

# 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

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



ROTORS