

VYR-144 S



VYR-144 S · Part circle AG

GENERAL PROPERTIES:

- Agricultural part-circle impact sprinkler with medium-high flow.
- 1 1/4" female connection.
- Made of aluminium, plastic and stainless steel.
- High-resistance rotating joints.
- Nozzle angle of 30°
- Special design for long reach.
- Used in full coverage irrigation with high flows.

TECHNICAL SPECIFICATIONS:

- Reach: 16 - 26 m / 52-85 ft.
- Flow: 4560 - 18600 L/H / 1204 - 4.913 GPH
- Working pressure: 1,5 - 4,5 BAR / 22-65 PSI.
- Area: Part or full circle.
- Spring tension adjustment system.
- 2 Nozzles: One main nozzle with built-in deflector pin, and a second short range deflector nozzle.
- Trajectory angles: 30° and 22°
- Maximum stream height: 5,5 m / 18ft.
- Rotation time: Adjustable. Depending on the pressure and the nozzles, the rotation will be constant and continuous.
- Uniformity coefficient higher than 90% in areas of 22x22R, 24x24T and 24x27T (meters).

APPLICATIONS:

- Used in all types of agricultural irrigation, generally with medium-high flows.
- Horticultural plantations, cereals, tubers, leguminous plants and fruit trees.

MEASUREMENTS:

- Height: 25 cm / 9,8 in.
- Width: 30 cm / 11,8 in.
- Weight: 1 kg / 2,2 Lbs
- Units per box: 10

OPTIONS:

- Threads in BSP or NPT under demand.
- Complete set of nozzles.
- This is one of the models which can be used in conjunction with our travelling sprinkler cart VYR-5300.

MODELS:

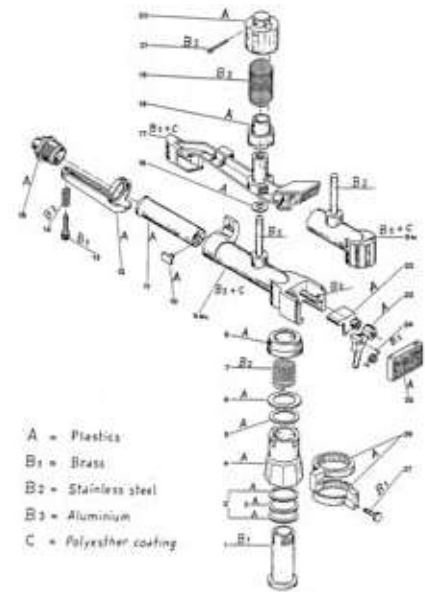
Ref. 014404: VYR 144S ALUM PART CIRCLE W/D THREAD 1 1/4"H

TABLES & PARTS

Technical guidance table VYR-144 S

| NOZZLE | Spacing (m) / Precipit. rate (mm/h) Spacing (ft) / Precipit. rate (in/h) | | | | | | |
|--------------------------------|---|----------------|----------------|--------------------|--------------------|--------------------|--------------------|
| | BAR PSI | 20x24 65x78 | 24x24 78x78 | 24x26 T 78x85 T | 26x26 T 85x85 T | 28x28 T 91x91 T | 30x30 T 98x98 T |
| 7 x 4,4 mm 9/32" x 11/64" | 3 | 9,5 | 7,9 | 8,4 | 7,7 | 6,7 | 5,9 |
| | 44 | 0,37 | 0,31 | 0,33 | 0,30 | 0,26 | 0,23 |
| | 4 | 10,3 | 8,5 | 9,1 | 8,4 | 7,3 | 6,3 |
| | 58 | 0,41 | 0,33 | 0,36 | 0,33 | 0,29 | 0,25 |
| 10 x 4,4 mm 13/32" x 11/64" | 5 | 11 | 9,2 | 9,8 | 9,0 | 7,7 | 6,8 |
| | 72 | 0,43 | 0,36 | 0,39 | 0,35 | 0,30 | 0,27 |
| | 3 | 16,6 | 13,9 | 14,7 | 13,6 | 11,8 | 10,2 |
| | 44 | 0,65 | 0,55 | 0,58 | 0,54 | 0,46 | 0,40 |
| 14 x 4,4 mm 9/16" x 11/64" | 4 | 18,0 | 15,0 | 15,9 | 14,8 | 12,7 | 11,1 |
| | 58 | 0,71 | 0,59 | 0,63 | 0,58 | 0,50 | 0,44 |
| | 5 | 19,4 | 16,1 | 17,2 | 15,9 | 13,7 | 11,9 |
| | 72 | 0,76 | 0,63 | 0,68 | 0,63 | 0,54 | 0,47 |
| 14 x 4,4 mm 9/16" x 11/64" | 3 | 30,1 | 25,1 | 26,8 | 24,7 | 21,2 | 18,6 |
| | 44 | 1,19 | 0,99 | 1,06 | 0,97 | 0,83 | 0,73 |
| | 4 | 31,9 | 26,6 | 28,3 | 26,1 | 22,5 | 19,6 |
| | 58 | 1,26 | 1,05 | 1,11 | 1,03 | 0,89 | 0,77 |
| 14 x 4,4 mm 9/16" x 11/64" | 5 | 38,7 | 32,3 | 34,4 | 31,7 | 27,4 | 23,9 |
| | 72 | 1,52 | 1,27 | 1,35 | 1,25 | 1,08 | 0,94 |

T: Triang. CU < 85% CU 85-88% CU 88-92% CU > 92%



Performance nozzle tables VYR-144 S

Long range nozzles (long vane) + short range nozzle

| NOZZLE | 7 x 4,4 mm 9/32" x 11/64" | | 8 x 4,4 mm 5/16" x 11/64" | | 10 x 4,4 mm 13/32" x 11/64" | | 12 x 4,4 mm 15/32" x 11/64" | | 14 x 4,4 mm 9/16" x 11/64" | |
|--------|------------------------------|---------------------------|------------------------------|---------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|-------------------------------|---------------------------|
| | BAR PSI | L/H GPH Ø m Ø ft | L/H GPH Ø m Ø ft | L/H GPH Ø m Ø ft | L/H GPH Ø m Ø ft | L/H GPH Ø m Ø ft | L/H GPH Ø m Ø ft | L/H GPH Ø m Ø ft | L/H GPH Ø m Ø ft | L/H GPH Ø m Ø ft |
| 2 | 4.560 | 40 | 5.580 | 44 | 7.900 | 50 | 10.980 | 56 | 14.460 | 54 |
| 29 | 1.204 | 131 | 1.473 | 144 | 2.086 | 164 | 2.899 | 184 | 3.817 | 177 |
| 3 | 4.920 | 42 | 6.000 | 46 | 8.640 | 54 | 11.880 | 60 | 16.560 | 62 |
| 44 | 1.299 | 138 | 1.584 | 151 | 2.281 | 177 | 3.136 | 197 | 4.372 | 203 |
| 4 | 5.280 | 42 | 6.480 | 50 | 9.300 | 58 | 12.720 | 62 | 18.600 | 62 |
| 58 | 1.394 | 138 | 1.711 | 164 | 2.455 | 190 | 2.455 | 203 | 4.910 | 203 |

Ø: Diameter range



Easy spring-tension
adjustment

- Sprinklers will be supplied with standard nozzles unless otherwise specified.
- In order to calculate the flow, add the flows of the two nozzles. The range of the rear nozzle must be less than that of the main nozzle.
- These results has been obtained at indoor laboratory with 0 m/seg win velocity. Outdoor results may change range distances.



Easy part-circle
adjustment