

# CV-155



## CV-155 · Full circle AG

### GENERAL PROPERTIES:

- Agricultural impact sprinkler with medium-high flow.
- 1 1/4" male connection.
- Made of brass and stainless steel.
- High-resistance rotating joints.
- Nozzles angles of 28°, 28° and 13°
- Special design for long reach.
- Used in full coverage irrigation with medium-high flow.
- Mechanical system for adjusting the spring tension to vary the rotation speed depending on the pressure used.

### TECHNICAL SPECIFICATIONS:

- Range distance: 26 - 35 m / 85 - 115 ft.
- Flow: 8.500 - 22.300 L/H / 2.244 - 5.887 GPH.
- Working pressure: 4 - 8 BAR / 58-116 PSI.
- Area: Full circle.
- Nozzles: A main nozzle for long reach, a second nozzle for medium reach and a third nozzle for short reach.
- Trajectory angles: 28°, 28° and 13°
- Maximum stream height: 5,8 m / 19 ft.
- 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 28x28R, 28x30T and 30x30T (meters)

### APPLICATIONS:

- Used in all types of agricultural irrigations, generally with medium-high flow for coverage of wide areas.
- Horticultural plantations, cereals, tubers, leguminous plants and fruit trees.

### MEASUREMENTS:

- Height: 30 cm / 11,8 in.
- Width: 48 cm / 18,9 in.
- Weight: 1.672 kg / 3,68 Lbs.
- Units per box: 10

### OPTIONS:

- Threads in BSP or NPT under demand.
- Telescopic tripod for mobile installation.
- This is one of the models which can be used in conjunction with our travelling sprinkler cart VYR-5300.

### MODELS:

**Ref. 015500:** Sprinkler with 3 nozzles.

Incredible Uniformity Coefficient results with very wide coverage areas.

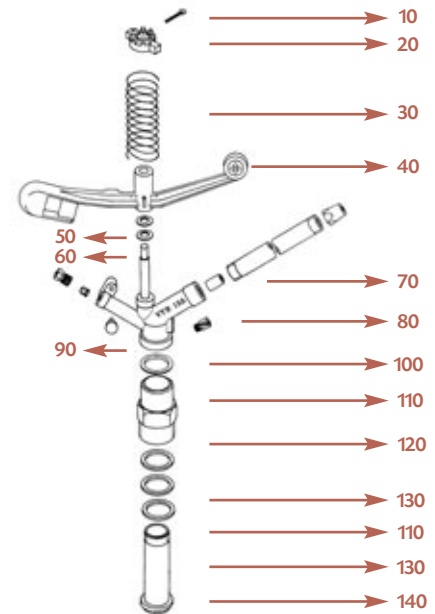


## TABLES & PARTS

Technical guidance table CV-155

| NOZZLE                                     | Spacing (m) / Precipit. rate (mm/h)<br>Spacing (ft) / Precipit. rate (in/h) |                |                    |                |                    |                |                    |
|--|---|----------------|--------------------|----------------|--------------------|----------------|--------------------|
|  | BAR<br>PSI  | 24x24<br>78x78 | 24x24 T<br>78x78 T | 26x26<br>85x85 | 26x26 T<br>85x85 T | 28x28<br>91x91 | 28x28 T<br>91x91 T |
| 3,2 x 6,3 x 8 mm<br>5/16" x 1/4" x 1/8"    | 4   | 10,3           | 9,6                | 6,9            | 6                  |                |                    |
|  | 58  | 0,41           | 0,38               | 0,27           | 0,24               |                |                    |
|  | 5   | 12,7           | 11,4               | 9,6            | 8,5                |                |                    |
|  | 73  | 0,50           | 0,45               | 0,38           | 0,33               |                |                    |
|  | 6   | 14,9           | 13,5               | 11,4           | 10,2               |                |                    |
| 3,2 x 6,3 x 10 mm<br>13/32" x 1/4" x 1/8"  | 87  | 0,59           | 0,53               | 0,45           | 0,40               |                |                    |
|  | 7   | 16,8           | 15,4               | 13,3           | 12                 |                |                    |
|  | 102   | 0,66           | 0,61               | 0,52           | 0,47               |                |                    |
|  | 4   | 16,7           | 15,3               | 13,1           | 11,9               | 11,2           | 10,3               |
|  | 58  | 0,66           | 0,60               | 0,52           | 0,47               | 0,44           | 0,41               |
| 3,2 x 6,3 x 12 mm<br>15/32" x 1/4" x 1/8"  | 5   | 19,8           | 18,3               | 16,2           | 14,8               | 14,7           | 13,6               |
|  | 73  | 0,78           | 0,72               | 0,64           | 0,58               | 0,58           | 0,54               |
|  | 6   | 22,7           | 26                 | 19,4           | 17,4               | 16,9           | 15,5               |
|  | 87  | 0,89           | 1,02               | 0,76           | 0,69               | 0,67           | 0,61               |
|  | 7   | 24,6           | 22,9               | 21             | 19                 | 19,2           | 17,9               |
| 3,2 x 6,3 x 14,5 mm<br>9/16" x 1/4" x 1/8" | 102   | 0,97           | 0,90               | 0,83           | 0,75               | 0,76           | 0,70               |
|  | 4   | 25,5           | 23,5               | 22,1           | 19,7               | 19,7           | 17,8               |
|  | 58  | 1,00           | 0,93               | 0,87           | 0,78               | 0,78           | 0,70               |
|  | 5   | 27,8           | 25,8               | 24,1           | 21,6               | 20,3           | 18                 |
|  | 73  | 1,09           | 1,02               | 0,95           | 0,85               | 0,80           | 0,71               |
| 3,2 x 6,3 x 14,5 mm<br>9/16" x 1/4" x 1/8" | 6   | 31,9           | 28,9               | 27,9           | 25,4               | 24,4           | 22                 |
|  | 87  | 1,26           | 1,14               | 1,10           | 1,00               | 0,96           | 0,87               |
|  | 7   | 32,6           | 30,4               | 28,6           | 26,1               | 24,9           | 22,3               |
|  | 102   | 1,28           | 1,20               | 1,13           | 1,03               | 0,98           | 0,88               |
|  | 4   | 32,9           | 30,7               | 29,4           | 27                 | 25             | 23,5               |
| 3,2 x 6,3 x 14,5 mm<br>9/16" x 1/4" x 1/8" | 58  | 1,30           | 1,21               | 1,16           | 1,06               | 0,98           | 0,93               |
|  | 5   | 35,1           | 32,9               | 31,8           | 27,6               | 26,2           | 24                 |
|  | 73  | 1,38           | 1,30               | 1,25           | 1,09               | 1,03           | 0,94               |
|  | 6   | 38,4           | 36                 | 34,9           | 31,5               | 30,4           | 28,3               |
|  | 87  | 1,51           | 1,42               | 1,37           | 1,24               | 1,20           | 1,11               |
| 3,2 x 6,3 x 14,5 mm<br>9/16" x 1/4" x 1/8" | 7   | 41             | 38,1               | 37,5           | 34,2               | 33,1           | 30,9               |
|  | 102   | 1,61           | 1,50               | 1,48           | 1,35               | 1,30           | 1,22               |

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



Performance nozzle tables CV-155

Long range nozzles (long vane) + plug

| NOZZLE | 8 x 6,3 x 3,2 mm<br>5/6" x 1/4" x 1/8" |                           | 9 x 6,3 x 3,2 mm<br>11/32" x 1/4" x 1/8" |                           | 10 x 6,3 x 3,2 mm<br>13/32" x 1/4" x 1/8" |                           | 11 x 6,3 x 3,2 mm<br>7/16" x 1/4" x 1/8" |                           | 12 x 6,3 x 3,2 mm<br>15/32" x 1/4" x 1/8" |                           | 13 x 6,3 x 3,2 mm<br>1/2" x 1/4" x 1/8" |                           | 14 x 6,3 x 3,2 mm<br>9/16" x 1/4" x 1/8" |                           |
|--------|--|---------------------------|--|---------------------------|---|---------------------------|--|---------------------------|---|---------------------------|---|---------------------------|--|---------------------------|
|        | BAR<br>PSI                             | L/H<br>GPH<br>Ø m<br>Ø ft | L/H<br>GPH<br>Ø m<br>Ø ft                | L/H<br>GPH<br>Ø m<br>Ø ft | L/H<br>GPH<br>Ø m<br>Ø ft                 | L/H<br>GPH<br>Ø m<br>Ø ft | L/H<br>GPH<br>Ø m<br>Ø ft                | L/H<br>GPH<br>Ø m<br>Ø ft | L/H<br>GPH<br>Ø m<br>Ø ft                 | L/H<br>GPH<br>Ø m<br>Ø ft | L/H<br>GPH<br>Ø m<br>Ø ft               | L/H<br>GPH<br>Ø m<br>Ø ft | L/H<br>GPH<br>Ø m<br>Ø ft                | L/H<br>GPH<br>Ø m<br>Ø ft |
| 4      | 8500                                   | 51                        | 9600                                     | 52                        | 11000                                     | 53                        | 12000                                    | 56                        | 13200                                     | 57                        | 15000                                   | 59                        | 17000                                    | 63                        |
| 58     | 2245                                   | 167                       | 2536                                     | 171                       | 2906                                      | 174                       | 3170                                     | 184                       | 3487                                      | 187                       | 3963                                    | 194                       | 4491                                     | 207                       |
| 5      | 9500                                   | 53                        | 10800                                    | 54                        | 12300                                     | 55                        | 13400                                    | 58                        | 14900                                     | 60                        | 17000                                   | 62                        | 19100                                    | 65                        |
| 73     | 2510                                   | 174                       | 2853                                     | 177                       | 3249                                      | 180                       | 3540                                     | 190                       | 3936                                      | 197                       | 4491                                    | 203                       | 5046                                     | 213                       |
| 6      | 10400                                  | 54                        | 11700                                    | 55                        | 13500                                     | 58                        | 14700                                    | 61                        | 16500                                     | 62                        | 18800                                   | 64                        | 20800                                    | 67                        |
| 87     | 2747                                   | 177                       | 3091                                     | 180                       | 3566                                      | 190                       | 3883                                     | 200                       | 4359                                      | 203                       | 4966                                    | 210                       | 5495                                     | 220                       |
| 7      | 11200                                  | 56                        | 12800                                    | 57                        | 14600                                     | 60                        | 16000                                    | 63                        | 18000                                     | 64                        | 20300                                   | 66                        | 22300                                    | 69                        |
| 102    | 2959                                   | 184                       | 3381                                     | 187                       | 3857                                      | 197                       | 4227                                     | 207                       | 4755                                      | 210                       | 5363                                    | 217                       | 5891                                     | 226                       |

Standard Ø: Diameter range

- 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.

