

# PGP™ ULTRA & I-20 PRB

Radius: **4.9 to 14.0 m**

Flow: **0.07 to 2.22 m<sup>3</sup>/hr; 1.2 to 36.0 l/min**

The PGP Ultra and I-20 PRB are built to thrive in applications where high water pressure could otherwise lead to inefficient nozzle operation.

## KEY BENEFITS

- Pressure-regulated body (3.1 bar; 310 kPa) reduces high incoming pressure to increase nozzle efficiency
- Patented automatic arc return feature returns the turret back to the original arc pattern if vandalised; adjustable arc from 50° to 360°
- Non-strippable drive mechanism is protected from damage if turned in the opposite direction of travel
- Part- and full-circle in one model for flexibility across landscapes and reduced inventory
- Headed and slotted setscrew allows radius adjustment with a Hunter wrench or flat-blade screwdriver
- FloStop™ closes the flow of water from individual sprinklers, to change the nozzle or perform repairs (I-20 only)
- Flat-top nozzles allow fast, easy insertion
- Drain check valve prevents low-head drainage (up to 3 m of elevation)

## OPERATING SPECIFICATIONS

- Nozzle choices: 30
- Radius: 4.9 to 14.0 m
- Flow: 0.07 to 2.22 m<sup>3</sup>/hr; 1.2 to 36.0 l/min
- Nozzle discharge pressure: 3.1 bar; 310 kPa
- Operating pressure range: 1.4 to 7.0 bar; 140 to 700 kPa
- Precipitation rate: 10 mm/hr approximately
- Nozzle trajectory: standard = 25°, low-angle = 13°
- Nozzle racks: 1.5 to 8.0 blue, 2.0 to 4.5 low-angle grey, 0.50 to 3.0 black, MPR-25, MPR-30, MPR-35
- Warranty period: 5 years

## FACTORY-INSTALLED OPTIONS

- Reclaimed water ID
- Blue #1.5-4.0 nozzles

## USER-INSTALLED OPTIONS

- HSJ-0 prefabricated ¾" PVC swing joint



### PGP-00-PRB

Overall height: 22 cm  
Exposed diameter: 4.5 cm  
Inlet size: ¾"

### PGP-04-PRB

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



### I-20-00-PRB

Overall height: 22 cm  
Exposed diameter: 4.5 cm  
Inlet size: ¾"

### 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"

## PGP-ULTRA & I-20 PRB – SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Standard Features	3 Feature Options	4 Nozzle Options
<b>PGP-00-PRB</b> = Riser mount  <b>PGP-04-PRB</b> = 10 cm pop-up	Adjustable arc, plastic riser, pressure-regulated body, 8 standard nozzles, and 4 low-angle nozzles	<b>(blank)</b> = No option  <b>CV</b> = Drain check valve (PGP-04 only)  <b>CV-R</b> = Drain check valve and reclaimed water ID	<b>Blue 1.5-8.0</b> = Factory-installed nozzle number <b>Grey low-angle</b> <b>Black short-radius</b> <b>MPR-25, 30, 35 - Q, T, H, F</b>
<b>I-20-00-PRB</b> = Riser mount  <b>I-20-04-PRB</b> = 10 cm pop-up  <b>I-20-06-PRB</b> = 15 cm pop-up	Adjustable arc, plastic riser, pressure-regulated body, 8 standard nozzles, and 4 low-angle nozzles	<b>(blank)</b> = No option  <b>R</b> = Drain check valve and reclaimed water ID	<b>Blue 1.5-8.0</b> = Factory-installed nozzle number <b>Grey low-angle</b> <b>Black short-radius</b> <b>MPR-25, 30, 35 - Q, T, H, F</b>
<b>I-20-04-SS-PRB</b> = 10 cm pop-up  <b>I-20-06-SS-PRB</b> = 15 cm pop-up	Adjustable arc, stainless steel riser, pressure-regulated body, 8 standard nozzles, and 4 low-angle nozzles	<b>(blank)</b> = No option  <b>R</b> = Drain check valve and reclaimed water ID	<b>Blue 1.5-8.0</b> = Factory-installed nozzle number <b>Grey low-angle</b> <b>Black short-radius</b> <b>MPR-25, 30, 35 - Q, T, H, F</b>

### Examples:

- PGP-04-PRB = 10 cm pop-up, adjustable arc, plastic riser with no factory installed-nozzle
- I-20-04-PRB-3.0-2.5 = 10 cm pop-up, adjustable arc, plastic riser with 3.0 nozzle
- I-20-06-SS-PRB-R-MPR-25H = 15 cm pop-up, adjustable arc, stainless steel riser with MPR-25H

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

Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m <sup>3</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
<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
<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
<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
<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
<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
<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
<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	

**Note:**

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

**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
<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
<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
<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)

Flat-top nozzle for easy insertion coupled with a headed slotted adjustment screw for quick radius adjustment with a Hunter wrench or a flat-blade screwdriver.



**Pressure Regulation**

Continual operating pressure of 3.1 bar; 310 kPa

I-20 04 with PRB Body



**PR-075**

Overall height: 5.7 cm  
Inlet/outlet size: 3/4"  
For use under all models 3/4" inlet sprinklers, regulates to 3.1 bar; 310 kPa

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

Nozzle	Pressure		Radius	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
<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
<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
<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	

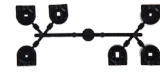
**PGP ULTRA / I-20 / PRB BLACK SHORT-RADIUS NOZZLE PERFORMANCE DATA**

Nozzle	Pressure		Radius	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
<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
<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
<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
<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
<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

