

**PSU NOZZLES**

*PSU nozzle performances at 1.7 bars*

Irrigated arc	45°		90°		120°		180°		240°		270°		360°	
Type	12	15	12	15	12	15	12	15	12	15	12	15	12	15
Maximum range in metres	3.7	4.6	3.7	4.6	3.7	4.6	3.7	4.6	3.7	4.6	3.7	4.6	3.7	4.6
Flow (m <sup>3</sup> /h)	0.11	0.11	0.18	0.20	0.20	0.25	0.30	0.36	0.39	0.43	0.43	0.50	0.50	0.77

**PRO-SPRAY NOZZLES**

*PSU nozzle performances at 1.7 bars*

Irrigated arc	45°		90°		120°		180°		240°		270°		360°	
Type	12A	15A	12A	15A	12A	15A	12A	15A	12A	15A	12A	15A	12A	15A
Maximum range in metres	3.7	4.6	3.7	4.6	3.7	4.6	3.7	4.6	3.7	4.6	3.7	4.6	3.7	4.6
Flow (m <sup>3</sup> /h)	0.06	0.10	0.13	0.20	0.17	0.27	0.25	0.40	0.34	0.53	0.38	0.60	0.51	0.80

**MP ROTATOR NOZZLES**

*MP Rotator nozzle performances at 2.5 bars*

Irrigated arc	45°	90°				180°			210°			360°		
Type	MP angle	MP 1000	MP 2000	MP 3000	MP angle	MP 1000	MP 2000	MP 3000	MP 1000	MP 2000	MP 3000	MP 1000	MP 2000	MP 3000
Max. range (in m)	4	4	5.5	8.5	4	4	5.5	8.5	4	5.5	8.5	4	5.5	8.5
Flow (L/min)	11.7	11.3	23.8	51.3	23.3	20.8	44.5	109.2	26.3	51.3	127.5	44.8	88	218.3

**NOZZLES FOR STRIP SPRAYING**

*Standard nozzle performances at 2 bars*

Type	15 CST	15 EST	15 SST	15 SQ
Irrigated arc width (metres)	1.2	1.2	1.2	6.4
Irrigated arc length (metres)	8.5	4.3	8.5	6.4
Flow (m <sup>3</sup> /h)	0.25	0.13	0.25	0.78

**ADJUSTABLE ARC NOZZLES**

*VAN nozzle performances at 2 bars*

Irrigated arc	90°			180°			270°			330°	360°	
Type	8	12	15	8	12	15	8	12	15	8	12	15
Maximum range in metres	2.3	3.6	4.5	2.3	3.6	4.5	2.3	3.6	4.5	2.3	3.6	4.5
Flow (m <sup>3</sup> /h)	0.16	0.15	0.21	0.26	0.3	0.42	0.34	0.45	0.63	0.38	0.59	0.84

## PGJ NOZZLES

Turbine performances																		
Nozzles	0.5		0.75		1		1.5		2		2.5		3		4		5	
Pressure in bars	2.10	2.80	2.10	2.80	2.10	2.80	2.10	2.80	2.10	2.80	2.10	2.80	2.10	2.80	2.10	2.80	2.10	2.80
Max. range (in m)	4.60	4.90	4.60	4.90	5.50	5.80	6.40	6.70	7.30	7.60	8.20	8.50	9.10	9.40	10.10	10.40	11.00	11.30
Flow (m <sup>3</sup> /h)	0.10	0.11	0.15	0.17	0.19	0.23	0.30	0.34	0.39	0.45	0.50	0.57	0.57	0.68	0.84	0.91	1.07	1.14

## SRM NOZZLES

Turbine performances																		
Nozzles	0.5		0.75		1		1.5		2		2.5		3		4		5	
Pressure in bars	2.10	2.80	2.10	2.80	2.10	2.80	2.10	2.80	2.10	2.80	2.10	2.80	2.10	2.80	2.10	2.80	2.10	2.80
Max. range (in m)	4.60	4.90	4.60	4.90	5.50	5.80	6.40	6.70	7.30	7.60	8.20	8.50	9.10	9.40	10.10	10.40	11.00	11.30
Flow (m <sup>3</sup> /h)	0.10	0.11	0.15	0.17	0.19	0.23	0.30	0.34	0.39	0.45	0.50	0.57	0.57	0.68	0.84	0.91	1.07	1.14

## PGP NOZZLES

PGP performances												
Nozzles	2		4		6		8		10		12	
Pressure in bars	2.10	3.40	2.10	3.40	2.10	3.40	2.10	3.40	2.10	3.40	2.10	3.40
Maximum range in metres	8.80	9.10	9.80	10.40	11.00	12.20	11.30	13.10	13.70	14.90	14.00	15.20
Flow in (m <sup>3</sup> /h)	0.16	0.20	0.27	0.36	0.45	0.61	0.73	0.95	1.36	1.73	2.53	3.00

### 120 TURBINES

*120 performances*

Nozzles	1		2		2		3		4		4		6		8	
Pressure in bars	2.80	4.10	2.80	4.10	2.80	4.10	2.80	4.10	2.80	4.10	2.80	4.10	2.80	4.10	2.80	4.10
Max. range (in m)	9.40	9.80	10.10	10.40	11.00	11.60	11.60	12.20	12.20	12.80	12.20	13.40	12.20	13.40	12.50	13.70
Flow (m <sup>3</sup> /h)	0.23	0.30	0.32	0.41	0.41	0.50	0.55	0.66	0.68	0.84	0.84	1.04	1.11	1.36	1.36	1.73

### 125 TURBINES

*125 performances*

Nozzles	1		8		13		18		23		28	
Colour	white		light brown		light blue		red		dark green		black	
Pressure in bars	3.40	4.80	3.40	4.80	3.40	4.80	3.40	4.80	3.40	4.80	3.40	4.80
Maximum range in metres	13.40	14.00	14.90	15.50	16.80	17.40	18.30	18.90	19.50	20.10	21.60	22.30
Flow in m <sup>3</sup> /h	1.09	1.27	1.89	2.25	2.54	3.02	3.29	3.84	4.97	5.82	6.11	6.95

### 140 TURBINES

*140 performances*

Nozzles	40		41		42		43		44		45	
Pressure in bars	2.80	4.10	3.40	4.80	3.40	4.80	3.40	4.80	4.10	5.50	4.10	5.50
Maximum range in metres	13.70	14.60	15.90	16.50	16.20	17.40	17.70	18.60	19.80	20.70	21.00	22.30
Flow in m <sup>3</sup> /h	1.59	1.73	2.32	2.86	2.50	3.07	3.23	3.70	4.54	5.41	5.00	5.88

### 3504 TURBINES

*Sprinkler 3504 PC performances*

Nozzles	0.8		1.0		1.5		2.0		3.0		4.0	
Pressure in bars	2.5	3.5	2.5	3.5	2.5	3.5	2.5	3.5	2.5	3.5	2.5	3.5
Maximum range in metres	5.2	5.4	6.4	6.6	7.0	7.3	8.2	8.4	9.4	9.6	10.1	10.7
Flow in m <sup>3</sup> /h	0.16	0.19	0.21	0.26	0.30	0.36	0.39	0.47	0.60	0.71	0.83	1.00

### 5004 TURBINES

*Sprinkler 5004 PC performances*

Nozzles	1.0		1.5		2.0		3.0		4.0		6.0	
Pressure in bars	2.5	3.5	2.5	3.5	2.5	3.5	2.5	3.5	2.5	3.5	2.5	3.5
Maximum range in metres	8.5	8.5	9.4	9.8	9.8	9.8	11.1	11.3	11.2	11.4	11.3	11.6
Flow in m <sup>3</sup> /h	0.22	0.27	0.28	0.35	0.45	0.56	0.71	0.87	0.88	1.08	1.23	1.52

**MICRO REELS**

*Europe stadium reel performances*

40/130 metre model														
Nozzle Ø	Pressure		Flow	Range of the sprinkler	Max spacing 80%	Winding speed in m/h								
						5	10	15	20	25	30	40	50	60
	Winding time in hours													
mm	kg/cm <sup>2</sup>		m <sup>3</sup> /h	metres	metres	Rainfall in mm								
8 mm	3.40	2.00	3.42	17.00	27.00	25.30	12.70	8.40	6.30	5.10	4.20			
	4.60	3.00	4.14	19.00	30.00	27.60	13.80	9.20	6.90	5.50	4.60	3.40		
	5.90	4.00	4.80	20.50	33.00	29.10	14.50	9.70	7.30	5.80	4.80	3.60		
9 mm	3.70	2.00	4.26	17.50	28.00	30.40	15.20	10.10	7.60	6.10	5.10	3.80		
	5.10	3.00	5.22	19.50	31.00	33.70	16.80	11.20	8.40	6.70	5.60	4.20		
	6.50	4.00	6.00	21.00	34.00	35.30	17.70	11.80	8.80	7.00	5.90	4.40	3.50	
10 mm	4.10	2.00	5.28	18.00	29.00	36.40	18.20	12.10	9.10	7.30	6.10	4.60		
	5.70	3.00	6.42	20.50	33.00	38.90	19.50	12.90	9.70	7.80	6.50	4.90	3.90	
	7.30	4.00	7.44	22.00	35.00	42.50	21.30	14.20	10.60	8.50	7.10	5.30	4.20	3.50

50/170 metre model														
Nozzle Ø	Pressure		Flow	Range of the sprinkler	Max spacing 80%	Winding speed in m/h								
						5	10	15	20	25	30	40	50	60
	Winding time in hours													
mm	kg/cm <sup>2</sup>		m <sup>3</sup> /h	metres	metres	Rainfall in mm								
8 mm	3.50	2.00	7.20	18.00	29.00		25.00	16.50	12.50	10.00	8.20	6.20	5.00	4.10
	5.00	3.00	8.76	21.00	34.00		25.70	17.20	12.90	10.30	8.60	6.40	5.20	4.30
	6.40	4.00	10.10	23.00	37.00		27.30	18.20	13.60	10.90	9.10	6.80	5.50	4.50
9 mm	4.30	2.00	9.55	20.00	32.00		29.80	19.90	14.90	11.90	10.00	7.50	6.00	5.00
	5.90	3.00	11.65	22.00	35.00		33.30	22.20	16.60	13.30	11.10	8.30	6.60	5.50
	7.50	4.00	13.40	25.00	40.00		33.50	22.30	16.70	13.40	11.20	8.40	6.70	5.60
10 mm	4.90	2.00	11.70	21.00	34.00		34.40	23.00	17.20	13.80	11.50	8.60	6.90	5.80
	6.10	3.00	13.75	22.00	35.00		39.30	26.20	19.60	15.70	13.10	9.80	7.90	6.60
	7.10	4.00	15.05	24.00	38.00		39.60	26.40	19.80	15.780	13.20	9.90	7.90	6.60
	9.10	4.00	17.40	26.00	42.00		41.40	27.60	20.70	16.60	13.80	10.40	8.30	6.90