

CV-86



CV-86 · Full circle AG

GENERAL PROPERTIES:

- Agricultural impact sprinkler with medium-high flow.
- 1" female connection.
- Made of plastic and stainless steel.
- High-resistance rotating joints.
- Nozzle angles of 26° y 26°
- Special design for long reach.
- Used in full coverage irrigation with medium-high flow.

TECHNICAL SPECIFICATIONS:

- Range distance: 13,5 - 27 m / 44 - 89 ft.
- Flow: 2000 - 9400 L/H / 528 - 2480 GPH.
- Working pressure: 2,75 - 6 BAR / 36 87 PSI.
- Area: Full circle.
- Nozzles: Two nozzles: one main nozzle and a secondary deflector nozzle.
- Trajectory angles: 26° y 26°
- Maximum stream height: 5 m/ 16,5 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 20x20R, 22x22T and 22x24T (meters)

APPLICATIONS:

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

MEASUREMENTS:

- Height: 20 cm / 7,9 in.
- Width: 22 cm or 28 cm / 8,7 in or 11 in.
- Weight: 310 g or 390 g / 0,68 Lbs or 0,85 Lbs
- Units per box: 25

OPTIONS:

- Threads in BSP or NPT under demand.
- Plastic or brass arm depending on the desired rotating speed and the pressure used.
- This is one of the models which can be used in conjunction with our travelling sprinkler cart VYR-5300.

MODELS:

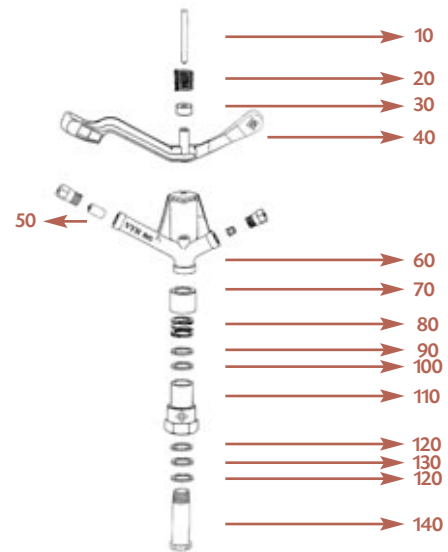
- Ref. 008600: Plastic.
- Ref. 008601: Brass arm.

TABLES & PARTS

Technical guidance table CV-86

NOZZLE	Spacing (m) / Precipit. rate (mm/h)						
	Spacing (ft) / Precipit. rate (in/h)						
	BAR PSI	18x21 60x70	21x21 T 70x70 T	21x24 T 70x80 T	24x24 T 80x80 T	24x27 80x89	28x27 92x89
5,6 x 4,4 mm 7/32" x 11/64"	4	10,5	10,4	9,1	8	6,1	5,5
	58	0,41	0,41	0,36	0,31	0,24	0,22
	4,5	11,2	11,1	9,7	8,5	6,5	5,8
6,4 x 4,8 mm 1/4" x 3/16"	65	0,44	0,44	0,38	0,33	0,26	0,23
	5	11,8	11,7	10,2	8,9	6,9	6,1
	73	0,46	0,46	0,40	0,35	0,27	0,24
7,2 x 4,8 mm 9/32" x 3/16"	4	13,3	13,1	11,5	10,1	7,7	6,9
	58	0,52	0,52	0,45	0,40	0,30	0,27
	4,5	14,1	13,9	12,2	10,7	8,2	7,3
7,2 x 4,8 mm 9/32" x 3/16"	65	0,56	0,55	0,48	0,42	0,32	0,29
	5	14,8	14,7	12,9	11,3	8,7	7,7
	73	0,58	0,58	0,51	0,44	0,34	0,30
7,2 x 4,8 mm 9/32" x 3/16"	4	15,4	15,3	13,4	11,7	9	8
	58	0,61	0,60	0,53	0,46	0,35	0,31
	4,5	16,4	16,2	14,2	12,4	9,5	8,5
7,2 x 4,8 mm 9/32" x 3/16"	65	0,65	0,64	0,56	0,49	0,37	0,33
	5	17,3	17,1	14,9	13,1	10,1	8,9
	73	0,68	0,70	0,59	0,52	0,40	0,35

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



Performance nozzle tables CV-86

Long range nozzles (long vane) + plug

NOZZLE	5,6 mm 7/32"		6,4 mm 1/4"		7,2 mm 9/32"		8,0 mm 5/16"		8,8 mm 11/32"		9,6 mm 3/8"	
	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
3	2040	36	2671	37	3377	40	4265	40	5048	40	6003	42
44	539	118	705	122	892	131	1126	131	1333	131	1585	138
3,5	2204	36	2885	38	3647	40	4499	41	5452	42	6484	42
51	582	118	762	125	963	131	1188	135	1439	138	1712	138
4	2356	36	3084	40	3899	42	4809	42	5829	44	6931	44
58	622	118	814	131	1029	138	1270	138	1539	145	1830	145
4,5	2499	38	3271	42	4135	42	5101	44	6182	46	7352	46
65	660	125	864	138	1092	138	1347	145	1632	151	1941	151
5	2634	38	3448	42	4359	42	5377	44	6517	48	7750	48
73	695	125	910	138	1151	138	1420	145	1720	158	2046	158
5,5	2762	39	3616	43	4572	43	5640	45	6835	49	8128	49
80	729	128	955	141	1207	141	1489	148	1804	161	2146	161



Long range nozzles (long vane) + short range nozzle

NOZZLE	5,6 x 4,4 mm 7/32 x 11/64"		6,4 x 4,4 mm 1/4 x 11/64"		6,4 x 4,8 mm 1/4 x 3/16"		7,2 x 4,8 mm 9/32 x 3/16"		7,5 5,6 mm 9/32 x 7/32"		8,8 x 5,6 mm 11/32 x 7/32"		9,6 x 5,6 mm 3/8 x 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	L/H GPH	Ø m Ø ft	L/H GPH	Ø m Ø ft	L/H GPH
3	3450	36	4081	37	4349	37	5055	40	5621	40	7292	40	8247	42
44	911	118	1077	122	1148	122	1335	131	1484	131	1925	131	2177	138
3,5	3727	36	4408	38	4697	38	5459	40	6071	40	7876	42	8910	42
51	984	118	1164	125	1240	125	1441	131	1603	131	2079	138	2352	138
4	3985	36	4713	40	5022	40	5837	42	6490	42	8420	44	9522	44
58	1052	118	1244	131	1326	131	1541	138	1713	138	2223	145	2514	145
4,5	4226	38	4998	42	5326	42	6190	42	6883	42	8930	46	10100	46
65	1116	125	1319	138	1406	138	1634	138	1817	138	2358	151	2666	151
5	4454	38	5268	42	5615	42	6526	42	7256	42	9414	48	10647	48
73	1176	125	1391	138	1482	138	1723	138	1916	138	2485	158	2811	158
5,5	4671	39	5525	43	5888	43	6844	43	7610	43	9873	49	11166	49
80	1233	128	1459	141	1554	141	1807	141	2009	141	2606	161	2948	161

- 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 has been obtained at indoor laboratory with 0 m/seg win velocity. Outdoor results may change range distances.
- Below nozzle 6.3 mm (4.8 mm and 5.6 mm) is highly recommended the use of weights on back arm. These will be supplied only under order and separated from sprinkler.

Standard Ø: Diameter range