

A HEAVY-DUTY, HIGH CAPACITY PIVOT SPRINKLER FOR LOW PRESSURE OPERATION



Because of the wide operating range of pressure and gallonage, only one model is required from the pivot point to the end gun. Competitive sprinklers require at least two models. Save inventory and cost.

WIDE RANGE OF OPERATION. From a low of 2 gpm to over 20 gpm, fewer sprinklers are required and pivot package costs are reduced.

LOW PRESSURE. From 20 psi, the F44AAB operates over the widest pressure range of any sprinkler in its class. Save energy and cost.

SELECT FROM 2 NOZZLE TYPES:

1. STANDARD NOZZLE — (MODEL 3RN)

Size range — 1/8 - 19/64" (#16 - #38)

Pressure Range — 20 - 60 PSI

The most economical selection, for use where fluctuating pressures are not a problem. Due to induced turbulence created by the hydraulic design, droplet breakup is better with the F44AAB than conventional sprinklers, allowing its use at lower pressures with standard nozzles.

2. FCN® FLOW CONTROL NOZZLE — (MODEL 3FCN)

Size range — 3.0 - 10.0 GPM (to 20 GPM w/ two nozzles)

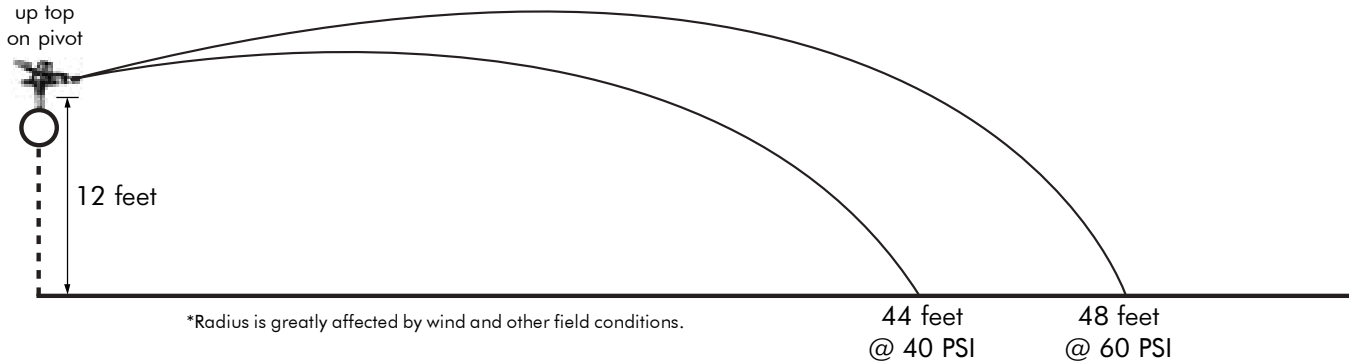
Pressure Range — 20 - 60 PSI

Recommended for systems where field elevation differences or variations in pump pressure cause uneven water distribution. The FCN maintains a constant flow rate, improving uniformity, reducing pumping costs and saving water.

RECOMMENDATIONS:

- Any combination of nozzle sizes listed can be used on the drive nozzle and secondary nozzle sides. Any nozzle listed can be used on the drive nozzle side with a plug in the secondary nozzle side (use Model 3RN Plug).
- Nelson Irrigation Corporation specifically makes no representation as to the suitability of any nozzle for a particular situation regarding droplet size, uniformity, or application rate.
- The Model 4V stream straightener vane will fit both the drive nozzle and secondary nozzle sides and is recommended for high pressure operation (over 60 PSI) to reduce stream breakup and increase throw distance.
- See other side for flow data.

RADIUS* OF THROW WITH A 9/32" NOZZLE (NO VANE), 3RN NOZZLE



FLOW PERFORMANCE IN GPM

| MODEL | NOZZLE | 25 PSI** | 30 PSI | 35 PSI | 40 PSI | 45 PSI | 50 PSI | 55 PSI | 60 PSI |
|--------|-----------------|----------|--------|--------|--------|--------|--------|--------|--------|
| F44AAB | 1/8" X PLUG | 2.2 | 2.5 | 2.7 | 2.8 | 3.0 | 3.2 | 3.4 | 3.5 |
| F44AAB | 9/64" X PLUG | 2.8 | 3.1 | 3.3 | 3.6 | 3.8 | 4.1 | 4.3 | 4.5 |
| F44AAB | 5/32" X PLUG | 3.5 | 3.8 | 4.2 | 4.5 | 4.7 | 5.0 | 5.2 | 5.5 |
| F44AAB | 11/64" X PLUG | 4.2 | 4.6 | 5.0 | 5.3 | 5.7 | 6.0 | 6.3 | 6.6 |
| F44AAB | 3/16" X PLUG | 4.9 | 5.3 | 5.8 | 6.2 | 6.6 | 6.9 | 7.3 | 7.6 |
| F44AAB | 13/64" X PLUG | 5.6 | 6.2 | 6.7 | 7.3 | 7.7 | 8.2 | 8.6 | 9.0 |
| F44AAB | 7/32" X PLUG | 6.6 | 7.2 | 7.8 | 8.4 | 8.9 | 9.4 | 9.8 | 10.3 |
| F44AAB | 15/64" X PLUG | 7.5 | 8.2 | 8.8 | 9.4 | 10.0 | 10.6 | 11.2 | 11.7 |
| F44AAB | 1/4" X PLUG | 8.3 | 9.1 | 9.8 | 10.5 | 11.2 | 11.9 | 12.5 | 13.0 |
| F44AAB | 17/64" X PLUG | 9.2 | 10.1 | 10.9 | 11.7 | 12.5 | 13.2 | 13.8 | 14.4 |
| F44AAB | 3/16" X 11/64" | 8.7 | 9.6 | 10.4 | 11.2 | 11.9 | 12.6 | 13.2 | 13.8 |
| F44AAB | 3/16" X 3/16" | 9.3 | 10.2 | 11.1 | 11.9 | 12.7 | 13.4 | 14.0 | 14.7 |
| F44AAB | 13/64" X 13/64" | 10.6 | 11.7 | 12.6 | 13.5 | 14.4 | 15.2 | 15.9 | 16.6 |
| F44AAB | 7/32" X 7/32" | 11.9 | 13.0 | 14.0 | 15.0 | 16.0 | 16.9 | 17.7 | 18.5 |
| F44AAB | 15/64" X 7/32" | 12.3 | 13.6 | 14.7 | 15.8 | 16.8 | 17.7 | 18.6 | 19.4 |
| F44AAB | 15/64" X 15/64" | 13.1 | 14.3 | 15.5 | 16.6 | 17.7 | 18.7 | 19.6 | 20.5 |
| F44AAB | 1/4" X 15/64" | 13.9 | 15.2 | 16.4 | 17.5 | 18.6 | 19.7 | 20.7 | 21.6 |
| F44AAB | 1/4" X 1/4" | 14.3 | 15.7 | 17.1 | 18.3 | 19.5 | 20.6 | 21.7 | 22.6 |
| F44AAB | 17/64" X 17/64" | 15.3 | 16.8 | 18.3 | 19.6 | 20.9 | 22.1 | 23.2 | 24.3 |
| F44AAB | 9/32" X 9/32" | 16.4 | 18.0 | 19.5 | 21.0 | 22.3 | 23.6 | 24.8 | 25.9 |
| F44AAB | 19/64" X 19/64" | 17.4 | 19.1 | 20.7 | 22.2 | 23.6 | 25.0 | 26.3 | 27.5 |

**PSI is Base PSI

PERFORMANCE NOTE

Sprinkler performance data has been obtained under ideal test conditions and may be adversely affected by wind, poor hydraulic entrance conditions, or other factors. Nelson Irrigation Corporation makes no representation regarding droplet conditions, uniformity, or application rates.

WARRANTY AND DISCLAIMER

Nelson F44AAB Impact Sprinklers are warranted for one year from date of original sale to be free of defective materials and workmanship when used within the working specifications for which the products were designed and under normal use and service. The manufacturer assumes no responsibility for installation, removal or unauthorized repair of defective parts. The manufacturer's liability under this warranty is limited solely to replacement or repair of defective parts and the manufacturer will not be liable for any crop or other consequential damages resulting from defects or breach of warranty. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES AND OF ALL OTHER OBLIGATIONS OR LIABILITIES OF MANUFACTURER. No agent, employee or representative of the manufacturer has authority to waive, alter or add to the provisions of this warranty, nor to make any representations or warranty not contained herein.