1	35	40	
10 ● Lt. Green*	3.0	300	13.7	2.15	35.8	23	26		5.5	550	18.3	5.78	96.3	35	40
	3.5	350	14.0	2.32	38.6	24	27		6.0	600	18.3	6.04	100.6	36	42
	4.0	400	14.3	2.48	41.3	24	28	6.5	650	18.6	6.29	104.8	36	42	
	4.5	450	14.6	2.63	43.9	25	28	6.9	690	18.6	6.50	108.3	38	43	
	5.0	500	14.9	2.78	46.3	25	29	25 ● Dk. Blue*	3.5	350	17.1	4.86	80.9	33	38
	5.5	550	15.2	2.94	48.9	25	29		4.0	400	17.7	5.23	87.1	33	39
6.0	600	15.2	3.07	51.1	26	31	4.5		450	18.3	5.58	93.1	33	39	
13 ● Lt. Blue	3.0	300	14.3	2.38	39.6	23	27		5.0	500	18.9	5.92	98.7	33	38
	3.5	350	14.6	2.57	42.8	24	28		5.5	550	19.5	6.29	104.9	33	38
	4.0	400	14.9	2.75	45.7	25	28		6.0	600	19.8	6.60	110.0	34	39
	4.5	450	15.2	2.91	48.5	25	29	6.5	650	20.1	6.90	115.1	34	39	
	5.0	500	15.5	3.07	51.2	25	29	6.9	690	20.1	7.15	119.2	35	41	
	5.5	550	15.5	3.24	54.0	27	31	28 ● Black	3.5	350	17.4	5.31	88.5	35	41
6.0	600	15.5	3.39	56.4	28	32	4.0		400	17.7	5.63	93.8	36	42	
15 ● Grey*	4.5	450	18.0	5.93	98.8	37	42		5.0	500	18.3	6.21	103.5	37	43
	5.0	500	18.3	6.21	103.5	37	43		5.5	550	18.9	6.52	108.6	36	42
	5.5	550	18.9	6.52	108.6	36	42		6.0	600	19.5	6.77	112.8	36	41
	6.0	600	19.5	6.77	112.8	36	41		6.5	650	19.8	7.01	116.9	36	41
	6.5	650	19.8	7.01	116.9	36	41	6.9	690	20.4	7.21	120.2	35	40	
	6.9	690	20.4	7.21	120.2	35	40								



High-Speed

\* 5 standard nozzles included with each sprinkler.

**Notes:**

All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.

# I-40

Radius: **13.1 to 23.2 m**  
 Flow: **1.63 to 6.84 m³/hr; 27.2 to 114.1 l/min**  
 Inlet: **1" BSP**

## FEATURES

- Models stainless steel riser: 10 cm to 15 cm
  - Arc setting: 50° to 360°
  - Factory installed rubber cover
  - Nozzle choices: 12
  - Nozzle ranges I-40: #8 to #25
  - Nozzle ranges I-40-ON: #15 to #28
  - Through-the-top arc adjustment
  - QuickCheck™ arc mechanism
  - Water lubricated gear-drive
  - Warranty period: 5 years
- ▶ Opposing nozzle 360° model
  - ▶ Automatic arc return
  - ▶ Non-strippable drive
  - ▶ Part- and full-circle in one model
  - ▶ Colour-coded nozzles
  - ▶ Optional reclaimed water ID
  - ▶ Stainless steel riser
  - ▶ Drain check valve (up to 4.5 m of elevation)



**I-40-04**  
 Overall height: 20 cm  
 Pop-up height: 10 cm  
 Exposed diameter: 5 cm  
 Inlet size: 1" BSP

## OPERATING SPECIFICATIONS

- Radius I-40: 13.1 to 21.3 m
- Radius I-40-ON: 15.2 to 23.2 m
- Flow I-40: 1.63 to 6.84 m³/hr; 27.2 to 114.1 l/min
- Flow I-40-ON: 2.75 to 7.76 m³/hr; 45.8 to 129.4 l/min
- Recommended pressure range: 2.5 to 7.0 bar; 250 to 700 kPa
- Operating pressure range: 2.5 to 7.0 bar; 250 to 700 kPa
- Precipitation rates: 15 mm/hr approximately
- Nozzle trajectory: 25°

▶ = *Advanced Feature descriptions on page 18*



**I-40-06**  
 Overall height: 26 cm  
 Pop-up height: 15 cm  
 Exposed diameter: 5 cm  
 Inlet size: 1" BSP



**I-40 Reclaimed**  
 Available as a factory installed option on all models



**I-40 High Speed**  
 Available as a factory installed option on all models

### I-40 - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
<b>I-40-04-SS</b> = 10 cm Pop-up <b>I-40-06-SS</b> = 15 cm Pop-up	Adjustable arc, stainless steel riser, check valve and 6 nozzles	<b>B</b> = BSP inlet threads <b>R</b> = Reclaimed water ID <b>HS</b> = High speed <b>HS-R</b> = High speed and reclaimed water ID	<b>#8 to #25</b> = Factory installed nozzle number

### I-40-ON - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
<b>I-40-04-SS-ON</b> = 10 cm Pop-up <b>I-40-06-SS-ON</b> = 15 cm Pop-up	Full-circle, opposing nozzle, stainless steel riser, check valve and 6 nozzles	<b>B</b> = BSP inlet threads <b>R</b> = Reclaimed water ID <b>ON</b> = Full circle opposing nozzle <b>ON-R</b> = Full circle opposing nozzles, reclaimed water ID	<b>#15 to #28</b> = Factory installed nozzle number

**Examples:**

- I-40-04-SS - B = 10 cm Pop-up, BSP inlet threads
- I-40-04-SS - ON-R - B - 23 = 10 cm Pop-up, full-circle opposing nozzles, reclaimed water ID, #23 nozzle, BSP inlet threads
- I-40-06-SS - 15 - B = 15 cm Pop-up, #15 nozzle, BSP inlet threads

ROTORS

ROTORS

I-40 STANDARD NOZZLE PERFORMANCE DATA							
Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</sup> /hr	l/min	■	▲
<b>8</b> (40) Lt. Brown	2.5	250	13.1	1.63	27.2	19	22
	3.0	300	13.4	1.80	30.0	20	23
	3.5	350	13.7	1.94	32.3	21	24
	4.0	400	14.0	2.06	34.4	21	24
	4.5	450	14.0	2.18	36.3	22	26
	5.0	500	14.3	2.29	38.2	22	26
<b>10</b> (41) Lt. Green	3.0	300	14.6	2.20	36.6	21	24
	3.5	350	14.9	2.37	39.4	21	24
	4.0	400	15.2	2.52	42.0	22	25
	4.5	450	15.5	2.67	44.5	22	25
	5.0	500	15.5	2.81	46.8	23	27
	5.5	550	15.8	2.96	49.3	24	27
<b>13</b> (42) Lt. Blue	3.0	300	14.9	2.36	39.4	21	24
	3.5	350	15.2	2.55	42.6	22	25
	4.0	400	15.5	2.73	45.5	23	26
	4.5	450	15.5	2.90	48.3	24	28
	5.0	500	15.8	3.06	51.0	24	28
	5.5	550	16.2	3.23	53.9	25	29
<b>15</b> (43) Grey	3.0	300	16.2	2.93	48.8	22	26
	3.5	350	16.5	3.19	53.2	24	27
	4.0	400	16.8	3.44	57.3	24	28
	4.5	450	17.1	3.67	61.2	25	29
	5.0	500	17.4	3.89	64.9	26	30
	5.5	550	18.0	4.14	68.9	26	30
<b>23</b> (44) Dk. Green	3.5	350	18.6	4.48	74.6	26	30
	4.0	400	18.9	4.76	79.4	27	31
	4.5	450	19.2	5.03	83.9	27	32
	5.0	500	19.5	5.29	88.1	28	32
	5.5	550	19.8	5.56	92.7	28	33
	6.0	600	20.1	5.79	96.5	29	33
<b>25</b> (45) Dk. Blue	3.5	350	19.8	4.98	83.0	25	29
	4.0	400	20.1	5.33	88.7	26	30
	4.5	450	20.4	5.65	94.2	27	31
	5.0	500	20.7	5.96	99.3	28	32
	5.5	550	21.0	6.29	104.9	28	33
	6.0	600	21.0	6.57	109.6	30	34

I-40 HIGH-SPEED NOZZLE PERFORMANCE DATA							
Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</sup> /hr	l/min	■	▲
<b>8</b> (40) Lt. Brown	2.5	250	12.2	1.63	27.2	22	25
	3.0	300	12.5	1.80	30.0	23	27
	3.5	350	12.8	1.94	32.3	24	27
	4.0	400	12.8	2.06	34.4	25	29
	4.5	450	13.1	2.18	36.3	25	29
	5.0	500	13.4	2.29	38.2	25	29
<b>10</b> (41) Lt. Green	3.0	300	13.4	2.20	36.6	34	28
	3.5	350	13.7	2.37	39.4	25	29
	4.0	400	14.0	2.52	42.0	26	30
	4.5	450	14.0	2.67	44.5	27	31
	5.0	500	14.3	2.81	46.8	27	32
	5.5	550	14.6	2.96	49.3	28	32
<b>13</b> (42) Lt. Blue	3.0	300	13.7	2.36	39.4	25	29
	3.5	350	14.0	2.55	42.6	26	30
	4.0	400	14.3	2.73	45.5	27	31
	4.5	450	14.3	2.90	48.3	28	33
	5.0	500	14.6	3.06	51.0	29	33
	5.5	550	14.9	3.23	53.9	29	33
<b>15</b> (43) Grey	3.0	300	15.2	2.93	48.8	25	29
	3.5	350	15.5	3.19	53.2	26	30
	4.0	400	15.8	3.44	57.3	27	32
	4.5	450	15.8	3.67	61.2	29	34
	5.0	500	16.2	3.89	64.9	30	34
	5.5	550	16.5	4.14	68.9	31	35
<b>23</b> (44) Dk. Green	3.5	350	16.8	4.48	74.6	32	37
	4.0	400	17.4	4.76	79.4	32	36
	4.5	450	17.7	5.03	83.9	32	37
	5.0	500	17.7	5.29	88.1	34	39
	5.5	550	18.0	5.56	92.7	34	40
	6.0	600	18.3	5.79	96.5	35	40
<b>25</b> (45) Dk. Blue	3.5	350	17.4	4.98	83.0	33	38
	4.0	400	18.0	5.33	88.7	33	38
	4.5	450	18.3	5.65	94.2	34	39
	5.0	500	18.6	5.96	99.3	34	40
	5.5	550	18.9	6.29	104.9	35	41
	6.0	600	19.2	6.57	109.6	36	41



**Note:**  
All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.

**I-40 DUAL OPPOSING NOZZLE PERFORMANCE DATA**

Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</sup> /hr	l/min	■	▲
<b>15</b> ● Grey	3.0	300	15.2	2.75	45.8	12	14
	3.5	350	15.8	2.91	48.5	12	13
	4.0	400	16.2	3.06	51.0	12	14
	4.5	450	16.8	3.20	53.3	11	13
	5.0	500	17.1	3.32	55.4	11	13
	5.5	550	17.4	3.46	57.7	11	13
	6.0	600	17.7	3.58	59.6	11	13
<b>18</b> ● Red	3.0	300	17.4	2.90	48.3	10	11
	3.5	350	17.7	3.15	52.5	10	12
	4.0	400	18.0	3.38	56.4	10	12
	4.5	450	18.0	3.61	60.1	11	13
	5.0	500	18.3	3.82	63.7	11	13
	5.5	550	18.9	4.05	67.5	11	13
	6.0	600	19.2	4.25	70.8	12	13
<b>20</b> ● Dk. Brown	3.5	350	18.3	3.98	66.2	12	14
	4.0	400	18.9	4.26	71.1	12	14
	4.5	450	19.2	4.54	75.6	12	14
	5.0	500	19.5	4.80	80.0	13	15
	5.5	550	20.1	5.08	84.7	13	15
	6.0	600	19.8	5.32	88.7	14	16
	6.2	620	19.8	5.42	90.4	14	16
<b>23</b> ● Dk. Green	3.5	350	18.9	4.23	70.6	12	14
	4.0	400	19.5	4.55	75.8	12	14
	4.5	450	19.8	4.85	80.8	12	14
	5.0	500	20.1	5.14	85.6	13	15
	5.5	550	20.4	5.45	90.8	13	15
	6.0	600	20.7	5.71	95.1	13	15
	6.2	620	20.7	5.82	97.0	14	16
<b>25</b> ● Dk. Blue	3.5	350	19.5	4.60	76.7	12	14
	4.0	400	20.1	4.92	82.1	12	14
	4.5	450	20.4	5.23	87.2	13	14
	5.0	500	20.7	5.52	92.0	13	15
	5.5	550	21.0	5.84	97.3	13	15
	6.0	600	21.3	6.10	101.7	13	15
	6.2	620	21.3	6.22	103.6	14	16
<b>28</b> ● Black	3.5	350	19.8	5.73	95.5	15	17
	4.0	400	20.4	6.07	101.1	15	17
	4.5	450	21.0	6.38	106.4	14	17
	5.0	500	21.3	6.68	111.3	15	17
	5.5	550	21.9	7.00	116.7	15	17
	6.0	600	22.3	7.27	121.1	15	17
	6.2	620	22.3	7.38	122.9	15	17
6.5	650	22.6	7.52	125.3	15	17	
6.9	690	23.2	7.73	128.8	14	17	

**I-40 NOZZLES**



Opposing

Front

Back



**I-40 Turf Cup Kit option**  
Available as a field installed option on all models

**I-40 Opposing Nozzle 360° Model**



**Note:**

Precipitation rates for the ON-Opposing Nozzles models are calculated at 360°. For the precipitation rate for a 360° sprinkler, divide by 2.

# I-90

Radius: **22.3 to 31.4 m**  
 Flow: **6.7 to 19.04 m³/hr; 111.7 to 317.2 l/min**  
 Inlet: **1½" BSP**

## FEATURES

- Model: 8 cm
- Arc setting: 40° to 360°
- Dual trajectory nozzle choices:
  - 8 standard trajectory (22.5°)
  - 8 low angle trajectory (15°)
- Nozzle range: #25 to #73
- Exclusive Pressure Port™ nozzle technology
- Through-the-top arc adjustment
- QuickCheck™ arc mechanism
- Water lubricated gear-drive
- Standard factory installed nozzle: #53
- Factory installed rubber logo cap
- Warranty period: 5 years
- ▶ Opposing nozzle 360° model
- ▶ Dual trajectory colour-coded nozzles
- ▶ Optional reclaimed water ID
- ▶ Drain check valve (up to 2 m of elevation)



**I-90**  
 Overall height: ADV/36V: 28 cm  
 Pop-up height: 8 cm  
 Exposed diameter: 9 cm  
 Inlet size: 1½" (40 mm) BSP

## OPERATING SPECIFICATIONS

- Radius:
  - I90-ADV: 20.1 m to 29.6 m
  - I90-36V: 22.3 m to 31.4 m
- Flow:
  - I90-ADV: 6.70 to 19.04 m³/hr; 111.7 to 317.2 l/min
  - I90-36V: 6.93 to 18.92 m³/hr; 115.5 to 315.3 l/min
- Recommended pressure range: 5.5 to 8.0 bar; 550 to 800 kPa
- Operating pressure range: 5.0 to 8.0 bar; 500 to 800 kPa
- Precipitation rates: 19 mm/hr approximately (360°)

## USER-INSTALLED OPTIONS

- Turf Cup Kit
    - I-90 all: P/N 467955
  - Rubber Cover Kit
    - I-90-ADV: P/N 234200 (all)
    - I-90-36V: P/N 234200 (0711 date code and after)
    - I-90-36V: P/N 234201 (0611 date code and prior only)
  - Low-Angle Nozzles: #25 to #73
- ▶ = Advanced Feature descriptions on page 18



**Turf cup kit**  
 P/N 467955



**Rubber cover kits**  
 I90-ADV: P/N 234200  
 I90-36V: P/N 234201



**I-90 Reclaimed**  
 Available as a factory installed option on all models

### I-90 - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
I-90 = 8 cm Pop-up	Plastic riser, check valve, and 8 standard trajectory nozzles	<b>ADV</b> = Adjustable arc <b>ARV</b> = Adjustable arc and reclaimed water ID <b>36V</b> = Full-circle, opposing nozzles <b>3RV</b> = Full-circle, opposing nozzles and reclaimed water ID <b>B</b> = BSP inlet threads	<b>#25 to #73</b> = Factory installed nozzle number

**Examples:**

- I-90 - **ADV** - **B** = 8 cm Pop-up, adjustable arc, with BSP inlet threads
- I-90 - **36V** - **B** - **43** = 8 cm Pop-up, full-circle, opposing nozzles, with BSP inlet threads, and #43 nozzle
- I-90 - **3RV** - **B** - **63** = 8 cm Pop-up, full-circle, opposing nozzles, reclaimed water ID, with BSP inlet threads, and #63 nozzle

ROTORS

I-90-ADV NOZZLE PERFORMANCE DATA							
Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</sup> /hr	l/min	■	▲
<b>25</b> ● Lt. Blue	5.5	550	20.1	6.70	111.7	33.1	38.2
	6.0	600	20.4	7.16	119.2	34.3	39.6
	7.0	700	20.7	7.54	125.7	35.1	40.5
	7.5	750	21.0	8.09	134.8	36.6	42.2
<b>33</b> ● Grey	5.5	550	20.7	8.22	137.0	38.3	44.2
	6.0	600	21.0	8.68	144.6	39.2	45.3
	7.0	700	21.3	9.18	152.9	40.3	46.6
<b>38</b> ● Red	5.5	550	21.9	9.22	153.7	38.3	44.2
	6.0	600	22.3	9.77	162.8	39.5	45.6
	7.0	700	22.9	10.31	171.9	39.5	45.6
<b>43</b> ● Dk. Brown	5.5	550	22.6	10.47	174.5	41.2	47.5
	6.0	600	22.6	11.02	183.6	43.3	50.0
	7.0	700	22.9	11.52	191.9	44.1	50.9
	7.5	750	23.5	12.13	202.1	44.0	50.9
<b>48</b> ● Dk. Green	5.5	550	23.5	11.40	190.0	41.4	47.8
	6.0	600	24.1	11.95	199.1	41.2	47.6
	7.0	700	24.7	12.52	208.6	41.1	47.4
<b>53</b> ● Dk. Blue	5.5	550	24.7	12.47	207.8	40.9	47.2
	6.0	600	25.6	12.99	216.5	39.6	45.8
	7.0	700	26.2	13.52	225.2	39.3	45.4
	7.5	750	26.5	14.11	235.1	40.1	46.3
<b>63</b> ● Black	5.5	550	26.2	14.15	235.8	41.2	47.6
	6.0	600	26.8	14.88	247.9	41.4	47.8
	7.0	700	27.4	15.67	261.2	41.7	48.1
	7.5	750	27.7	16.33	272.2	42.5	49.0
<b>73</b> ● Orange	5.5	550	27.1	16.51	275.2	44.9	51.8
	6.0	600	27.7	17.13	285.4	44.5	51.4
	7.0	700	28.3	17.74	295.6	44.2	51.0
	7.5	750	29.0	18.38	306.2	43.8	50.6
	8.0	800	29.6	19.04	317.2	43.5	50.3

I-90-36V NOZZLE PERFORMANCE DATA							
Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</sup> /hr	l/min	■	▲
<b>25</b> ● Lt. Blue	5.5	550	22.3	6.93	115.5	14.0	16.2
	6.0	600	22.9	7.36	122.6	14.1	16.3
	7.0	700	23.2	7.79	129.8	14.5	16.8
	7.5	750	23.8	8.29	138.2	14.7	16.9
<b>33</b> ● Grey	5.5	550	23.5	8.25	137.4	15.0	17.3
	6.0	600	23.8	8.72	145.4	15.4	17.8
	7.0	700	24.4	9.22	153.7	15.5	17.9
<b>38</b> ● Red	5.5	550	24.4	9.22	153.7	15.5	17.9
	6.0	600	25.0	9.75	162.4	15.6	18.0
	7.0	700	25.3	10.29	171.5	16.1	18.6
	7.5	750	25.9	10.84	180.6	16.1	18.6
<b>43</b> ● Dk. Brown	5.5	550	25.3	10.49	174.9	16.4	18.9
	6.0	600	25.6	11.04	184.0	16.8	19.4
	7.0	700	25.9	11.56	192.7	17.2	19.9
	7.5	750	26.2	12.13	202.1	17.7	20.4
<b>48</b> ● Dk. Green	5.5	550	26.2	11.27	187.8	16.4	18.9
	6.0	600	27.1	11.93	198.7	16.2	18.7
	7.0	700	27.4	12.45	207.4	16.5	19.1
<b>53</b> ● Dk. Blue*	5.5	550	27.1	12.31	205.2	16.7	19.3
	6.0	600	27.4	12.88	214.6	17.1	19.8
	7.0	700	28.0	13.45	224.1	17.1	19.7
	7.5	750	28.3	14.02	233.6	17.4	20.1
<b>63</b> ● Black	5.5	550	28.0	14.36	239.2	18.3	21.1
	6.0	600	28.7	14.97	249.5	18.2	21.1
	7.0	700	29.3	15.76	262.7	18.4	21.3
	7.5	750	29.6	16.36	272.5	18.7	21.6
<b>73</b> ● Orange	5.5	550	29.3	16.38	272.9	19.1	22.1
	6.0	600	29.9	17.04	283.9	19.1	22.0
	7.0	700	30.2	17.67	294.5	19.4	22.4
	7.5	750	31.1	18.29	304.7	18.9	21.8
	8.0	800	31.4	18.92	315.3	19.2	22.2



\*\* For low angle nozzle performance, reduce radius by 15%.

\* Factory installed nozzle

**Notes:**

Precipitation rates for ADV models are calculated for 180° operation. Precipitation rates for 36V models are calculated for 360° operation. All triangular rates are equilateral. Complies to ASAE standard.

I-90





# STK-1 / STK-2

ST SYSTEM FOR COOLING AND CLEANING SYNTHETIC TURF

Radius: **31.4 to 36.6 m**  
 Flow: **16.9 to 20.9 m<sup>3</sup>/hr; 282.0 to 348 l/min**  
 Inlet: **1½" BSP (ST-90), 1½" ACME (STG-900)**

## FEATURES

- Standard installed nozzle: #83
- Arc setting: 40° to 360°
- QuickCheck™ arc mechanism
- Through-the-top arc adjustment
- Water lubricated gear-drive
- Factory installed rubber logo cap
- Nozzle trajectory: 22.5°
- Warranty period: 5 year component part

## OPERATING SPECIFICATIONS

- Radius: 31.4 m to 36.6 m
- Flow: 16.9 to 20.9 m<sup>3</sup>/hr; 282 to 348 l/min
- Operating pressure range: 6.9 to 8.3 bar; 690 to 830 kPa
- Precipitation rate: 35 mm/hr approximately

## USER INSTALLED OPTIONS

- Rubber Cover Kit ST-90: P/N 234200
- Rubber Cover Kit STG-900: P/N 473900

ST ROTOR	
Model	Description
ST-90-B-83	8 cm pop-up, jar top cap, adjustable arc, plastic riser, and BSP inlet threads
STG-900-83	8 cm pop-up, top service, adjustable arc, plastic riser, and ACME inlet threads



### ST-90\*

Overall height: 29 cm  
 Pop-up height: 8 cm  
 Diameter: 14 cm  
 Inlet size: 1½" (40 mm) BSP

\* not for use with the ST Vault



### STG-900\*

Overall height: 36 cm  
 Pop-up height: 8 cm  
 Diameter: 20 cm  
 Inlet size: 1½" (40 mm) ACME

\* for use with the ST173026B Vault

## KIT CONFIGURATIONS

STK-1 / STK-2 COMPONENTS		
<b>Kit Descriptions</b> For specification ease and to ensure the correct product is installed, the ST System is available in kit configurations below.	<b>STK-1</b> STG-900 Block System (remotely located valve)	<b>STK-2</b> STG-900 VAH System (valve adjacent to head)
ST Rotor: Synthetic Turf Rotor without rubber cover kit	STG-900	STG-900
ST Vault: Vault with 3-piece polymer-concrete cover	ST-173026B	ST-173026B
ST Swing Joint: "VA" 2" (50mm) PVC swing joint with 7 pivot points	ST-2008VA	ST-2008VA
ST Valve & Fitting Kit: ICV-151 valve, high pressure rated ball valve & fitting kit	—	ST-VBVK
ST Adapter Elbow Fitting*	239800	239800
ST Rotor Adapter Fitting**	239300	—
Rubber Cover Kit: STG-900 Rubber Cover Kit	473900	473900
Quick-Coupler Valve: 1" (25mm) inlet with 1¼" (32 mm) outlet for key	HQ5RC-BSP	HQ5RC-BSP
BSP Inlet Adapter: Converts swing joint to 2" (50 mm) male BSP threads	241400	241400

### Notes:

\*ST Adapter Elbow Fitting connects ST-2008VA swing joint to rotor adapter fitting (STK-1B) also connects ST-VBVK to STG-900 rotor (STK-2B)

\*\*ST Rotor Adapter Fitting connects 239800 adapter elbow fitting to STG-900 rotor's ACME inlet (STK-1B)

**ST-90 / STG-900 NOZZLE PERFORMANCE DATA**

Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</sup> /hr	l/min	■	▲
73 ●	7.0	700	31.4	16.9	282	34.3	39.6
	7.5	750	33.2	17.5	291	31.7	36.6
	8.0	800	35.1	18.1	301	29.4	34.0
83 ●	7.0	700	34.1	19.1	319	32.8	37.9
	7.5	750	35.4	20.0	333	32.0	37.0
	8.0	800	36.6	20.9	348	31.2	36.1

**Notes:**

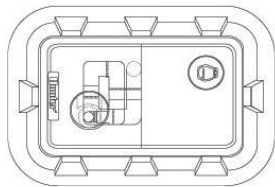
All precipitation rates calculated for 180° operation.  
For precipitation rate of a 360° sprinkler, divide by 2.

Requires minimum 7.0 bar; 700 kPa dynamic pressure supplied to swing joint inlet.

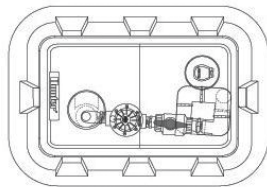
**INSTALLATION DETAILS**

**STK-1**

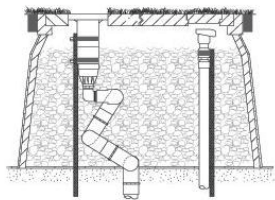
**STK-2**



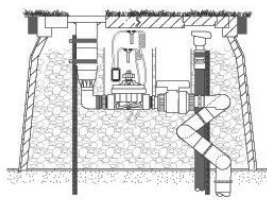
ON FIELD SIDE



ON FIELD SIDE



VIEW FROM ON FIELD SIDE



VIEW FROM ON FIELD SIDE

**ST Rotor**



**ST SWING JOINTS**

Multi-axis 22 bar; 2,200 kPa rated vertical alignment PVC swing joints with seven O-Ring sealed pivot points allow the rotor to be perfectly placed within the ST Vault's cover set opening.

**ST2008VA:** 2" (50 mm) for ST-90, STG-900

**Inlet:** 2" (50 mm) Slip\*  
**Outlet:** 1½" ACME

\* Use P/N 241400 adapter to male BSP threads



**ROTORS**

**ST VALVE SETS**

Heavy-duty control valves configured to complement the ST Rotors and ST Vaults.

**STVBVFK:** for STG-900 in STK-2 Kit

**Valve:** 1½" (40 mm) NPT ICV  
**Ball Valve:** 22 bar (2,200 kPa) rating  
**Inlet:** 1½" (40 mm) ACME  
**Outlet:** 1½" (40 mm) ACME

**Low Pressure Loss Design:** 0.7 bar; 70 kPa at 22.7 m<sup>3</sup>/hr; 378 l/min from swing joint inlet through to rotor  
**Includes:** 1½" (40 mm) connection fittings



**ST VAULTS**

Heavy-duty tapered fiberglass and polymer-concrete construction with pre-cast holes for rotor and quick coupler valve.

**ST173026B for STG-900 includes 51 mm thick 3-piece PC cover set**

**Main Cover:** 43 cm x 76 cm  
**Overall Height:** 66 cm  
**Body Weight:** 47 kg  
**Total Weight:** 73 kg  
**Base Pad:** 68 cm x 104 cm  
**Quick Access Ports:** 1



① Quick-Coupler

All ST Vaults include convenient quick access ports. Quick-couplers provide a convenient source of water for washing down spills and water-soluble paint. Integrated in-vault design eliminates the need for additional quick-coupler enclosures.

# STK-6V

ST SYSTEM FOR CLEANING, COOLING, FLUSHING AND PREPARING SYNTHETIC SPORTS FIELDS FOR PLAY

Radius: **32.5 to 50.3 m**  
 Flow: **21.8 to 74.2 m<sup>3</sup>/hr; 364 to 1,237 l/min**  
 Inlet: **2" (50 mm) BSP**

## FEATURES

- Nozzle choices: 6
- Standard nozzle: #20
- Nozzle range: #16 to #26
- Nozzle trajectory: 22.5°
- Gear-drive: Isolated, grease lubricated gear-drive
- Factory installed rubber logo cap (ST-1600-B / ST-1600-HSB)
- Arc Adjustment: Moveable stops (left and right) arc adjustment
- Arc setting: 40° to non-reversing 360°
- Ratcheting nozzle turret
- Telescoping rubber infill barrier on riser
- Adjustable speed of rotation: 0 to 65 seconds (High speed models, 180° at 8 bar, 800 kPa)
- Internal construction: Brass, stainless steel and ball-bearings
- Optional Infill Barrier System (ST-1600-B / ST-1600-HSB)
- Warranty period: 5 year component part

## OPERATING SPECIFICATIONS

- Radius: 32.5 to 50.3 m
- Flow: 21.8 to 74.2 m<sup>3</sup>/hr; 364 to 1,237 l/min
- Operating pressure range: 4.0 to 8.0 bar; 400 to 800 kPa
- Precipitation rate: 60 mm/hr approximately

## KIT CONFIGURATIONS

STK-6V				
Kit Description (Components are ordered individually)	STK-6V-B-2P Standard Pop-Up 2" (50 mm) Plastic Valve	STK-6V-HSB-2P High Speed Pop-Up 2" (50 mm) Plastic Valve	STK-6V-B-3M Standard Pop-Up 3" (80 mm) Metal Valve	STK-6V-HSB-3M High Speed Pop-Up 3" (80 mm) Metal Valve
ST Rotor: Synthetic turf rotor	ST-1600-B	ST-1600-HS-B	ST-1600-B	ST-1600-HS-B
ST Infill Barrier System: Rubber cover kit	ST-IBS-1600	ST-IBS-1600	ST-IBS-1600	ST-IBS-1600
ST Bracket: Rotor hanger and elevation adjustment	ST-BKT-1600	ST-BKT-1600	ST-BKT-1600	ST-BKT-1600
ST Vault: 4-piece polymer-concrete cover set	ST-243636-B	ST-243636-B	ST-243636-B	ST-243636-B
ST Manifold: 3" (80 mm) fittings, isolation valve and drain valve	ST-BVF30-K	ST-BVF30-K	ST-BVF30-K	ST-BVF30-K
ST Valve: With remote on-off-auto selector	ST-V20-KVP	ST-V20-KVP	ST-V30-KV	ST-V30-KV
ST Variable Speed Valve: Regulates opening speed	ST-NDL-K	ST-NDL-K	ST-NDL-K	ST-NDL-K
ST Support: Adjustable manifold support (2 required)	ST-SPT-K	ST-SPT-K	ST-SPT-K	ST-SPT-K
ST Inlet Hose: Flexible stainless steel alignment hose	ST-H30-K	ST-H30-K	ST-H30-K	ST-H30-K
BSP Inlet Adapter: 3" (80 mm) NPT x BSP	855000	855000	855000	855000
BSP Inlet Adapter: 1" (25 mm) NPT x BSP male (2 required)	855100	855100	855100	855100
Quick Coupler Valve: 1" (25 mm) BSP inlet, 1¼" (32 mm) outlet for key	HQ-5RC-BSP	HQ-5RC-BSP	HQ-5RC-BSP	HQ-5RC-BSP



**ST-1600-B**  
**ST-1600-HS-B**  
 Overall height: 57 cm  
 Pop-up height: 13 cm  
 Diameter: 36 cm  
 Inlet size: 2" (50 mm) BSP\*

\* Use P/N 241400 adapter to 2" (50 mm) PVC pipe if needed



**ST-1600-BR**  
**ST-1600-HS-BR**  
 (Riser Mounted Model)  
 Overall height: 22 cm  
 Diameter: 21 cm  
 Inlet size: 2" (50 mm) BSP\*

\* Use P/N 241400 adapter to 2" (50 mm) PVC pipe if needed

**ST Infill Barrier System**

**ST-IBS-1600**

The unique IBS rubber cover kit includes vertical rubber barriers to retain infill material creating a safe transition where the rotor pops up. The IBS can also be trimmed to create a flat exposed surface area.

**ST Adjustable Hanger Bracket**

**ST-BKT-1600**

This bracket supports the rotor within the vault and provides vertical elevation adjustments allowing for a perfect surface transition.

**ST Manifold and Isolation Valve**

**ST-BVF30-K**

Rated to 35 bar; 350 kPa working pressure, this 3" (80 mm) galvanized ductile iron assembly includes Victaulic™ type grooved connections, a butterfly isolation valve, a point of connection for the quick coupler, and a 1" (25 mm) brass drain valve.

**ST H-Block Manifold Supports**

**ST-SPT-K**

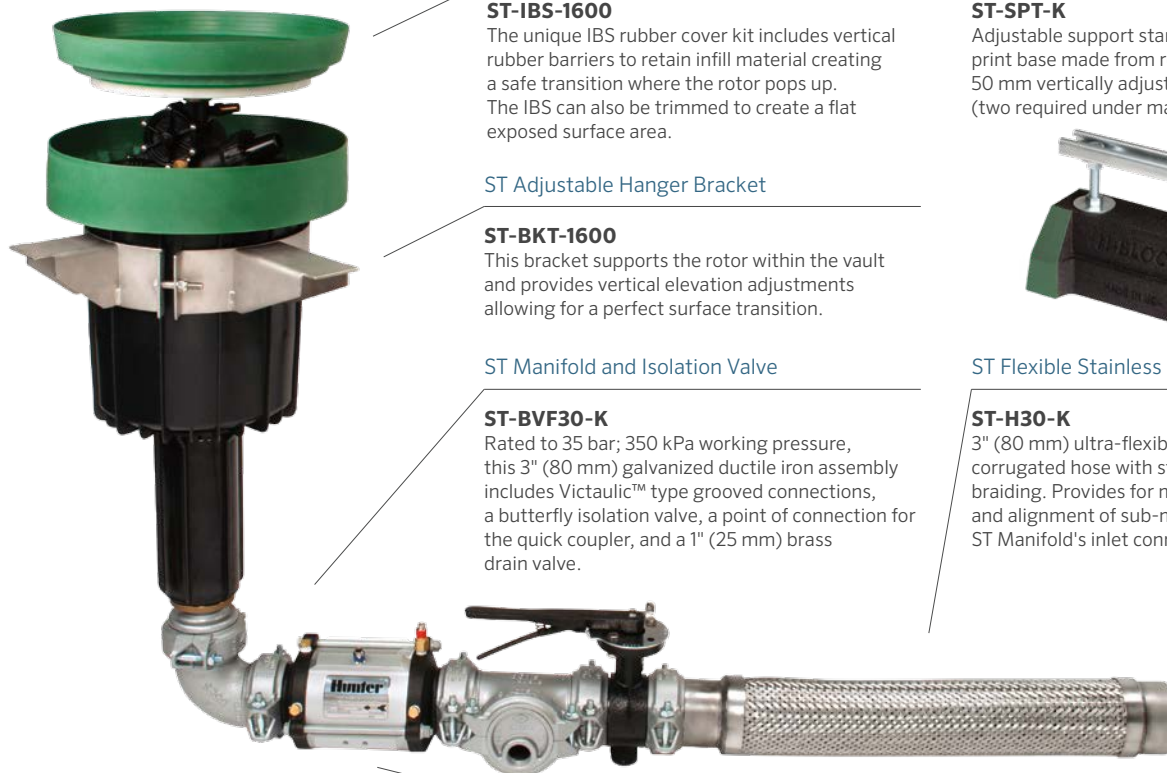
Adjustable support stands include a large footprint base made from recycled tire rubber and a 50 mm vertically adjustable support rail (two required under manifold).



**ST Flexible Stainless Inlet Hose**

**ST-H30-K**

3" (80 mm) ultra-flexible stainless steel corrugated hose with stainless steel support braiding. Provides for minor offset and alignment of sub-mainline to the ST Manifold's inlet connection.



**ST Low-Loss, Slow-Opening Valve (Plastic)**

For Flows Up to 45.0 m³/hr; 757 l/min



**ST-V20-KVP:** Heavy-duty plastic control valve  
**Valve:** 2" (50 mm) Grooved Vic Type  
**Opening Speed:** ST-NDL-K regulates/slows speed  
**Pressure Loss:** Ultra Low (0.15 bar; 15 kPa at 45.0 m³/hr; 757 l/min)  
**Manual Control:** Remote On-Off-Auto Selector and Solenoid (not shown)

**ST Low-Loss, Slow-Opening Valve (Metal)**

**ST-V30-KV:** Heavy-duty metal control valve  
**Valve:** 3" (80 mm) Grooved Vic Type  
**Opening Speed:** ST-NDL-K regulates/slows speed  
**Pressure Loss:** Ultra Low (0.15 bar; 15 kPa at 65.0 m³/hr; 1,082 l/min)  
**Manual Control:** Remote On-Off-Auto Selector and Solenoid (not shown)

**ST Rotors have many uses**

While ST Rotors are specifically designed for cleaning and cooling synthetic turf sports fields, they are also great for other applications such as pastures, horse arenas, dust control and even casual natural turf areas.

**INSIDE THE ST SYSTEM**

Open access to all components for ease of ongoing maintenance



**FROM THE TOP**

Smooth and safe surface area with quick-access ports



**SEAMLESS INTEGRATION**

Blends in perfectly with the surrounding synthetic surface



## ST VAULTS

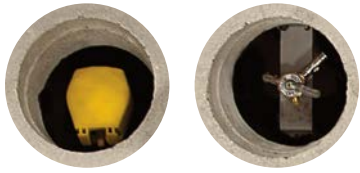
Heavy-duty tapered fiberglass and polymer-concrete construction with pre-cast holes for rotor, quick coupler valve, and remote manifold assembly.

Quick-couplers provide a convenient source of water for washing down spills and water-soluble paint. Integrated in-vault design eliminates the need for additional quick-coupler enclosures.

The ST-V30KV valve kit includes a remotely located On-Off-Auto selector and solenoid manifold assembly. These convenient features bring valve manual control functions and solenoid splice connections closer to the surface for easy access.

**ST-243636B:** includes 76 mm thick 4-piece PC cover set

- Main Cover:** 61 cm x 91 cm
- Overall Height:** 91 cm
- Body Weight:** 70 kg
- Total Weight:** 138 kg
- Base Pad:** 106 cm x 122 cm
- Quick Access Ports:** 2



① Quick-Coupler      ② On-Off-Auto Selector

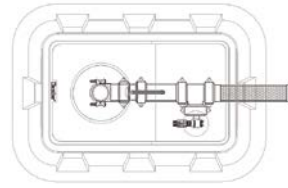


ST-1600 Rotor in Action



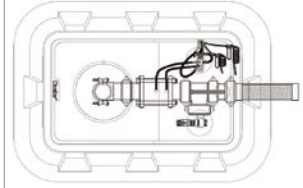
## INSTALLATION DETAILS

STK-5V

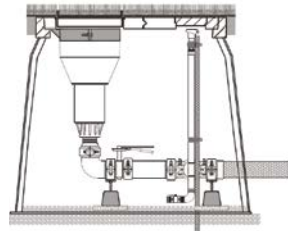


ON FIELD SIDE

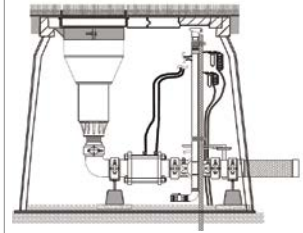
STK-6V



ON FIELD SIDE



VIEW FROM ON FIELD SIDE



VIEW FROM ON FIELD SIDE

## ST-1600 NOZZLE PERFORMANCE DATA

Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</sup> /hr	l/min	■	▲
16 ●	4.0	400	32.5	21.8	364	41.4	47.8
	5.0	500	35.0	24.4	406	39.8	45.9
	6.0	600	37.0	26.8	446	39.1	45.1
	7.0	700	39.0	28.9	482	38.0	43.9
	8.0	800	41.0	31.2	520	37.1	42.9
18 ●	4.0	400	34.0	24.3	405	42.0	48.6
	5.0	500	37.0	27.1	452	39.6	45.8
	6.0	600	39.0	29.8	496	39.1	45.2
	7.0	700	40.5	32.1	535	39.1	45.2
	8.0	800	43.0	34.8	580	37.6	43.5
20 ●	4.0	400	35.0	32.7	545	53.4	61.7
	5.0	500	39.0	36.5	609	48.1	55.5
	6.0	600	43.0	40.1	668	43.4	50.1
	7.0	700	44.0	43.3	721	44.7	51.6
	8.0	800	45.0	46.4	773	45.8	52.9
22 ●	4.0	400	36.0	38.9	649	60.1	69.4
	5.0	500	39.5	43.6	726	55.8	64.5
	6.0	600	44.0	47.7	795	49.3	56.9
	7.0	700	47.0	51.5	859	46.7	53.9
	8.0	800	48.0	55.2	920	47.9	55.3
24 ●	4.0	400	37.0	45.9	765	67.1	77.4
	5.0	500	40.5	51.3	855	62.6	72.2
	6.0	600	45.0	56.2	937	55.5	64.1
	7.0	700	47.5	60.7	1012	53.8	62.2
	8.0	800	48.7	65.0	1084	54.9	63.3
26 ●	4.0	400	38.4	53.0	883	71.8	82.9
	5.0	500	41.4	59.2	986	68.8	79.5
	6.0	600	46.0	64.6	1077	61.0	70.4
	7.0	700	48.7	69.7	1162	58.6	67.7
	8.0	800	50.3	74.2	1237	58.7	67.8



## **SIMPLE TO SPECIFY,** *Easy to Install & Maintain*

The Hunter ST System is the first and only cost-effective integrated solution designed to exceed the unique and specific needs of the synthetic turf irrigation market. The core of the Hunter ST System features our gear-driven long-range rotors. Coupled with the heavy-duty manifold assembly, low-pressure loss valves and robust, feature-packed enclosures, they provide the ultimate in installation flexibility and long-term total

access to all irrigation components including the manifold's point of connection. Such complete access is an absolute must when the surrounding synthetic surface is not easily excavated and restored to original condition without huge expense, specialised equipment and complicated procedures. For the most complete and highest quality synthetic turf watering solution, the answer is clearly the Hunter ST System.