

# CV-166



Ref. 016610

Ref. 116600

1"

## CV-166 · Part circle AG

### GENERAL PROPERTIES:

- Part circle agricultural impact sprinkler, medium-high flow.
- 1" female connection.
- Made of plastic and stainless steel.
- High-resistance rotating joints.
- Nozzle angles of 28° and 14°
- Part circle mechanical system using clips that are very easy and quick to adjust.
- Used in full coverage irrigation with medium-high flow to cover the side and corner areas.

### TECHNICAL SPECIFICATIONS:

- Reach: 16 - 24 m / 52 - 79 ft.
- Flow: 1300 - 5420 L/H / 343 - 1431 GPH.
- Working pressure: 3 - 5 BAR / 43 - 87 PSI.
- Area: Part or full circle.
- Nozzles: One main long reach nozzle and a secondary short reach nozzle.
- Trajectory angles: 28° and 14°
- Maximum stream height: 5.5 m / 18 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 24x24R, 25x25T, 25x26T (meters).

### APPLICATIONS:

- Horticultural plantations, cereals, tubers, leguminous plants and fruit trees.

### MEASUREMENTS:

- Height: 24 cm / 9,4 in.
- Width: 25 cm / 9,8 in.
- Weight: 430 g / 0,95 Lbs.
- Units per box: 15

### OPTIONS:

- Threads in BSP or NPT under demand.
- Arm with jet breaker diffuser pin for the main nozzle.
- Foldable tripod for mobile installation.
- This is one of the models which can be used in conjunction with our travelling sprinkler cart VYR-5300

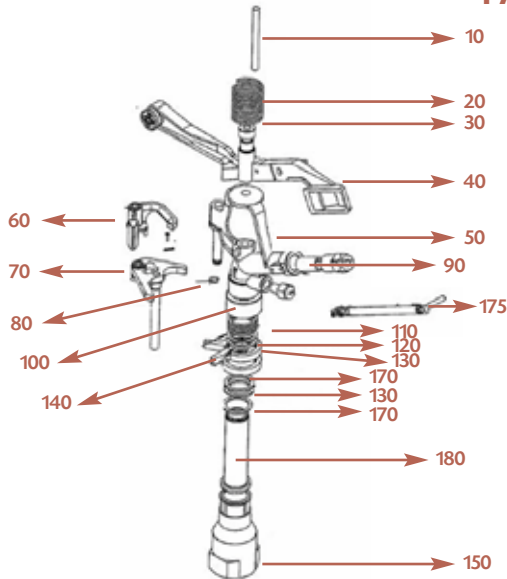
### MODELS:

- Ref. 016600: Diffuser pin set.
- Ref. 016610: With diffuser pin.
- Ref. 116600: Diffuser pin set.

Special mechanical and hydraulic design for energy saving and an optimal coverage coefficient.



## TABLES & PARTS



### Performance nozzle tables CV-166

Long range nozzles (long vane) + plug

NOZZLE	4,4 mm 11/64"		4,8 mm 3/16"		5,6 mm 7/32"		6,4 mm 1/4"		7,2 mm 9/32"												
	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										
3	1300	33	1510	34	1960	35	2590	36	3240	38	44	343	108	399	112	517	115	684	118	855	125
3,5	1400	33,5	1630	35	2140	35,5	2700	37	3470	38,5	51	370	110	430	115	565	116	713	121	916	126
4	1500	34	1760	36	2310	36	2800	38	3760	39	58	396	112	465	118	610	118	739	125	993	128
4,5	1590	35	1880	36,5	2460	37	2980	38,5	3970	39,5	65	420	115	496	120	649	121	787	126	1048	130
5	1690	36	1970	37	2580	38	3130	39	4150	40	73	446	118	520	121	681	125	826	128	1096	131



Long range nozzles (long vane) + short range nozzle

NOZZLE	4,4 x 3,2 mm 11/64 x 1/8"		4,8 x 3,2 mm 3/16 x 1/8"		5,5 x 3,2 mm 7/32 x 1/8"		6,3 x 3,2 mm 1/4 x 1/8"		7,14 x 3,2 mm 9/32 x 1/8"		8,73 x 3,2 mm 11/32 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														
3	1900	33	2170	34	2550	35	3150	36	3790	38	4250	38,5	5000	39,5	44	502	108	573	112	673	115	832	118	1001	125	1122	126
3,5	2030	33,5	2300	35	2710	35,5	3400	37	4130	38,5	4640	39	51	536	110	607	115	715	116	898	121	1090	126	1225	128		
4	2190	34	2450	36	2930	36	3700	38	4420	39	5000	39,5	58	578	112	647	118	774	118	977	125	1167	128	1320	130		
4,5	2330	35	2600	36,5	3140	37	3950	38,5	4670	39,5	5150	40	65	615	115	686	120	829	121	1043	126	1233	130	1360	131		
5	2480	36	2760	37	3320	38	4150	39	4910	40	5420	40,5	73	655	118	729	121	876	125	1096	128	1296	131	1431	133		



Easy part-circle adjustment

Standard Ø: 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 has been obtained at indoor laboratory with 0 m/seg win velocity. Outdoor results may change range distances.