



## VYR-35

### 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 26°.
- Designed for full coverage irrigation offering best compliance with spacing standards in the market.
- Leading sprinkler in the agricultural market.

### Technical specifications:

- Range distance: 42-60 ft. (13-18 m).
- Flow: 2,7-15 GPM (660- 3270 l/h).
- Working pressure: 25-65 PSI (1,75- 4,5 BAR).
- Area: Full circle.
- Nozzles: Two nozzles: one main nozzle and a secondary deflector nozzle or plug.
- Trajectory angles: 26° and 26°.
- Maximum stream height: 14 ft. (4,2 m).
- Rotation time: Depending on the pressure and the nozzles, the rotation will be constant and continuous.

### Applications:

- This model is compatible with almost any type of crop and with a wide range of pluviometric and spacing conditions, suitable for a large number of different crop types.
- Horticultural plantations, cereals, tubers, leguminous plants and fruit trees.

### Dimensions:

- Height: 5,5 in. (14 cm).
- Width: 6,7 in. (17 cm).
- Weight: 0,95 lbs. (430 grs).
- Units per box: 50.


### Options:

- Threads in BSP or NPT under demand.
- Anti-frost cover with 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. 003501: 3/4" male.
- Ref. 003520: 3/4" female.
- Ref. 003511: 3/4" male, anti-frost.

### Long range nozzles (long vane) + Plug

	1/8" 3,2 mm.		9/64" 3,6 mm.		5/32" 4,0 mm.		11/64" 4,4 mm.		3/16" 4,8 mm. 		13/64" 5,2 mm.		7/32" 5,6 mm.	
PSI	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.
36	2,73	85	3,48	87	4,27	90	5,10	98	6,12	105	7,22	107	7,57	112
44	3,00	85	3,78	87	4,62	92	5,58	100	6,65	105	7,88	110	8,27	115
51	3,25	87	4,10	89	5,02	97	6,07	103	7,22	108	8,50	113	9,42	118
58	3,48	87	4,40	92	5,37	97	6,47	107	7,70	112	9,07	116	9,97	121
65	3,70	89	4,67	95	5,68	98	6,82	110	8,18	115	9,60	118	10,60	126
73	3,87	90	4,93	97	5,98	100	7,22	112	8,62	118	10,08	123	11,08	130
80	4,10	92	5,15	98	6,30	102	7,57	115	9,07	120	10,47	125	11,62	131

(\*Sprinkler at 1 meter height)

### Long range nozzles (long vane) + short range nozzle

	15°		15°		15°		15°		15°		15°		15°		15°		15°	
	1/8" x 3/32" 3,2 x 2,4 mm.		9/64" x 3/32" 3,6 x 2,4 mm.		5/32" x 3/32" 4,0 x 2,4 mm.		11/64" x 3/32" 4,4 x 2,4 mm. 		11/64" x 7/64" 4,4 x 2,8 mm.		3/16" x 7/64" 4,8 x 2,8 mm.		3/16" x 1/8" 4,8 x 3,2 mm.		13/64" x 1/8" 5,2 x 3,2 mm.		7/32" x 1/8" 5,6 x 3,2 mm.	
PSI	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.
36	4,32	85	5,07	87	5,80	90	6,68	98	7,62	98	8,33	105	9,02	105	10,17	107	10,82	112
44	4,70	85	5,50	87	6,38	92	7,35	100	7,92	100	9,23	105	9,85	105	11,08	110	12,02	115
51	5,10	87	5,93	89	6,87	97	7,92	103	8,43	103	9,92	108	10,65	108	11,97	113	12,83	118
58	5,45	87	6,38	92	7,35	97	8,45	107	9,10	107	10,57	112	11,40	112	12,80	116	13,35	121
65	5,80	89	6,78	95	7,78	98	8,93	110	9,53	110	11,20	115	12,10	115	13,50	118	13,95	126
73	5,98	90	7,13	97	8,23	100	9,42	112	10,12	112	11,80	118	12,67	118	14,22	123	14,52	130
80	6,42	92	7,48	98	8,62	102	9,85	115	10,57	115	12,37	120	13,25	120	14,78	125	15,10	131

(\*Sprinkler at 1 meter height)

 **STANDARD**

Ø ft. : Diameter of coverage

- 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.



Manufactured by



## VYR-144 C

### General properties:

- Agricultural impact sprinkler with medium-high flow.
- 1 1/4" female connection.
- Made of aluminium, plastic and stainless steel.
- High-resistance rotating joints.
- Nozzle angle of 30°.
- Special design for long reach.
- Used in full coverage irrigation with medium-high flow.

### Technical specifications:

- Range distance: 52-85 ft. (16-26 m).
- Flow: 9,9-82 GPM (4,500- 15,600 l/h).
- Working pressure: 36-65 PSI (2,5 - 4,5 BAR).
- Area: Full circle.
- Spring tension adjustment system.
- 2 Nozzles: One main nozzle with built-in deflector pin, and a second short range deflector nozzle.
- Trajectory angles: 30°.
- Maximum stream height: 18 ft. (5,5 m).
- Rotation time: Adjustable. Depending on the pressure and the nozzles, the rotation will be constant and continuous.

### Dimensions:

- Height: 9,8 in. (25 cm).
- Width: 11,8 (30 cm).
- Weight: 2,20 lbs. (1000 grs).
- Units per box: 15.


### Applications:

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

### Models:

Ref. 014401 Sprinkler with 5 nozzle set.

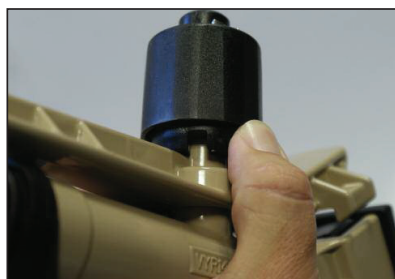
### Long range nozzles (long vane) + short range nozzle

NOZZLE	P (PSI)	D (ft.) Radius	FLOW		□			△		
			GPS	GPM	A ft.	A' ft.	PL GPH	A ft.	A ft.	PL GPH
9/32"x 9/64" 7 x 3,6 mm.	22	54,1	1,65	9,90	75	75	1,11	92	79	0,88
	29	55,8	1,91	11,45	75	75	1,29	95	82	0,94
	36	60,7	2,14	12,82	85	85	1,12	105	89	0,88
	44	65,6	2,33	14,00	92	92	1,07	112	98	0,82
5/16"x 9/64" 8 x 3,6 mm.	22	57,4	2,16	12,95	79	79	1,34	98	85	0,98
	29	60,7	2,49	14,97	85	85	1,32	105	89	1,03
	36	65,6	2,79	16,73	92	92	1,27	112	98	0,98
	44	68,9	3,05	18,32	95	95	1,30	118	102	0,98
	51	70,5	3,29	19,77	98	98	1,32	118	105	1,03
13/32"x 9/64" 10 x 3,6 mm. 	29	68,9	3,90	23,38	95	95	1,66	118	102	1,25
	36	70,5	4,36	26,15	98	98	1,74	118	105	1,36
	44	75,5	4,77	28,62	105	105	1,67	128	112	1,29
	51	80,4	5,15	30,90	112	112	1,60	138	118	1,22
	58	82,0	5,51	33,07	115	115	1,61	141	121	1,24
15/32"x 11/64" 12 x 4,4 mm.	29	70,5	5,61	33,68	98	98	2,24	118	105	1,75
	36	72,2	6,28	37,65	102	102	2,34	125	108	1,80
	44	78,7	6,87	41,22	108	108	2,27	135	118	1,67
	51	83,7	7,43	44,55	115	115	2,18	144	125	1,60
	58	85,3	7,93	47,60	118	118	2,20	144	128	1,66
9/16"x 11/64" 14 x 4,4 mm.	51	102	9,04	54,27	115	115	2,75	144	128	2,27
	58	110	9,53	57,20	118	118	2,69	151	135	2,24
	65	112	9,90	59,40	125	125	2,77	157	141	2,19
	73	118	11	66,00	131	131	2,72	164	148	2,14
	80	125	11,5	68,63	138	138	2,69	167	151	2,14

 **STANDARD**

Ø ft. : Diameter of coverage

- 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.



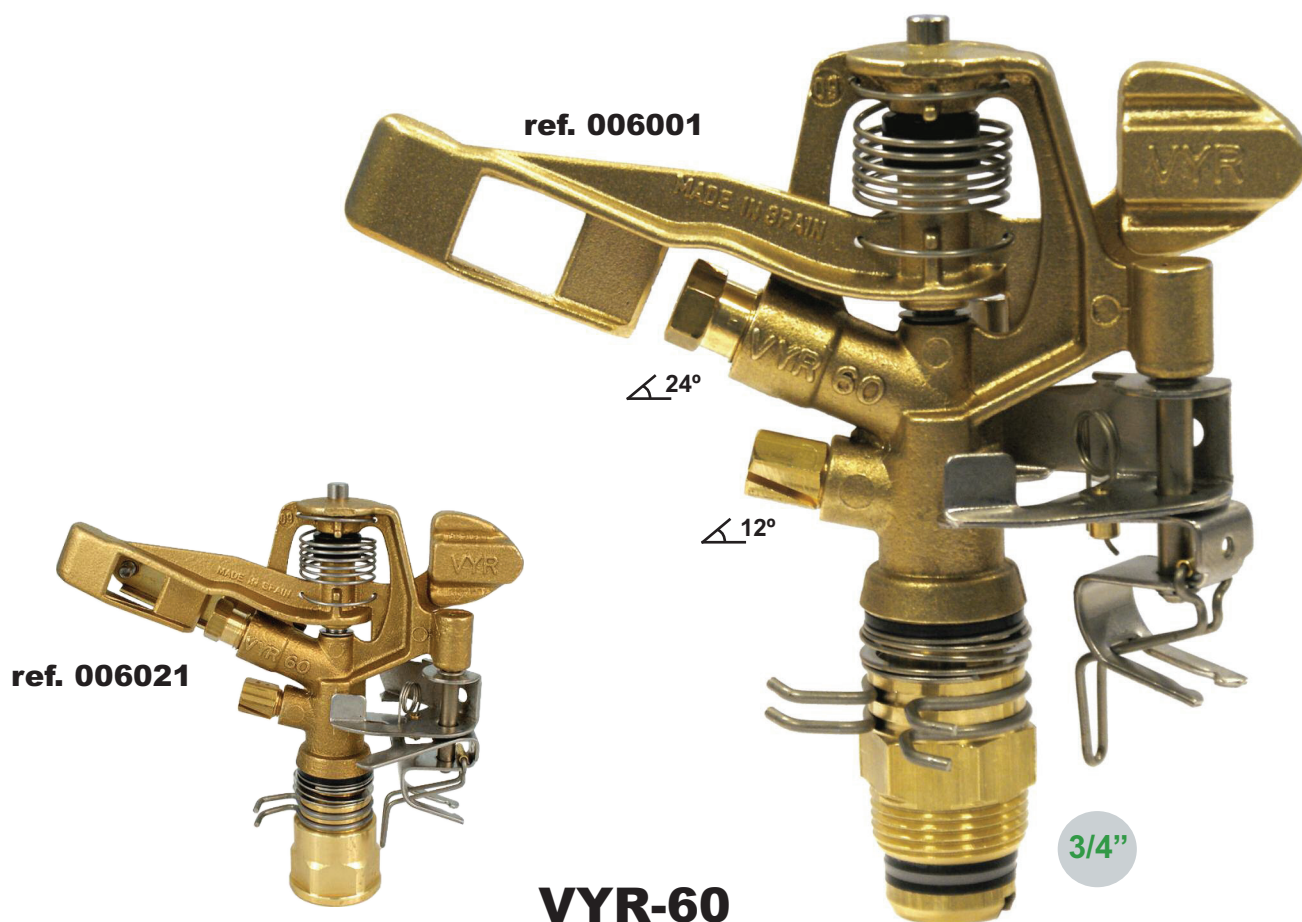
Easy spring tension adjustment

#### SYMBOLS

- P: Pressure in nozzle
- D: Range distance
- A: Distance in between heads
- A': Distance in between lines
- PL: Precipitation rate per Hour
- : Squared spacing
- △: Triangular spacing



Manufactured by



## VYR-60

### General properties:

- Part circle impact sprinkler, medium flow.
- 3/4" male or female connection.
- Made of brass and stainless steel.
- High-resistance rotating joints.
- Nozzle angles of 24° and 12°.
- Part circle mechanical system using clips that are very easy and quick to adjust.
- Used in full coverage irrigation with medium flow to cover the side and corner areas.
- Special mechanical and hydraulic design for energy saving and an optimal coverage coefficient.

### Technical specifications:

- Reach: 42-60 ft. (13-18 m).
- Flow: 2,7-15,1 GPM (660- 3270 l/h).
- Working pressure: 25-65 PSI (1,75- 4,5 BAR).
- Area: Part or full circle.
- Nozzles: One main long reach nozzle and a secondary short reach nozzle.
- Trajectory angles: 24° and 12°.
- Maximum stream height: 12 ft. (3,8 m).
- Rotation time: Depending on the pressure and the nozzles, the rotation will be constant and continuous.

### Applications:

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

### Dimensions:



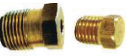





- Height: 6,3 in. (16 cm).
- Width: 7,1 in. (18 cm).
- Weight: 1,34 lbs. (608 grs).
- Units per box: 25.

### Models:

- Ref. 006001:** Without diffuser pin. Male.
- Ref. 006003:** With diffuser pin. Male.
- Ref. 006020:** Without diffuser pin. Female.
- Ref. 006021:** With diffuser pin. Female.
- Ref. 106000:** Diffuser pin assembly.

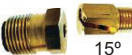
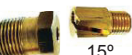
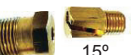
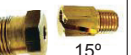
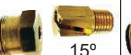






### Long range nozzles (long vane) + Plug

														
	1/8" 3,2 mm.	9/64" 3,6 mm.	5/32" 4,0 mm.	11/64" 4,4 mm.	3/16" 4,8 mm. 	13/64" 5,2 mm.	7/32" 5,6 mm.							
PSI	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.
36	2,73	85	3,48	87	4,27	90	5,10	98	6,12	105	7,22	107	7,57	112
44	3,00	85	3,78	87	4,62	92	5,58	100	6,65	105	7,88	110	8,27	115
51	3,25	87	4,10	89	5,02	97	6,07	103	7,22	108	8,50	113	9,42	118
58	3,48	87	4,40	92	5,37	97	6,47	107	7,70	112	9,07	116	9,97	121
65	3,70	89	4,67	95	5,68	98	6,82	110	8,18	115	9,60	118	10,60	126
73	3,87	90	4,93	97	5,98	100	7,22	112	8,62	118	10,08	123	11,08	130
80	4,10	92	5,15	98	6,30	102	7,57	115	9,07	120	10,47	125	11,62	131

(\*Sprinkler at 1 meter height)

### Long range nozzles (long vane) + short range nozzle

																		
	15° 1/8" x 3/32" 3,2 x 2,4 mm.	15° 9/64" x 3/32" 3,6 x 2,4 mm.	15° 5/32" x 3/32" 4,0 x 2,4 mm.	15° 11/64" x 3/32" 4,4 x 2,4 mm.	15° 11/64" x 7/64" 4,4 x 2,8 mm.	15° 3/16" x 7/64" 4,8 x 2,8 mm.	15° 3/16" x 1/8" 4,8 x 3,2 mm.	15° 13/64" x 1/8" 5,2 x 3,2 mm.	15° 7/32" x 1/8" 5,6 x 3,2 mm.									
PSI	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.	GPM	Ø Ft.		
36	4,32	85	5,07	87	5,80	90	6,68	98	7,62	98	8,33	105	9,02	105	10,17	107	10,82	112
44	4,70	85	5,50	87	6,38	92	7,35	100	7,92	100	9,23	105	9,85	105	11,08	110	12,02	115
51	5,10	87	5,93	89	6,87	97	7,92	103	8,43	103	9,92	108	10,65	108	11,97	113	12,83	118
58	5,45	87	6,38	92	7,35	97	8,45	107	9,10	107	10,57	112	11,40	112	12,80	116	13,35	121
65	5,80	89	6,78	95	7,78	98	8,93	110	9,53	110	11,20	115	12,10	115	13,50	118	13,95	126
73	5,98	90	7,13	97	8,23	100	9,42	112	10,12	112	11,80	118	12,67	118	14,22	123	14,52	130
80	6,42	92	7,48	98	8,62	102	9,85	115	10,57	115	12,37	120	13,25	120	14,78	125	15,10	131

(\*Sprinkler at 1 meter height)

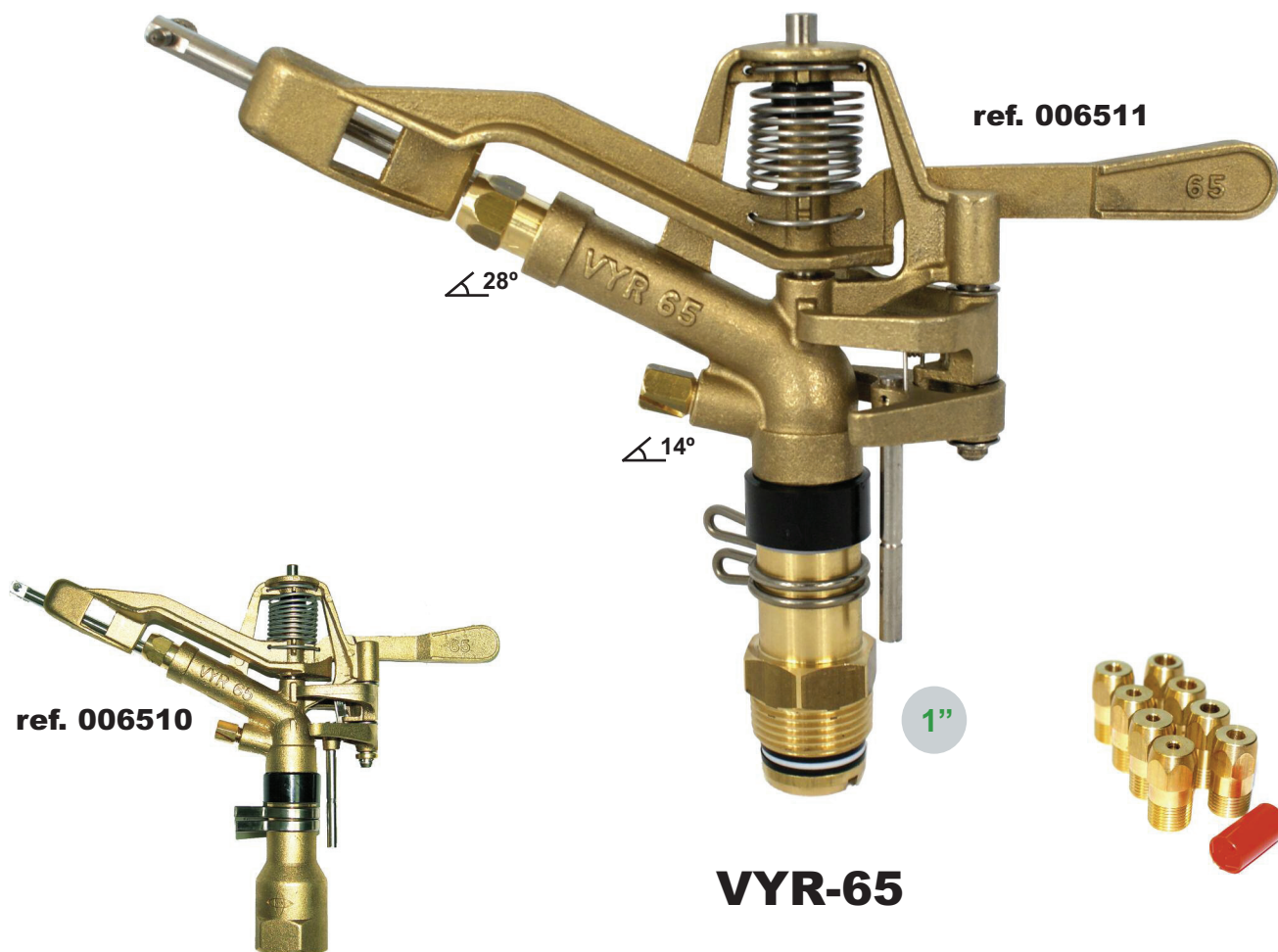
 **STANDARD**

**Ø ft.** : Diameter of coverage

- Sprinklers will be supplied with standard nozzles unless otherwise specified.
- For optimum distribution avoid use in shady areas.
- 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.



Manufactured by



## VYR-65

### General properties:

- Part circle agricultural impact sprinkler, medium-high flow.
- 1" male or female connection.
- Made of brass 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.
- Special mechanical and hydraulic design for energy saving and an optimal coverage coefficient.

### Technical specifications:

- Reach: 52-79 ft. (16-24 m).
- Flow: 10-38 GPM (2240 - 8000 l/h).
- Working pressure: 51-87 PSI (3,5 - 6 BAR).
- 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: 20 ft. (6,0 m).
- Rotation time: Depending on the pressure and the nozzles, the rotation will be constant and continuous.

### Applications:

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

### Dimensions:

- Height: 9,4 in. (24 cm).
- Width: 9,8 in. (25 cm).
- Weight: 3,13 lbs. (1.420 grs).
- Units per box: 15.

### Models:

**Ref. 006500:** Without diffuser pin. 1" female.

**Ref. 006501:** Without diffuser pin. 1" male.

**Ref. 006510:** With diffuser pin. 1" female.

**Ref. 006511:** With diffuser pin. 1" male.

**Ref. 106500:** Difuser pin set.

### Long range nozzles (long vane) + Plug

PSI	7/32" 5,55 mm.		1/4" 6,35 mm.		9/32" 7,14 mm.		5/16" 7,93 mm.		11/32" 8,73 mm.		3/8" 9,52 mm.	
	GPM.	Ø Ft.	GPM.	Ø Ft.	GPM.	Ø Ft.	GPM.	Ø Ft.	GPM.	Ø Ft.	GPM.	Ø Ft.
51	10,43	138	13,52	141	16,42	144	19,77	151	23,49	151	27,17	151
58	11,23	144	14,53	144	17,74	151	21,35	157	25,23	161	29,28	161
65	11,89	151	15,48	151	18,71	157	22,67	164	27,08	167	30,91	171
73	12,68	154	16,25	157	20,03	161	24,00	171	28,66	177	32,89	180
80	13,21	157	17,17	164	20,98	164	25,10	177	29,98	180	34,50	187

### Long range nozzles (long vane) + short range nozzle

PSI	3/16 x 1/8" 4,76 x 3,2 mm.		7/32 x 1/8" 5,55 x 3,2 mm.		1/4 x 1/8" 6,35 x 3,2 mm.		9/32 x 1/8" 7,14 x 3,2 mm.		5/18 x 1/8" 7,93 x 3,2 mm.		11/32 x 1/8" 8,73 x 3,2 mm.	
	GPM.	Ø Ft.	GPM.	Ø Ft.	GPM.	Ø Ft.	GPM.	Ø Ft.	GPM.	Ø Ft.	GPM.	Ø Ft.
51	11,01	131	13,43	138	16,38	144	19,50	151	26,46	157	29,74	164,0
58	12,04	135	14,38	144	17,81	151	20,87	157	28,18	167	32,10	177,2
65	12,64	138	15,28	151	18,76	157	22,21	164	30,12	177	34,34	187,0
73	13,34	141	16,11	154	19,81	161	23,69	167	31,96	184	36,32	196,8
80	13,98	144	16,93	157	20,87	164	24,55	171	33,68	187	38,04	203,4

 **STANDARD**

**Ø ft.** : Diameter of coverage

- 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.



Manufactured by



**General properties:**

- Agricultural part-circle impact sprinkler with medium-high flow.
- 1 1/4" female connection.
- Made of aluminium, plastic and stainless steel.
- High-resistance rotating joints.
- Nozzle angle of 30°.
- Special design for long reach.
- Used in full coverage irrigation with high flows.

**Technical specifications:**

- Reach: 52-85 ft. (16-26 m).
- Flow: 9,9-69 GPM (2,250- 10,800 l/h).
- Working pressure: 22-65 PSI (1,5 - 4,5 BAR).
- Area: Part or full circle.
- Spring tension adjustment system.
- 2 Nozzles: One main nozzle with built-in deflector pin, and a second short range deflector nozzle.
- Trajectory angles: 30°.
- Maximum stream height: 5,5 m.
- Rotation time: Adjustable. Depending on the pressure and the nozzles, the rotation will be constant and continuous.

**Dimensions:**


- Height: 9,8 in. (25 cm).
- Width: 11,8 in. (30 cm).
- Weight: 2,2 lbs (1 Kg).
- Units per box: 10.

**Applications:**

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

**Models:**

Ref. 014404

NOZZLE	P (PSI)	D (ft.) Radius	FLOW		□			△		
			GPS	GPM	A ft.	A' ft.	PL GPH	A ft.	A ft.	PL GPH
9/32"x 9/64" 7 x 3,6 mm.	22	54,1		9,90	75	75	1,11	92	79	0,88
	29	55,8		11,45	75	75	1,29	95	82	0,94
	36	60,7		12,82	85	85	1,12	105	89	0,88
	44	65,6		14,00	92	92	1,07	112	98	0,82
5/16"x 9/64" 8 x 3,6 mm.	22	57,4		12,95	79	79	1,34	98	85	0,98
	29	60,7		14,97	85	85	1,32	105	89	1,03
	36	65,6		16,73	92	92	1,27	112	98	0,98
	44	68,9		18,32	95	95	1,30	118	102	0,98
	51	70,5		19,77	98	98	1,32	118	105	1,03
13/32"x 9/64" 10 x 3,6 mm. 	29	68,9		23,38	95	95	1,66	118	102	1,25
	36	70,5		26,15	98	98	1,74	118	105	1,36
	44	75,5		28,62	105	105	1,67	128	112	1,29
	51	80,4		30,90	112	112	1,60	138	118	1,22
	58	82,0		33,07	115	115	1,61	141	121	1,24
15/32"x 11/64" 12 x 4,4 mm.	29	70,5		33,68	98	98	2,24	118	105	1,75
	36	72,2		37,65	102	102	2,34	125	108	1,80
	44	78,7		41,22	108	108	2,27	135	118	1,67
	51	83,7		44,55	115	115	2,18	144	125	1,60
	58	85,3		47,60	118	118	2,20	144	128	1,66
9/16"x 11/64" 14 x 4,4 mm.	51	102		54,27	115	115	2,75	144	128	2,27
	58	110		57,20	118	118	2,69	151	135	2,24
	65	112		59,40	125	125	2,77	157	141	2,19
	73	118		66,00	131	131	2,72	164	148	2,14
	80	125		68,63	138	138	2,69	167	151	2,14

 **STANDARD**

Ø mts. : Diameter of coverage

- 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.

PSI	58
Flow	2310 GPH
Nozzles	13/32"x 5/32"
Center	VYR
Rot. Veloc.	66 seg/rev.
Height	3 ft.
Test time	60 min
T°	68°F
Wind Veloc.	0 ft./seg.
Date	16/04/2012



Easy part-circle adjustment

**SYMBOLS**

- P: Pressure in nozzle
- D: Range distance
- A: Distance in between heads
- A': Distance in between lines
- PL: Precipitation rate per Hour
- : Squared spacing
- △: Triangular spacing



Manufactured by