

# VYR-155



## VYR-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.

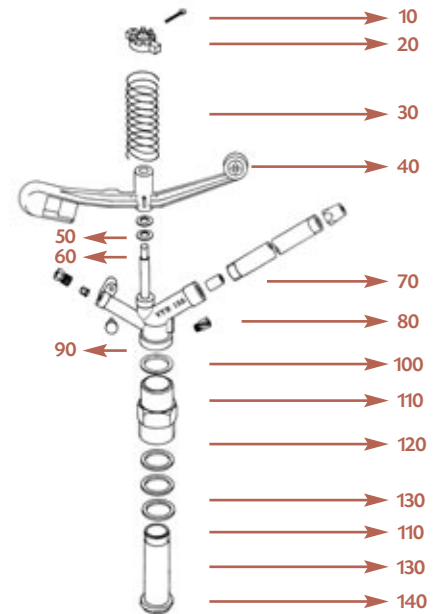


## TABLES & PARTS

Technical guidance table VYR-155

NOZZLE	Spacing (m) / Precipit. rate (mm/h) Spacing (ft) / Precipit. rate (in/h)						
	BAR PSI	24x24 78x78	24x24 T 78x78 T	26x26 85x85	26x26 T 85x85 T	28x28 91x91	28x28 T 91x91 T
3,2 x 6,3 x 8 mm 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 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 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 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 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 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 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 VYR-155

Long range nozzles (long vane) + plug

NOZZLE	8 x 6,3 x 3,2 mm 5/6" x 1/4" x 1/8"		9 x 6,3 x 3,2 mm 11/32" x 1/4" x 1/8"		10 x 6,3 x 3,2 mm 13/32" x 1/4" x 1/8"		11 x 6,3 x 3,2 mm 7/16" x 1/4" x 1/8"		12 x 6,3 x 3,2 mm 15/32" x 1/4" x 1/8"		13 x 6,3 x 3,2 mm 1/2" x 1/4" x 1/8"		14 x 6,3 x 3,2 mm 9/16" x 1/4" x 1/8"	
	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	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
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.

