

*Creating a Green World*

**AQua**

Impact Sprinklers  
& Accessories



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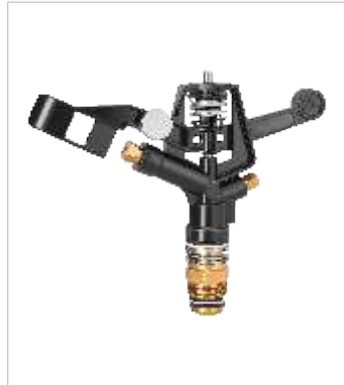
# New Products Overview



Aquaturf Pop-up  
Impact Sprinklers



Sprinkler Saddle  
With Stabilizer



Model 20 (Hybrid)



AQ - 20AFLA

## Sprinkler irrigation Engineering Formulas

### Unit Conversions:

1 inch (in)	25.4mm	1 bar	100kpa	1 gal/min (US)	3.786 lit/min
1 metre (m)	3.28 feet (ft)	1 bar	10 metres	1 m <sup>3</sup> /hr	16.67 lit/min
1 metre (m)	100 cm	1 bar	14.5 psi	1 m <sup>3</sup> /hr	1000 lit /hr
1 metre (m)	39.37 inch	1 kg/cm <sup>2</sup>	14.22 psi	1 m <sup>3</sup> /hr	16.67 lit/min
1 metre (m)	1000 mm	1 kg/cm <sup>2</sup>	0.981 bar	1 gal/min (US)	227.13 lit /hr

### Precipitation Rate

$$\text{Precipitation Rate (in/hr)} = \frac{96.3 Q}{S_p S_l}$$

Q = Sprinkler flow (gpm)  
S<sub>p</sub> = Sprinkler spacing (ft)  
S<sub>l</sub> = Lateral spacing (ft)

### Nozzle Discharge

$$\text{Discharge (gpm)} = 29.82 \sqrt{P} D^2 C_d$$

P = Nozzle pressure (psi)  
D = Nozzle orifice diameter (in.)  
C<sub>d</sub> = Nozzle discharge coefficient  
(tapered  $\cong$  .96 to .98)

### Coefficient of Distribution Uniformity: (Christiansen Formula)

$$\text{CDU}(\%) = [1 - ? |H_m - H_i| / n \times H_m]$$

#### Where,

H<sub>m</sub> = Arithmetic average of readings.  
H<sub>i</sub> = Individual reading at each collector.  
n = number of readings  
|H<sub>m</sub> - H<sub>i</sub>| = Sum of absolute values of  
the individual deviations from the average.

### Distribution Uniformity (DU)

Most Practical Measurement

$$\text{LQDU} = \frac{\text{Average of lowest quartile readings}}{\text{Average of total readings.}} \times 100\%$$

### Equivalent Nozzle Diameter: d>10mm

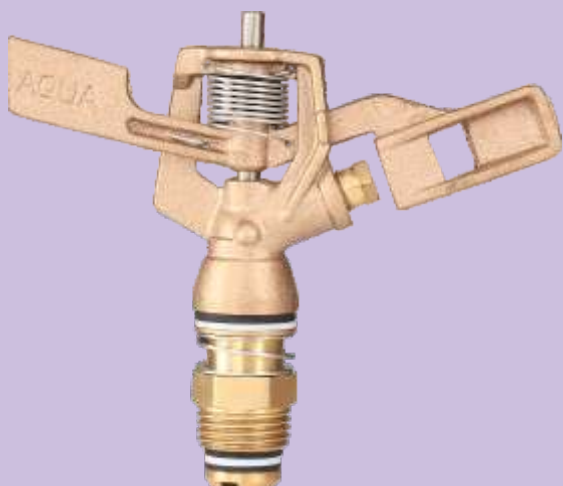
$$d = 2 \sqrt{\frac{q}{\pi c \sqrt{0.2gp}}} \times \frac{1000}{60}$$

#### Where,

Q = flowrate in cu-m per hr of the  
sprinkler with nozzle.  
c = Flow coefficient of the nozzle (c = 0.9  
for the purpose of calculating the  
equivalent nozzle diameter)  
g = Acceleration due to gravity (9.81m/s<sup>2</sup>)  
p = test pressure, in kilopascals.

# AQ-5N23

## Overhead Sprinklers



### Features

- Available in 1/2" BSP/NPT Male threaded
- Nozzle size above 3.17mm with stream straightening vane for long range.
- Durable Bronze body and arm.
- Heavy duty brass Nut and tube.
- Pivot pin and Springs made of Stainless steel.
- Model 5N23SP available with nozzle size 1.98mm or 5/64"
- Recommended Pressure 2 - 4.5 kg/cm<sup>2</sup> or 30 -65Psi
- Recommended spacing up to 10m for higher distribution uniformity.
- Trajectory Angle: 23°

### Application

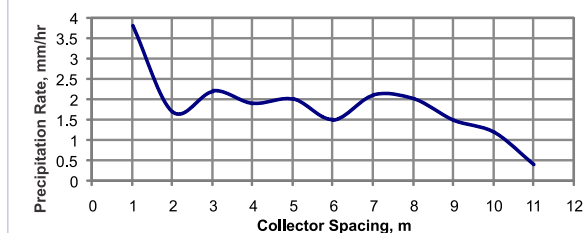
- All row crops irrigation by overhead irrigation on solid set systems - portable or permanent.
- Agriculture fields or landscape application and centre pivots.

### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
2.38	3/32"	2	28.44	20	65.6	5.4	1.43
		2.5	35.55	20.5	67.24	5.95	1.57
		3	42.66	21	68.88	6.5	1.72
		3.5	49.77	21.5	70.52	6.9	1.82
		4	56.88	22	72.16	7.4	1.95
2.77	7/64"	2	28.44	20.5	67.24	7.5	1.98
		2.5	35.55	20.5	67.24	8.35	2.21
		3	42.66	21	68.88	8.95	2.36
		3.5	49.77	22	72.16	9.9	2.61
		4	56.88	23	75.44	10.35	2.73
3.17	1/8"	2	28.44	21	68.88	9.58	2.53
		2.5	35.55	22	72.16	10.8	2.85
		3	42.66	22.5	73.8	11.6	3.06
		3.5	49.77	23	75.44	12.8	3.38
		4	56.88	24	78.72	13.4	3.54
3.57	9/64"	2	28.44	22	72.16	11.8	3.12
		2.5	35.55	22	72.16	13.2	3.49
		3	42.66	22.5	73.8	14.45	3.82
		3.5	49.77	23	75.44	15.55	4.11
		4	56.88	23	75.44	16.7	4.41
4.5	63.99	24	78.72	17.25	4.56		

Nozzle Size: 3.17mm Pressure: 3.0kg/cm<sup>2</sup>

### Distribution Curve



Spacing	CU%	DU%	SC(5%)	APR
R8 x 8	90%	82%	1.4	10
R9 x 9	94%	93%	1.1	7.9
R10 x 10	90%	85%	1.2	6.4



\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.  
 \*\*On higher pressure ( above 3 Kg/cm<sup>2</sup>) stream straightener is recommended for all the nozzles.

# AQ-5N23W

## Overhead Sprinklers



### Features

- Available in 1/2" BSP/NPT Male threaded
- Nozzle size above 3.17mm with stream straightening vane for long range.
- Durable Bronze body and arm
- Heavy duty brass Nut and tube
- Energy saving with plastic wedge drive spool.
- Excellent water distribution at low pressure.
- Pivot pin and Springs made of Stainless steel.
- Recommended Pressure 1.5 - 4.0 kg/cm<sup>2</sup> or 20 -60Psi
- Recommended spacing up to 10m for higher distribution uniformity.
- Trajectory Angle: 23°

### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
1.98	5/64"	1.5	21.33	18.3	60.02	3.32	0.88
		2	28.44	18.8	61.66	3.74	0.99
		2.5	35.55	19.6	64.29	3.98	1.05
		3	42.66	20	65.60	4.38	1.16
		3.5	49.77	20.2	66.26	4.64	1.23
2.38	3/32"	4	56.88	20.2	66.26	4.96	1.31
		1.5	21.33	20	65.60	5.04	1.33
		2	28.44	20.6	67.57	5.4	1.43
		2.5	35.55	20.6	67.57	5.95	1.57
		3	42.66	21	68.88	6.5	1.72
2.77	7/64"	3.5	49.77	21	68.88	6.69	1.77
		4	56.88	21.2	69.54	7.4	1.95
		1.5	21.33	20.8	68.22	6.74	1.78
		2	28.44	21	68.88	7.5	1.98
		2.5	35.55	21	68.88	8.35	2.21
3.17	1/8"	3	42.66	21.6	70.85	8.95	2.36
		3.5	49.77	21.8	71.50	9.9	2.61
		4	56.88	22.2	72.82	10.35	2.73
		1.5	21.33	21.2	69.54	8.58	2.27
		2	28.44	21.2	69.54	9.58	2.53
		2.5	35.55	21.2	69.54	10.8	2.85
		3	42.66	21.8	71.50	11.6	3.06
		3.5	49.77	22	72.16	12.8	3.38
		4	56.88	22.6	74.13	13.4	3.54

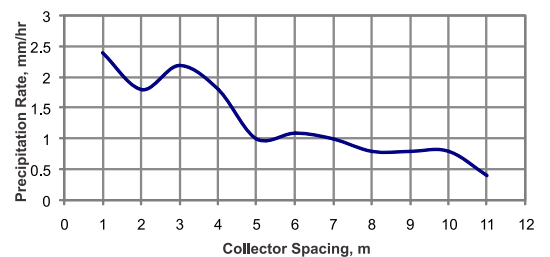
\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

### Application

- All crops irrigation compatible by overhead irrigation on solid set systems.
- Low volume, fast rotation at low pressure for irrigation of row crops.
- Smaller nozzles allow low flow & frost protection in wine and overtree.

Nozzle Size: 2.38mm Pressure: 3.0kg/cm<sup>2</sup>

#### Distribution Curve



Spacing	CU%	DU%	SC(5%)	APR
R8 x 8	90%	80%	1.4	6.1
R9 x 9	89%	83%	1.2	4.9
R10 x 10	92%	89%	1.2	3.9

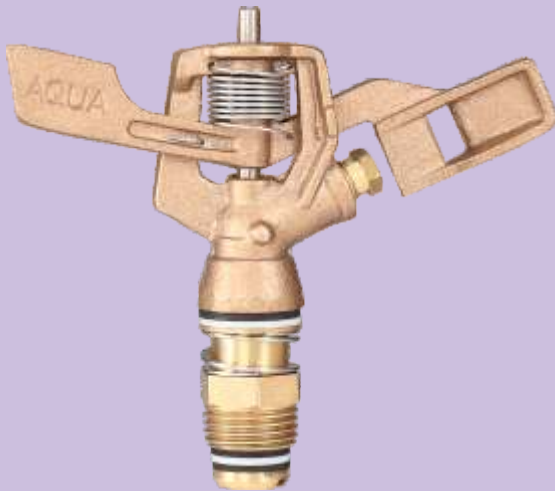


E-mail: [contactus@automatworld.com](mailto:contactus@automatworld.com)  
 Website: [www.automatworld.com](http://www.automatworld.com)

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# AQ-5N25

## Overhead Sprinklers



### Features

- Available in ½" BSP/NPT Male threaded
- Nozzle size above 3.17mm with stream straightening vane for long range.
- Durable Bronze body and arm.
- Heavy duty brass Nut and tube.
- Pivot pin and Springs made of Stainless steel.
- Recommended Pressure 2.0 - 4.5 kg/cm<sup>2</sup> or 30 - 65Psi
- Recommended spacing up to 12m for higher distribution uniformity.
- Trajectory Angle: 25°

### Application

- All row crops irrigation irrigated by overhead irrigation on solid set systems - portable or permanent.
- Agriculture fields or landscape application and center pivots.

### Performance Table

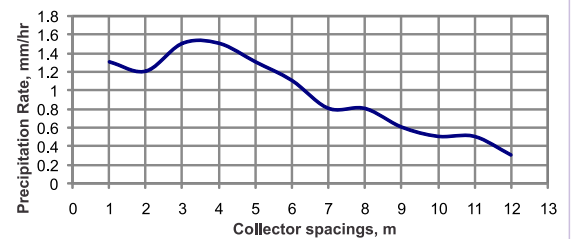
Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
2.38	3/32"	2	28.44	20.5	67.24	5.4	1.43
		2.5	35.55	21	68.88	5.95	1.57
		3	42.66	22	72.16	6.5	1.72
		3.5	49.77	23	75.44	6.9	1.82
		4	56.88	24.5	80.36	7.4	1.95
2.77	7/64"	2	28.44	21	68.88	7.5	1.98
		2.5	35.55	21.5	70.52	8.35	2.21
		3	42.66	22.5	73.8	8.95	2.36
		3.5	49.77	23.5	77.08	9.9	2.61
		4	56.88	24	78.72	10.35	2.73
3.17	1/8"	2	28.44	21	68.88	9.58	2.53
		2.5	35.55	22.5	73.8	10.8	2.85
		3	42.66	23	75.44	11.6	3.06
		3.5	49.77	24	78.72	12.8	3.38
		4	56.88	25	82	13.4	3.54
3.57	9/64"	2	28.44	21.5	70.52	11.8	3.12
		2.5	35.55	22.5	73.8	13.2	3.49
		3	42.66	23	75.44	14.45	3.82
		3.5	49.77	24	78.72	15.55	4.11
		4	56.88	25	82	16.7	4.41
		4.5	63.99	25.5	83.64	17.25	4.56

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

\*\*On higher pressure ( above 3 Kg/cm2) stream straightener is recommended for all the nozzles.

Nozzle Size: 3.57mm Pressure: 3.5kg/cm<sup>2</sup>

### Distribution Curve



Spacing	CU%	DU%	SC(5%)	APR
R8 x 8	96%	93%	1.1	5.6
R9 x 9	94%	90%	1.1	4.4
10 x 10	95%	93%	1.1	3.6
R11 x 11	93%	88%	1.1	3
R12 x 12	91%	85%	1.2	2.5



# AQ-5DN (Kiwi)

## Overhead Sprinklers



### Features

- Available in 1/2" BSP/NPT Male threaded
- Nozzle size above 3.17mm with stream straightening vane for long range.
- Heavy duty brass body, arm, Nut, tube and nozzles.
- Pivot pin and Springs made of Stainless steel.
- Recommended Pressure 1.0 - 3.0 kg/cm<sup>2</sup> or 15 - 45Psi
- Recommended spacing up to 12m for higher distribution uniformity.
- Trajectory Angle: 25°

### Application

- All row crops irrigated by overhead irrigation on solid set systems - portable or permanent.
- Agriculture fields.

### Performance Table

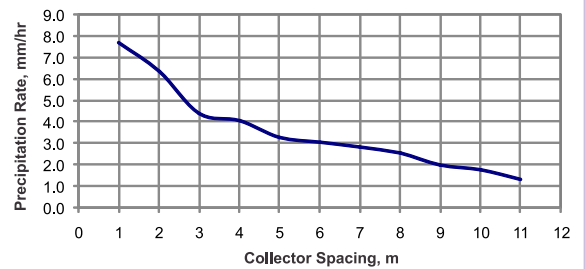
Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
3.17x2.5	5/64"	1	14.22	19	62.32	11.5	3.04
		1.5	21.33	20	65.6	14	3.7
		2	28.44	21	68.88	16	4.23
		2.5	35.55	21.5	70.52	18.2	4.81
3.57x2.5	3/32"	1	14.22	20	65.6	12.5	3.3
		1.5	21.33	21.5	70.52	15.2	4.01
		2	28.44	22	72.16	17.4	4.6
		2.5	35.55	23.5	77.08	20	5.28
3.96x2.5	7/64"	1	14.22	21	68.88	15	3.96
		1.5	21.33	22.5	73.8	18.2	4.81
		2	28.44	24	78.72	20.7	5.47
		2.5	35.55	24.4	80.032	23.5	6.21
		3	42.66	25	82	25.8	6.81

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Spacing (m)	CU (%)	DU (%)	SC (5%)	APR
9 x 9	90%	88%	1.1	12.9
10 x 10	92%	87%	1.2	10.4
11 x 11	88%	81%	1.3	8.6
12 x 12	88%	83%	1.2	7.3

Nozzle Size: 3.57x2.5mm Pressure: 2.0kg/cm<sup>2</sup>

### Distribution Curve



3/4" Female Connector also Available



# AQ-15

## Overhead Sprinklers



### Features

- Available in ½" or ¾" BSP/NPT Female threaded
- Durable Zamac Pressure Die Casted Body & Arm.
- Heavy duty Brass Nut, Tube and nozzles.
- Plastic parts made of engineering plastic for durability.
- Stainless Steel Pivot Pin and springs
- Recommended Pressure 1.0 - 3.0 kg/cm<sup>2</sup> or 15 - 45Psi
- Recommended spacing up to 12m for higher distribution uniformity.
- Trajectory Angle: 30°

### Application

- All row crops irrigation compatible by overhead irrigation on Solid sets - Portable and permanent systems.

### Performance Table

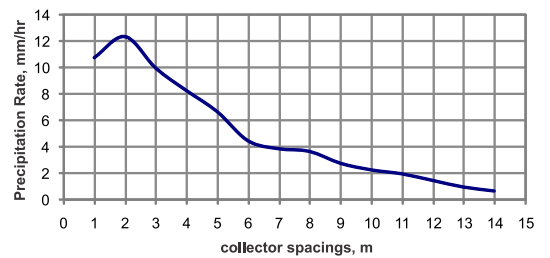
Nozzle (mm)	Pressure		Coverage Diameter		Discharge Rate	
	kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
4.0 x 2.5	1	14.22	18	59.04	13	3.43
	1.5	21.33	21	68.88	16.8	4.44
	2	28.44	24	78.72	19.7	5.20
	2.5	35.55	25	82.00	22.2	5.86
4.5 x 2.5	1	14.22	18	59.04	16.7	4.41
	1.5	21.33	22	72.16	20	5.28
	2	28.44	24	78.72	24.2	6.39
	2.5	35.55	25	82.00	26.7	7.05
4.5 x 3.0	1	14.22	18	59.04	17.5	4.62
	1.5	21.33	22	72.16	20.9	5.52
	2	28.44	24	78.72	25	6.60
	2.5	35.55	26	85.28	28.4	7.50
5.0 x 3.0	3	42.66	27	88.56	35.9	9.48
	2	28.44	25	82.00	29.2	7.71
	2.5	35.55	26	85.28	33.4	8.82
	3.5	49.77	28	91.84	38.4	10.14
	4	56.88	29	95.12	39.2	10.35

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Spacing (m)	CU%	DU%	SC(5%)	APR
9.0 x 9.0	94%	89%	1.3	26.37
10.0 x 10.0	91%	85%	1.3	19.7
11.0 x 11.0	90%	85%	1.2	16.3
12.0 x 12.0	90%	87%	1.1	13.7

Nozzle Size: 5.0 x 3.0mm Pressure: 3.0kg/cm<sup>2</sup>

### Distribution Curve



# AQ-23

## Overhead Sprinklers



### Features

- Available in 1/2" Male threaded & 3/4" Female Threaded
- Hot Chamber Pressure Die casted Zamac body & arm.
- Color coded nozzles for easy size identification.
- Nozzle Bayonet connection for easy service in field condtions.
- Nozzles with integrated stream straightening vane for long range.
- Pivot pin and Springs made of Stainless steel.
- Recommended Pressure 2.0 - 4.0 kg/cm<sup>2</sup> or 30 -55Psi
- Recommended spacing up to 12m for higher distribution uniformity.
- Trajectory Angle: 30°

### Application

- All row crops irrigation compatible by overhead irrigation on solid set systems - portable or permanent.
- Use for fruit farming, nurseries and vegetable farming.

### Performance Table

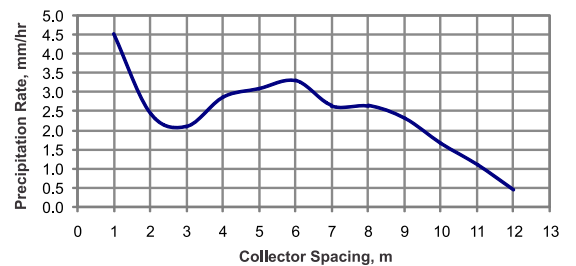
Nozzle (mm)	Pressure		Coverage Diameter		Discharge Rate	
	kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
2.9x1.8	2	28.44	21	68.88	10.08	2.66
	2.5	35.55	21.4	70.19	11.25	2.97
	3	42.66	21.8	71.50	12.33	3.26
	3.5	49.77	22	72.16	13.33	3.52
	4	56.88	22	72.16	14.17	3.74
3.2 x 1.8	2	28.44	21.8	71.50	11.94	3.15
	2.5	35.55	22.0	72.16	13.43	3.55
	3	42.66	22.4	73.47	14.78	3.90
	3.5	49.77	22.8	74.78	15.86	4.19
	4	56.88	23.2	76.10	17.13	4.53
3.5 x 2.4	2	28.44	22.0	72.16	16.67	4.40
	2.5	35.55	22.6	74.13	18.91	5.00
	3	42.66	23.0	75.44	20.83	5.50
	3.5	49.77	23.2	76.10	22.50	5.94
	4	56.88	23.6	77.41	24.17	6.38
4.0 x 2.4	2	28.44	22.4	73.47	19.08	5.04
	2.5	35.55	23.0	75.44	21.25	5.61
	3	42.66	23.4	76.75	23.58	6.23
	3.5	49.77	24.0	78.72	25.67	6.78
	4	56.88	24.4	80.03	27.50	7.26

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.



Nozzle Size: 3.5 x 2.4mm Pressure: 3.0kg/cm<sup>2</sup>

### Distribution Curve



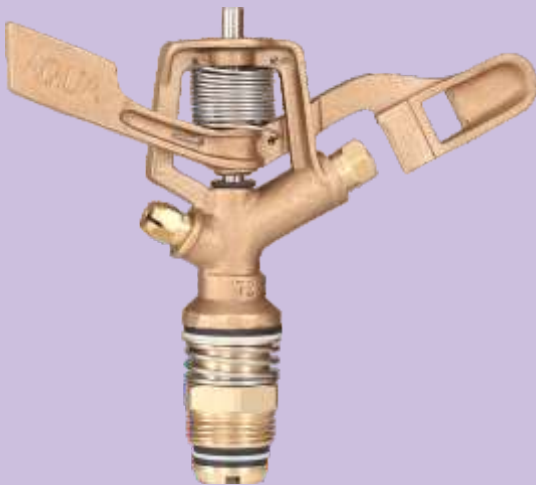
Spacing (m)	CU%	DU%	SC(5%)	APR
9 x 9	96%	94%	1.1	15.4
10 x 10	94%	91%	1.1	12.5
11 x 11	87%	84%	1.2	10.3
12 x 12	85%	81%	1.2	8.3





# AQ-20

## Overhead Sprinklers



### Features

- 3/4" BSP/NPT male threaded.
- Durable Bronze body and arm.
- Heavy duty Brass Nut & Tube.
- Stainless Steel Pivot Pin, Springs
- Bearing & Sealing washers are made of material for extending life.
- Recommended Pressure 2.0 - 5.0 kg/cm<sup>2</sup> or 30 - 70Psi
- Recommended spacing up to 15m for higher distribution uniformity.
- Trajectory Angle: 27°

### Application

- All crops irrigation compatible by overhead irrigation on Solid set, permanent set, hard lines, portable lines, wheel lines & mechanically moved system such as center pivot.
- Area where strong wind is prevalent, Nozzles with stream straightening vane.
- To special model: AQ-20CS (Bronze Body & arm)  
: AQ-20CSB (Brass Body & arm)  
are also available for pressure: 1.5-3.5kg/cm<sup>2</sup>

### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter				Discharge Rate	
				Without Vane		With Vane			
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	mtr.	ft.	LPM	GPM
3.57 x Plug	9/64" x Plug	2	28.44	20.6	67.57	21.2	69.54	11.8	3.12
		2.5	35.55	21.8	71.50	22	72.16	13.2	3.49
		3	42.66	23	75.44	23.6	77.41	14.45	3.82
		3.5	49.77	24.4	80.03	25.2	82.66	15.55	4.11
		4	56.88	25.6	83.97	26	85.28	16.7	4.41
		4.5	63.99	26.2	85.94	26.6	87.25	17.4	4.60
3.96 x 2.38	5/32" x 7/64"	2	28.44	21.2	69.54	22.8	74.78	18.6	4.91
		2.5	35.55	22.6	74.13	23.2	76.10	20.2	5.34
		3	42.66	24	78.72	24.6	80.69	22.4	5.92
4.36 x 3.17	11/64" x 1/8"	3.5	49.77	25.2	82.66	25.8	84.62	24.3	6.42
		4	56.88	26.4	86.59	27.4	89.87	26.5	7.00
		4.5	63.99	27	88.56	27.4	89.87	28.6	7.55
		5	71.1	27.8	91.18	28.2	92.50	30.8	8.14
		2	28.44	22.8	74.78	23.4	76.75	25.6	6.76
4.76 x 3.17	3/16" x 1/8"	2.5	35.55	26	85.28	26.6	87.25	28.8	7.61
		3	42.66	28	91.84	28.8	94.46	32.4	8.56
		3.5	49.77	29	95.12	29.6	97.09	34.3	9.06
		4	56.88	30.2	99.06	31	101.68	36.6	9.67
		4.5	63.99	31	101.68	31.4	102.99	39.2	10.35
		5	71.1	31.6	103.65	32.2	105.62	41.8	11.04
		2	28.44	24.2	79.38	25.2	82.66	28.8	7.61
		2.5	35.55	27.4	89.87	28.2	92.50	32.3	8.53
		3	42.66	30.4	99.71	31.2	102.34	36.3	9.59
		3.5	49.77	32.2	105.62	33.2	108.90	39.4	10.41
5.15 x 3.17	13/64" x 1/8"	4	56.88	33.8	110.86	34.6	113.49	42.2	11.15
		4.5	63.99	34.4	112.83	35	114.80	45.5	12.02
		5	71.1	35	114.80	35.4	116.11	47.8	12.63
		2	28.44	27.4	89.87	28.2	92.50	34.5	9.11
		2.5	35.55	28.6	93.81	29.4	96.43	37.2	9.83
3.17	1/8"	3	42.66	30.4	99.71	31.2	102.34	42.4	11.20
		3.5	49.77	32.2	105.62	33	108.24	44.9	11.86
		4	56.88	34.6	113.49	35.4	116.11	47.8	12.63
		4.5	63.99	35.4	116.11	36	118.08	49.8	13.15
		5	71.1	36	118.08	36.6	120.05	52.6	13.89

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.



This Model in light weight is available in Brass & Bronze

- AQ-20CSB
- AQ-20CS

Nozzle Size: 3.96x2.38 mm Pressure: 3.0kg/cm<sup>2</sup>

### Distribution Curve

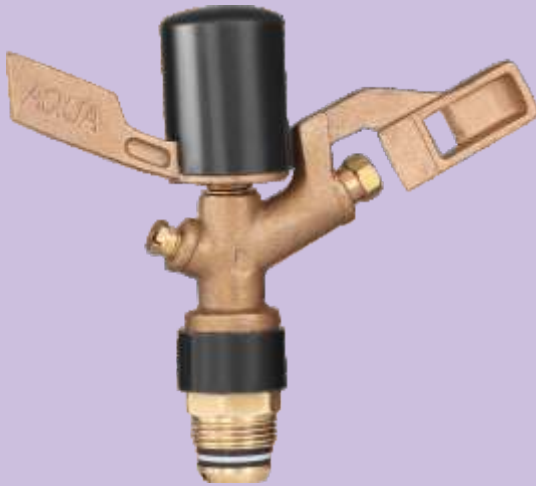


Nozzle Size: 4.36 x 3.17mm Pressure: 3.0kg/cm<sup>2</sup>

Spacing (m)	CU%	DU%	SC(5%)	APR
9.0 x 9.0	98%	98%	1	24
10.0 x 10.0	98%	96%	1.1	19.4
11.0 x 11.0	98%	96%	1.1	16.1
12.0 x 12.0	98%	96%	1	13.5
13.0 x 13.0	98%	96%	1.1	11.5
14.0 x 14.0	96%	94%	1.1	9.9
15.0 x 15.0	92%	87%	1.2	8.6

# AQ - 20AF

## Overhead Sprinkler



### Features

- 3/4" BSP/NPT male threaded.
- Durable Bronze body and arm.
- Heavy duty Brass Nut & Tube.
- Stainless Steel Pivot Pin, Springs.
- Bridge less body design for non accumulation of ice on sprinkler.
- Specially designed SS spring for fast rotation to prevent ice formation on leaves.
- Top and bottom springs protect by cap from ice accumulation.
- Top spring cap and bottom cap made of special material to sustain sub zero temp.
- Recommended Pressure 2.0 - 4.0 kg/cm<sup>2</sup> or 30 - 55Psi
- Recommended spacing up to 15m for higher distribution uniformity.
- Trajectory Angle: 27°

### Application

- All crops irrigation suitable by overhead irrigation under frost conditions in vineyards, orchards and vegetables on solid sets.

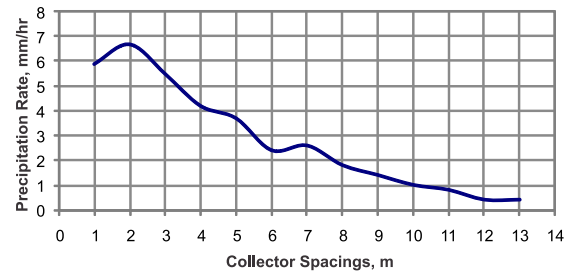
### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
3.96 x Plug	5/32" x Plug	2	28.44	21.2	69.54	13.8	3.65
		2.5	35.55	22.6	74.13	15.6	4.12
		3	42.66	24	78.72	17.4	4.6
		3.5	49.77	25.2	82.66	19.2	5.07
3.96 x 2.38	5/32" x 7/64"	4	56.88	26.4	86.59	20.1	5.31
		2	28.44	21.2	69.54	22.9	6.05
		2.5	35.55	22.6	74.13	24.9	6.58
		3	42.66	24	78.72	27.4	7.24
4.36 *3.17	11/64" x 1/8"	3.5	49.77	25.2	82.66	29.5	7.79
		4	56.88	26.4	86.59	31.7	8.37
		2	28.44	22.8	74.78	24.5	6.47
		2.5	35.55	26	85.28	27.4	7.24
4.76 *3.17	3/16" x 1/8"	3	42.66	28	91.84	29.6	7.82
		3.5	49.77	29	95.12	31.8	8.4
		4	56.88	30.2	99.06	24.2	6.39
		2	28.44	24.2	79.38	27.5	7.26
		2.5	35.55	27.4	89.87	30.6	8.08
		3	42.66	30.4	99.71	33.3	8.8
		3.5	49.77	32.2	105.62	35.9	9.48
		4	56.88	33.8	110.86	38.6	10.2

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 3.96 x 2.38mm Pressure: 4.0kg/cm<sup>2</sup>

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
10.0 x 10.0	94%	89%	1.3	19
11.0 x 11.0	91%	84%	1.3	15.7
12.0 x 12.0	93%	90%	1.2	13.2
13.0 x 13.0	95%	93%	1.1	11.3
14.0 x 14.0	93%	88%	1.2	9.7
15.0 x 15.0	89%	83%	1.3	8.5

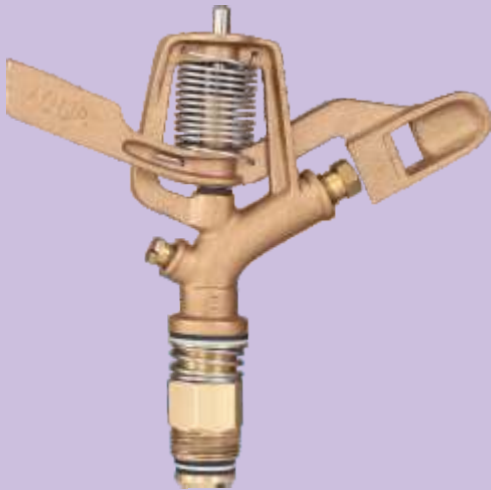


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# AQ - 25

## Overhead Sprinkler



### Features

- 3/4" BSP/NPT male threaded and 1" Female threaded
- Specially designed for large precipitation rate and spacing.
- Durable Bronze body and arm.
- Heavy duty Brass Nut & Tube.
- Stainless Steel Pivot Pin, Springs
- Recommended Pressure 2.0 - 5.0 kg/cm<sup>2</sup> or 30 - 70Psi
- Recommended spacing up to 18m for higher distribution uniformity.
- Trajectory Angle: 33°

### Application

- All crops irrigation compatible by overhead irrigation on Solid set, permanent set, hard lines, portable lines, wheel lines and
- Mechanically moved system such as center pivot.
- Area where strong wind is prevalent, Nozzles with intergal stream straightening vane.

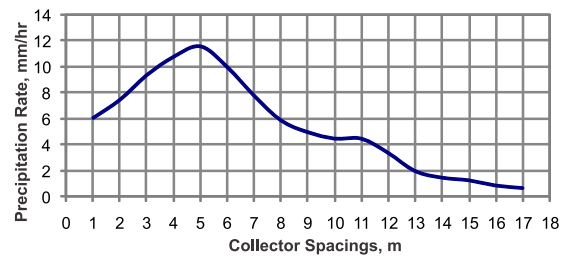
### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
5.55 *3.17	7/32" x 1/8"	2	28.44	28.2	92.5	37.3	9.85
		2.5	35.55	31	101.68	41.5	10.96
		3	42.66	33.4	109.55	45.5	12.02
		3.5	49.77	35	114.8	48.8	12.89
		4	56.88	36.2	118.74	52.4	13.84
		4.5	63.99	37	121.36	55.2	14.58
5.95 *3.17	15/64" x 1/8"	2	28.44	32.2	105.62	39.5	10.43
		2.5	35.55	33.8	110.86	45.2	11.94
		3	42.66	35.4	116.11	49.6	13.1
		3.5	49.77	36.4	119.39	53.6	14.16
		4	56.88	37	121.36	58.9	15.56
		4.5	63.99	37.6	123.33	61.8	16.32
6.35 *3.17	1/4" x 1/8"	2	28.44	33	108.24	44.2	11.67
		2.5	35.55	34.2	112.18	49.2	13
		3	42.66	35	114.8	54.6	14.42
		3.5	49.77	36	118.08	59.6	15.74
		4	56.88	37.4	122.67	64.3	16.98
		4.5	63.99	37.8	123.98	67.4	17.8
		5	71.1	38.4	125.95	71.2	18.81

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 5.55 x 3.17mm Pressure: 3.5kg/cm<sup>2</sup>

### Distribution Curve

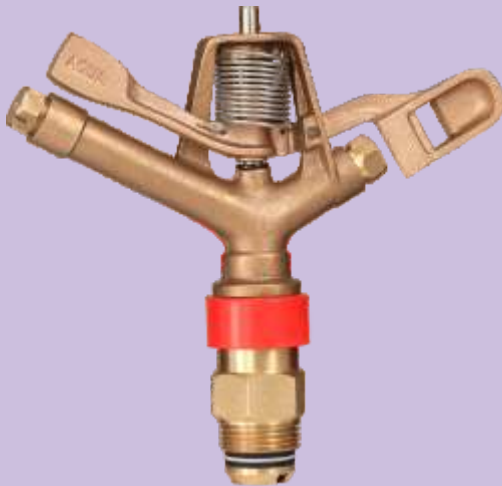


Spacing (m)	CU%	DU%	SC(5%)	APR
12.0 x 12.0	92%	87%	1.2	20.3
13.0 x 13.0	93%	87%	1.4	17.3
14.0 x 14.0	93%	86%	1.4	14.9
15.0 x 15.0	91%	84%	1.4	13
16.0 x 16.0	90%	84%	1.5	11.4
17.0 x 17.0	90%	85%	1.5	10.1
18.0 x 18.0	89%	83%	1.5	9



# AQ - 30

## Overhead Sprinkler



### Features

- Available in 1" BSP/NPT Female threaded
- Durable Bronze body and arm.
- Heavy duty Brass Nut, Tube and nozzles.
- Bottom Dust cap for avoiding sand deposition on bottom bearing.
- PU thurst pad for impact wear resistance.
- Stainless Steel Pivot Pin and springs.
- Recommended Pressure 2.5 - 5.0 kg/cm<sup>2</sup> or 35 - 70Psi
- Recommended spacing up to 21m for higher distribution uniformity.
- Trajectory Angle: 27°

### Application

- All crops irrigation compatible by overhead irrigation.

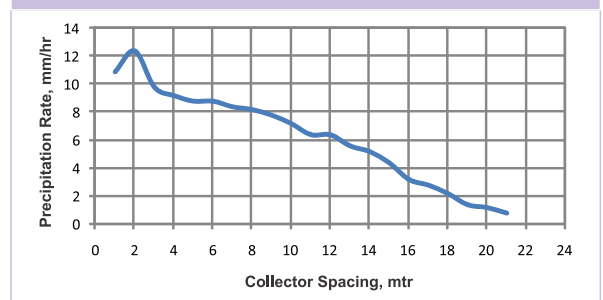
### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
6.35 x 4.76	1/4"	2.5	35.55	38.0	124.64	61.40	16.22
		3.0	42.66	40.0	131.20	66.10	17.46
	3.5	49.77	41.5	136.12	72.20	19.07	
	4.0	56.88	42.0	137.76	77.70	20.52	
	4.5	63.99	42.5	139.40	82.40	21.76	
7.14 x 5.55	9/32"	2.5	35.55	39.0	127.92	76.50	20.21
	x 7/32"	3.0	42.66	40.0	131.20	83.10	21.95
		3.5	49.77	41.5	136.12	88.60	23.40
		4.0	56.88	42.0	137.76	94.40	24.93
		4.5	63.99	43.0	141.04	101.80	26.89
7.94 x 5.55	5/16"	2.5	35.55	40.0	131.20	86.30	22.79
		3.0	42.66	40.5	132.84	93.40	24.67
	x 7/32"	3.5	49.77	41.5	136.12	100.60	26.57
		4.0	56.88	42.5	139.40	107.70	28.45
		4.5	63.99	43.5	142.68	113.80	30.06
8.73 x 5.55	11/32"	2.5	35.55	41.0	134.48	106.80	28.21
		3.0	42.66	42.0	137.76	117.60	31.06
	x 7/32"	3.5	49.77	43.0	141.04	127.20	33.60
		4.0	56.88	43.5	142.68	135.60	35.82
		4.5	63.99	44.0	144.32	144.10	38.06
		5.0	71.1	46.0	150.88	153.80	40.62

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 7.94 x 5.55mm Pressure: 4.0kg/cm<sup>2</sup>

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
R15 x 15	98%	97%	1	28.6
R18 x 18	94%	92%	1.1	19.8
R21 x 21	93%	90%	1.1	14.6



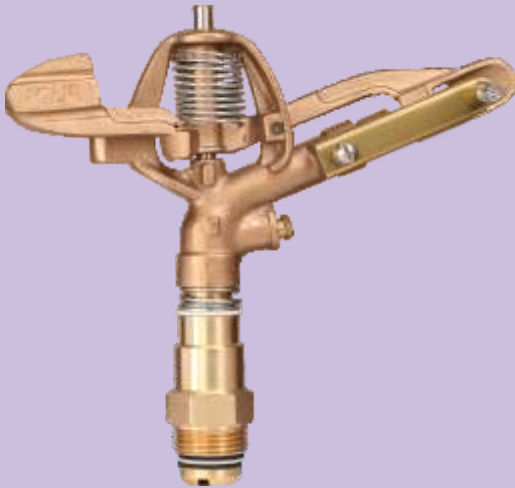
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# AQ - 30B

## Overhead Sprinkler



### Features

- Available in 1" BSP/NPT male threaded.
- Durable Bronze body and arm.
- Heavy duty Brass Nut, Tube and nozzles.
- Stainless Steel Pivot Pin and springs.
- PU thrust pad for impact wear resistance.
- Recommended Pressure 2.5 - 5.0 kg/cm<sup>2</sup> or 35 - 70Psi
- Recommended spacing up to 18m for higher distribution uniformity.
- Trajectory Angle: 23°
- Jet breaker attachment is also given with it.

### Application

- All crops irrigation suitable by overhead irrigation, ideal for landscape and turf irrigation, waste water treatment and dust suppression applications.
- Designed for full field irrigation of field crops.

### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
6.35 x 3.17	1/4"	2.5	35.55	31.6	103.65	51.1	13.50
		3	42.66	32.8	107.58	55.8	14.74
	3.5	49.77	33.4	109.55	59.6	15.74	
	4	56.88	35	114.80	63.3	16.72	
	1/8"	4.5	63.99	36.2	118.74	67.4	17.80
		5	71.1	37.4	122.67	71.2	18.81
7.14 x 3.17	9/32"	2.5	35.55	33	108.24	59.4	15.69
		3	42.66	34.2	112.18	65.3	17.25
	3.5	49.77	35	114.80	69.3	18.30	
	4	56.88	36.4	119.39	74.2	19.60	
	1/8"	4.5	63.99	37.2	122.02	79.5	21.00
		5	71.1	38.4	125.95	83.8	22.13
7.94 x 3.17	5/16"	2.5	35.55	34.8	114.14	70.2	18.54
		3	42.66	35.6	116.77	75.4	19.92
	3.5	49.77	36.4	119.39	79.8	21.08	
	4	56.88	37.2	122.02	86.3	22.79	
	1/8"	4.5	63.99	38.6	126.61	92.5	24.43
		5	71.1	40	131.20	97.3	25.70
8.73 x 3.17	11/32"	2.5	35.55	36	118.08	78.8	20.81
		3	42.66	37	121.36	85.2	22.50
	3.5	49.77	38.2	125.30	89.9	23.75	
	4	56.88	39.6	129.89	97.6	25.78	
	1/8"	4.5	63.99	40.4	132.51	102.4	27.05
		5	71.1	42	137.76	109.6	28.95

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 6.35x3.17mm Pressure: 4.0kg/cm<sup>2</sup>

### Distribution Curve

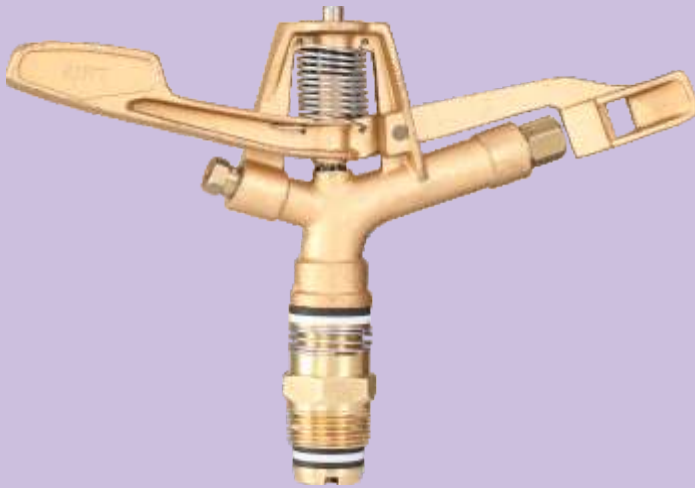


Spacing (m)	CU%	DU%	SC(5%)	APR
R15 x 15	95%	92%	1.1	17
R18 x 18	89%	83%	1.4	11.8



# AQ - 30M

## Overhead Sprinkler



### Features

- Available in 1" BSP/NPT male threaded.
- Durable Bronze body and arm.
- Heavy duty Brass Nut, Tube and nozzles.
- Stainless Steel Pivot Pin and springs.
- Recommended Pressure 2.5 - 5.0 kg/cm<sup>2</sup> or 35 - 70Psi
- PU thurst pad for impact wear resistance.
- Recommended spacing up to 21m for higher distribution uniformity.
- Trajectory Angle: 18°
- It is specially meant for installation at pivot end.

### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
6.35 x 4.76	1/4"	2.5	35.55	35.5	116.44	61.40	16.22
		3.0	42.66	36.0	118.08	66.10	17.46
	3.5	49.77	36.5	119.72	72.20	19.07	
	3/16"	4.0	56.88	37.5	123.00	77.70	20.52
		4.5	63.99	38.0	124.64	82.40	21.76
7.14 x 4.55	9/32"	2.5	35.55	36.0	118.08	76.50	20.21
		3.0	42.66	37.0	121.36	83.10	21.95
	3.5	49.77	38.0	124.64	88.60	23.40	
	7/32"	4.0	56.88	39.5	129.56	94.40	24.93
		4.5	63.99	41.0	134.48	101.80	26.89
7.94 x 5.55	5/16"	2.5	35.55	38.0	124.64	86.30	22.79
		3.0	42.66	40.0	131.20	93.40	24.67
	3.5	49.77	41.0	134.48	100.60	26.57	
	7/32"	4.0	56.88	41.5	136.12	107.70	28.45
		4.5	63.99	43.0	141.04	113.80	30.06
8.73 x 5.55	11/32"	2.5	35.55	39.0	127.92	106.80	28.21
		3.0	42.66	40.0	131.20	117.60	31.06
	3.5	49.77	42.0	137.76	127.20	33.60	
	7/32"	4.0	56.88	43.0	141.04	135.60	35.82
		4.5	63.99	44.0	144.32	144.10	38.06
5.0	71.1	44.5	145.96	152.60	40.31		

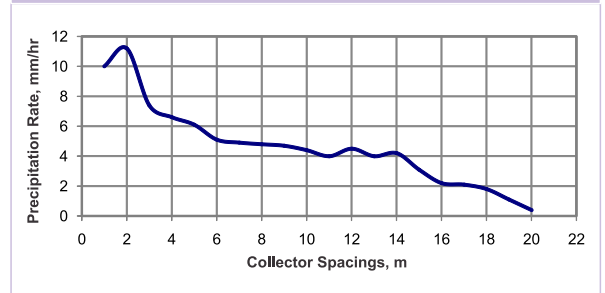
\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

### Application

- All crops irrigation by overhead irrigation on solid set, permanent set, wheel lines or mechanically moved system such as center pivot.

Nozzle Size: 7.94 x 5.55mm Pressure: 4.0kg/cm<sup>2</sup>

#### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
15 x 15	93%	91%	1.1	28.72
18 x 18	90%	87%	1.2	19.94
21 x 21	90%	87%	1.1	14.65

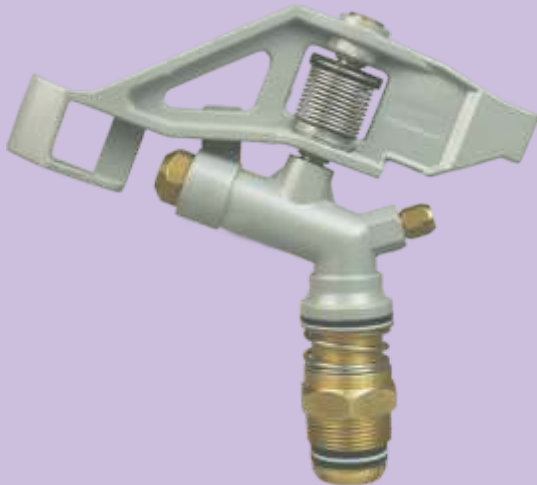


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# AQ - 40M

## Big Sprinkler



### Features

- Available in 1¼" BSP/NPT male threaded.
- Light in weight, robust and reliable design.
- Aluminium Pressure die casted Body and arm.
- Heavy duty brass nut, tube and nozzles.
- Stainless steel pivot pin and springs.
- Plastic parts made of engineering plastic for durability.
- Recommended Pressure 2.5 - 5.0 kg/cm<sup>2</sup> or 35 - 70Psi
- Recommended spacing up to 24m for higher distribution uniformity.
- Trajectory Angle: 22°

### Application

- Suitable for Overtree irrigation of tea, coffee plantation, fodder crops and horticulture also for pastures.
- It can be applied to all kind of land and cultivation.

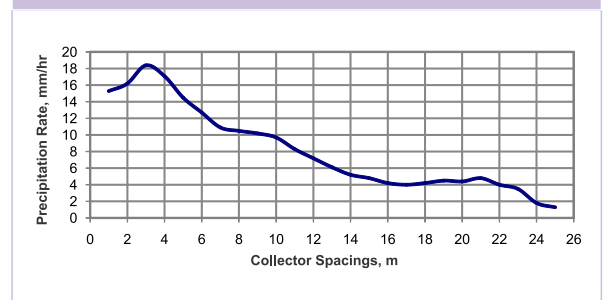
### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
9.53 x 5.55	3/8" x 7/32"	2.5	35.55	39	127.92	120.7	31.88
		3.5	49.77	42	137.76	129.2	34.13
		4.5	63.99	47.2	154.82	145.6	38.46
		5	71.1	48.2	158.10	153.5	40.54
10.32 x 5.55	13/32" x 7/32"	2.5	35.55	43	141.04	155.3	41.02
		3.5	49.77	46	150.88	165.2	43.63
		4.5	63.99	50.4	165.31	183	48.34
		5	71.1	52.4	171.87	192.6	50.87
12.70 x 6.35	1/2" x 1/4"	2.5	35.55	45	147.60	218.4	57.69
		3.5	49.77	49	160.72	243.3	64.26
		4.5	63.99	54.2	177.78	259.8	68.62
		5	71.1	56	183.68	275.6	72.79
13.49 x 6.35	17/32" x 1/4"	2.5	35.55	48	157.44	239.4	63.23
		3.5	49.77	52	170.56	271.5	71.71
		4.5	63.99	55.8	183.02	286.6	75.70
		5	71.1	58	190.24	302.2	79.82

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 10.32 x 5.55mm Pressure: 5.0kg/cm<sup>2</sup>

### Distribution Curve



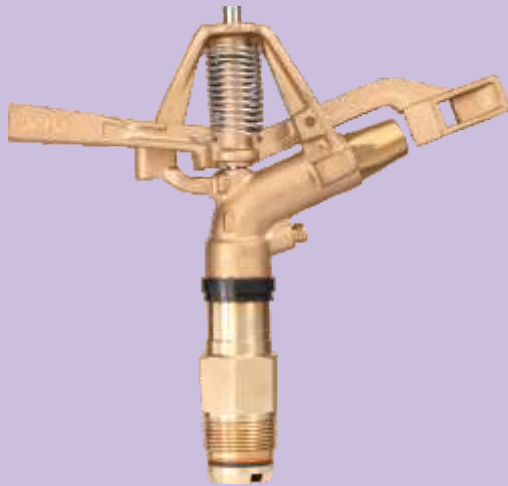
Spacing (m)	CU%	DU%	SC(5%)	APR
18.0 x 18.0	88%	80%	1.4	35.7
21.0 x 21.0	90%	85%	1.3	26.2
24.0 x 24.0	90%	84%	1.3	20.1





# AQ - 40B

## Big Sprinkler



### Features

- Available in 1 1/4" BSP/NPT male threaded.
- Durable Bronze body and Arm.
- Heavy duty Brass Nut, Tube and nozzles.
- Stainless Steel Pivot Pin and springs.
- Bearing assembly protect by cap for longevity.
- PU thrust pad for impact wear resistance.
- For center pivot end application 18° trajectory model also available.
- Recommended Pressure 3.5 - 6.0 kg/cm<sup>2</sup> or 50 - 85Psi
- Recommended spacing up to 30m for higher distribution uniformity.
- Trajectory Angle: 23°

### Application

- Designed for use for full field irrigation in hose reel systems, water reclamation, waste water treatment, mining and dust control.
- Ideal for large turf applications and a great option for solid set, permanent set systems in irregular field shapes and terrain difficulties.

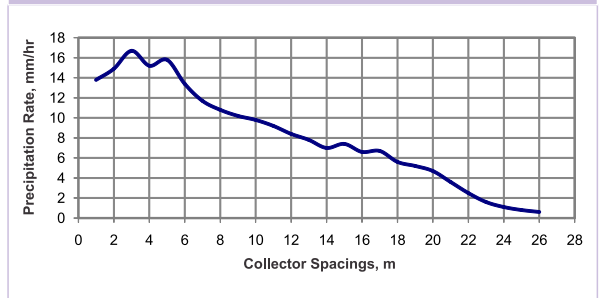
### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
9.53 x 5.55	3/8" x 7/32"	4	56.88	45.4	148.91	138.8	36.66
		4.5	63.99	47.2	154.82	145.6	38.46
		5	71.10	48.4	158.75	153.5	40.54
		5.5	78.21	50.3	164.98	162.4	42.89
10.32 x 5.55	13/32" x 7/32"	4	56.88	48.2	158.10	174.8	46.17
		4.5	63.99	50.1	164.33	183	48.34
		5	71.10	52.6	172.53	192.6	50.87
		5.5	78.21	54.8	179.74	201.4	53.20
12.7 x 6.35	1/2" x 1/4"	4	56.88	52	170.56	247.3	65.32
		4.5	63.99	54	177.12	259.8	68.62
		5	71.10	56.2	184.34	275.6	72.79
		5.5	78.21	58	190.24	280.4	74.06
15.87 x 6.35	5/8" x 1/4"	4	56.88	56	183.68	345.5	91.26
		4.5	63.99	58.4	191.55	362.4	95.72
		5	71.10	60.6	198.77	392.4	103.65
		5.5	78.21	63	206.64	411.1	108.58
		6	85.32	65.4	214.51	432.4	114.21

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 10.32 x 5.55mm Pressure: 5.0kg/cm<sup>2</sup>

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
21.0 x 21.0	95%	92%	1.1	26.2
24.0 x 24.0	92%	88%	1.2	20.1
27.0 x 27.0	95%	93%	1.1	15.9
30.0 x 30.0	94%	91%	1.1	12.8

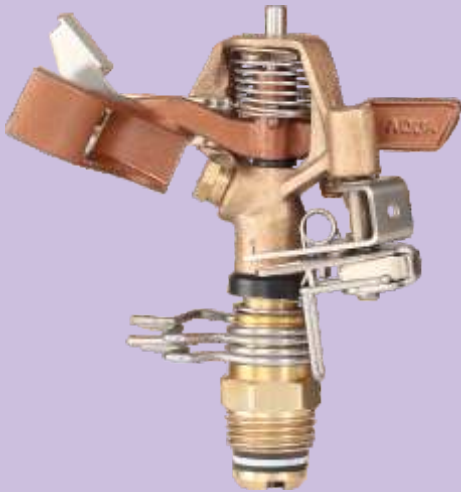


E-mail: [contactus@automatworld.com](mailto:contactus@automatworld.com)  
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# AQ-05PC

## Overhead Sprinklers



### Features

- ½" BSP/NPT male threaded.
- Durable Bronze body, Zamac Pressure Die Casted Arm.
- Brass Nut, Tube, nozzle & diffuser screw.
- Stainless Steel Pivot Pin, deflector plate, part circle mechanism.
- Diffuser screw to change the water jet from heavy droplets to fine spray.
- Adjustable deflector plate to change the spray height for adjusting throw.
- Recommended Pressure 2.0 - 3.5 kg/cm<sup>2</sup> or 30 - 50Psi
- Recommended spacing up to 8m for higher distribution uniformity.
- Trajectory Angle: 25°

### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
3.17	1/8"	2	28.44	21.2	69.54	9.58	2.53
		2.5	35.55	22.4	73.47	10.8	2.85
		3	42.66	23	75.44	11.6	3.06
		3.5	49.77	23.8	78.06	12.8	3.38
3.57	9/64"	2	28.44	22.9	75.11	11.4	3.01
		2.5	35.55	23.4	76.75	13.2	3.49
		3	42.66	23.8	78.06	14.4	3.80
		3.5	49.77	24.3	79.70	15	3.96
3.97	5/32"	2	28.44	23.5	77.08	13.8	3.65
		2.5	35.55	24	78.72	15.6	4.12
		3	42.66	24.5	80.36	17.4	4.60
		3.5	49.77	25	82.00	19.2	5.07

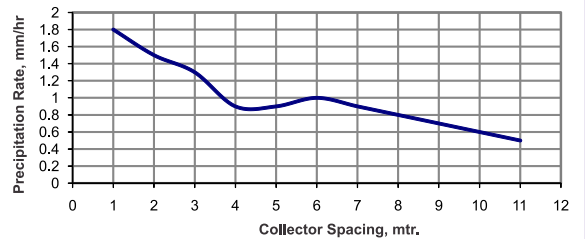
\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

### Application

- All crops irrigation compatible by overhead irrigation.
- For Efficient irrigation of field edges / turf application.

Nozzle Size: 3.17mm Pressure: 3.0kg/cm<sup>2</sup>

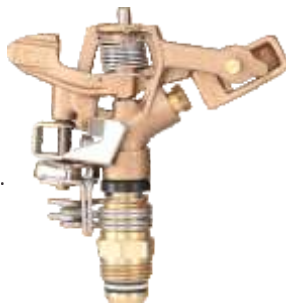
### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
6 x 6	91%	86%	1.2	19.3
7 x 7	88%	84%	1.2	14.2
8 x 8	83%	79%	1.3	10.9

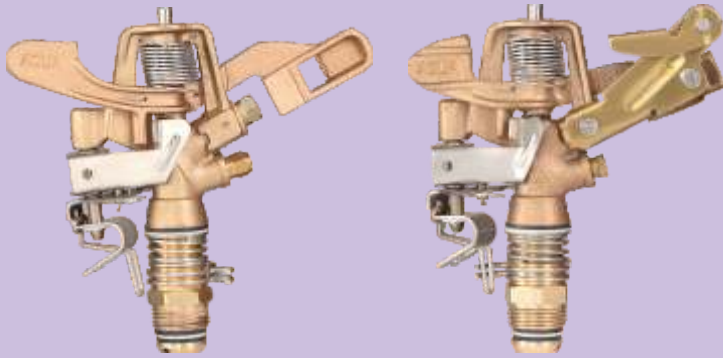
### AQ-05PC-AG

- Bronze Body & Arm.
- Inbuilt diffuser arm with body.
- Good gripping of diffuser screw, to prevent unscrewing at high pressure.
- Recommended pressure: 2-4 Kg/cm<sup>2</sup>



# AQ - 20PC

## Overhead Sprinkler



### Features

- 3/4" BSP/NPT male threaded.
- Durable Bronze body and arm.
- Heavy duty Brass Nut & Tube.
- Stainless Steel Pivot Pin, deflector plate, diffusor screw, part circle mechanism.
- Bearing & Sealing washers are made of material for extending life.
- Diffusor screw to change the water jet from heavy droplets to fine spray (AQ20PCDA).
- Adjustable deflector plate to change the spray height for adjusting throw (AQ20PC-ASDA).
- **Special Model available for pressure application upto 6.0kg/cm<sup>2</sup>**
- Recommended Pressure 2.0 - 4.0 kg/cm<sup>2</sup> or 30 - 55Psi
- Recommended spacing up to 15m for higher distribution uniformity.
- Trajectory Angle: 25°

### Application

- All crops irrigation compatible by overhead irrigation on Solid set - portable and permanent systems.
- For Efficient irrigation of field edges.

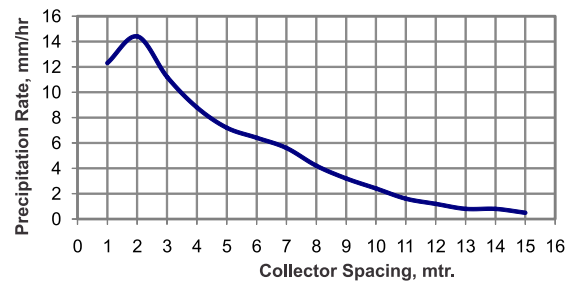
### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
3.96 x Plug	5/32" x Plug	2	28.44	27	88.56	13.8	3.65
		2.5	35.55	28	91.84	15.6	4.12
		3	42.66	29.4	96.43	17.5	4.62
		3.5	49.77	30.2	99.06	18.9	4.99
4.36 x 2.38	11/64" x 3/32"	2	28.44	26.8	87.90	22	5.81
		2.5	35.55	29	95.12	23.6	6.23
		3	42.66	30	98.40	25.8	6.81
		3.5	49.77	30.4	99.71	27.9	7.37
4.76 x Plug	3/16" x Plug	2	28.44	29	95.12	19.4	5.12
		2.5	35.55	29.8	97.74	22.8	6.02
		3	42.66	30.4	99.71	25.2	6.66
		3.5	49.77	31.2	102.34	26.9	7.11
4.76 x 3.17	3/16" x 1/8"	2	28.44	29.2	95.78	28.8	7.61
		2.5	35.55	29.8	97.74	32.3	8.53
		3	42.66	30.4	99.71	36.3	9.59
		3.5	49.77	31.2	102.34	39.4	10.41
5.15 x 3.17	13/64" x 1/8"	2	28.44	30.4	99.71	34.5	9.11
		2.5	35.55	31.3	102.66	37.2	9.83
		3	42.66	33.4	109.55	42.4	11.20
		3.5	49.77	32.2	105.62	44.9	11.86
		4	56.88	33.6	110.21	47.8	12.63

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 4.36 x 2.38mm Pressure: 3.0kg/cm<sup>2</sup>

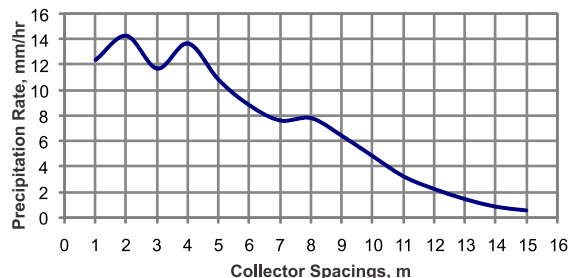
#### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
12 x 12	93%	92%	1.1	11.5
13 x 13	92%	91%	1.1	9.8
14 x 14	90%	88%	1.2	8.4
15 x 15	87%	84%	1.3	7.3

Nozzle Size: 4.76 x 3.17mm Pressure: 3.0kg/cm<sup>2</sup>

#### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
12 x 12	95%	93%	1.1	13.9
13 x 13	95%	91%	1.1	11.8
14 x 14	96%	93%	1.1	10.2
15 x 15	96%	94%	1.1	8.9

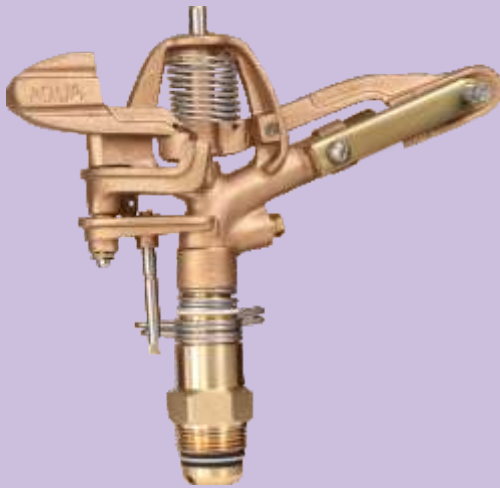


E-mail: [contactus@automatworld.com](mailto:contactus@automatworld.com)  
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# AQ - 30BPC

## Overhead Sprinkler



### Features

- Available in 1" BSP/NPT male/female threaded
- Durable Bronze body, Arm and part circle parts.
- Heavy duty Brass Nut, Tube, nozzles and spreader arm.
- Stainless Steel Pivot Pin, part circle changing pin.
- Recommended Pressure 2.5 - 5.0 kg/cm<sup>2</sup> or 35 - 70Psi
- PU thrust pad for impact wear resistance.
- Recommended spacing up to 21m for higher distribution uniformity.
- Trajectory Angle: 23°

### Application

- All crops irrigation suitable by overhead irrigation, ideal for landscape and turf irrigation, waste water treatment and dust suppression applications.
- For Efficient irrigation of field edges.

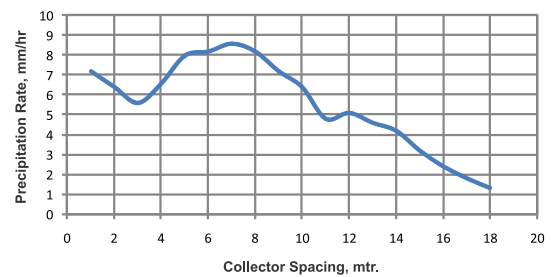
### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
6.35 x 3.17	1/4"	2.5	35.55	30.8	101.02	51.1	13.50
		3	42.66	31.4	102.99	55.8	14.74
	3.5	49.77	32	104.96	59.6	15.74	
	4	56.88	33.8	110.86	63.3	16.72	
	4.5	63.99	35.2	115.46	67.4	17.80	
7.14 x 3.17	9/32"	2.5	35.55	32.8	107.58	59.4	15.69
		3	42.66	34	111.52	65.3	17.25
	3.5	49.77	34.8	114.14	69.3	18.30	
	4	56.88	35.4	116.11	74.2	19.60	
	4.5	63.99	36.6	120.05	79.5	21.00	
7.94 x 3.17	5/16"	2.5	35.55	34.4	112.83	70.2	18.54
		3	42.66	35.2	115.46	75.4	19.92
	3.5	49.77	36	118.08	79.8	21.08	
	4	56.88	37	121.36	86.3	22.79	
	4.5	63.99	38.2	125.30	92.5	24.43	
8.73 x 3.17	11/32"	2.5	35.55	35.4	116.11	78.8	20.81
		3	42.66	36.4	119.39	85.2	22.50
	3.5	49.77	37.6	123.33	89.9	23.75	
	4	56.88	38.8	127.26	97.6	25.78	
	4.5	63.99	40	131.20	102.4	27.05	
	1/8"	5	71.1	41.8	137.10	109.6	28.95

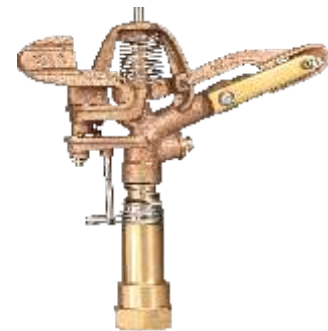
\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 7.14 x 3.17mm Pressure: 4.0kg/cm<sup>2</sup>

### Distribution Curve

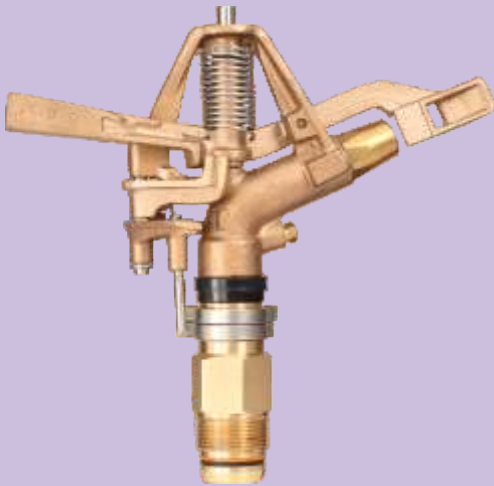


Spacing (m)	CU%	DU%	SC(5%)	APR
R15 x 15	91%	86%	1.2	19.8
R18 x 18	87%	77%	1.4	13.7
R21 x 21	87%	75%	1.7	10.1



# AQ - 40BPC

## Big Sprinkler



### Features

- Available in 1 1/4" BSP/NPT male threaded
- Durable Bronze body, arm and trip assembly.
- Heavy duty brass Nut, Tube and nozzles.
- Stainless Steel Pivot Pin, springs and part circle pin.
- Bearing assembly protect by cap for longevity.
- PU thrust pad for impact wear resistance.
- For center pivot end application 18° trajectory model also available.
- Recommended Pressure 3.5 - 6.0 kg/cm<sup>2</sup> or 50 - 85Psi
- Recommended spacing up to 30m for higher distribution uniformity.
- Trajectory Angle: 23°

### Application

- All crops irrigation by overhead irrigation, ideal for large landscape & turf irrigation, mining and dust control.
- For Efficient irrigation of field edges and at end of center pivot.

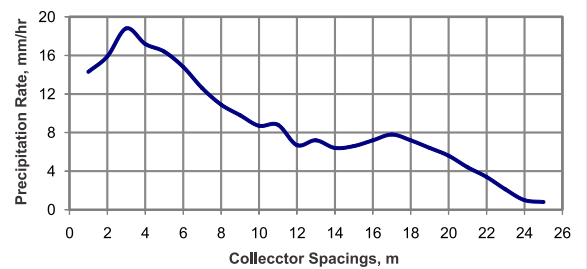
### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
9.53 x 5.55	3/8" x 7/32"	4	56.88	45	147.60	138.8	36.66
		4.5	63.99	46.6	152.85	145.6	38.46
		5	71.1	47.8	156.78	153.5	40.54
		5.5	78.21	49.2	161.38	162.4	42.89
10.32 x 5.55	13/32" x 7/32"	4	56.88	47.8	156.78	174.8	46.17
		4.5	63.99	49.6	162.69	183	48.34
		5	71.1	51.4	168.59	192.6	50.87
		5.5	78.21	53.8	176.46	201.4	53.20
12.70 x 6.35	1/2" x 1/4"	4	56.88	51	167.28	247.3	65.32
		4.5	63.99	53	173.84	259.8	68.62
		5	71.1	55.2	181.06	275.6	72.79
		5.5	78.21	57	186.96	280.4	74.06
15.87 x 6.35	5/8" x 1/4"	4	56.88	55	180.40	345.5	91.26
		4.5	63.99	57.6	188.93	362.4	95.72
		5	71.1	59.4	194.83	392.4	103.65
		5.5	78.21	62.4	204.67	411.1	108.58
		6	85.32	64.6	211.89	432.4	114.21

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 10.32 x 5.55mm Pressure: 5.0kg/cm<sup>2</sup>

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
21.0 x 21.0	92%	88%	1.2	26.2
24.0 x 24.0	87%	78%	1.4	20.1
27.0 x 27.0	90%	84%	1.2	15.9
30.0 x 30.0	91%	87%	1.2	12.8





# AQ - 40G (Penguin)

1¼" Water Guns



## Features

- Available in 1¼" BSP/NPT Female threaded.
- Aluminium Pressure die casted Body and arm.
- Heavy duty brass nut, tube, nozzles & Diffusor Screw.
- Stainless Steel Pivot Pin, springs, Nut and bolt.
- Plastic parts made of engineering plastic for durability.
- Available both Full Circle & Part -circle design.
- Jet breaker screw to change the water jet from heavy droplets to fine spray.
- Recommended Pressure 2.0 - 5.0 kg/cm<sup>2</sup> or 30 - 70Psi
- Recommended spacing up to 30m for higher distribution uniformity.
- Trajectory Angle: 30°

## Application

- Suitable for Overtree irrigation for bigger crops like sugarcane, oats, maize etc., tea, coffee, fodder, landscape and horticultur also for pastures & dust suppression.
- It can be applied to all kind of land and cultivation.
- Designed for both full field and irrigation of field edges.

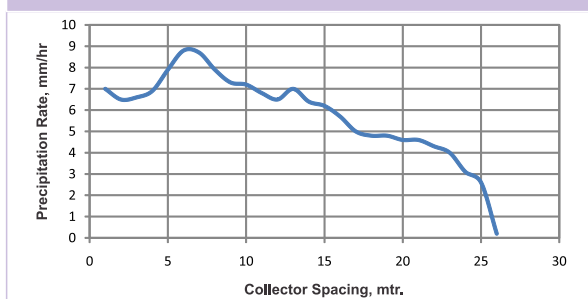
## Performance Table

Nozzle (mm)	Pressure		Coverage Diameter		Discharge Rate	
	kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
10 x 4	2	28.44	38	124.64	106	28.00
	3	42.66	42	137.76	130	34.34
	4	56.88	45	147.60	151	39.88
	5	71.10	47	154.16	170	44.90
12 x 4	2	28.44	42	137.76	149	39.36
	3	42.66	47	154.16	182	48.07
	4	56.88	52	170.56	211	55.73
	5	71.10	56	183.68	236	62.33
14 x 4	2	28.44	45	147.60	197	52.03
	3	42.66	48	157.44	241	63.66
	4	56.88	54	177.12	278	73.43
	5	71.10	58	190.24	311	82.14

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 12 x 4mm Pressure: 4.0kg/cm<sup>2</sup>

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
24.0 x 24.0	90%	86%	1.2	21.98
27.0 x 27.0	85%	78%	1.6	17.37
30.0 x 30.0	88%	79%	1.8	14.07



# AQ - 42G (Pelican)

1½" Water Guns



## Features

- Available in 1½" BSP/NPT Female threaded.
- Aluminium Pressure die casted Body and arm.
- Heavy duty brass nut, tube, nozzles & Diffuser Screw.
- Stainless Steel Pivot Pin, springs, Nut and bolt.
- Plastic parts made of engineering plastic for durability.
- Available both Full Circle & Part -circle design.
- Jet breaker screw to change the water jet from heavy droplets to fine spray.
- Recommended Pressure 2.0 - 5.0 kg/cm<sup>2</sup> or 30 - 70Psi
- Recommended spacing up to 36m for higher distribution uniformity.
- Trajectory Angle: 23°

## Application

- Suitable for Over tree irrigation for coffee, Tea, sugarcane, fodder crop, landscape and horticulture also for pastures and dust suppression.
- It can be applied to all kind of land and cultivation.
- Designed for both full field and irrigation of field edges.

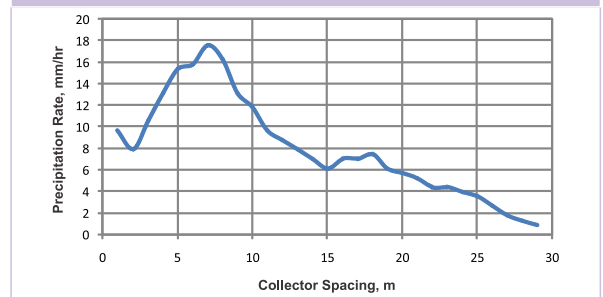
## Performance Table

Nozzle (mm)	Pressure		Coverage Diameter		Discharge Rate	
	kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
12 x 5	2	28.44	40	131.20	152	40.15
	3	42.66	48	157.44	182	48.07
	4	56.88	54	177.12	211	55.73
	5	71.1	60	196.80	236	62.33
14 x 5	2	28.44	42	137.76	195	51.51
	3	42.66	50	164.00	239	63.13
	4	56.88	58	190.24	277	73.16
	5	71.1	62	203.36	309	81.62
16 x 5	2	28.44	44	144.32	247	65.24
	3	42.66	52	170.56	303	80.03
	4	56.88	60	196.80	351	92.71
	5	71.1	66	216.48	391	103.28

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 14 x 5mm Pressure: 4.0kg/cm<sup>2</sup>

## Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
24.0 x 24.0	95%	93%	1.1	28.9
27.0 x 27.0	91%	83%	1.3	22.8
30.0 x 30.0	88%	81%	1.5	18.5
33.0 x 33.0	90%	85%	1.3	15.3
36.0 x 36.0	86%	80%	1.2	12.8



E-mail: [contactus@automatworld.com](mailto:contactus@automatworld.com)  
 Website: [www.automatworld.com](http://www.automatworld.com)

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# AQ-22

## Overhead Sprinklers







### Features

- Available in 1/2" Male threaded
- Color coded nozzles for easy size identification.
- Nozzle Bayonet connection for easy service in field conditions.
- Nozzles with integrated stream straightening vane for long range.
- Engineering Plastic material for durability and corrosion resistant.
- Pivot pin and Springs made of Stainless steel.
- Recommended Pressure 2.0 - 4.0 kg/cm<sup>2</sup> or 28.45 -56.85Psi
- Recommended spacing up to 12m for higher distribution uniformity.
- Trajectory Angle: 24°

### Application

- All row crops irrigation compatible by overhead irrigation on solid set systems - portable or permanent.
- Agriculture fields and germination of vegetable, flowers & nursery crops.

### Performance Table

Nozzle (mm)	Pressure		Coverage Diameter		Discharge Rate	
	kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
2.9x1.8 	2	28.44	20	65.60	10.08	2.66
	2.5	35.55	20.4	66.91	11.25	2.97
	3	42.66	20.8	68.22	12.33	3.26
	3.5	49.77	21	68.88	13.33	3.52
	4	56.88	21	68.88	14.17	3.74
3.2 x 1.8 	2	28.44	21.0	68.88	11.94	3.15
	2.5	35.55	21.6	70.85	13.43	3.55
	3	42.66	21.6	70.85	14.78	3.90
	3.5	49.77	22.0	72.16	15.86	4.19
	4	56.88	22.0	72.16	17.13	4.53
3.5x2.4 	2	28.44	21.6	70.85	16.67	4.40
	2.5	35.55	22.0	72.16	18.91	5.00
	3	42.66	22.4	73.47	20.83	5.50
	3.5	49.77	23.0	75.44	22.50	5.94
	4	56.88	23.0	75.44	24.17	6.38
4.0x2.4 	2	28.44	22.0	72.16	19.08	5.04
	2.5	35.55	22.4	73.47	21.25	5.61
	3	42.66	23.0	75.44	23.58	6.23
	3.5	49.77	23.6	77.41	25.67	6.78
	4	56.88	24.0	78.72	27.50	7.26

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

### Spray Nozzle



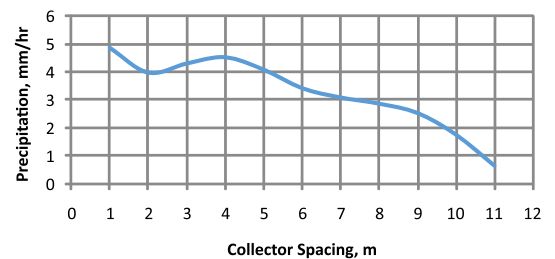
1.8 (Green Color)



2.4 (Yellow Color)

Nozzle Size: 3.2x1.8mm Pressure: 3 kg/cm<sup>2</sup>

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
9.0 x 9.0	97%	96%	1	10.9
9.0 x 10.0	94%	89%	1.2	9.9
10.0 x 10.0	91%	88%	1.1	8.9
9.0 x 12.0	93%	82%	1.3	8.2
10.0 x 12.0	89%	83%	1.3	7.4
12.0 x 12.0	86%	80%	1.5	6.2



# AQ-22W

## Overhead Sprinklers






### Features

- Recommended Pressure 1.0 - 3.0 kg/cm<sup>2</sup> or 14.22 - 42.65Psi
- Color coded nozzles for easy size identification.
- Nozzle Bayonet connection for easy service in field conditions.
- Nozzles with integrated stream straightening vane for long range.
- Engineering Plastic material for durability and corrosion resistant.
- Pivot pin and Springs made of Stainless steel.
- Recommended Pressure 1.0 - 3.0 kg/cm<sup>2</sup> or 15 - 40Psi
- Recommended spacing up to 10m for higher distribution uniformity.
- Trajectory Angle: 24<sup>o</sup>

### Application

- Irrigation and germination of vegetable & nursery crops by overhead irrigation.
- Efficient irrigation and crop protection by frost.

### Performance Table

Nozzle (mm)	Pressure		Coverage Diameter		Discharge Rate	
	kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
2.0x1.8 	1	14.22	17.2	56.42	4.9	1.29
	1.5	21.33	18.6	61.01	5.8	1.53
	2	28.44	19.2	62.98	6.75	1.78
	2.5	35.55	19.4	63.63	7.5	1.98
2.2 x 1.8 	1	14.22	17.6	57.73	5.15	1.36
	1.5	21.33	19	62.32	6.3	1.66
	2	28.44	19.6	64.29	7.25	1.91
	2.5	35.55	19.6	64.29	8.1	2.14
2.5 x 1.8 	1	14.22	18	59.04	6.18	1.63
	1.5	21.33	19.6	64.29	7.48	1.98
	2	28.44	20	65.6	8.68	2.29
	2.5	35.55	20.6	67.57	9.63	2.54
	3	42.66	21	68.88	10.68	2.82

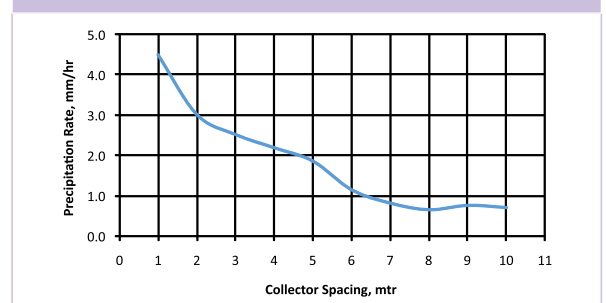
\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Spray Nozzle: Green Color 



Nozzle Size: 2.2 x 1.8mm Pressure: 2.0kg/cm<sup>2</sup>

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
09 x 09	90%	87%	1.1	5.3
10 x 10	89%	85%	1.1	4.3
11 x 11	88%	84%	1.2	3.6
10 x 12	88%	82%	1.4	3.6
12 x 12	85%	77%	1.3	3

# AQ - 46

## Overhead Sprinkler



### Features

- Available with 3/4" BSPT male/Female threaded.
- Durable Engineering plastic Body, Arm, Nut, Tube and nozzles.
- Color coded nozzles for easy size identification.
- Bayonet nozzle connection for easy service in field condtions.
- **Brass nozzles are also available with this model.**
- Nozzles with integrated spreader screw is available with both nozzles.
- Press fitted plated weight into arm for proper impact and balancing.
- Stainless Steel Pivot Pin and Springs
- Recommended Pressure 1.0 - 4.0 kg/cm<sup>2</sup> or 14.22- 56.88Psi
- Recommended spacing up to 15m for higher distribution uniformity.
- Trajectory Angle: 23°

### Application

- All crops compatible for overhead sprinkler irrigation on portable as well as solid set systems.
- Use for agriculture field, fruit farming and vegetable farming.

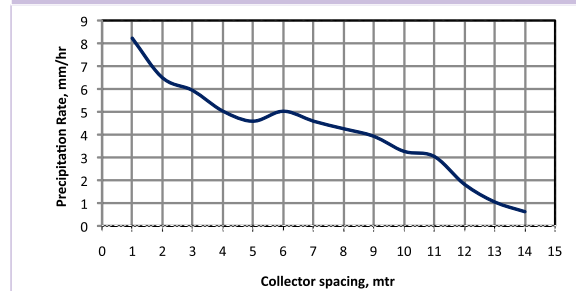
### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
3.57 x plug	9/64" x Plug	1	14.2	21	68.88	7.8	2.06
		2	28.4	24	78.72	11	2.91
		3	42.7	25	82	13.5	3.57
		4	56.9	25.5	83.64	15.6	4.12
3.57 x 2.38	9/64" x 3/32"	1	14.2	21	68.88	11.6	3.05
		2	28.4	24	78.72	16.3	4.31
		3	42.7	25	82	20	5.28
		4	56.9	25.5	83.64	23.1	6.1
3.96 x 2.38	5/32" x 3/32"	1	14.2	21	68.88	13.6	3.6
		2	28.4	25	82	19.3	5.08
		3	42.7	26	85.28	23.6	6.23
		4	56.9	26.5	86.92	27.2	7.19
4.36 x 2.38	11/64" x 3/32"	1	14.2	22	72.16	15.4	4.07
		2	28.4	25.5	83.64	21.8	5.76
		3	42.7	27.5	90.2	26.7	7.05
		4	56.9	28	91.84	30.8	8.14
4.76 x 3.17	3/16" x 1/8"	1	14.2	22.5	73.8	21.3	5.62
		2	28.4	26	85.28	30.1	7.94
		3	42.7	28.5	93.48	36.8	9.73
		4	56.9	29	95.12	42.5	11.23
5.15 x 3.17	13/64" x 1/8"	1	14.2	22.5	73.8	22.9	6.05
		2	28.4	27	88.56	32.4	8.55
		3	42.7	29.5	96.76	39.7	10.48
		4	56.9	29.5	96.76	45.8	12.1
5.55 x 3.17	7/32" x 1/8"	1	14.2	23.5	77.08	25	6.61
		2	28.4	28	91.84	35.4	9.34
		3	42.7	30	98.4	43.3	11.44
		4	56.9	30.5	100.04	50	13.21

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 4.36 x 2.38mm Pressure: 3.0kg/cm<sup>2</sup>

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
12.0 x 12.0	93%	88%	1.1	11.1
13.0 x 13.0	92%	84%	1.2	9.5
14.0 x 14.0	88%	82%	1.3	8.2
15.0 x 15.0	86%	79%	1.3	7.1

AQ-46S



AQ-46B



Special model with Brass Nozzles



# AQ - 30P

## Overhead Sprinkler



### Features

- Available in 1" BSP/NPT Female threaded
- Durable Engineering plastic Body, Arm, Nut and Tube.
- Threaded Plastic nozzles for durability.
- MS heavy weight inserted in the arm, eliminate arm vibration & good impact.
- Stainless Steel Pivot Pin and springs.
- Recommended Pressure 2.0 - 5.0 kg/cm<sup>2</sup> or 28.44 - 71.1Psi
- Recommended spacing up to 18m for higher distribution uniformity.
- Trajectory Angle: 25°
- Special Brass Nozzle also available

### Application

- All crops irrigation compatible by overhead irrigation.

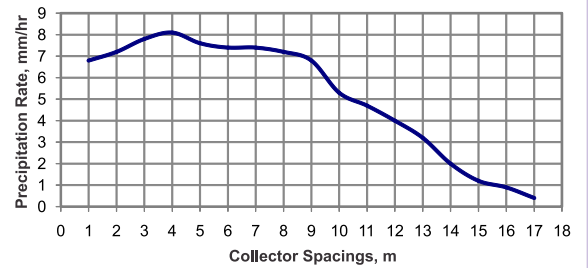
### Performance Table

Nozzle (mm)	Pressure		Coverage Diameter		Discharge Rate	
	kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
6.5 x 4.5	2	28.44	32	104.96	55.83	14.75
	3	42.66	33.2	108.90	67.6	17.86
	4	56.88	34.2	112.18	79.17	20.91
	5	71.1	35.6	116.77	87.83	23.20
7.0 x 4.5	2	28.44	33.2	108.90	61.33	16.20
	3	42.66	34	111.52	76.17	20.12
	4	56.88	36.4	119.39	88.83	23.46
8.0 x 5.5	2	28.44	34.4	112.83	82.5	21.79
	3	42.66	36	118.08	101.83	26.90
	4	56.88	38.2	125.30	115.33	30.46
	5	71.1	40.2	131.86	129.83	34.29

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 7.0 x 4.5mm Pressure: 3.0kg/cm<sup>2</sup>

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
R15 x 15	90%	85%	1.3	16.5
R16 x 16	89%	83%	1.4	14.5
R17 x 17	89%	82%	1.5	12.9
R18 x 18	90%	83%	1.5	11.5



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# AQ-22PC

## Overhead Sprinklers



AQ - 22PC-AG

### Features

- Available in 1/2" BSPT Male threaded
- Color coded nozzles for easy size identification.
- Nozzle Bayonet connection for easy service in field conditions.
- Nozzles with integrated stream straightening vane for long range.
- Engineering Plastic material for durability and corrosion resistant.
- Pivot pin and Springs made of Stainless steel.
- Part circle assembly made by special grade plastic material for longevity.
- Recommended Pressure 2.0 - 4.0 kg/cm<sup>2</sup> or 30 - 55Psi
- Recommended spacing up to 8m for higher distribution uniformity.
- Trajectory Angle: 25°

### Application

- All agriculture crops and gardens irrigated by overhead irrigation.
- For irrigation and germination of vegetables, flowers, potatoes.
- For Efficient irrigation of field edges.

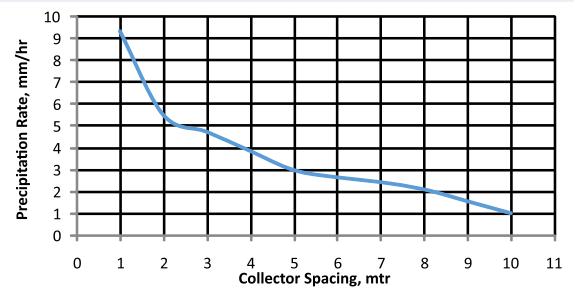
### Performance Table

Nozzle (mm)	Pressure		Coverage Diameter		Discharge Rate	
	kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
2.5	2.0	28.44	21.0	68.88	6.10	23.09
	2.5	35.55	22.0	72.16	6.80	25.74
	3.0	42.66	21.6	70.85	7.40	28.02
	3.5	49.77	22.6	74.13	8.00	30.29
	4.0	56.88	22.6	74.13	8.55	32.37
2.9	2.0	28.44	23.0	75.44	7.60	28.76
	2.5	35.55	23.0	75.44	8.50	32.18
	3.0	42.66	23.0	75.44	9.30	35.21
	3.5	49.77	23.0	75.44	10.10	38.24
	4.0	56.88	23.0	75.44	10.75	40.70
3.2	2.0	28.44	22.0	72.16	9.40	35.59
	2.5	35.55	23.0	75.44	10.50	39.75
	3.0	42.66	23.0	75.44	11.55	43.73
	3.5	49.77	23.5	77.08	12.45	47.14
	4.0	56.88	24.0	78.72	13.30	50.35
*3.5	2.0	28.44	22.0	72.16	11.70	44.30
	2.5	35.55	23.0	75.44	13.10	49.59
	3.0	42.66	24.0	78.72	14.30	54.14
	3.5	49.77	25.0	82.00	15.40	58.30
	4.0	56.88	26.0	85.28	16.40	62.09

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 3.2mm, Orange Pressure: 3 kg/cm<sup>2</sup>

### Distribution Curve



Spacing	CU%	DU%	SC(5%)	APR
9.0 x 9.0	91%	91%	1.1	8.5
10.0 x 10.0	90%	84%	1.3	6.9
11.0 x 11.0	88%	81%	1.3	5.7
10.0 x 12.0	88%	82%	1.3	5.8
12.0 x 12.0	89%	85%	1.2	4.8

### AQ - 22PC-GAG

- For Garden & landscape
- Operating at low pressure.
- Diffusor screw to change the water jet from heavy droplets to fine spray.
- Adjustable deflector plate to change the spray height and to reduce throw.



# AQ - 46PC

## Overhead Sprinkler



### Features

- Available in 3/4" BSPT Male threaded
- Body, Arm, Nut, Tube and part circle mechanism made of engineering plastic material for durability and corrosion resistant.
- Nozzle Bayonet connection for easy service in field conditions.
- Also available in Brass Threaded nozzle.
- Nozzles with integrated stream straightening vane for long range.
- Pivot pin and Springs, part circle pin made of Stainless steel.
- Recommended Pressure 1.0 - 4.0 kg/cm<sup>2</sup> or 14.25 - 56.85Psi
- Recommended spacing up to 15m for higher distribution uniformity.
- Trajectory Angle: 23°

### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
3.96 x 2.38	5/32" x 3/32"	1	14.22	21.5	70.52	13.5	3.56
		2	28.44	23	75.44	19.1	5.03
		3	42.66	26.4	86.59	23.3	6.16
		4	56.88	28.6	93.81	27	7.12
4.36 x 2.38	11/64" x 3/32"	1	14.22	22.6	74.13	15.3	4.04
		2	28.44	24.4	80.03	20.3	5.36
		3	42.66	27.8	91.18	26.5	7
		4	56.88	29.4	96.43	30.6	8.08
4.76 x Plug	3/16" x Plug	1	14.22	23.6	77.41	13.6	3.58
		2	28.44	26.8	87.9	19.2	5.06
		3	42.66	29	95.12	23.5	6.21
		4	56.88	30.4	99.71	27.1	7.17
4.76 x 3.17*	3/16" x 1/8"	1	14.22	23.8	78.06	20.3	5.36
		2	28.44	26.8	87.9	28.7	7.58
		3	42.66	29.2	95.78	35.2	9.29
		4	56.88	30.4	99.71	40.6	10.72
5.15 x 3.17	13/64" x 1/8"	1	14.22	23.8	78.06	22.1	5.85
		2	28.44	29.2	95.78	31.3	8.27
		3	42.66	30.4	99.71	38.3	10.13
		4	56.88	32.4	106.27	44.3	11.69

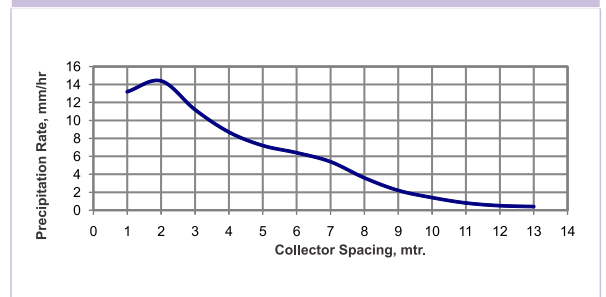
\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

### Application

- All crops irrigation compatible by overhead irrigation on Solid set - portable and permanent systems.
- For Efficient irrigation of field edges.

Nozzle Size: 4.36 x 2.38mm Pressure: 3.0kg/cm<sup>2</sup>

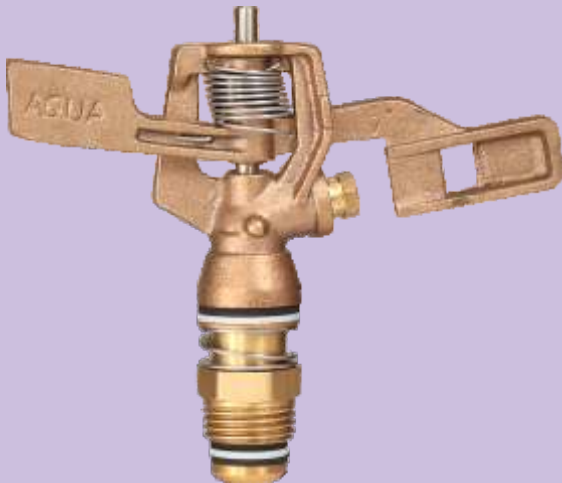
#### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
12 x 12	93%	91%	1.1	11
13 x 13	89%	85%	1.3	9.4
14 x 14	85%	78%	1.6	8.1
15 x 15	80%	68%	1.9	7

# AQ - 5LA7

## Undertree Sprinklers



### Features

- Available in 1/2" BSP/ NPT Male threaded
- Nozzle above 3.17mm with stream straightening vane for long range.
- Durable Bronze body and arm
- Heavy duty brass Nut and tube
- Pivot pin and Springs made of Stainless steel.
- Recommended Pressure 2 - 4.5 kg/cm<sup>2</sup> or 30 - 65Psi
- Recommended spacing up to 10m for higher distribution uniformity.
- Trajectory Angle: 7°

### Application

- Low volume, Low angle metal sprinkler for irrigation of undertree, bananas, vineyards, orchards and plantation.

### Performance Table

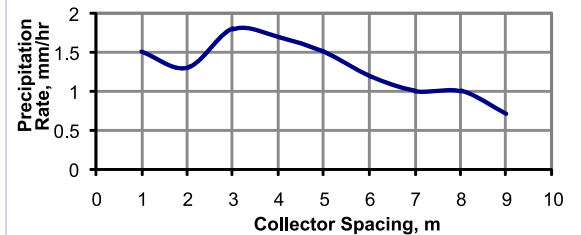
Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
2.38	3/32"	2	28.44	15.5	50.84	5.4	1.43
		2.5	35.55	17	55.76	5.95	1.57
		3	42.66	18	59.04	6.5	1.72
		3.5	49.77	18.5	60.68	6.9	1.82
		4	56.88	19	62.32	7.4	1.95
		4.5	63.99	20	65.6	7.9	2.09
2.77	7/64"	2	28.44	16	52.48	7.5	1.98
		2.5	35.55	17.5	57.4	8.35	2.21
		3	42.66	19	62.32	8.95	2.36
		3.5	49.77	20	65.6	9.9	2.61
		4	56.88	21	68.88	10.35	2.73
		4.5	63.99	21.5	70.52	10.85	2.87
3.17	1/8"	2	28.44	16.5	54.12	9.58	2.53
		2.5	35.55	18	59.04	10.8	2.85
		3	42.66	19.5	63.96	11.6	3.06
		3.5	49.77	20.5	67.24	12.8	3.38
		4	56.88	21	68.88	13.4	3.54
		4.5	63.99	21.5	70.52	13.9	3.67
3.57	9/64"	2	28.44	17	55.76	11.8	3.12
		2.5	35.55	18.5	60.68	13.2	3.49
		3	42.66	19.5	63.96	14.45	3.82
		3.5	49.77	20	65.6	15.55	4.11
		4	56.88	20.5	67.24	16.7	4.41
		4.5	63.99	21.5	70.52	17.25	4.56

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

\*\*On higher pressure ( above 3 Kg/cm<sup>2</sup>) stream straightener is recommended for all the nozzles.

Nozzle Size: 3.57mm Pressure: 2.0kg/cm<sup>2</sup>

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
8 x 8	95%	91%	1.1	11.1
9 x 9	88%	84%	1.2	8.7
10 x 10	85%	78%	1.5	7.1





# AQ - 5N7W

## Undertree Sprinklers



### Features

- Available in 1/2" BSP/ NPT Male threaded
- Nozzle size above 3.17mm with stream straightening vane for long range.
- Durable Bronze body and arm.
- Heavy duty brass Nut and tube.
- Energy saving with plastic wedge drive spool.
- Excellent water distribution at low pressure.
- Pivot pin and Springs made of Stainless steel.
- Recommended Pressure 1.5 - 4.0 kg/cm<sup>2</sup> or 20 -55Psi
- Recommended spacing up to 10m for higher distribution uniformity.
- Trajectory Angle: 7°

### Application

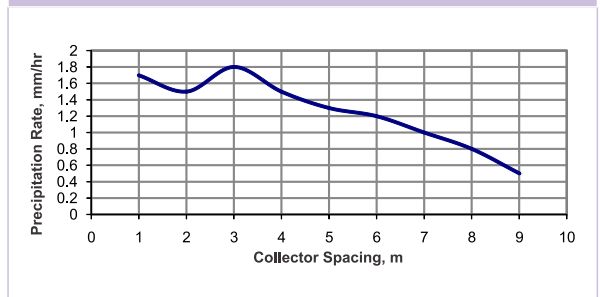
- Low volume, Low angle metal sprinkler for irrigation of undertree, bananas, vineyards, orchards and plantation.

### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
2.38	3/32"	1.5	21.33	13.8	45.26	5.04	1.33
		2	28.44	14.2	46.58	5.25	1.39
		2.5	35.55	15.4	50.51	5.75	1.52
		3	42.66	16.2	53.14	6.2	1.64
		3.5	49.77	17	55.76	6.7	1.77
2.77	7/64"	1.5	21.33	14	45.92	6.74	1.78
		2	28.44	14.8	48.54	7.5	1.98
		2.5	35.55	16	52.48	8.35	2.21
		3	42.66	17.2	56.42	8.95	2.36
		3.5	49.77	18	59.04	9.9	2.61
3.17	1/8"	1.5	21.33	14.2	46.58	8.58	2.27
		2	28.44	15	49.20	10.25	2.71
		2.5	35.55	16.2	53.14	10.8	2.85
		3	42.66	17.4	57.07	11.6	3.06
		3.5	49.77	18.4	60.35	12.8	3.38
3.57	9/64"	1.5	21.33	14.8	48.54	9.7	2.56
		2	28.44	15.8	51.82	11.8	3.12
		2.5	35.55	17	55.76	13.2	3.49
		3	42.66	18.2	59.70	14.45	3.82
		3.5	49.77	19	62.32	15.55	4.11
4	56.88	19.8	64.94	16.7	4.41		

Nozzle Size: 3.17mm Pressure: 2.0kg/cm<sup>2</sup>

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
8 x 8	97%	95%	1.1	9.6
9 x 9	90%	87%	1.2	7.6
10 x 10	87%	82%	1.4	6.2



\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.  
 \*\*On higher pressure ( above 3 Kg/cm<sup>2</sup>) stream straightener is recommended for all the nozzles.

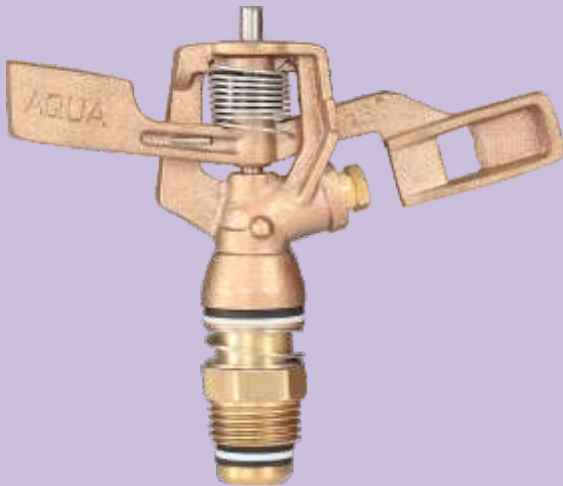


E-mail: [contactus@automatworld.com](mailto:contactus@automatworld.com)  
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*Creating a Green World*

# AQ - 5N15

## Undertree Sprinklers



### Features

- Available in 1/2" BSP/NPT Male threaded
- Nozzle above 3.17mm with stream straightening vane for long range.
- Durable Bronze body and arm
- Heavy duty brass Nut and tube
- Pivot pin and Springs made of Stainless steel.
- Recommended Pressure 2 - 4.5 kg/cm<sup>2</sup> or 30 -65Psi
- Recommended spacing up to 12m for higher distribution uniformity.
- Trajectory Angle: 15°

### Application

- Low volume, Low angle metal sprinkler for irrigation of undertree, bananas, vineyards, orchards and plantation.

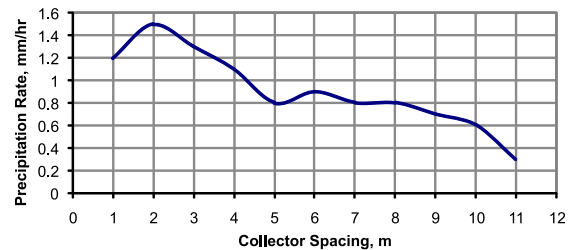
### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
2.38	3/32"	2	28.44	19	62.32	5.4	1.43
		2.5	35.55	19.5	63.96	5.95	1.57
		3	42.66	20	65.6	6.5	1.72
		3.5	49.77	20.5	67.24	6.9	1.82
		4	56.88	21.5	70.52	7.4	1.95
2.77	7/64"	2	28.44	20	65.6	7.5	1.98
		2.5	35.55	20.5	67.24	8.35	2.21
		3	42.66	21	68.88	8.95	2.36
		3.5	49.77	21.5	70.52	9.9	2.61
		4	56.88	22	72.16	10.35	2.73
3.17	1/8"	2	28.44	20.5	67.24	9.58	2.53
		2.5	35.55	21	68.88	10.8	2.85
		3	42.66	21.5	70.52	11.6	3.06
		3.5	49.77	22	72.16	12.8	3.38
		4	56.88	22.5	73.8	13.4	3.54
3.57	9/64"	2	28.44	21	68.88	11.8	3.12
		2.5	35.55	21.5	70.52	13.2	3.49
		3	42.66	22	72.16	14.45	3.82
		3.5	49.77	22.5	73.8	15.55	4.11
		4	56.88	23	75.44	16.7	4.41
		4.5	63.99	24	78.72	17.25	4.56

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.  
 \*\*On higher pressure ( above 3 Kg/cm<sup>2</sup>) stream straightener is recommended for all the nozzles.

Nozzle Size: 2.77mm Pressure: 3.5kg/cm<sup>2</sup>

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
8 x 8	89%	79%	1.4	9.28
9 x 9	92%	89%	1.1	7.33
10 x 10	93%	88%	1.2	5.94
11 x 11	87%	77%	1.4	4.91
12 x 12	85%	77%	1.5	4.13



# AQ - 20LA

## Undertree Sprinklers



### Features

- 3/4" BSP/NPT male threaded
- Durable Bronze body and arm.
- Heavy duty Brass Nut & Tube.
- Stainless Steel Pivot Pin, Springs
- Bearing & Sealing washers are made of material for extending life.
- Recommended Pressure 3.0 - 4.5 kg/cm<sup>2</sup> or 35 - 65Psi
- Recommended spacing up to 15m for higher distribution uniformity.
- Trajectory Angle: 10°

### Application

- It can be applied to Undertree, bananas, vineyards, orchards and all kind of cultivation in windswept land.
- Better wind fighting ability with long flow range.

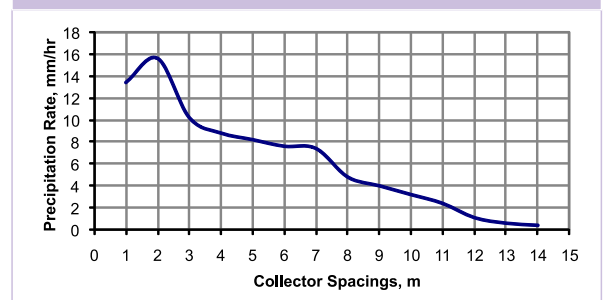
### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
3.57 *3.17	9/64" x 1/8"	3	42.66	26.2	85.94	24.4	6.44
		3.5	49.77	26.8	87.9	26.2	6.92
		4	56.88	27.4	89.87	28.2	7.45
		4.5	63.99	28	91.84	30.4	8.03
3.96 *3.17	5/32" x 1/8"	3	42.66	26.6	87.25	26.3	6.95
		3.5	49.77	27	88.56	28.5	7.53
		4	56.88	27.4	89.87	31.2	8.24
		4.5	63.99	28	91.84	32.8	8.66
4.76 *3.17	3/16" x 1/8"	3	42.66	27.2	89.22	33.6	8.87
		3.5	49.77	27.6	90.53	36.8	9.72
		4	56.88	28	91.84	39.1	10.33
		4.5	63.99	28.4	93.15	42.4	11.2
5.15 *3.17	13/64" x 1/8"	3	42.66	27.8	91.18	37	9.77
		3.5	49.77	28	91.84	40.5	10.7
		4	56.88	28.2	92.5	43.3	11.44
		4.5	63.99	28.8	94.46	46.5	12.28
5.55 *3.17	7/32" x 1/8"	3	42.66	27.8	91.18	41.5	10.96
		3.5	49.77	28.2	92.5	45.1	11.91
		4	56.88	28.4	93.15	48.4	12.78
		4.5	63.99	29	95.12	51.2	13.52
5.95 *3.17	15/64" x 1/8"	3	42.66	27.8	91.18	44.2	11.67
		3.5	49.77	28.2	92.5	49.2	13
		4	56.88	28.6	93.81	52.3	13.81
		4.5	63.99	29.4	96.43	55.4	14.63

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 4.76x3.17mm Pressure: 4.0 kg/cm<sup>2</sup>

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
R9.0 x 9.0	94%	93%	1.1	29
R10.0 x 10.0	96%	95%	1	23.5
R11.0 x 11.0	95%	93%	1.1	19.4
R12.0 x 12.0	93%	91%	1.1	16.3
R13.0 x 13.0	94%	91%	1.1	13.9
R14.0 x 14.0	94%	94%	1.1	12
R15.0 x 15.0	93%	89%	1.1	10.4

# AQ - 22LA

## Undertree Sprinklers










### Features

- Available in 1/2" Male threaded
- Color coded nozzles for easy size identification.
- Nozzle Bayonet connection for easy service in field condtions.
- Nozzles with integrated stream straightening vane for long range.
- Engineering Plastic material for durability and corrosion resistant.
- Pivot pin and Springs made of Stainless steel.
- Recommended Pressure 2.0 - 4.0 kg/cm<sup>2</sup> or 30 - 55Psi
- Recommended spacing up to 10m for higher distribution uniformity.

### Application


- Low angle with multi trajectory nozzles plastic sprinkler for irrigation of undertree, bananas, vineyards, orchards and plantation.

### Performance Table

Nozzle (mm)	Pressure		Coverage Diameter (mtr.)			Discharge Rate	
	kg/cm <sup>2</sup>	Psi	9°	12°	14°	LPM	GPM
							
2.5 	2	28.44	15	15.5	16.5	6.1	1.61
	3	42.66	16.5	17	18	7.5	1.98
	4	56.88	17	18.5	19	8.6	2.27
2.9 	2	28.44	16	17	17.5	7.6	2.01
	3	42.66	17	18	18.5	9.3	2.46
	4	56.88	18	19.5	20	10.8	2.85
3.2 	2	28.44	17	17.5	18	9.40	2.48
	3	42.66	18	18.5	19	11.55	3.05
	4	56.88	18.5	19.5	20	13.30	3.51
3.5 	2	28.44	17.5	18	18.5	11.4	3.01
	3	42.66	18.5	20	20.5	13.9	3.67
	4	56.88	19.5	21	22	15.9	4.20

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Three trajectories 9°, 12°, 14° can change just by replacing the nozzle.

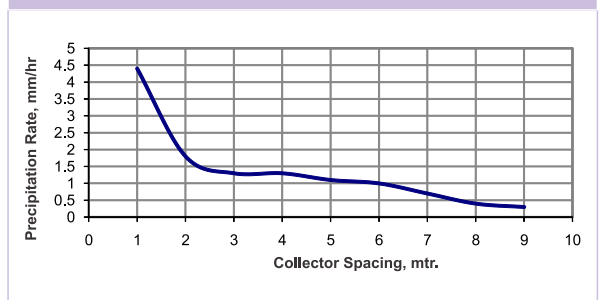
9° fights wind drift and evaporation. 

12° ideal for undertree irrigation. 

14° ideal for undertree irrigation. 

Nozzle Size: 2.5mm Pressure: 3.0kg/cm<sup>2</sup> Trajectory: 12deg

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
08x08	87%	80%	1.1	7
09x09	83%	76%	1.1	5.6
08x10	83%	76%	1.1	5.6
09x10	83%	81%	1.2	5
10x10	85%	82%	1.2	4.5





# AQ - 22LA-W

## Undertree Sprinklers







### Features

- Available in ½" Male threaded
- Recommended Pressure 1.0 - 3.0 kg/cm<sup>2</sup> or 15-55psi
- Nozzle Bayonet connection for easy service in field conditions.
- Nozzles with integrated stream straightening vane for long range.
- Engineering Plastic material for durability and corrosion resistant.
- Pivot pin and Springs made of Stainless steel.
- Require filtration due to smaller size of nozzles.
- Recommended Pressure 1.0 - 8.0 kg/cm<sup>2</sup>
- Recommended spacing up to 8m for higher distribution uniformity.
- Trajectory Angle: 12°

### Application

- Low angle plastic sprinkler, Low volume, fast rotation, for irrigation of undertree, bananas, vineyards, plantation and micro-climatic condition for use in orchards.

Performance Table

Nozzle (mm)	Pressure		Coverage Diameter		Discharge Rate		MSH
	kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM	cm
1.8 	1	14.22	13	42.64	2.42	0.64	80
	1.5	21.33	15	49.20	2.85	0.75	
	2	28.44	16.0	52.48	3.25	0.86	
	2.5	35.55	16.0	52.48	3.60	0.95	
	3	42.66	16.0	52.48	4.00	1.06	
*2.0 	1	14.22	13.5	44.28	2.79	0.74	95
	1.5	21.33	15.5	50.84	3.42	0.90	
	2	28.44	16.5	54.12	3.95	1.04	
	2.5	35.55	16.5	54.12	4.41	1.17	
	3	42.66	16.5	54.12	4.83	1.28	
2.2 	1	14.22	14.0	45.92	3.33	0.88	100
	1.5	21.33	16.0	52.48	4.08	1.08	
	2	28.44	17	55.76	4.72	1.25	
	2.5	35.55	17	55.76	5.27	1.39	
	3	42.66	17	55.76	5.77	1.53	
2.5 	1	14.22	14.5	47.56	4.00	1.06	105
	1.5	21.33	16.5	54.12	4.90	1.29	
	2	28.44	17.5	57.40	5.66	1.49	
	2.5	35.55	17.5	57.40	6.33	1.67	
	3	42.66	17.5	57.40	6.93	1.83	

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

\* Standard Nozzle; msh = Max. Stream Height (above nozzle)



# AQ - 20 (Hybrid)

## Overhead Sprinkler



### Features

- 3/4" BSP/NPT male threaded inlet connection.
- Body & Arm made of durable light weight engineering plastic for low pressure application.
- Heavy duty Brass Nut, Tube & nozzle for long life.
- Stainless Steel Pivot Pin, Springs.
- Plastic Arm with 2nos. Press fitted plated weight for good impact balancing & avoid wind effect .
- Bearing & Sealing washers are made of special material for extending life.
- Recommended Pressure 1.0 - 3.0 kg/cm<sup>2</sup> or 15 - 45Psi
- Recommended spacing up to 12m for higher distribution uniformity.
- Trajectory Angle: 24°

### Performance Table

Nozzle (mm)	Pressure		Coverage Diameter		Discharge Rate	
	kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
4.1* 3.17	1	14.22	19	62.32	18.83	4.97
	2	28.44	21	68.88	26.83	7.09
	3	42.66	22	72.16	32.83	8.67
4.36* 3.17	1	14.22	19	62.32	21.5	5.68
	2	28.44	22	72.16	29.67	7.84
	3	42.66	24	78.72	35.83	9.46
4.76* 3.17	1	14.22	21	68.88	23.5	6.21
	2	28.44	24	78.72	33	8.72
	3	42.66	25	82	40.67	10.74
5.15* 3.17	1	14.22	24	78.72	25.33	6.69
	2	28.44	25	82	36.17	9.55
	3	42.66	26	85.28	44.5	11.75

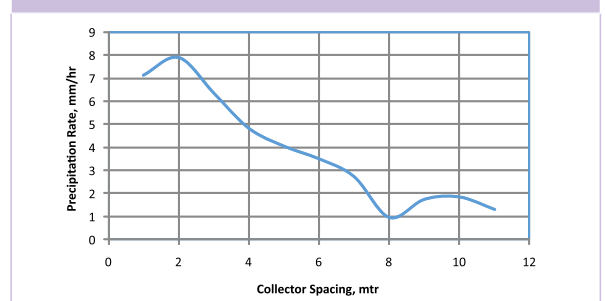
\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

### Application

- All crops irrigation compatible by overhead irrigation on Solid set, permanent set, hard lines, portable lines etc.
- Use for low pressure agriculture field, fruit farming and vegetable farming.

Nozzle Size : 4.1x3.1mm Pressure: 2.0 kg/cm<sup>2</sup>

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
9.0 x 9.0	89%	83%	1.2	16.6
10.0 x 10.0	91%	85%	1.2	13.4
11.0 x 11.0	89%	85%	1.3	11.1
12.0 x 12.0	88%	83%	1.2	9.3

# AQ-20AFLA

## Overhead Sprinkler



### Features

- 3/4" BSP/NPT male threaded Inlet connection
- Durable Bronze body and arm.
- Heavy duty Brass Nut & Tube.
- Two Brass Nozzles.
- Stainless Steel Pivot Pin, Springs.
- Bridgeless body design for non accumulation of ice on sprinkler.
- Specially designed SS spring for fast rotation to prevent ice formation on leaves.
- Top and bottom springs protect by cap from ice accumulation.
- Top spring cap and bottom cap made of special material to sustain sub zero temp.
- Recommended Pressure 2.0 - 5.0 kg/cm<sup>2</sup> or 30 - 70Psi
- Trajectory Angle: 7° and 7°
- Recommended spacing : 10X10m

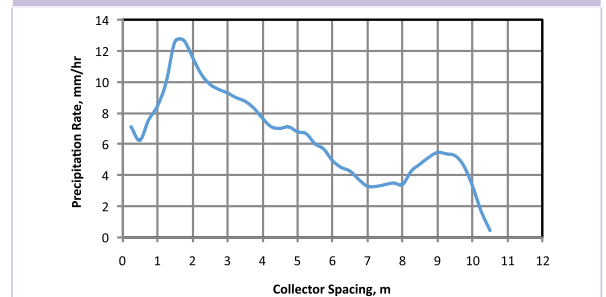
### Performance Table

Nozzle (mm)	Nozzle (Inch)	Pressure		Coverage Diameter		Discharge Rate	
		kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
3.96 x 2.38	5/32" x 7/64"	2	28.44	18	59	21.89	82.88
		3	42.66	21	68.9	27.3	103.36
		4	56.88	23	75.4	31.34	118.65
		5	71.1	25.5	83.6	35.05	132.7
4.36 x 2.38	11/64" x 7/64"	2	28.44	18	59	24.06	91.09
		3	42.66	21.5	70.5	30.75	116.42
		4	56.88	23	75.4	34.97	132.4
		5	71.1	25.5	83.6	37.11	140.5
4.76 *3.17	3/16" x 1/8"	2	28.44	18.5	60.7	28.96	109.64
		3	42.66	22	72.2	35.95	136.11
		4	56.88	23.5	77.1	41.96	158.86
		5	71.1	28	91.8	46.5	176.05
5.15 x 3.17	13/64" x 1/8"	2	28.44	18.5	60.7	32.15	121.72
		3	42.66	22	72.2	39.86	150.91
		4	56.88	24	78.7	46.13	174.65
		5	71.1	28.5	93.5	51.81	196.15

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Nozzle Size: 3.96x2.38 mm Pressure: 3.0 kg/cm<sup>2</sup>

### Distribution Curve



Spacing (m)	CU%	DU%	SC(5%)	APR
9 x 9	89%	84%	1.3	20.22
10 x 10	89%	82%	1.3	16.38
11 x 11	83%	74%	1.3	13.54
12 x 12	81%	73%	1.4	11.38



# AQ - 22U

Agristand Sprinklers



## Features

- Available in 1/2" Male threaded
- Square Yellow main nozzle & Slit design spray nozzle.
- Nozzle Bayonet connection for easy service in field condions.
- Nozzle designed for excellent distribution uniformity.
- Graphite bottom washer for smooth and consistent rotation.
- Recommended Pressure 2.0 - 4.0 kg/cm<sup>2</sup> or 28.45 -56.85Psi
- Recommended spacing up to 10m for higher distribution uniformity.
- Trajectory Angle: 24°

## Application

- All row crops irrigation compatible by overhead irrigation on permanent solid set systems.
- Agriculture fields and germination of vegetable, flowers and nursery crops.
- Specially used for tubular crops/leafy vegetable.

## Performance Table

Nozzle (mm)	Pressure		Coverage Diameter		Discharge Rate	
	kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
2.3x1.8	2	28.44	19.6	64.29	7.67	2.03
	2.5	35.55	20	65.6	8.5	2.25
	3	42.66	20.4	66.91	9.33	2.46
	3.5	49.77	20.6	67.57	10	2.64
2.4x1.8	1	14.22	17.5	57.4	6.4	1.7
	1.5	21.33	18	59.04	7.9	2.09
	2	28.44	19	62.32	8.9	2.36
	2.5	35.55	19.5	63.96	10	2.64
2.5x1.8	3	42.66	20	65.6	10.9	2.88
	2	28.44	20	65.6	8.67	2.29
	2.5	35.55	20.6	67.57	9.67	2.55
	3	42.66	21	68.88	10.67	2.82
2.5x1.8	3.5	49.77	21.4	70.19	11.33	2.99
	4	56.88	21.6	70.85	12.17	3.21

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Spacing (m)	CU%	DU%	SC(5%)	APR
8.0 x 8.0	94%	91%	1.2	8.3
9.0 x 9.0	92%	86%	1.2	6.6
8.0 x 10.0	92%	87%	1.3	6.7
9.0 x 10.0	91%	86%	1.2	5.9
10.0 x 10.0	92%	89%	1.1	5.3

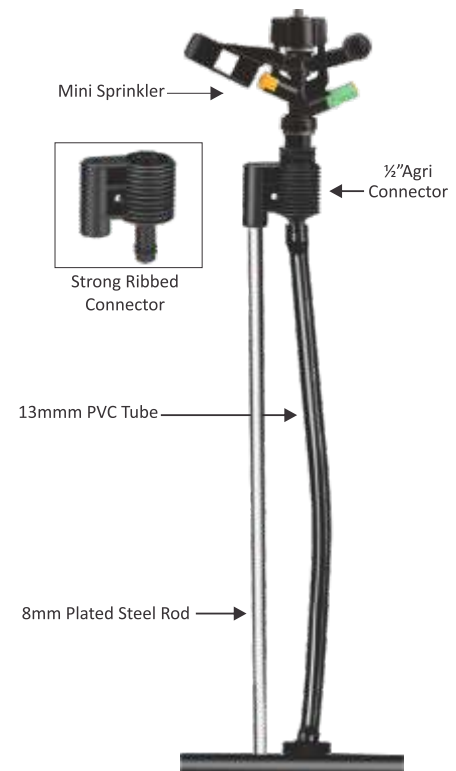
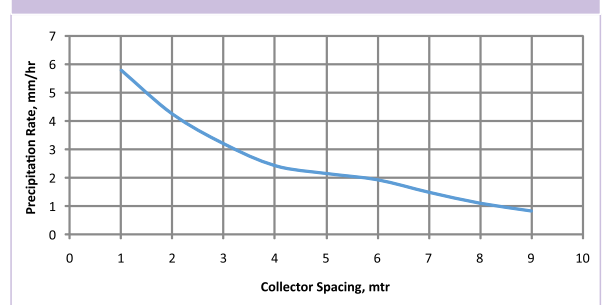
### Slit Nozzle



- Specially Design Spray Milling Nozzle For Higher Distribution Uniformity at low pressure.
- Solution For Dry Patches In The Field.

Nozzle Size: 2.4mm Square x 1.8mm Slit Pressure: 2.0kg/cm<sup>2</sup>

### Distribution Curve



# Aquaturf

## Impact Pop-up Sprinklers



### Features

- Interchangeable, bayonet color coded nozzles.
- No tools required to change nozzle.
- Heavy-duty plastic case with reinforced ribbed design for excellent gripping.
- Adjustable to full-circle or part circle.
- Diffuser screw for fine droplets & throw control.
- Double-weighted arm for balance and smooth rotation.
- No back splash during sprinkler running.
- Sand resistant pressure activated wiper seal.
- High Impact strength of pop-up top.
- Excellent distribution uniformity.

### Application

- Pop-up sprinkler for underground installation in landscaping, residential park, public lawn irrigation.

### Performance Table

Nozzle (mm)	Pressure		Coverage Diameter		Discharge Rate	
	kg/cm <sup>2</sup>	Psi	mtr.	ft.	LPM	GPM
2.9 Orange	2	28.4	22.5	74	7.6	29
	2.5	35.6	23.5	77	8.5	32
	3	42.7	23.8	78	9.3	35
	3.5	49.8	24	79	10.1	38
	4	56.9	24.5	80	10.8	41
3.2 Green	2	28.4	22.8	75	9.4	36
	2.5	35.6	23.8	78	10.6	40
	3	42.7	24.5	80	11.7	44
	3.5	49.8	25	82	12.6	48
	4	56.9	25.2	83	13.4	51
3.5 Blue	2	28.4	23	75	11.3	43
	2.5	35.6	24	79	12.7	48
	3	42.7	24.8	81.3	14.1	53.3
	3.5	49.8	25.3	83	15.1	57
	4	56.9	25.5	84	16.3	62
4.0 Black	2	28.4	23.2	76	14.4	55
	2.5	35.6	24	79	16	61
	3	42.7	25	82	17.4	66
	3.5	49.8	25.5	84	18.8	71
	4	56.9	25.5	84	19.9	75

\*Performance is based on ideal conditions of Temperature, wind velocity and Humidity.

Spacing (m)	CU	DU	SC(5%)	APR
10.0 x 10.0	92	89	1.1	7.6
11.0 x 11.0	89	83	1.3	6.3
10.0 x 12.0	90	86	1.2	6.4
12.0 x 12.0	90	84	1.5	5.3

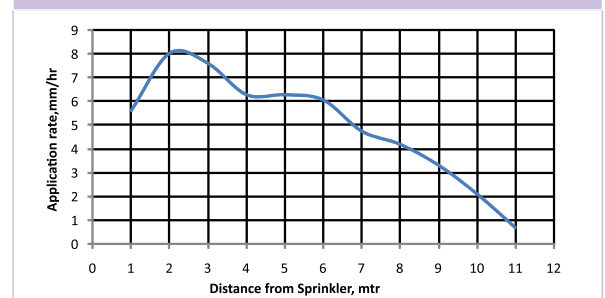
\*Version with Check Valve is also available

### Technical Specifications

- Discharge: 456-1192 L/H
- Diameter: 22.5 -25.5 mtr
- Operating pressure: 2.0-4.0 kg/cm<sup>2</sup>
- Bottom Inlet connection ½" & ¾" female threaded
- Nozzles available in sizes 2.9, 3.2, 3.5 & 4.0 mm
- Trajectory Angle: 25 degree
- Arc Adjustment range 15 - 345 degree
- Spacing between sprinkler: upto 12m for excellent uniformity.
- **Pop up with optional check valve also available.**

Nozzle: 3.5mm Pressure: 2.5 kg/cm<sup>2</sup>

#### Distribution Curve



E-mail: [contactus@automatworld.com](mailto:contactus@automatworld.com)  
 Website: [www.automatworld.com](http://www.automatworld.com)

*Creating a Green World*

# Sprinkler Saddle With Stabilizer

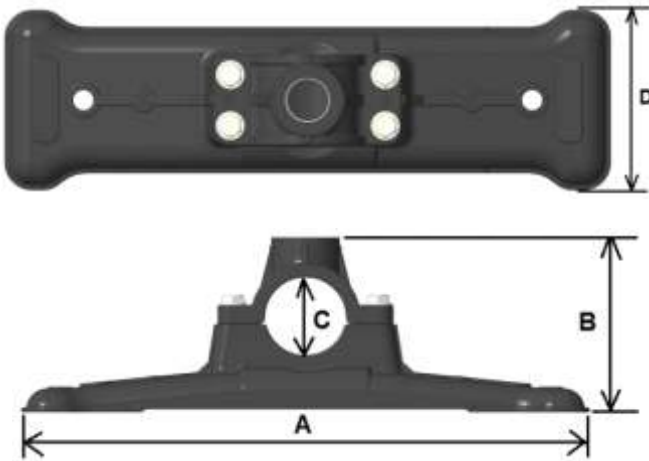


## Saddle Features

- Suitable for ½" & ¾" sprinkler installation at the riser stand.
- Stabilizer designed for excellent gripping in the field with minimal riser vibration.
- O-ring in saddle avoid leakage at minimum pressure.
- Fast installation and easy to use in the field.
- Saddle with SS ring and metal inserted thread bush as optional model.
- Polypropylene material gives excellent strength and flexibility to achieve excellent functionality.
- UV resistant material for long life.

## Technical Details

- Working pressure: 0.5 - 4 kg/cm<sup>2</sup>
- Pipe Size OD: 40mm/50mm/63mm/75mm
- Riser connection Size: ½" & ¾" Female threaded



## Dimension (mm)

S. No	Saddle Size	A	B	C	D
1	40	356	91	40	106
2	50	356	110	50	106
3	63	356	116	63	106
4	75	356	130	75	106

# Plastic Spanner/ Bayonet nozzle opener



Spanner - AQ-22



Spanner - AQ-46

## Features

- ½" & ¾" Sprinkler tightening/opening from the riser.
- Compatible to completely dismantle the ½" & ¾" Plastic Sprinkler.
- Made of good quality Engineering Plastic material.
- Do not slip or expand during tightening of sprinklers on riser.



# Universal Adopter



## Features

- One end have two threads connection gives end user multi choice.
- Another end have either 1/2" or 3/4" as per requirement.
- Glass reinforced polypropylene material for socket strength.
- At higher pressure the socket will not come out from riser.
- Applying high torque during tightening, No cracks developed.
- UV & chemical resistant for durability.

## Technical Specifications

- Two Sockets available as per threads connection  
(3/4"/1") x 1/2"  
(3/4"/1") x 3/4"
- Max. working Pressure upto 6bar

---

# Sprinkler Locking Adopter & Key



## Features

- Adopter are design to stop sprinkler theft from the field.
- Installation of adopter on each riser protect each sprinkler.
- Key designed with special features, only to open sprinkler from the riser.
- Without key, sprinkler can not loosen from the riser.

## Technical Specifications

- Adopter: 20mm (ISO standard) x 1/2" female threaded
- Adopter: 20mm (ASTM standard) x 1/2" female threaded
- Max. Working Pressure 4 bar
- High grade PVC material for durability.
- UV & chemical resistant.

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# Quick Coupling Sockets



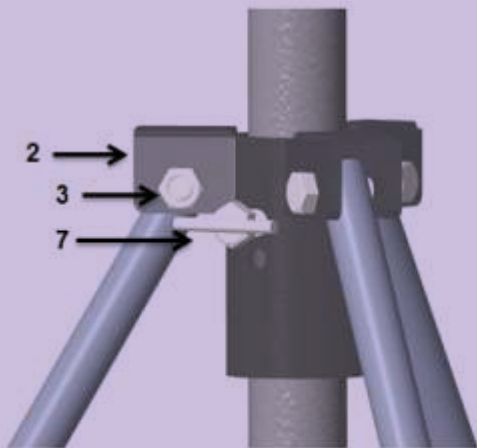
## Application

- For the easy installation of 3/4" impact sprinkler on Riser.

## Features

- Available in 3/4" connection.
- 2 part design.
- Made of Engineering plastic for long life.
- Turn & Lock design without leakage during running.
- Fast & easy couple sprinklers on riser.

# GI Stand



## Features

- Available in 1¼", 1½" & 2" connection.
- Gun stand riser also available in 1½ & 2 meter height or as per requirement.
- Galvanized riser pipe for long life.
- Excellent Bracket design to firmly hold legs & riser pipe.
- Bottom of legs designed to firm gripping within the soil.
- Foot press disc in each legs to penetrate legs smoothly into the soil.
- Lock screw provided into the bracket to hold riser pipe firmly.

## Application

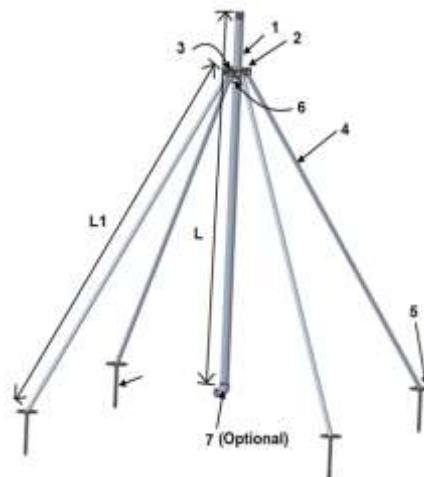
- For the installation of Raingun sprinklers to irrigate large farm areas.

### Dimension (mm)

L1	Leg Length (Upto Disc)	1396
L2	Leg Total Length	1498
L	Riser Total Length	1496

### Part Descriptions

Part No.	Part Name	Material	Quantity
1	Riser Pipe	G.I.	1
2	Bracket	C.I.	1
3	Nut & Bolt	M.S. Plated	3 each
4	Legs	G.I. Pipe	4
5	Foot Press Disk	Mild Steel	3
6	Lock Screw	M.S. Plated	1
7	Elbow (Optional)	G.I. Elbow	1



# Gun Stand Coupling



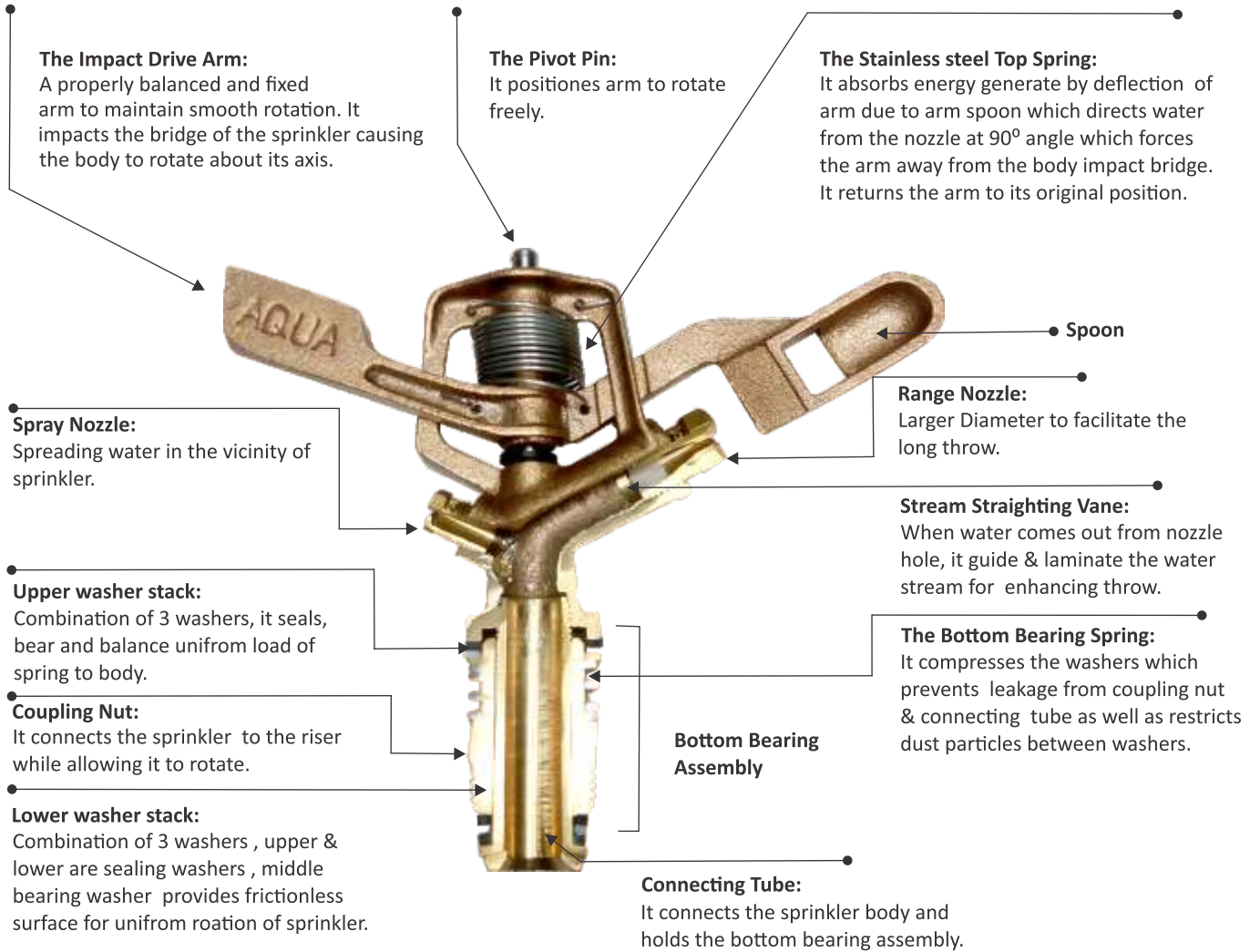
## Features

- Available in 1¼" & 1½" connection.
- 2 part design.
- made of Aluminum with power coating for long life.
- Self locking by Spring loaded Brass Button lock.
- Fast & easy couple raingun on riser.

## Application

- For the easy installation of Raingun impact sprinkler on gun stand.


# Sprinkler Components





# Weight Chart


Sprinklers					
Model No.	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
AQ-5LA7	WITH 2.38MM NOZZLE	25120053	75	410x305x360	19.125
AQ 5N7W	WITH 3.17MM NOZZLE	25120562	75	410x305x360	19.13
AQ-5N15	WITH 2.7MM NOZZLE	25120563	75	410x305x360	18.68
AQ-5N23	WITH 2.77MM NOZZLE	25120375	75	410x305x360	18.53
AQ-5N23W	WITH 2.38	25120346	75	410x305x360	19.13
AQ-5NWSL	WITH 3.97MM X 2.38MM NOZZLE	25120564	75	410x305x360	21.68
AQ-5N25	WITH 3.17	25120397	75	410x305x360	18.83
AQ-5DN	WITH 3.57MM X 2.5MM	25120283	75	410x305x360	17.93
AQ-05PC BASDA	WITH BRONZE ARM 3.17MM	25120565	40	410x305x360	12.60
AQ-05PC ASDA	WITH ZINC ARM 3.17MM	25120566	40	410x305x360	12.40
AQ-23M	WITH 3.5MMX 2.4MM	25120567	-	-	-
AQ-23F	WITH 3.5MMX 2.4MM	25120568	-	-	-
AQ-15M	WITH 5.0MM X 3MM	25120569	50	610x204x305	17.80
AQ-15F	WITH 5.0MM X 3MM	25120570	50	610x204x305	18.20
AQ-20CS	WITH 5.15MM X 3.17	25120289	50	410x305x360	22.10
AQ-20CSB	WITH 5.15MM X 3.17	25120103	50	410x305x360	21.85
AQ-20(HYBRID)	WITH 4.1MM X 3.1MM	25120571	60	400x300x350	20.6
AQ-20LA	WITH 4.76MM X 3.17MM	25120572	50	410x305x360	23.48
AQ-20AF	WITH 4.36MM X 3.17MM	25120064	25	410x305x360	13.85
AQ-20LA(AF)	WITH 3.96MM X 2.38MM	25120573	50	410x305x360	-
AQ-25M	WITH 5.55MM X 3.17MM	25120574	20	410x305x360	15.00
AQ-25F	WITH 5.55MM X 3.17MM	25120575	25	410x305x360	16.28
AQ 20PCASDA	WITH 4.36MM X 2.38MM	25120576	20	640x365x200	15.48
AQ 30F	WITH 7.94MM X 5.55MM	25120474	20	410x305x360	21.15
AQ 30M	WITH 6.35MM X 4.76MM	25120365	10	410x305x360	13.90
AQ 30B	WITH 8.73MM X 3.17MM	25120338	10	410x305x360	14.10
AQ 30BPC	WITH 6.35MM X 3.17MM	25120127	10	410x305x360	16.06
AQ-35F	WITH 6.5MM X 4.8MM	25120577	20	440x440x305	16.30
AQ 40M	WITH 10.32MM X 5.55MM	25120177	10	370x260x330	15.20
AQ 40MPC	WITH 12MM	25120069	5	674x292x267	10.50
AQ 40B	WITH 9.53MM X 5.55	25120300	5	410x305x360	11.38
AQ 40BPC	WITH 9.53MM X 5.55	25120301	5	410x305x360	13.28
AQ 40G	1¼" Water Gun, Penguin, Nozzle: 12mm x 4mm	25120155	5	394x356x235	8.8
AQ 42G	1½" Water Gun, Pelican, Nozzle: 14mm x 5mm	25120071	5	560x460x280	16.1
AQ 44G	2" Water Gun	25120405	4	610x458x380	18.1
-	Gun stand coupling	25120579	-	-	-


# Weight Chart


AQ-22 SPRINKLER					
Product	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	WITH 3.2MM X 1.8MM	18040054	200	400x300x350	11.31

AQ-22 WITH TUBE ASSEMBLY					
Product	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	WITH 2.4MM X 1.8MM NOZZLE + TUBE ASSEMBLY WITHOUT STAKE	18040487	60	445X340X285	9.38
	STEEL ROD	25120248	50	1219.2X152.4X152.4	20.3
	TUBE ASSEMBLY FOR AQ-22	18040002	80	445X340X285	8.82

AQ-22W					
Product	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	WITH 2.5 X 1.8	18040509	200	400X300X350	11.51

AQ-22LA							
Product	Description	Automat ERP Code			PCS/BOX	Box Dimension (mm)	Gross Weight
	WITH 2.5MM	9 DEGREE	12 DEGREE	14 DEGREE	200	400X300X350	10.51
		18040101	18040102	18040103			

AQ-22 LAW					
Product	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	WITH 2MM NOZZLE	18040509	200	400X300X350	11.51

AQ-22PC						
Product	Description	Automat ERP Code		PCS/BOX	Box Dimension (mm)	Gross Weight
	WITH 3.5MM	GARDEN MODEL	AG MODEL	100	400X300X350	8.21
		18060131	18060090			



# Weight Chart

## AQ-46

Product	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	WITH 4.36MM X 2.38MM MILLING	18050095	80	400X300X350	11.51

## AQ-46 BRASS NOZZLE

Product	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	WITH 4.36MM X 2.38MM MILLING	18050080	80	400X300X350	12.51

## AQ-46PC

Product	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	WITH 4.36MM X 2.38MM MILLING	18060076	50	400X300X350	9.2


## AQ-46PC BRASS NOZZLE

Product	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	WITH 4.36MM X 2.38MM MILLING	18060082	50	400X300X350	10.2

## AQ-46


Product	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	WITH 4.36MM X 2.38MM MILLING	18050095	80	400X300X350	11.51

## AQ-30P

Product	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	WITH 7 X 4.5PLASTIC NOZZLE	18050092	40	400X300X350	10.22

# Weight Chart

## AQ-405 POP UP

Product	Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
	POP UP	18060124	10	690X290X280	7.25
	POP UP WITH CHECK VALVE	18060135	10	690X290X280	7.25

## SPRINKLER ASSESORIES

Description	Automat ERP Code	PCS/BOX	Box Dimension (mm)	Gross Weight
Universal Adopter (3/4"/1") x 1/2"	12010077	400	445 x 345 x 285	11.72
Universal Adopter (3/4"/1") x 3/4"	12010076	400	445 x 345 x 285	10.7
1" x 1/2" socket	12420012	500	445 x 345 x 285	10.0
1" x 3/4" socket	12440007	400	445 x 345 x 285	11.0
3/4" x 3/4" hex socket	12440017	500	445 x 345 x 285	10.5
3/4" quick coupling socket()	18000001	400	540 x 395 x 260	12.8
Anti theft adopter plain+key	12030272	1000+20	547 x 362 x 327	16.4
anti theft key plain	12030274	NA	NA	NA
M46 Spanner	12010035	50	220 x 230 x 175	0.86
M22 Spanner	12030273	50	220 x 230 x 175	1.35
M22 Nozzle key	50100655	70	130x120x150	0.6
M46 Nozzle key	50100781	50	130x120x150	0.65
63mm Saddle	25000059	60	735x375x360	20.1
75mm Saddle	25000060	50	735x375x360	18.4
3/4" Plastic Riser Complete	25000079	100	445 x 345 x 285	11.5

## Warranty & Disclaimer

Automat products are warranted for one year from date of original sale to be free of defective materials and workmanship when used within the working specifications for which the product was designed and under normal use and service. The manufacturer assumes no responsibility for installation, removal or unauthorized repair. The manufacturer's liability under this warranty is limited solely to replacement or repair of defective parts, and the manufacturer will not be liable for any crop or other consequential damages resulting from any defects in design or breach of warranty.

