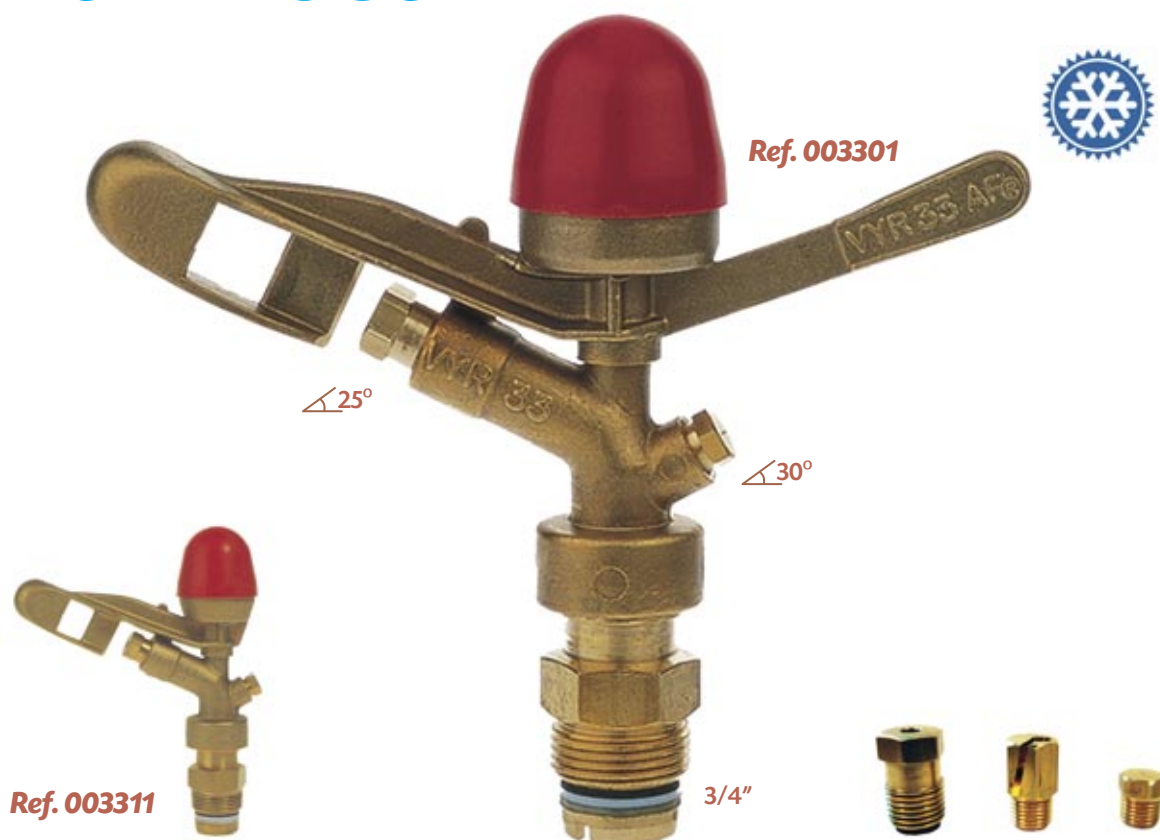


VYR-33

Anti-Frost



VYR-33 ANTI-FROST · Full Circle AG

GENERAL PROPERTIES:

- Medium flow agricultural impact sprinkler.
- ANTI-FROST protection cover.
- 3/4" male or female connection.
- Made of brass and stainless steel.
- High-resistance rotating joints.
- Nozzle angles of 25° and 30°
- Special design for ANTI-FROST irrigation using materials resistant to extreme conditions.

TECHNICAL SPECIFICATIONS:

- Range distance: 10 - 13,5 m / 33 - 44 ft.
- Flow: 900 - 2920 L/H / 237 - 770 GPH.
- Working pressure: 2,5 - 5 BAR / 36 - 72 PSI.
- Area: Full circle.
- Nozzles: Two nozzles: one main nozzle and a secondary deflector nozzle or plug.
- Trajectory angles: 25° and 30°
- Maximum stream height: 3.7 m / 12 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 17x17R, 18x18T and 19x17T (meters)

APPLICATIONS:

- Horticultural plantations, cereals, tubers, leguminous plants and fruit trees. Designed to work in ANTI-FROST conditions.

MEASUREMENTS:

- Height: 15 cm / 5,9 in.
- Width: 17 cm / 6,7 in.
- Weight: 490 g / 1,1 Lbs.
- Units per box: 50

OPTIONS:

- Threads in BSP or NPT under demand.
- Models with short arm with male or female connection.
- Brass or plastic nozzles, depending on the customer's technical specifications.
- Secondary nozzle with deflector slot or plug.
- Assembled on a pressure regulator for self-compensation of pressure and flow.

MODELS:

Ref. 003301: 3/4" male thread.

Ref. 003302: 3/4" female thread.

Ref. 003311: 3/4" short arm male thread.

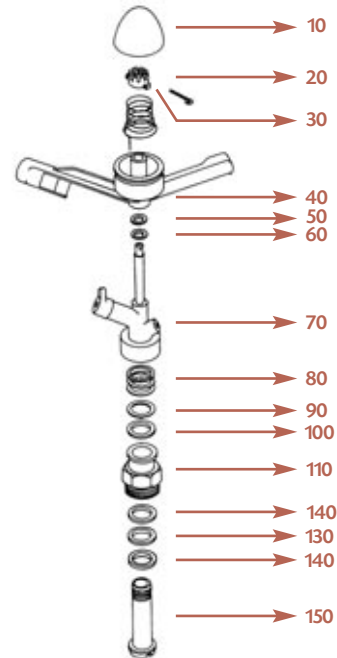
Ref. 003312: 3/4" short arm female thread.

TABLES & PARTS

Technical guidance table VYR-33

NOZZLE	Spacing (m) / Precipit. rate (mm/h) Spacing (ft) / Precipit. rate (in/h)					
	BAR	16x18 T	16x20 T	18x18 T	18x20 T	20x20 T
	PSI	53x59 T	53x66 T	59x59 T	59x66 T	66x66 T
4 mm 5/32"	3	3,6	3,3	3,2		
	44	0,14	0,13	0,13		
	3,5	3,9	3,5	3,5	3,1	
	51	0,15	0,14	0,14	0,12	
	4	4,2	3,8	3,7	3,4	3
	58	0,17	0,15	0,15	0,13	0,12
	4,5	4,5	4	4	3,6	3,2
4,8 mm 3/16"	65	0,18	0,16	0,16	0,14	0,13
	5	4,7	4,2	4,2	3,8	3,4
	73	0,19	0,17	0,17	0,15	0,13
	3	5,2	4,7	4,7	4,2	
	44	0,20	0,19	0,19	0,17	
	3,5	5,7	5,1	5	4,5	4,1
	51	0,22	0,20	0,20	0,18	0,16
4,8 x 2,4 mm 3/16" x 3/32"	4	6,1	5,4	4,5	4,8	4,4
	58	0,24	0,21	0,18	0,19	0,17
	4,5	6,4	5,8	5,7	5,1	4,6
	65	0,25	0,23	0,22	0,20	0,18
	5	6,8	6,1	6	5,4	4,9
	73	0,27	0,24	0,24	0,21	0,19
	3	6,5	5,9	5,8	5,2	4,7
4,8 x 2,4 mm 3/16" x 3/32"	44	0,26	0,23	0,23	0,20	0,19
	3,5	7,1	6,4	6,3	5,7	5,1
	51	0,28	0,25	0,25	0,22	0,20
	4	7,6	6,8	6,7	6,1	5,4
	58	0,30	0,27	0,26	0,24	0,21
	4,5	8	7,2	7,1	6,4	5,8
	65	0,31	0,28	0,28	0,25	0,23
5	8,5	7,6	7,5	6,8	6,1	5,4
	73	0,33	0,30	0,30	0,27	0,24

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



Performance nozzle table VYR-33

Long range nozzle (long vane) + plug

NOZZLE	4 mm 5/32"	4,4 mm 11/64"	4,8 mm 3/16"	5,5 mm 7/32"
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	900 27,5	1000 28	1270 30	1630 31
29	238 90	264 92	335 98	431 102
2,5	980 28	1140 29	1400 31	1795 32,4
36	259 92	301 95	370 102	474 106
3	1065 29,5	1225 30	1550 32	1960 33,2
44	281 97	324 98	409 105	518 109
3,5	1150 30,6	1295 31,2	1630 33	2095 34
51	304 100	342 102	431 108	553 112
4	1230 31	1390 32,3	1770 34	2220 35,3
58	325 102	367 106	468 112	586 116
4,5	1290 31,2	1445 32,5	1890 34	2340 36
65	341 102	382 107	499 112	618 118
5	1360 31,8	1510 32,5	1980 34	2470 36
73	359 104	399 107	523 112	653 118

 Standard  Diameter range

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"	4,8 x 2,4 mm 3/16 x 3/32"	5,5 x 2,4 mm 7/32 x 3/32"
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	1150 27,5	1290 28	1560 30	1880 31
29	304 90	341 92	412 98	497 102
2,5	1310 28	1435 29	1750 31	2090 32,4
36	346 92	379 95	462 102	552 106
3	1420 29,5	1550 30	1920 32	2290 33,2
44	375 97	409 98	507 105	605 109
3,5	1530 30,6	1660 31,2	2050 33	2460 34
51	404 100	439 102	542 108	650 112
4	1630 31	1770 32,3	2180 34	2620 35,3
58	431 102	468 106	576 112	692 116
4,5	1720 31,2	1870 32,5	2300 34	2770 36
65	454 102	494 107	608 112	732 118
5	1800 31,8	1970 32,5	2430 34	2920 36
73	476 104	520 107	642 112	771 118

 Standard  Diameter range

- For optimum distribution avoid use in shady areas.
- 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 have been obtained at indoor laboratory with 0 m/sec wind velocity. Outdoor results may change range distances.