

VYR-70



VYR-70 · Full Circle AG

GENERAL PROPERTIES:

- Medium flow agricultural impact sprinkler.
- 3/4" male or female connection.
- Made of brass and stainless steel.
- High-resistance rotating joints.
- Nozzle angles of 26° and 22°
- Special design for long reach.
- Used in full coverage irrigation with medium-high flow.

TECHNICAL SPECIFICATIONS:

- Range distance: 13 - 18 m. / 43 - 59 ft.
- Flow: 660 - 3270 L/H / 175-864 GPH
- Working pressure: 1,75 - 4,5 BAR / 25-65 PSI.
- Area: Full circle.
- Nozzles: Two nozzles: one main nozzle and a secondary deflector nozzle or plug.
- Trajectory angles: 26° and 22°
- Maximum stream height: 4.3 m / 14 ft.
- Rotation time: Depending on the pressure and the nozzles, the rotation will be constant and continuous.
- Uniformity coefficient higher than 90% in areas of 18x18R, 20x18T and 20x20T (meters).

APPLICATIONS:

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

MEASUREMENTS:

- Height: 15 cm / 5,9 in.
- Width: 20 cm / 7,9 in.
- Weight: 548 g / 1,2 Lbs.
- Units per box: 50

OPTIONS:

- Threads in BSP or NPT under demand.
- Secondary nozzle with deflector slot or plug.
- Assembled on a pressure regulator for self-compensation of pressure and flow.

MODELS:

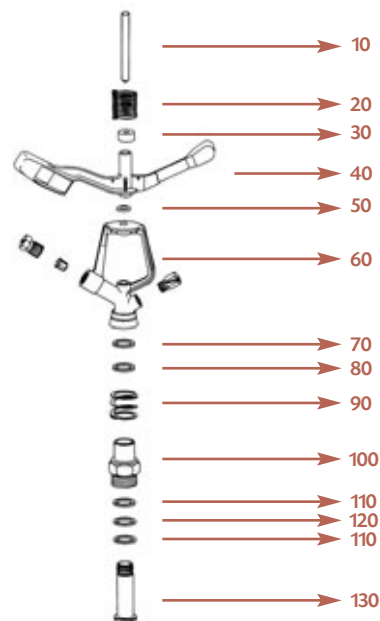
- Ref. 007001: 3/4" male.
- Ref. 007020: 3/4" female.

TABLES & PARTS

Technical guidance table VYR-70

NOZZLE	Spacing (m) / Precipit. rate (mm/h) Spacing (ft) / Precipit. rate (in/h)						
	BAR PSI	15x15 T 50x50 T	18x18 T 60x60 T	18x21 60x70	18x21 T 60x70 T	21x21 T 70x70 T	21x24 70x80
4,4 x 2,4 mm 3/32" x 11/64"	3	5,5	4,7	4,4	3,6	3,7	
	44	0,20	0,19	0,17	0,14	0,15	
	3,5	5,4	5,1	3,9	3,9	4	
	51	0,21	0,20	0,19	0,15	0,16	
4,8 x 3,2 mm 3/16" x 17/128"	4	5,8	5,4	4,2	4,2	4,3	
	58	0,23	0,21	0,20	0,17	0,17	
	3	6,6	6,2	4,8	4,8	4,9	
	44	0,26	0,24	0,23	0,19	0,19	
5,5 x 3,2 mm 7/32" x 17/128"	3,5	7,1	6,7	5,2	5,2	5,3	4,7
	51	0,28	0,26	0,24	0,20	0,21	0,19
	4	10,4	7,2	5,6	5,6	5,7	5
	58	0,30	0,28	0,26	0,22	0,22	0,20
	3	10,4	7,2	6	6	6,2	5,4
	44	0,33	0,31	0,28	0,24	0,24	0,21
	3,5	11	8,4	6,5	6,5	6,7	5,8
	51	0,35	0,33	0,31	0,26	0,26	0,23
	4	13,6	9	7	7	7,1	6,2
	58	0,38	0,35	0,33	0,28	0,28	0,24

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

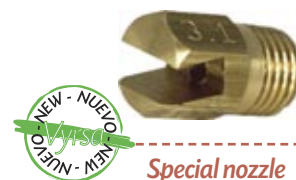


Performance nozzle table VYR-70

Long range nozzle (long vane) + plug

NOZZLE	4 mm 5/32"		4,4 mm 11/64"		4,8 mm 3/16"		5,2 mm 13/64"	
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
2,5 36	970 256	30,2 99	1160 306	31 102	1390 367	31,8 104	1640 433	32,6 107
3 44	1050 277	30,6 100	1270 335	31,8 104	1510 399	32,8 108	1790 473	33,8 111
3,5 51	1140 301	31,2 102	1380 365	32,4 106	1640 433	33,6 110	1930 510	34,8 114
4 58	1220 322	31,6 104	1470 388	32,8 108	1750 462	34 112	2060 544	35,6 117
4,5 65	1290 341	32 105	1550 409	33,2 109	1860 491	34,4 113	2180 576	36 118
5 73	1360 359	32,4 106	1640 433	33,6 110	1960 518	35 115	2290 605	36,4 119
5,5 80	1430 378	33 108	1720 454	34,2 112	2060 544	35,4 116	2380 629	36,8 121

(Sprinkler at 1 meter height)



*Special nozzle
for solid-set systems
over 2 m height*

- In shady areas is highly recommended the use of low pressure orange vane.
- 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 benn obtained at indoor laboratory with 0 m/seg win velocity. Outdoor results may change range distances.

Long range nozzle (long vane) + short range nozzle

NOZZLE	4 x 2,4 mm 5/32" x 3/32"		4,4 x 2,4 mm 11/64" x 3/32"		4,4 x 2,8 mm 11/64" x 7/64"		4,8 x 2,4 mm 3/16" x 3/32"		4,8 x 2,8 mm 3/16" x 7/64"		4,8 x 3,2 mm 3/16" x 17/128"		5,2 x 3,2 mm 13/64" x 17/128"	
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
2,5 36	1320 348	30 98	1520 401	30,6 100	1730 457	30,6 100	1750 462	32,5 107	1895 500	32,5 107	2050 541	32,5 107	2310 610	32,4 106
3 44	1450 383	30,4 100	1670 441	31,6 104	1800 475	31,6 104	1920 507	33 108	2100 554	33 108	2240 591	33 108	2520 665	33,4 110
3,5 51	1560 412	30,8 101	1800 475	32 105	1915 506	32 105	2050 541	33,5 110	2255 595	33,5 110	2420 639	33,5 110	2720 718	34,2 112
4 58	1670 441	31,2 102	1920 507	32,4 106	2070 546	32,4 106	2180 576	34 112	2400 634	34 112	2590 684	34 112	2910 768	35 115
4,5 65	1770 467	31,8 104	2030 536	33 108	2165 572	33 108	2300 607	34,5 113	2545 672	34,5 113	2750 726	34,5 113	3070 810	35,4 116
5 73	1870 494	32,2 106	2140 565	33,4 110	2300 607	33,4 110	2430 642	35 115	2680 708	35 115	2880 760	35 115	3230 853	35,8 117
5,5 80	1960 517	32,6 107	2240 591	33,8 111	2400 634	33,8 111	2510 663	36 118	2810 742	36 118	3010 795	36 118	3360 887	36,2 119

Standard Ø: Diameter range

(Sprinkler at 1 meter height)

Low pressure
vane