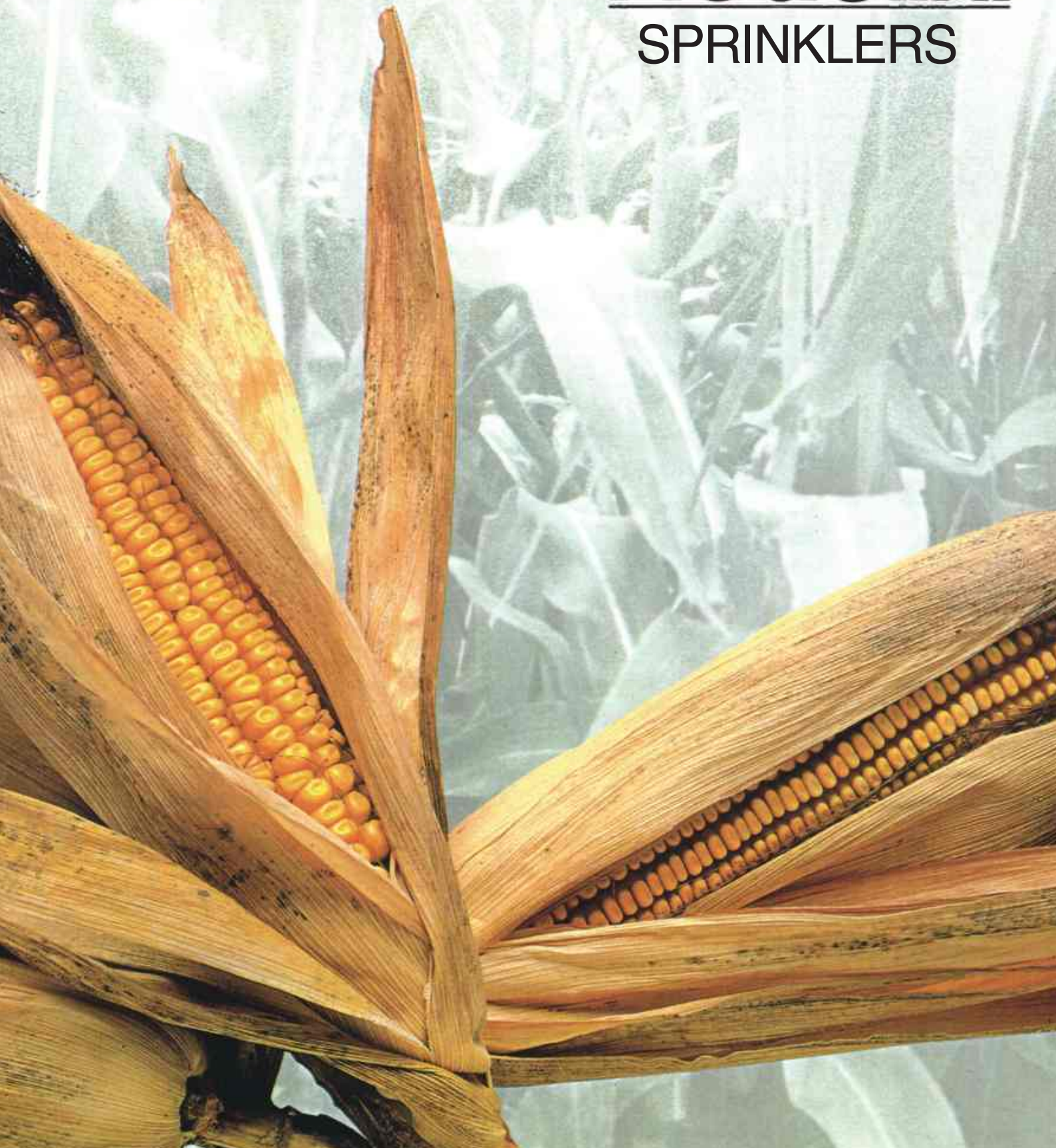


**Nodolini**  
SPRINKLERS





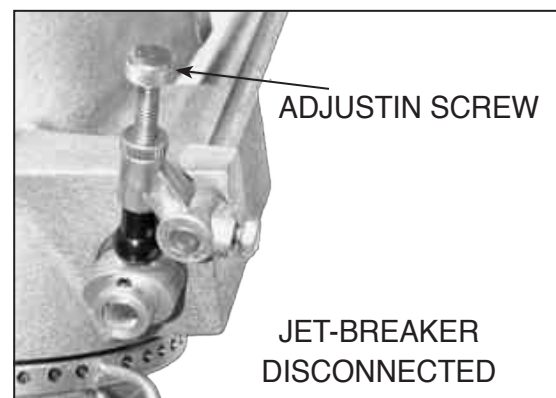
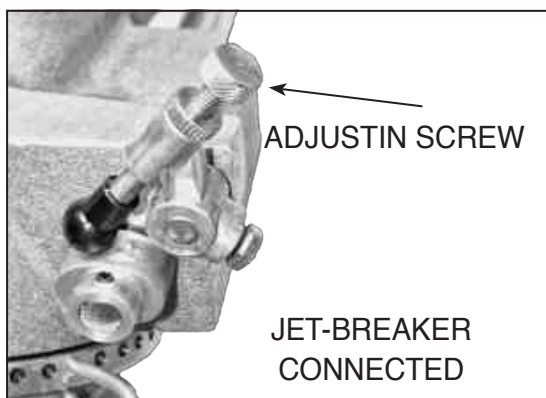
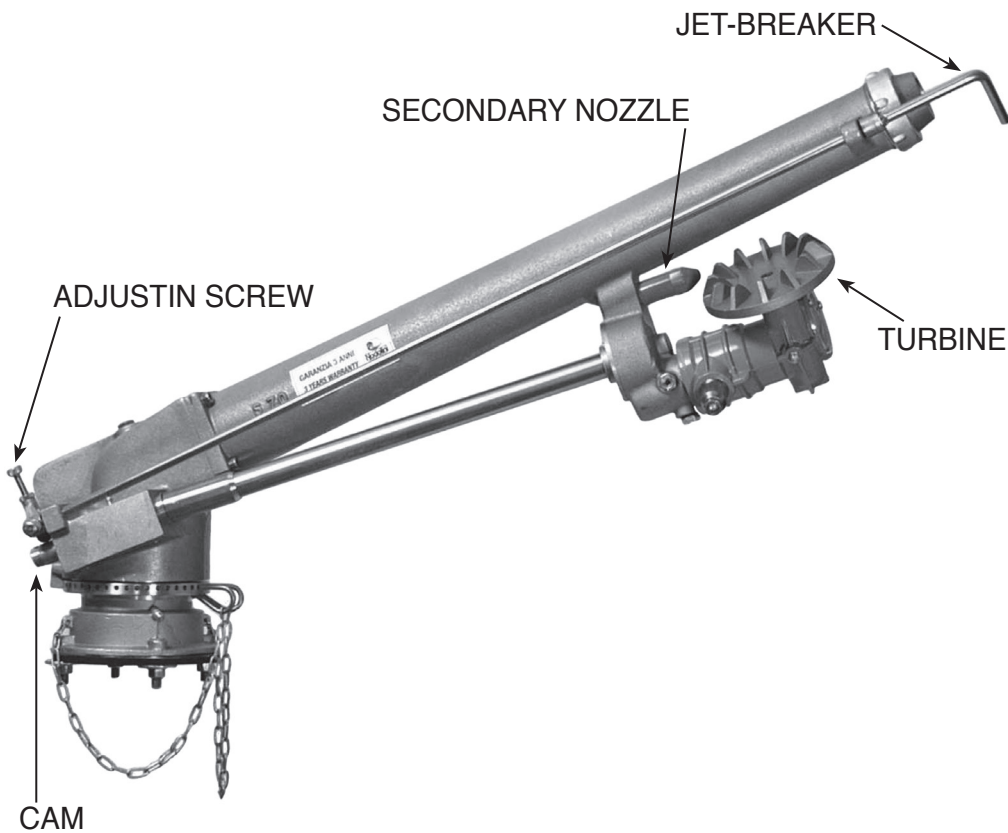


La Nodolini Sprinklers è orgogliosa di presentare la gamma completa dei suoi prodotti, frutto di una costante ricerca sviluppata in oltre quarant'anni di attività. Ciò ha permesso di unire alla solidità dei nostri irrigatori un altissimo rendimento e una straordinaria leggerezza. Siamo certi di una produzione che soddisfa in modo efficace le esigenze dell'agricoltura moderna.

*Nodolini Sprinklers is proud to present its complete range of products, fruit of continuous research developed through over 40 years of activity. This has allowed us to combine the solidity of our irrigator with high performance and extraordinary lightness. We are certain of a product which will effectively satisfy the needs of modern agriculture.*







VANTAGGI DELL'IRRIGATORE A TURBINA

- Tutte le parti meccaniche sono interne e protette.
- Il tubo di lancio conico garantisce maggiori prestazioni.
- Privo di freno, causa di problemi nel tempo, lavora perfettamente anche su terreni in forte pendenza ed anche con alte pressioni (15 Atm – 220 psi)
- Funziona con un angolo minimo di 4 gradi.
- Il rompigitto dinamico ad interferenza regolabile, assicura una corretta uniformità di pioggia in tutte le situazioni, anche con basse pressioni dove gli altri irrigatori normalmente hanno abbondanza di acqua negli ultimi metri della gittata e poca nei primi.

ADVANTAGES OF THE TURBINE SPRINKLER

- All mechanical parts are internal and protected.
- The conical barrel provides greater performance.
- Without brake, which causes problems over the time, it works perfectly even on steep slopes and at high pressures (15 Atm - 220 psi)
- It works with a minimum angle of 4 degrees.
- The dynamic jet-breaker with adjustable interference, ensures a correct rain uniformity in all situations, even at low pressures where the other sprinklers normally have plenty of water over the last few meters of the throw and little in the first ones.

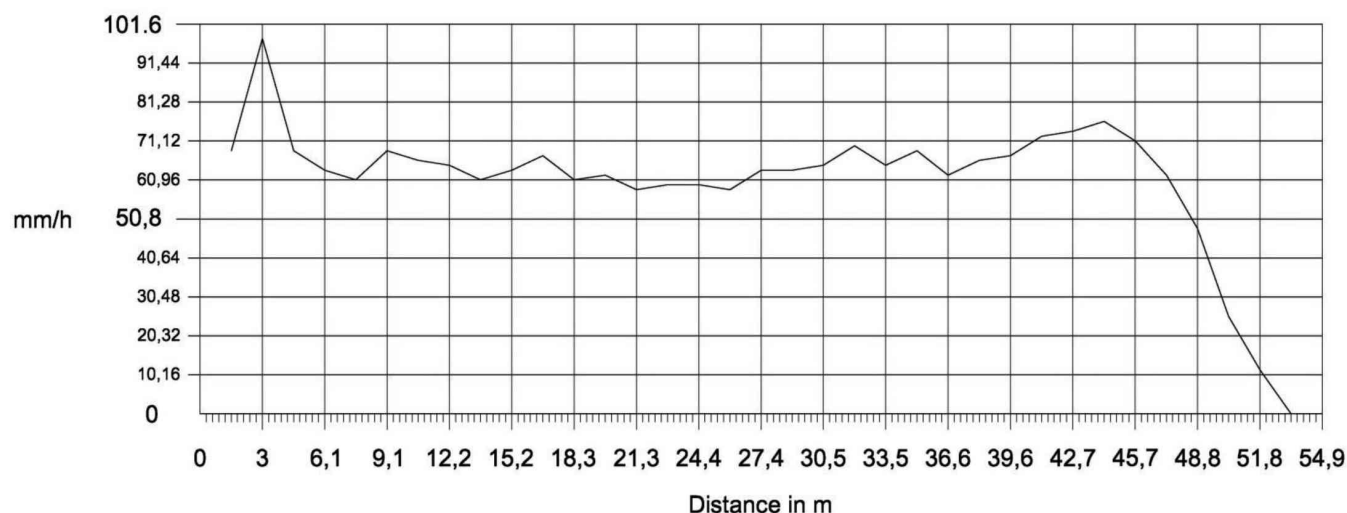
Qui sotto il nostro modello S60 E / S60 con un bocaglio diametro 24 mm e con una pressione di 6 Atm (88,2 psi) sull'irrigatore. In questa situazione abbiamo ottimizzato l'uniformita' di bagnatura con un'interferenza del rompigetto di 3,5 mm.

*Below is our model S60 E / S60 with a 24-mm-diameter nozzle and a sprinkler pressure of 6 Atm (88.2 psi). In this situation we have optimized the watering uniformity with a jet-breaker interference of 3.5 mm.*

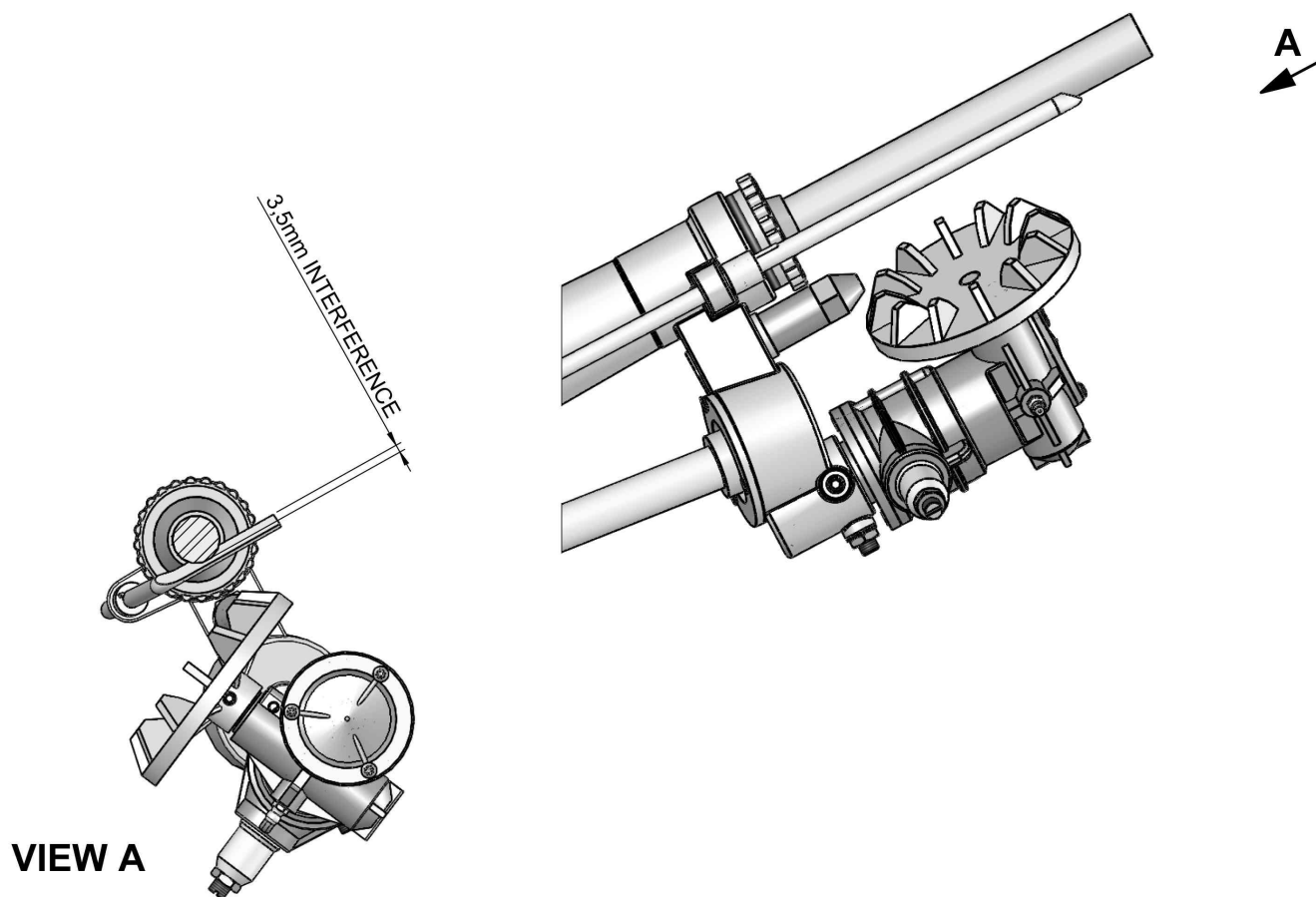
## Water distribution diagram with S.I. (International System) measurement units drawn up at the Center for Irrigation Technology (C.I.T. Fresno)

Sprinkler Name	<b>Nodolini</b>			
Sprinkler Model	<b>S60</b>			
Date/Time of Test	<b>12/17/2013 10:55</b>			
Nozzle Size	24 mm	<b>0,945 in</b>		
Flow Rate	0.01495 m <sup>3</sup> /s	<b>53,83 m<sup>3</sup>/h</b>	<b>897.14 l/min</b>	<b>237 gpm</b>
Base Pressure	0,608 MPa	<b>6,08 bar</b>	<b>6 atm</b>	<b>88,2 psi</b>
Riser Height	0,61 m	<b>24 in</b>		
Set Screw Setting	3,5 mm	<b>0,138 in</b>		
Degree of Arc	0,698 rad	<b>40°</b>		

Sprinkler Radius of Throw per ASAE Standard S398.1: 52,1 m



1,5 = 68,58	15,2 = 63,50	29 = 63,50	42,7 = 73,66
3 = 97,79	16,8 = 67,31	30,5 = 64,77	44,2 = 76,20
4,6 = 68,58	18,3 = 60,96	32 = 69,85	45,7 = 71,12
6,1 = 63,50	19,8 = 62,23	33,5 = 64,77	47,2 = 62,23
7,6 = 60,96	21,3 = 58,42	35 = 68,58	48,8 = 48,26
9,1 = 68,58	22,9 = 59,69	36,6 = 62,23	50,3 = 25,40
10,7 = 66,04	24,4 = 59,69	38,1 = 66,04	51,8 = 11,43
12,2 = 64,77	25,9 = 58,42	39,6 = 67,31	
13,7 = 60,96	27,4 = 63,50	41,1 = 72,39	



### Christiansen Uniformity Coefficient ( $C_u$ )

$$C_u = 100 \cdot \left( 1 - \frac{\sum_{i=1}^n |h_i - h_m|}{n \cdot h_m} \right)$$

$$C_u = 100 \cdot \left( 1 - \frac{225,64}{34 \cdot 62,98} \right) = 88\%$$

Christiansen Uniformity Value ( $C_u$ )	
> 87%	= excellent
> 83%	= very good
> 79%	= good
> 75%	= satisfactory
> 70%	= poor

### Distribution Uniformity Coefficient ( $D_u$ )

$$D_u = 100 \cdot \left( \frac{h_{lq}}{h_m} \right)$$

$$D_u = 100 \cdot \left( \frac{53,53}{62,98} \right) = 85\%$$

Distribution Uniformity Value ( $D_u$ )	
> 85%	= excellent
> 80%	= very good
> 75%	= good
> 70%	= satisfactory
> 65%	= poor

# S45

A MEDIA GITTATA

Connessione filetto femmina

1" 1/2 BSP

2" BSP

1" 1/2 NPT

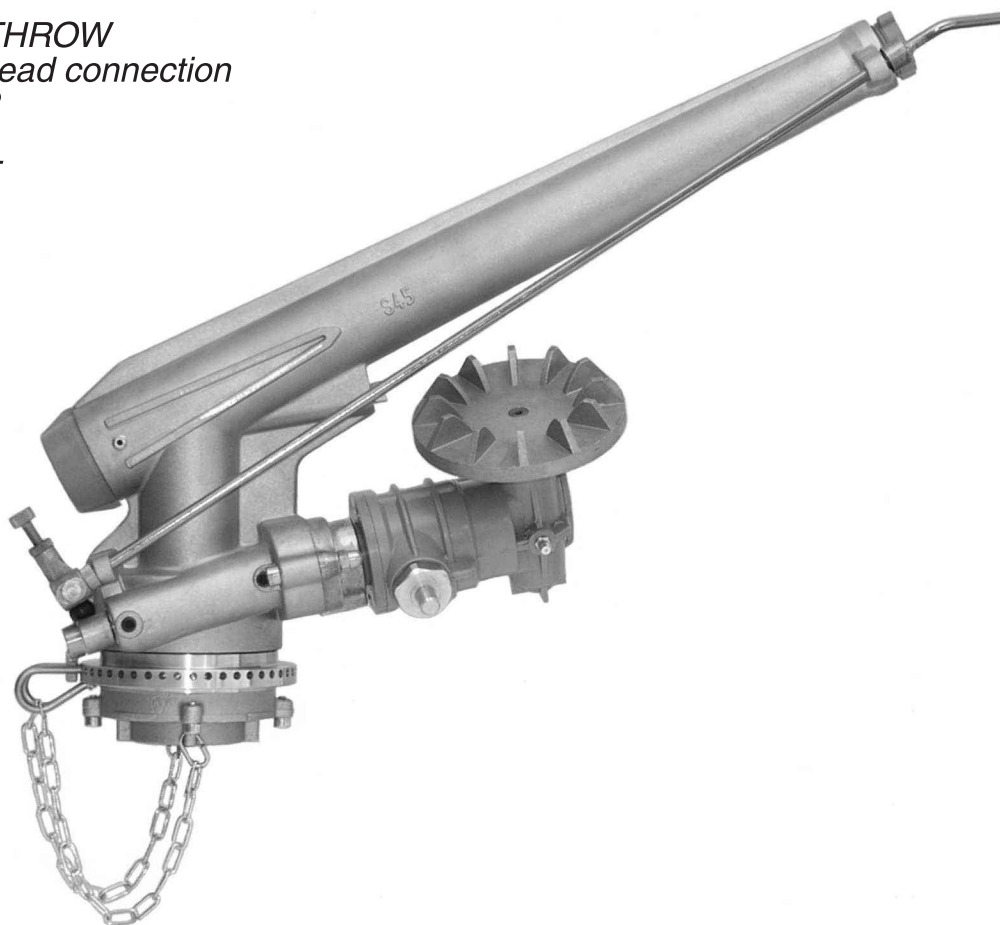
*MEDIUM THROW*

*Female thread connection*

*1" 1/2 BSP*

*2" BSP*

*1" 1/2 NPT*



Boccaglio Nozzle Ø mm	Pressione Pressure atm.	Portata Discharge l/min	Gittata Length of jet m
10	1,5 - 2,0 - 2,5	80 - 93 - 104	18 - 22 - 24
12	2,0 - 3,0 - 4,0	134 - 164 - 190	24 - 29 - 31
14	2,0 - 3,0 - 4,0	183 - 224 - 258	26 - 32 - 34
16	3,0 - 4,0 - 5,0	292 - 337 - 377	33 - 37 - 39
18	3,0 - 4,0 - 5,0	370 - 427 - 477	34 - 37 - 42
20	3,0 - 4,0 - 5,0	456 - 527 - 590	36 - 41 - 46
22	4,0 - 5,0 - 6,0	638 - 713 - 780	42 - 47 - 49
24	4,0 - 5,0 - 6,0	730 - 817 - 895	43 - 48 - 52

I dati tecnici sono orientativi e non impegnativi

*The technical characteristics are indicative and not binding*



# S60 E FULL CIRCLE S60 E PART CIRCLE

A LUNGA GITTATA

Attacco a flangia Nodolini

Connessione filetto femmina

2" BSP

2" 1/2 BSP

2" NPT

*LONG THROW*

*Nodolini flange connection*

*Female thread connection*

2" BSP

2" 1/2 BSP

2" NPT



Disponibile anche senza rompigitto.

*Available also without jet-breaker.*

Boccaglio Nozzle Ø mm	Pressione Pressure atm.	Portata Discharge l/min	Gittata Length of jet m
16	3,0 - 3,5 - 4,0	281 - 304 - 324	33 - 35 - 38
18	3,5 - 4,0 - 4,5	384 - 411 - 436	37 - 40 - 42
20	4,0 - 4,5 - 5,0	506 - 537 - 566	41 - 43 - 45
22	4,0 - 4,5 - 5,0	612 - 649 - 684	43 - 45 - 47
24	4,0 - 4,5 - 5,0	729 - 774 - 816	45 - 47 - 49
26	4,5 - 5,0 - 5,5	908 - 957 - 1004	47 - 49 - 51
28	4,5 - 5,0 - 5,5	1053 - 1110 - 1164	50 - 52 - 54
30	5,0 - 5,5 - 6,0	1273 - 1335 - 1394	53 - 55 - 57

I dati tecnici sono orientativi e non impegnativi

*The technical characteristics are indicative and not binding*

# S60

A LUNGA GITTATA

Attacco a flangia Nodolini

Connessione filetto femmina

2" BSP

2" 1/2 BSP

2" NPT

*LONG THROW*

*Nodolini flange connection*

*Female thread connection*

2" BSP

2" 1/2 BSP

2" NPT



Boccaglio Nozzle Ø mm	Pressione Pressure atm.	Portata Discharge l/min	Gittata Length of jet m
20	4,0 - 4,5 - 5,0	506 - 537 - 566	41 - 43 - 45
22	4,0 - 4,5 - 5,0	612 - 649 - 684	43 - 45 - 47
24	4,0 - 4,5 - 5,0	729 - 774 - 816	45 - 47 - 49
26	4,5 - 5,0 - 5,5	980 - 957 - 1004	47 - 49 - 51
28	4,5 - 5,0 - 5,5	1053 - 1110 - 1164	50 - 52 - 54
30	5,0 - 5,5 - 6,0	1273 - 1335 - 1394	53 - 55 - 57

I dati tecnici sono orientativi e non impegnativi

*The technical characteristics are indicative and not binding*

# S70

A LUNGA GITTATA

Attacco a flangia Nodolini

Connessione filetto femmina

2" 1/2 BSP

*LONG THROW*

*Nodolini flange connection*

*Female thread connection*

*2" 1/2 BSP*



Irrigatore a turbina a lunga gittata studiato per ottenere il massimo rendimento con impianti di media potenza.

*Long range turbine sprinkler designed to obtain maximum output with medium power systems.*

Boccaglio Nozzle Ø mm	Pressione Pressure atm.	Portata Discharge l/min	Gittata Length of jet m
24	4,0 - 5,0 - 6,0	729 - 815 - 893	45 - 52 - 55
26	4,0 - 5,0 - 6,0	856 - 957 - 1048	47 - 53 - 57
28	4,0 - 5,0 - 6,0	992 - 1109 - 1215	49 - 54 - 59
30	5,0 - 6,0 - 7,0	1272 - 1393 - 1505	55 - 61 - 63
32	5,0 - 6,0 - 7,0	1449 - 1587 - 1714	57 - 63 - 66
34	6,0 - 7,0 - 8,0	1792 - 1935 - 2069	64 - 67 - 69
36	6,0 - 7,0 - 8,0	2009 - 2170 - 2320	65 - 69 - 71
38	7,0 - 8,0 - 9,0	2418 - 2585 - 2742	71 - 73 - 75

I dati tecnici sono orientativi e non impegnativi

*The technical characteristics are indicative and not binding*

# S70 SUPER

A LUNGA GITTATA

Attacco a grande flangia (Euroflangia)

LONG THROW

Big flange connection (Euroflange)



Irrigatore a turbina a lunga gittata studiato per ottenere il massimo rendimento con impianti di media potenza.

*Long range turbine sprinkler designed to obtain maximum output with medium power systems.*

Boccaglio Nozzle Ø mm	Pressione Pressure atm.	Portata Discharge l/min	Gittata Length of jet m
24	4,0 - 5,0 - 6,0	729 - 815 - 893	45 - 53 - 56
26	4,0 - 5,0 - 6,0	856 - 957 - 1048	48 - 54 - 58
28	4,0 - 5,0 - 6,0	992 - 1109 - 1215	50 - 55 - 60
30	5,0 - 6,0 - 7,0	1272 - 1393 - 1505	56 - 62 - 64
32	5,0 - 6,0 - 7,0	1449 - 1587 - 1714	57 - 65 - 67
34	6,0 - 7,0 - 8,0	1792 - 1935 - 2069	65 - 69 - 70
36	6,0 - 7,0 - 8,0	2009 - 2170 - 2320	66 - 71 - 72
38	7,0 - 8,0 - 9,0	2418 - 2585 - 2742	72 - 74 - 76

I dati tecnici sono orientativi e non impegnativi

*The technical characteristics are indicative and not binding*



# S80

A LUNGA GITTATA

Attacco a flangia Nodolini

Attacco a flangia DN100 PN16 EN1092-1

*LONG THROW*

*Nodolini flange connection*

*DN100 PN16 EN1092-1 flange connection*



Boccaglio Nozzle Ø mm	Pressione Pressure atm.	Portata Discharge l/min	Gittata Lenght of jet m
26	4,5 - 5,0 - 5,5	908 - 957 - 1004	49 - 52 - 53
28	4,5 - 5,0 - 5,5	1053 - 1110 - 1164	51 - 54 - 56
30	5,0 - 5,5 - 6,0	1273 - 1335 - 1394	55 - 57 - 60
32	5,5 - 6,0 - 6,5	1520 - 1587 - 1652	59 - 62 - 65
34	6,0 - 6,5 - 7,0	1792 - 1865 - 1935	63 - 66 - 68
36	6,0 - 7,0 - 8,0	2008 - 2169 - 2319	65 - 70 - 75
38	7,0 - 8,0 - 9,0	2418 - 2585 - 2742	73 - 76 - 79

I dati tecnici sono orientativi e non impegnativi

*The technical characteristics are indicative and not binding*

# S80 SUPER

A LUNGHISSIMA GITTATA

Attacco a flangia Nodolini

Attacco a flangia DN100 PN16 EN1092-1

*VERY LONG THROW*

*Nodolini flange connection*

*DN100 PN16 EN1092-1 flange connection*



Boccaglio Nozzle Ø mm	Pressione Pressure atm.	Portata Discharge l/min	Gittata Length of jet m
30	5,0 - 5,5 - 6,0	1273 - 1335 - 1394	56 - 60 - 62
32	6,0 - 6,5 - 7,0	1587 - 1652 - 1714	61 - 65 - 68
34	6,0 - 6,5 - 7,0	1792 - 1865 - 1935	63 - 66 - 70
36	7,0 - 8,0 - 9,0	2169 - 2319 - 2460	71 - 74 - 80
38	7,0 - 8,0 - 9,0	2418 - 2585 - 2742	73 - 78 - 83
40	8,0 - 9,0 - 10,0	2864 - 3038 - 3203	81 - 86 - 90
42	8,0 - 9,0 - 10,0	3120 - 3310 - 3490	83 - 89 - 93
44	9,0 - 10,0 - 11,0	3630 - 3830 - 4050	92 - 95 - 99

I dati tecnici sono orientativi e non impegnativi

*The technical characteristics are indicative and not binding*

# JET 100 PLUS A.P.

A LUNGHISSIMA GITTATA  
Attacco a flangia Nodolini

*VERY LONG THROW*  
*Nodolini flange connection*



Irrigatore di grande portata per alte pressioni da applicare fisso su gruppi di grande potenza.  
Attacco a flangia Nr. 4 prigionieri M10 su diametro 166 mm.

*High powered sprinkler for high pressure to be mounted on high powered units.  
Flange connector No. 4 clams M10 on diameter 166 mm.*

Boccaglio Nozzle Ø mm	Pressione Pressure atm.	Portata Discharge l/min	Gittata Length of jet m
34	6,0 - 6,5 - 7,0	1704 - 1840 - 1907	69 - 70 - 73
36	7,0 - 8,0 - 9,0	2141 - 2289 - 2428	75 - 80 - 83
38	7,0 - 8,0 - 9,0	2390 - 2555 - 2710	76 - 81 - 85
40	8,0 - 9,0 - 10,0	2834 - 3006 - 3171	83 - 88 - 91
42	10,0 - 10,5 - 11,0	3498 - 3586 - 3665	95 - 98 - 101
44	10,5 - 11,0 - 11,5	3939 - 4034 - 4118	100 - 103 - 105
46	10,5 - 11,0 - 11,5	4350 - 4430 - 4550	101 - 105 - 106

I dati tecnici sono orientativi e non impegnativi  
*The technical characteristics are indicative and not binding*



**Nodolini**  
SPRINKLERS

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