

# I-90

Radius: **66' to 103'**  
Flow: **29.5 to 83.8 GPM**  
Inlet: **1½"**

## FEATURES

- Model: 3"
- 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 PressurePort™ 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 color-coded nozzles
- ▶ Optional reclaimed water ID
- ▶ Drain check valve (up to 9' of elevation)



### I-90

Overall height: ADV/36V: 11"  
Pop-up height: 3"  
Exposed diameter: 3½"  
Inlet size: 1½"

## OPERATING SPECIFICATIONS

- Radius: 66' to 103'
- Flow: 29.5 to 83.8 GPM
- Recommended pressure range: 80 to 120 PSI
- Operating pressure range: 80 to 120 PSI
- Precipitation rates: 0.75 in/hr approximately

## USER-INSTALLED OPTION

- 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 30](#)



**Turf cup kit**  
P/N 467955



**Rubber cover kits**  
P/N 234200; 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                                    |
|-------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>I-90</b> = 3" Pop-up | Plastic riser, check valve, and 8 nozzles | <b>ADV</b> = Adjustable arc<br><b>ARV</b> = Adjustable arc and reclaimed water ID<br><b>36V</b> = Full-circle, opposing nozzles<br><b>3RV</b> = Full-circle, opposing nozzles and reclaimed water ID | <b>#25 to #73</b> = Factory installed nozzle number |

### Examples:

**I-90 - ADV** = 3" Pop-up, adjustable arc

**I-90 - 36V - 43** = 3" Pop-up, full-circle, opposing nozzles, and #43 nozzle

**I-90 - 3RV - 63** = 3" Pop-up, full-circle, opposing nozzles, reclaimed water ID, and #63 nozzle

**I-90-ADV NOZZLE PERFORMANCE DATA**

| Nozzle                   | Pressure<br>PSI | Radius<br>ft. | Flow<br>GPM | Precip in/hr<br>■ ▲ |      |
|--------------------------|-----------------|---------------|-------------|---------------------|------|
| <b>25</b> ●<br>Lt. Blue  | 80              | 66            | 29.5        | 1.30                | 1.51 |
|                          | 90              | 67            | 31.5        | 1.35                | 1.56 |
|                          | 100             | 68            | 33.2        | 1.38                | 1.60 |
|                          | 110             | 69            | 35.6        | 1.44                | 1.66 |
| <b>33</b> ●<br>Gray      | 80              | 68            | 36.2        | 1.51                | 1.74 |
|                          | 90              | 69            | 38.2        | 1.54                | 1.78 |
|                          | 100             | 70            | 40.4        | 1.59                | 1.83 |
|                          | 110             | 71            | 42.6        | 1.63                | 1.88 |
| <b>38</b> ●<br>Red       | 80              | 72            | 40.6        | 1.51                | 1.74 |
|                          | 90              | 73            | 43.0        | 1.55                | 1.79 |
|                          | 100             | 75            | 45.4        | 1.55                | 1.79 |
|                          | 110             | 76            | 47.6        | 1.59                | 1.83 |
| <b>43</b> ●<br>Dk. Brown | 80              | 74            | 46.1        | 1.62                | 1.87 |
|                          | 90              | 74            | 48.5        | 1.70                | 1.97 |
|                          | 100             | 75            | 50.7        | 1.74                | 2.00 |
|                          | 110             | 77            | 53.4        | 1.73                | 2.00 |
| <b>48</b> ●<br>Dk. Green | 80              | 77            | 50.2        | 1.63                | 1.88 |
|                          | 90              | 79            | 52.6        | 1.62                | 1.87 |
|                          | 100             | 81            | 55.1        | 1.62                | 1.87 |
|                          | 110             | 82            | 57.5        | 1.65                | 1.90 |
| <b>53</b> ●<br>Dk. Blue* | 80              | 81            | 54.9        | 1.61                | 1.86 |
|                          | 90              | 84            | 57.2        | 1.56                | 1.80 |
|                          | 100             | 86            | 59.5        | 1.55                | 1.79 |
|                          | 110             | 87            | 62.1        | 1.58                | 1.82 |
|                          | 120             | 88            | 64.4        | 1.60                | 1.85 |
| <b>63</b> ●<br>Black     | 80              | 86            | 62.3        | 1.62                | 1.87 |
|                          | 90              | 88            | 65.5        | 1.63                | 1.88 |
|                          | 100             | 90            | 69.0        | 1.64                | 1.89 |
|                          | 110             | 91            | 71.9        | 1.67                | 1.93 |
|                          | 120             | 92            | 74.7        | 1.70                | 1.96 |
| <b>73</b> ●<br>Orange    | 80              | 89            | 72.7        | 1.77                | 2.04 |
|                          | 90              | 91            | 75.4        | 1.75                | 2.02 |
|                          | 100             | 93            | 78.1        | 1.74                | 2.01 |
|                          | 110             | 95            | 80.9        | 1.73                | 1.99 |
|                          | 120             | 97            | 83.8        | 1.71                | 1.98 |

\* 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-90-36V NOZZLE PERFORMANCE DATA**

| Nozzle                   | Pressure<br>PSI | Radius<br>ft. | Flow<br>GPM | Precip in/hr<br>■ ▲ |      |
|--------------------------|-----------------|---------------|-------------|---------------------|------|
| <b>25</b> ●<br>Lt. Blue  | 80              | 73            | 30.5        | 0.55                | 0.64 |
|                          | 90              | 75            | 32.4        | 0.55                | 0.64 |
|                          | 100             | 76            | 34.3        | 0.57                | 0.66 |
|                          | 110             | 78            | 36.5        | 0.58                | 0.67 |
| <b>33</b> ●<br>Gray      | 80              | 77            | 36.3        | 0.59                | 0.68 |
|                          | 90              | 78            | 38.4        | 0.61                | 0.70 |
|                          | 100             | 80            | 40.6        | 0.61                | 0.71 |
|                          | 110             | 81            | 42.7        | 0.63                | 0.72 |
| <b>38</b> ●<br>Red       | 80              | 80            | 40.6        | 0.61                | 0.71 |
|                          | 90              | 82            | 42.9        | 0.61                | 0.71 |
|                          | 100             | 83            | 45.3        | 0.63                | 0.73 |
|                          | 110             | 85            | 47.7        | 0.64                | 0.73 |
| <b>43</b> ●<br>Dk. Brown | 80              | 83            | 46.2        | 0.65                | 0.75 |
|                          | 90              | 84            | 48.6        | 0.66                | 0.77 |
|                          | 100             | 85            | 50.9        | 0.68                | 0.78 |
|                          | 110             | 86            | 53.4        | 0.69                | 0.80 |
| <b>48</b> ●<br>Dk. Green | 80              | 86            | 49.6        | 0.65                | 0.75 |
|                          | 90              | 89            | 52.5        | 0.64                | 0.74 |
|                          | 100             | 90            | 54.8        | 0.65                | 0.75 |
|                          | 110             | 91            | 57.3        | 0.67                | 0.77 |
| <b>53</b> ●<br>Dk. Blue* | 80              | 89            | 54.2        | 0.66                | 0.76 |
|                          | 90              | 90            | 56.7        | 0.67                | 0.78 |
|                          | 100             | 92            | 59.2        | 0.67                | 0.78 |
|                          | 110             | 93            | 61.7        | 0.69                | 0.79 |
|                          | 120             | 94            | 64.2        | 0.70                | 0.81 |
| <b>63</b> ●<br>Black     | 80              | 92            | 63.2        | 0.72                | 0.83 |
|                          | 90              | 94            | 65.9        | 0.72                | 0.83 |
|                          | 100             | 96            | 69.4        | 0.72                | 0.84 |
|                          | 110             | 97            | 72.0        | 0.74                | 0.85 |
|                          | 120             | 98            | 74.9        | 0.75                | 0.87 |
| <b>73</b> ●<br>Orange    | 80              | 96            | 72.1        | 0.75                | 0.87 |
|                          | 90              | 98            | 75.0        | 0.75                | 0.87 |
|                          | 100             | 99            | 77.8        | 0.76                | 0.88 |
|                          | 110             | 102           | 80.5        | 0.74                | 0.86 |
|                          | 120             | 103           | 83.3        | 0.76                | 0.87 |

**I-90 NOZZLES**

ADV &amp; 36V



Low-Angle ADV &amp; 36V\*\*

\*\* Low angle nozzles reduce radius by 15%

**I-90**