

Toro 640 Series Sprinklers

14.6-20.2m Radius

Considered the most durable, heavy-duty commercial sprinkler available, the 640 Series is the traditional, proven veteran for athletic fields and other large commercial applications. It is equipped with a standard rubber cover, five nozzles*, 12 arcs* and a check valve. A variety of models are available including Valve-In-Head and effluent.

*Ordered Individually

Key Features

- Standard rubber cover minimizes impact damage
- Small exposed surface diameter
- Stainless-steel encased nozzle and drive assembly
- Durable engineering plastic, brass and stainless-steel construction
- Capable of faster rotation – fast speed performance data available

Additional Features

- Selection of 5 nozzles and 12 arcs
- Valve-in-head (normally open hydraulic models)
- Adjustment screw allows up to 25% radius reduction
- Standard check valve prevents low-head drainage, keeping laterals charged with water
- Up to 13mm below-grade installation
- Vandal-resistant cap with locking set screw
- Stainless-steel retraction spring
- Gear-drive design for longer life
- Basket filter screen to prevent clogging
- 5 year warranty



Specifications

- Radius: 14.6-20.2m
- Flow rate: 23.6-92.8 Lpm
- Recommended operating pressure: 300-600 kPa
- Maximum operating pressure: 700 kPa
- Pop-up to nozzle: 60mm
- 25mm (1") FBSP inlet,
- Trajectory: 27°
- Dimensions:
 - Exposed surface diameter when buried 12mm below grade: 45mm
 - Body diameter: 65mm
 - Cap diameter: 83mm
 - Body height:
 - Check-O-Matic: 230mm
 - Valve-in-head: 267mm
- Check-O-Matic maintains 4.5m elevation change

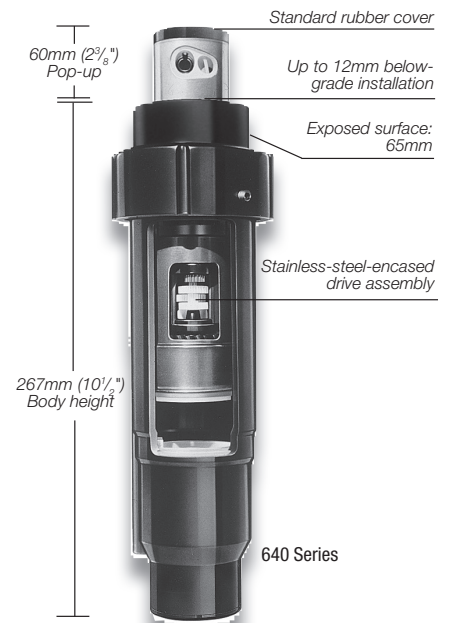


640 Series Check-O-Matic

640 Series Valve-In-Head



Effluent models available



Ordering Information

| Arc | Body Thread | Valve Type | | | | Special Arc | Optional |
|---------------|-------------|---------------------|----|----|------|-------------------|----------|
| | | 64X | XX | XX | XXX | | |
| 0-Special Arc | 0-NPT | 1- NO Valve-In-Head | | | 045° | E- Effluent Model | |
| 1-90° | 5-BSP | 2- Check-O-Matic | | | 060° | | |
| 2-180° | | | | | 108° | | |
| 3-270° | | | | | 127° | | |
| 4-360° | | | | | 238° | | |

For Example:
When specifying a 640 Series Sprinkler with a 180° arc, a #42 nozzle, BSP, and a check valve, you would specify: **642-52-42**

Maximum Height of Spray

| Nozzle | 27° |
|--------|----------------|
| 40 | 3.5m @ 350 kPa |
| 41 | 4.2m @ 350 kPa |
| 42 | 4.1m @ 350 kPa |
| 43 | 5.7m @ 400 kPa |
| 44 | 6.0m @ 500 kPa |



Performance Data – 640 Series

| Nozzle | kPa | Flow (Lpm) | Radius (m) | Prec. Rate* | |
|--------|-----|------------|------------|-------------|------|
| | | | | △ | □ |
| 40 | 300 | 23.6 | 14.6 | 7.7 | 6.6 |
| | 350 | 25.5 | 15.3 | 7.5 | 6.5 |
| | 400 | 27.2 | 15.7 | 7.6 | 6.6 |
| | 450 | 29.0 | 16.0 | 7.8 | 6.8 |
| | 500 | 30.9 | 16.2 | 8.1 | 7.1 |
| | 550 | 32.5 | 16.5 | 8.3 | 7.2 |
| 41 | 300 | 36.9 | 15.2 | 11.0 | 9.6 |
| | 350 | 38.8 | 16.2 | 10.2 | 8.9 |
| | 400 | 41.0 | 16.4 | 10.5 | 9.1 |
| | 450 | 43.4 | 16.6 | 10.9 | 9.4 |
| | 500 | 45.8 | 16.8 | 11.2 | 9.7 |
| | 550 | 48.0 | 17.1 | 11.4 | 9.8 |
| 42 | 300 | 46.6 | 16.2 | 12.3 | 10.6 |
| | 350 | 49.1 | 16.8 | 12.0 | 10.4 |
| | 400 | 52.2 | 17.0 | 12.5 | 10.8 |
| | 450 | 54.4 | 17.2 | 12.7 | 11.0 |
| | 500 | 56.7 | 17.5 | 12.8 | 11.1 |
| | 550 | 59.7 | 17.7 | 13.2 | 11.4 |
| 43 | 300 | 51.7 | 17.4 | 11.8 | 10.2 |
| | 350 | 55.2 | 18.0 | 11.8 | 10.2 |
| | 400 | 58.5 | 18.0 | 12.5 | 10.8 |
| | 450 | 62.0 | 18.3 | 12.8 | 11.1 |
| | 500 | 65.6 | 18.7 | 13.0 | 11.2 |
| | 550 | 69.1 | 19.2 | 13.0 | 11.2 |
| 44 | 300 | 65.7 | 17.3 | 15.2 | 13.1 |
| | 350 | 70.8 | 18.3 | 14.6 | 12.7 |
| | 400 | 74.3 | 18.5 | 15.0 | 13.0 |
| | 450 | 79.3 | 18.9 | 15.4 | 13.3 |
| | 500 | 84.3 | 19.4 | 15.5 | 13.4 |
| | 550 | 88.4 | 19.8 | 15.6 | 13.5 |
| | 600 | 92.8 | 20.2 | 15.7 | 13.6 |

△ Precipitation rates are for triangular spacing, shown in millimetres per hour, calculated at 50% of diameter.
 □ Precipitation rates are for square spacing, shown in millimetres per hour, calculated at 50% of diameter.
 All performance specifications are based on the stated working pressure available at the base of the sprinkler.

Ordering Information – 640 Series Components

| To order a 640 Drive Assembly, append the model number with one of the following arcs: | To order a 640 Nozzle and Stator, append the model number with one of these nozzle sets: | To order a 640 Nozzle and Stator with effluent marker, append the model number with one of these nozzle sets: |
|--|--|---|
| 45° 127° 192° | 40 41 42 | 40E 41E 42E |
| 60° 148° 238° | 43 44 | 43E 44E 42E |
| 90° 173° 270° | | |
| 108° 180° 360° | | |
| For Example: | For Example: | For Example |
| 640-0108 | 640-41 | 640-41E |