HR PRODUCTS

AGRICULTURAL

SPRINKLER CATALOGUE

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EIN-DOR MINI UNDERTREE SPRINKLERS

86X Series

841PC Series

EINDOR 86X SERIES MINI SPRINKLERS

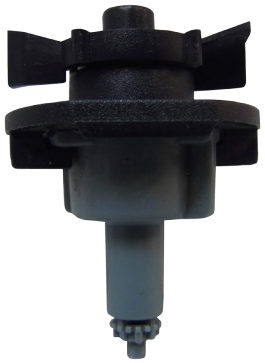
Advanced mini sprinklers with unique patented mechanism, firm construction without a bridge allows uniform distribution and excellent performance across a wide range of conditions.

Features

- Anti-Insect design - swivel seals the nozzle once water shuts off
- Integral nozzle filter - Protects the nozzle from particles in the water
- Strong propulsion helps with smooth even operation
- No bridge design allows high uniformity
- Large droplets for added wind resistance

Applications

- 861 used for irrigation of mature trees with large root zone
- 862 used for irrigation of young or mature trees with small root zone
- 863 used for irrigation of young or mature trees that require small diameter coverage, can be supplied with radius reducer for new plantings.



Specifications

- Wide range of nozzle flows 20 - 160lph
- Nominal flow rate at 200kPa
- Working pressure 100 - 300kPa
- Optimal working pressure range 140 - 220 kPa
- Wetting diameter 0.3 - 9.0m
- Optional pressure regulator available

86X Wetting Diameter at 200kPa					
Nozzle	Flow Rate LPH	861	862	863	863R
0.9mm**	20			3.8	0.3
0.8mm	35	5.5	3.8		
0.9mm	40	5.5	4.6	4.6	0.4
1.2mm**	50			5.0	0.5
1.0mm	50	6.3	5.5		
1.1mm	60	6.9	5.7		
1.2mm	70	7.0	6.0		
1.3mm	90	7.0	6.5		
1.4mm	105	7.5	6.5		
1.5mm	120	8.1	6.5		
1.7mm	140	8.5	7.0		
1.8mm	160	9.0	7.2		

**With flow regulator, provides bigger droplet size

Check with HR Products for all order codes

EINDOR 841PC SERIES FLOW REGULATED MINI SPRINKLERS

For the past 40 years Ein-dor products have been in the forefront of technology and innovation when it comes to micro sprinkler irrigation. The new flow regulated 800 series sprinklers are known for their excellent performance, accuracy and uniform water distribution and can be supplied to a wide range of flow rates and wetting diameters designed for use in nurseries, orchards, citrus groves, banana plantations, avocado and stone fruits, frost protection and cooling systems.

Features

- High performance flow regulated single bridge emitters
- Anti-Insect protection, swivel shuts down when system is off sealing the nozzle
- Uniform flow rates over 150kPa to 400kPa pressure range
- Large wetting diameters
- Robust bridge design for open field conditions
- Uniform distribution in a wide range of flow rates
- Large droplet size helps minimize wind drift
- Single jet swivel provides strong propulsion in harsh conditions

Technical Specifications

- Wide regulated flow range 20lph - 105lph
- Available flow rates 35, 50, 70, 90 and 105lph
- Flow regulated operating pressure 150kPa - 400kPa
- Wetting diameter 5 - 7m

841 flow regulated mini sprinklers on 60cm 4/7 tube and double plunger, flow rate at 200kPa		Diameter at 200kPa
35lph pressure compensated mini sprinkler PURPLE	6705841PC35	4.6
50lph pressure compensated mini sprinkler BLACK	6705841PC50	6.0
70lph pressure compensated mini sprinkler GREEN	6705841PC70	6.8
90lph pressure compensated mini sprinkler BLUE	6705841PC90	6.9
105lph pressure compensated mini sprinkler RED	6705841PC105	7.1

Check with HR Products for all order codes
Also available as a head only

IMPACT SPRINKLERS

Plastic

Brass

15MM PLASTIC IMPACT SPRINKLER

Part Circle

Economical part circle sprinkler for landscapes,
small horticultural, nursery and greenhouse irrigation

Features

- Plastic (Delrin) sprinkler
- Part-circle (can be adjusted to full circle)
- Stream deflector and Diffuser Pin
- Anti-splashback arm
- 25° Trajectory
- Colour nozzles for ease of identification (sold separately)

VYR-802 - Single Nozzle Performance Table						
	3.0mm		3.5mm		4.0mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
150	7.5	10.0	9.7	10.5	**12.2**	**11.0**
200	8.5	10.5	11.0	11.0	**14.2**	**11.5**
250	9.2	11.0	12.3	11.5	**15.8**	**12.0**
300	10.5	11.5	13.5	11.5	**17.2**	**12.0**
350	11.3	11.5	14.5	12.0	**18.5**	**12.5**
400	12.0	12.0	15.5	12.5	**19.7**	**13.0**

Part No.	Description
VYR-802	15mm Plastic Impact Sprinkler Part Circle - Single Nozzle

* Nozzles sold seperately
* **Standard nozzle configuration**
* Please specify nozzle when ordering

■ Operation within the grey area is not recommended
■ Performance table prepared under test conditions
■ For windy conditions use closer spacing

15MM PLASTIC IMPACT SPRINKLER

Full Circle

The sprinkler VYR-1610 is a 15mm male connection, low flow sprinkler specifically designed to operate under extreme temperature conditions

Features

- 15mm Male BSP thread
- Plastic (Delrin) sprinkler
- Single or double nozzle (bayonet)
- 8° Trajectory main nozzle
- 26° Trajectory secondary nozzle
- Colour nozzles for ease of identification (sold separately)

VYR-1610 - Single Nozzle Performance Table

	2.0mm		2.4mm		2.5mm		2.8mm		3.0mm		3.2mm		3.6mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
150	2.8	10.5	4.5	10.5	5.8	10.5	**6.2**	**10.5**	7.1	11.0	8.0	11.25	10.0	11.25
200	3.3	10.75	5.3	10.75	6.5	10.75	**7.2**	**10.75**	8.2	11.25	9.3	11.5	11.6	11.5
250	3.7	11.0	5.9	11.0	6.9	11.0	**8.1**	**11.0**	9.2	11.25	10.3	11.75	13.1	11.75
300	4.0	11.75	6.5	11.75	7.2	11.75	**8.8**	**11.75**	10.0	11.5	11.3	12.0	14.3	12.0
350	4.2	11.75	7.0	11.75	7.8	11.75	**9.5**	**11.75**	10.8	11.5	12.3	12.0	15.6	12.0

VYR-1610 - Dual Nozzle Performance Table

	2.4mm x 2.5mm		2.8mm x 3.0mm		3.2mm x 3.0mm		3.6mm x 3.0mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
150	8.2	10.5	**11.2**	**10.5**	13.0	11.25	15.8	11.25
200	9.5	10.75	**13.0**	**10.75**	15.1	11.5	18.2	11.5
250	10.6	11.0	**14.5**	**11.0**	16.8	11.75	20.5	11.75
300	11.6	11.75	**15.9**	**11.75**	18.3	12.0	22.4	12.0
350	12.6	11.75	**17.2**	**11.75**	19.9	12.0	24.2	12.0

Part No.	Description
VYR-1610	15mm Plastic Impact Sprinkler Full Circle - Dual Nozzle

* Nozzles sold seperately
* **Standard nozzle configuration**
* Please specify nozzle when ordering

* Performance table prepared under test conditions
* For windy conditions use closer spacing

15MM PLASTIC IMPACT SPRINKLER

Full Circle

Low precipitation sprinkler ideal for irrigation and germination of vegetables, flowers and nurseries. Suitable for lateral line systems.

Features

- Full circle sprinkler
- Plastic (Delrin) sprinkler
- 15mm male thread
- Dual Bayonet nozzle (option)
- Single nozzle and plug (option)
- 24° Trajectory main nozzle
- 18° Trajectory rear nozzle
- Nozzles sold separately

VYR-26 - Single Nozzle Performance Table

	2.4mm		2.5mm		2.8mm		3.0mm		3.2mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
200	4.0	10.5	4.6	10.5	5.0	10.5	**6.0**	**11.0**	6.5	11.2
250	4.6	10.7	5.4	10.5	5.7	10.7	**7.0**	**11.2**	7.5	11.5
300	5.0	11.0	5.8	11.0	6.5	11.0	**7.8**	**11.2**	8.3	11.7
350	5.8	11.2	6.5	11.2	7.0	11.2	**8.8**	**11.5**	9.1	12.0
400	6.1	11.2	7.0	11.2	7.5	11.2	**9.3**	**11.5**	10.0	12.0

VYR-26 - Dual Nozzle Performance Table

	2.5mm x 2.5mm		2.8mm x 2.5mm		3.0mm x 2.5mm		3.2mm x 2.5mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
200	8.0	10.5	9.0	10.5	**10.0**	**11.2**	10.6	11.1
250	9.2	10.8	10.3	10.7	**11.5**	**11.5**	12.0	11.5
300	9.8	11.0	11.6	11.0	**12.9**	**11.7**	13.4	11.7
350	10.8	11.2	12.8	11.2	**14.6**	**12.0**	15.0	12.0
400	11.6	11.2	13.6	11.2	**15.3**	**12.0**	16.1	12.0

Part No.	Description
VYR-26	15mm Plastic Impact Sprinkler Full Circle - Dual Nozzle

* Nozzles sold seperately
* **Standard nozzle configuration**
* Please specify nozzle when ordering

* Performance table prepared under test conditions
* For windy conditions use closer spacing

20MM PLASTIC IMPACT SPRINKLER

Part Circle

Economical part-circle sprinkler for agricultural sprinkler systems

Features

- 20mm Male BSP thread
- Plastic (Delrin) sprinkler
- Part circle (can be adjusted to full circle)
- 30° Trajectory main nozzle
- 11° Trajectory secondary nozzle
- Brass nozzles (sold separately)

VYR-66 - Single Nozzle Performance Table

	5/32" - 4.0mm		11/64" - 4.4mm		3/16" - 4.8mm		13/64" - 5.2mm		7/32" - 5.6mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
250	**15.7**	**12.8**	19.0	13.1	22.7	13.4	26.8	13.7	31.3	14.0
280	**16.8**	**13.1**	20.3	13.4	24.3	13.7	28.8	14.0	33.5	14.3
320	**17.8**	**13.4**	21.2	13.7	25.8	14.0	30.5	14.3	35.7	14.6
350	**18.8**	**13.7**	22.7	14.0	27.2	14.3	32.2	14.6	37.3	14.9
390	**19.7**	**13.7**	23.8	14.0	28.3	14.3	33.5	14.6	39.0	14.9
420	**20.5**	**14.0**	24.8	14.3	29.7	14.6	34.8	14.9	40.2	15.3

VYR-66 - Dual Nozzle Performance Table

	5/32" x 3/32" - 4.0mm x 2.4mm		11/64" x 3/32" - 4.4mm x 2.4mm		3/16" x 3/32" - 4.8mm x 2.4mm		3/16" x 1/8" - 4.8mm x 3.2mm		13/64" x 1/8" - 5.2mm x 3.2mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
180	**21.6**	**12.8**	24.6	13.1	28.8	13.4	32.9	13.4	37.1	13.7
210	**23.1**	**13.1**	26.5	13.4	31.0	13.7	35.6	13.7	39.7	14.0
250	**24.6**	**13.4**	28.3	13.7	32.9	14.0	38.2	14.0	42.4	14.3
320	**26.1**	**13.7**	29.9	14.0	34.8	14.3	40.1	14.3	44.6	14.6
350	**27.2**	**13.7**	31.4	14.0	36.3	14.3	42.0	14.3	46.5	14.6
420	**28.3**	**14.0**	32.5	14.3	37.8	14.6	43.5	14.6	48.4	14.9

Part No.	Description
VYR-66	20mm Plastic Impact Sprinkler Part Circle - Dual Nozzle

* Nozzles sold seperately
* **Standard nozzle configuration**
* Please specify nozzle when ordering
* Operation within the grey area is not recommended
* Performance table prepared under test conditions
* For windy conditions use closer spacing

20MM PLASTIC IMPACT SPRINKLER

Full Circle

Economical full circle sprinkler for solid set irrigation systems

Features

- Full Circle Plastic (Delrin) sprinkler
- 20mm Male Thread
- Dual Bayonet Nozzle (1/4 turn clip connection)
- 25° Trajectory (both nozzles)
- Colour nozzles for ease of identification (sold separately)

VYR-37 - Single Nozzle Performance Table

	9/64" - 3.6mm		5/32" - 4.0mm		11/64" - 4.4mm		3/16" - 4.8mm		13/64" - 5.2mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
180	11.0	13.1	**13.3**	**13.9**	16.0	14.7	19.0	15.0	22.3	15.4
210	12.0	13.5	**14.5**	**14.4**	17.5	15.0	20.8	15.3	24.6	15.7
250	12.8	13.8	**15.6**	**14.7**	19.0	15.3	22.6	15.6	26.8	16.0
320	14.5	14.2	**17.8**	**15.1**	21.5	15.7	25.8	16.2	30.5	16.6
350	15.3	14.4	**18.8**	**15.3**	22.6	15.9	27.0	16.3	32.1	16.9
420	16.5	14.7	**20.5**	**15.6**	24.8	16.2	29.6	16.6	34.8	17.4

VYR-37 - Dual Nozzle Performance Table

	9/64" x 3/32" - 3.6mm x 2.4mm		5/32" x 3/32" - 4.0mm x 2.4mm		11/64" x 3/32" - 4.4mm x 2.4mm		3/16" x 1/8" - 4.8mm x 3.2mm		13/64" x 1/8" - 5.2mm x 3.2mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
180	15.3	13.0	**18.3**	**13.8**	20.8	14.5	28.0	14.7	31.3	15.1
210	16.6	13.3	**20.0**	**14.2**	23.0	14.8	30.8	15.0	34.6	15.4
250	18.1	13.6	**21.6**	**14.5**	24.8	15.1	33.3	15.3	37.6	15.7
320	20.8	14.1	**24.5**	**15.0**	28.1	15.6	38.0	15.9	42.8	16.3
350	22.1	14.2	**25.8**	**15.2**	29.8	15.7	40.0	16.0	45.0	16.6
420	24.0	14.5	**28.3**	**15.4**	32.5	16.0	43.8	16.3	49.0	17.1

Part No.	Description
VY37	20mm Plastic Impact Sprinkler Full Circle - Dual Nozzle

* Nozzles sold seperately
* **Standard nozzle configuration**
* Please specify nozzle when ordering
* Operation within the grey area is not recommended
* Performance table prepared under test conditions
* For windy conditions use closer spacing

20MM PLASTIC IMPACT SPRINKLER

Full Circle

Economical full circle sprinkler for solid set irrigation systems

Features

- 20mm Male BSP thread
- Plastic (Delrin) sprinkler
- Full Circle
- 25° Trajectory (both nozzles)
- Brass nozzles (sold separately)
- Hooded spring for frost protection

VYR-36AF - Single Nozzle Performance Table

	9/64" - 3.6mm		5/32" - 4.0mm		11/64" - 4.4mm		3/16" - 4.8mm		13/64" - 5.2mm		7/32" - 5.6mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
180	11.0	13.1	**13.3**	**13.9**	16.0	14.7	19.0	15.0	22.3	15.4	25.8	15.6
210	12.0	13.5	**14.5**	**14.4**	17.5	15.0	20.8	15.3	24.6	15.7	28.6	16.0
250	12.8	13.8	**15.6**	**14.7**	19.0	15.3	22.6	15.6	26.8	16.0	31.3	16.5
320	14.5	14.2	**17.8**	**15.1**	21.5	15.7	25.8	16.2	30.5	16.6	35.6	17.4
350	15.3	14.4	**18.8**	**15.3**	22.6	15.9	27.0	16.3	32.1	16.9	37.3	17.8
420	16.5	14.7	**20.5**	**15.6**	24.8	16.2	29.6	16.6	34.8	17.4	40.1	18.4

VYR-36AF - Dual Nozzle Performance Table

	9/64" x3/32" - 3.6mm x 2.4mm		5/32" x 3/32" - 4.0mm x 2.4mm		11/64" x 3/32" - 4.4mm x 2.4mm		3/16" x 1/8" - 4.8mm x 3.2mm		13/64" x 1/8" - 5.2mm x 3.2mm		7/32" x 1/8" - 5.6mm x 3.2mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
180	15.3	13.0	**18.3**	**13.8**	20.8	14.5	28.0	14.7	31.3	15.1	35.0	15.3
210	16.6	13.3	**20.0**	**14.2**	23.0	14.8	30.8	15.0	34.6	15.4	38.6	15.7
250	18.1	13.6	**21.6**	**14.5**	24.8	15.1	33.3	15.3	37.6	15.7	42.0	16.2
320	20.8	14.1	**24.5**	**15.0**	28.1	15.6	38.0	15.9	42.8	16.3	48.0	17.1
350	22.1	14.2	**25.8**	**15.2**	29.8	15.7	40.0	16.0	45.0	16.6	50.3	17.5
420	24.0	14.5	**28.3**	**15.4**	32.5	16.0	43.8	16.3	49.0	17.1	54.5	18.1

Part No.	Description
VYR-36AF	20mm Plastic Impact Sprinkler Full Circle - Dual Nozzle

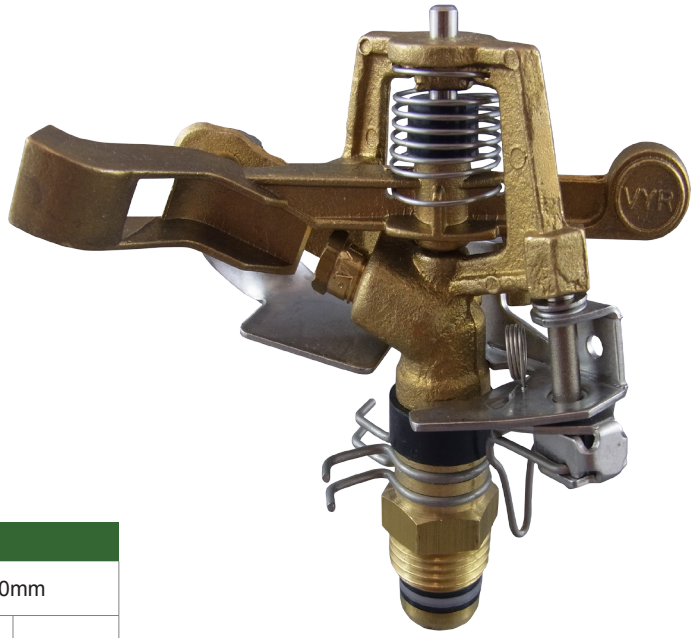
* Nozzles sold seperately
* **Standard nozzle configuration**
* Please specify nozzle when ordering

* Operation within the grey area is not recommended
* Performance table prepared under test conditions
* For windy conditions use closer spacing

15MM BRASS IMPACT SPRINKLER

Part Circle

Robust part circle sprinkler for landscapes, small horticultural, nursery and greenhouse irrigation



Features

- Brass sprinkler
- Part-circle (can be adjusted to full circle)
- Stream deflector and Diffuser
- Pin for radius adjustment
- Anti-splashback arm
- 24° Trajectory
- Brass nozzles (sold separately)

VYR-80 - Single Nozzle Performance Table						
	3.0mm		3.5mm		4.0mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
150	7.5	10.0	9.7	10.5	**12.2**	**11.0**
200	8.5	10.5	11.0	11.0	**14.2**	**11.5**
250	9.2	11.0	12.3	11.5	**15.8**	**12.0**
300	10.5	11.5	13.5	11.5	**17.2**	**12.0**
350	11.3	11.5	14.5	12.0	**18.5**	**12.5**
400	12.0	12.0	15.5	12.5	**19.7**	**13.0**

Part No.	Description
VYR-80	15mm Brass Impact Sprinkler Part Circle - Single Nozzle

* Nozzles sold seperately
* **Standard nozzle configuration**
* Please specify nozzle when ordering

* Operation within the grey area is not recommended
* Performance table prepared under test conditions
* For windy conditions use closer spacing

15MM BRASS IMPACT SPRINKLER

Full Circle

Robust economical full circle sprinkler for solid set irrigation systems

Features

- 15mm Male BSP thread
- Brass sprinkler
- Full Circle
- 24° Trajectory
- Brass nozzle (sold separately)

VYR-25 - Single Nozzle Performance Table				
	9/64" - 3.6mm		5/32" - 4.0mm	
kPa	LPM	RAD (m)	LPM	RAD (m)
140	9.5	7.0	**11.5**	**7.4**
180	10.6	7.4	**13.0**	**7.7**
210	11.7	7.7	**14.3**	**8.0**
250	12.7	8.0	**15.5**	**8.2**
280	13.6	8.2	**16.6**	**8.5**
320	14.5	8.5	**16.7**	**8.6**
350	15.2	8.6	**18.6**	**8.9**

Part No.	Description
VYR2511	15mm Brass Impact Sprinkler Full Circle - Single Nozzle

* Nozzles sold seperately
* **Standard nozzle configuration**
* Please specify nozzle when ordering

* Operation within the grey area is not recommended
* Performance table prepared under test conditions
* For windy conditions use closer spacing

20MM BRASS IMPACT SPRINKLER

Part Circle

Robust sectorial part circle sprinkler for land-scapes and ideal for field boundaries and edges

Features

- Brass sprinkler
- Part-circle (can be adjusted to full circle)
- Stream deflector and Diffuser
- Dual nozzle
- Secondary nozzle 12° Trajectory
- Main nozzle 24° Trajectory
- Brass nozzles (sold separately)

VYR-60 - Single Nozzle Performance Table

	5/32" - 4mm		11/64" - 4.4mm		3/16" - 4.8mm		13/64" - 5.2mm		7/32" - 5.6mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
180	13.2	12.2	**16.3**	**12.5**	18.9	12.8	22.0	13.1	26.1	13.4
210	14.8	12.5	**17.8**	**12.8**	20.8	13.1	24.2	13.4	28.8	13.7
250	15.9	12.8	**19.3**	**13.1**	22.7	13.4	26.1	13.7	31.4	14.0
280	17.0	13.1	**20.4**	**13.4**	24.2	13.7	28.0	14.0	33.7	14.3
320	18.3	13.4	**21.6**	**13.7**	25.7	14.0	29.9	14.3	35.6	14.6
350	19.3	13.7	**22.7**	**14.0**	27.3	14.3	31.8	14.3	37.5	14.9
390	20.1	13.7	**23.8**	**14.3**	28.4	14.3	33.3	14.6	40.0	14.9
420	20.8	14.0	**24.6**	**14.3**	29.5	14.6	34.8	14.9	40.5	15.3

VYR-60 - Dual Nozzle Performance Table

	9/64" x3/32" - 3.6mm x 2.4mm		5/32" x 3/32" - 4.0mm x 2.4mm		11/64" x 3/32" - 4.4mm x 2.4mm		3/16" x 1/8" - 4.8mm x 3.2mm		13/64" x 1/8" - 5.2mm x 3.2mm		7/32" x 1/8" - 5.6mm x 3.2mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
180	15.3	13.0	18.3	13.8	**20.8**	**14.5**	28.0	14.7	31.3	15.1	35.0	15.3
210	16.6	13.3	20.0	14.2	**23.0**	**14.8**	30.8	15.0	34.7	15.4	38.7	15.9
250	18.1	13.6	21.6	14.5	**24.8**	**15.1**	33.3	15.3	37.7	15.9	42.0	16.2
320	20.8	14.1	24.5	15.0	**28.1**	**15.6**	38.2	15.9	42.8	16.3	48.0	17.1
350	22.1	14.2	25.8	15.1	**29.8**	**15.7**	40.2	16.0	45.0	16.6	50.3	17.5
420	24.0	14.5	28.3	15.4	**32.5**	**16.0**	43.8	16.3	49.2	17.1	54.5	18.1

Part No.	Description
VYR-60	20mm Brass Impact Sprinkler Part Circle - Dual Nozzle

* Operation within the grey area is not recommended
* Performance table prepared under test conditions
*** Standard nozzle configuration**

* Nozzles sold seperately
* Please specify nozzle when ordering

20MM BRASS IMPACT SPRINKLER

Full Circle

Robust brass full circle sprinkler for solid set irrigation systems, overhead and portable sprinkler systems

Features

- 20mm Male BSP thread
- Brass sprinkler
- Full Circle
- 26° Trajectory (both nozzles)
- Brass nozzles (sold separately)

VYR-35 - Single Nozzle Performance Table

	9/64" - 3.6mm		5/32" - 4.0mm		11/64" - 4.4mm		3/16" - 4.8mm		13/64" - 5.2mm		7/32" - 5.6mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
180	11.0	13.1	13.3	13.9	**16.0**	**14.7**	19.0	15.0	22.3	15.4	25.8	15.6
210	12.0	13.5	14.5	14.4	**17.5**	**15.0**	20.8	15.3	24.6	15.7	28.6	16.0
250	12.8	13.8	15.6	14.7	**19.0**	**15.3**	22.6	15.6	26.8	16.0	31.3	16.5
320	14.5	14.2	17.8	15.1	**21.5**	**15.7**	25.8	16.2	30.5	16.6	35.6	17.4
350	15.3	14.4	18.8	15.3	**22.6**	**15.9**	27.0	16.3	32.1	16.9	37.3	17.8
420	16.5	14.7	20.5	15.6	**24.8**	**16.2**	29.6	16.6	34.8	17.4	40.1	18.4

VYR-35 - Dual Nozzle Performance Table

	9/64" x3/32" - 3.6mm x 2.4mm		5/32" x 3/32" - 4.0mm x 2.4mm		11/64" x 3/32" - 4.4mm x 2.4mm		3/16" x 1/8" - 4.8mm x 3.2mm		13/64" x 1/8" - 5.2mm x 3.2mm		7/32" x 1/8" - 5.6mm x 3.2mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
180	15.3	13.0	18.3	13.8	**20.8**	**14.5**	28.0	14.7	31.3	15.1	35.0	15.3
210	16.6	13.3	20.0	14.2	**23.0**	**14.8**	30.8	15.0	34.6	15.4	38.6	15.7
250	18.1	13.6	21.6	14.5	**24.8**	**15.1**	33.3	15.3	37.6	15.7	42.0	16.2
320	20.8	14.1	24.5	15.0	**28.1**	**15.6**	38.0	15.9	42.8	16.3	48.0	17.1
350	22.1	14.2	25.8	15.2	**29.8**	**15.7**	40.0	16.0	45.0	16.6	50.3	17.5
420	24.0	14.5	28.3	15.4	**32.5**	**16.0**	43.8	16.3	49.0	17.1	54.5	18.1

Part No.	Description
VYR-35	20mm Brass Impact Sprinkler Full Circle - Dual Nozzle

* Operation within the grey area is not recommended
* Performance table prepared under test conditions
* For windy conditions use closer spacing
* Nozzles sold seperately
* **Standard nozzle configuration**
* Please specify nozzle when ordering

20MM BRASS IMPACT SPRINKLER

Full Circle

Heavy Duty Brass full circle sprinkler used in all types of agricultural irrigation, generally with medium - highflow.

Features

- 20mm Male BSP thread
- Full Circle
- Dual nozzle
- Secondary nozzle 22° Trajectory
- Main nozzle 26° Trajectory
- Brass nozzles (sold separately)

VYR-70 - Single Nozzle Performance Table

	5/32" - 4.0mm		11/64" - 4.4mm		3/16" - 4.8mm		13/64" - 5.2mm		7/32" - 5.6mm		1/4" - 6.4mm		9/32" - 7.1mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
250	15.7	14.5	19.0	15.0	**22.7**	**15.1**	26.8	16.0	31.3	16.2	34.0	17.1	50.0	18.0
320	17.8	15.1	21.5	15.7	**25.8**	**16.2**	30.5	16.6	35.7	17.4	45.8	18.4	57.5	18.7
350	18.8	15.3	22.7	15.9	**27.2**	**16.3**	32.2	16.9	37.3	17.8	48.5	18.9	60.5	19.3
420	20.5	15.6	24.8	16.4	**29.7**	**16.6**	34.8	17.4	40.2	18.4	52.7	19.5	66.2	20.7
490	22.5	15.9	26.8	16.4	**32.0**	**16.9**	37.0	17.7	42.7	18.8	57.0	20.1	69.5	21.7

VYR-70 - Dual Nozzle Performance Table

	5/32" x 3/32" - 3.96mm x 2.38mm		11/64" x 3/32" - 4.36mm x 2.38mm		3/16" x 1/8" - 4.76mm x 3.17mm		13/64" x 1/8" - 5.15mm x 3.17mm		7/32" x 1/8" - 5.55mm x 3.17mm		1/4" x 1/8" - 6.35mm x 3.17mm		9/32" x 1/8" - 7.14mm x 3.17mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
250	21.5	14.5	24.8	14.8	**33.3**	**15.5**	37.5	15.7	41.8	16.2	50.7	16.9	61.2	17.2
320	24.5	15.0	28.2	15.6	**38.2**	**15.9**	42.7	16.3	48.0	17.2	58.2	18.1	69.8	18.4
350	25.8	15.1	29.7	15.7	**40.0**	**16.1**	45.0	16.6	50.2	17.5	61.2	18.6	73.7	19.1
420	28.2	15.4	32.3	16.1	**43.8**	**16.3**	49.2	17.1	54.3	18.1	66.8	19.2	73.8	20.4
490	30.5	15.7	34.8	16.3	**46.8**	**16.6**	52.8	17.4	58.2	18.4	72.2	19.8	87.2	21.4

Part No.	Description
VYR-70	20mm Brass Impact Sprinkler Full Circle - Dual Nozzle

* Operation within the grey area is not recommended
* Performance table prepared under test conditions
* **Standard nozzle configuration**
* Nozzles sold seperately
* Please specify nozzle when ordering

25MM BRASS IMPACT SPRINKLER

Part Circle

Brass part circle sprinkler for dust protection and watering in mining and construction sites, feedlots, racetracks and arenas.

Features

- 25mm Male BSP thread
- Part Circle (can be adjusted to full circle)
- Dual nozzle
- Secondary nozzle 14° Trajectory
- Main nozzle 20° Trajectory
- Brass nozzles (sold separately)

VYR-65 - Single Nozzle Performance Table

	7/32" - 5.6mm		1/4" - 6.4mm		9/32" - 7.1mm		11/32" - 8.7mm		3/8" - 9.5mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
350	37.3	16.5	**48.7**	**17.1**	61.7	18.0	90.0	19.5	104.0	20.1
420	41.2	17.4	**53.7**	**17.4**	68.0	19.5	99.0	20.2	115.7	21.9
490	44.5	18.0	**58.2**	**18.9**	70.3	21.0	107.7	21.6	125.8	22.5
525	46.0	18.6	**60.5**	**19.2**	76.7	21.3	111.8	22.2	130.5	22.8
560	47.7	18.9	**62.3**	**19.5**	79.0	21.6	115.7	22.8	135.0	23.1

VYR-65 - Dual Nozzle Performance Table

	3/16" x1/8" - 4.8mm x 3.2mm		7/32" x 1/8" - 5.6mm x 3.2mm		1/4" x 1/8" - 6.4mm x 3.2mm		9/32" x 1/8" - 7.1mm x 3.2mm		5/16" x 1/8" - 7.9mm x 3.2mm		11/32" x 1/8" - 8.7mm x 3.2mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
350	40.5	15.3	50.3	16.8	**61.7**	**17.4**	74.5	18.3	88.6	19.2	101.4	19.8
420	44.3	16.0	55.3	17.7	**69.2**	**17.7**	82.1	19.8	96.2	20.4	112.4	21.0
470	45.8	16.0	57.9	18.0	**70.8**	**18.9**	84.4	20.4	100.7	21.0	117.3	21.3
530	49.6	16.2	62.8	18.9	**75.7**	**19.5**	91.6	21.6	108.6	22.3	126.4	22.6
560	52.2	16.5	65.5	19.4	**78.7**	**19.8**	93.9	21.9	112.0	22.9	130.6	23.2

Part No.	Description
VYR-65	25mm Brass Impact Sprinkler Part Circle - Dual Nozzle

* Operation within the grey area is not recommended
* Performance table prepared under test conditions
* For windy conditions use closer spacing

* Nozzles sold seperately
* **Standard nozzle configuration**
* Please specify nozzle when ordering

25MM BRASS IMPACT SPRINKLER

Full Circle

Heavy Duty Brass full circle sprinkler used in irrigation coverage with medium-high flow and its mechanical design provides optimal coverage ratio in its distribution.

Features

- 25mm Female BSP thread
- Full Circle
- Dual nozzle
- Secondary nozzle 26° Trajectory
- Main nozzle 26° Trajectory
- Brass nozzles (sold separately)

VYR-70V - Single Nozzle Performance Table

	7/32" - 5.6mm		1/4" - 6.4mm		9/32" - 7.1mm		5/16" - 7.9mm		11/32" - 8.7mm		3/8" - 9.5mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
280	33.3	18.4	**43.5**	**19.5**	55.2	19.8	67	20.1	79.8	20.7	92.3	21.1
320	35.6	18.7	**46.2**	**19.9**	58.6	20.4	71.5	20.7	85.2	21.6	98.4	23
350	37.3	19.0	**48.7**	**20.4**	61.7	21.0	75.7	21.4	90.0	22.5	104.0	23.9
420	41.2	19.6	**53.7**	**21.1**	68.0	21.9	83.2	22.6	99.0	23.7	115.7	25.2
460	43.1	19.9	**56.0**	**21.6**	71.1	22.4	87.0	24.2	103.7	24.4	121.8	25.5
560	47.7	21.3	**62.3**	**23.0**	79.0	23.7	97.2	24.6	115.7	26.2	135.0	27.6

VYR-70V - Dual Nozzle Performance Table

	7/32" x 11/64" - 5.6mm x 4.4mm		1/4" x 11/64" - 6.4mm x 4.4mm		1/4" x 3/16" - 6.4mm x 4.8mm		9/32" x 3/16" - 7.1mm x 4.8mm		9/32" x 7/32" - 7.1mm x 5.6mm		11/32" x 7/32" - 8.7mm x 5.6mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
280	53.3	18.4	63.0	19.5	**67.2**	**19.5**	76.8	19.8	85.8	19.8	108.7	20.7
320	57.7	18.7	67.2	19.9	**71.3**	**19.9**	81.7	20.4	90.7	20.4	116.3	21.6
350	59.0	19.0	71.3	20.4	**75.7**	**20.4**	86.3	21.0	96.0	21.0	122.3	22.5
420	66.0	19.6	78.0	21.1	**83.3**	**21.1**	95.3	21.9	106.2	21.9	135.0	23.7
460	69.0	19.9	82.2	21.6	**86.3**	**21.6**	99.7	22.4	110.3	22.4	140.3	24.4
560	76.8	21.3	90.7	23.0	**96.7**	**23.0**	110.3	23.7	123.7	23.7	157.7	26.1

Part No.	Description
VYR-70V	25mm Brass Impact Sprinkler Full Circle - Dual Nozzle

* Operation within the grey area is not recommended
* Performance table prepared under test conditions
* **Standard nozzle configuration**

* Nozzles sold seperately
* Please specify nozzle when ordering

32MM BRASS IMPACT SPRINKLER

Part Circle

Heavy Duty Brass part circle sprinkler used in all types of agricultural irrigation, widely used as a spray tip Pivot.

Features

- 32mm Male BSP thread
- Part Circle mechanical system using clips that are quick and easy to adjust
- Dual nozzle
- Secondary nozzle 4° Trajectory
- Main nozzle 27° Trajectory
- Brass nozzles (sold separately)

VYR-150 - Dual Nozzle Performance Table

	9.0mm x 3.2mm		10.0mm x 3.2mm		11.0mm x 3.2mm		13.0mm x 6.3mm		14.5mm x 6.3mm		16.0mm x 6.3mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
400	103.3	25.0	128.3	26.0	156.7	27.0	238.3	29.0	271.7	30.0	336.7	31.0
500	116.7	26.0	143.3	27.0	176.7	28.0	270.0	31.0	305.0	32.0	386.7	33.0
600	130.0	27.0	158.3	28.0	195.0	29.0	303.3	34.0	333.3	34.5	430.0	36.0
700	141.7	28.0	171.7	29.0	210.0	30.0	325.0	36.0	358.3	36.5	466.7	37.0

Part No.	Description
VYR-150	32mm Brass Impact Sprinkler Part Circle - Dual Nozzle

* Nozzles sold seperately
* Please specify nozzle when ordering

* Operation within the grey area is not recommended
* Performance table prepared under test conditions
* For windy conditions use closer spacing

32MM BRASS IMPACT SPRINKLER

Full Circle

Heavy Duty Brass full circle sprinkler with medium to high flow and is ideal for paddocks, feedlots, dust suppression and watering systems in mining and construction sites.

Features

- 32mm Male BSP thread
- Full Circle
- Triple nozzle
- Main and Secondary nozzle 28° Trajectory
- Tertiary nozzle 13° Trajectory
- Brass nozzles (sold separately)

VYR-155 - Triple Nozzle Performance Table														
	8.0mm x 6.3mm x 3.2mm		9.0mm x 6.3mm x 3.2mm		10.0mm x 6.3mm x 3.2mm		11.0mm x 6.3mm x 3.2mm		12.0mm x 6.3mm x 3.2mm		13.0mm x 6.3mm x 3.2mm		14.5mm x 6.3mm x 3.2mm	
kPa	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)	LPM	RAD (m)
400	141.7	25.5	160.0	26.0	183.3	26.5	200.0	28.0	220.0	28.5	250.0	29.5	283.3	31.5
500	158.3	26.5	180.0	27.0	205.0	27.5	223.3	29.0	248.3	30.0	283.3	31.0	318.3	32.5
600	173.3	27.0	195.0	27.5	225.0	29.0	245.0	30.5	275.0	31.0	313.3	32.0	346.7	33.5
700	186.7	28.0	213.3	28.5	243.3	30.0	266.7	31.5	300.0	32.0	338.3	33.0	371.7	34.5

Part No.	Description
VYR-155	32mm Brass Impact Sprinkler Full Circle - Triple Nozzle

* Performance table prepared under test conditions

* Nozzles sold seperately
* Please specify nozzle when ordering

KOMET ULTRA SERIES
LARGE AREA SPRINKLERS

Full Circle

Part Circle

komet

KOMET TWIN MAX ULTRA SERIES SPRINKLER

Part or Full Circle

Used for travelling irrigators, open field watering and dust suppression.

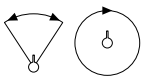
Features

- Automatic speed control is a function of the materials used, internal parts are made from chemically treated stainless steel and inserted into an anodized housing to increase resistance to corrosion and wear.
- Large barrel is made of marine grade aluminium and internal vanes assist in long radius throws.
- The drive arm is made from polymers that ensure superior performance and strong resistance to wear. Reduced weight allows good operation at low pressures.
- Dynamic jet breaker ensures better performance in low pressure operation - OPTIONAL
- Nozzles: 10mm - 24mm
- Optional 50mm BSP female connection available
- Twin Max trajectory angle 24°
- Flange - External diameter 168mm with 12 holes
  6 x 10.5mm holes on pitch circle of 146mm
  6 x 10.5mm holes on pitch circle of 130mm

Twin Max - Taper bore nozzle 24° Trajectory

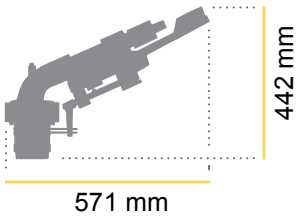
	Nozzle 10mm		Nozzle 11mm		Nozzle 12mm		Nozzle 13mm		Nozzle 14mm		Nozzle 15mm	
kPa	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)
200	5.4	21.8	6.6	22.9	7.8	23.9	9.2	25.1	10.6	26.3	12.2	27.4
250	6.1	24.1	7.3	25.3	8.7	26.5	10.3	27.6	11.9	28.8	13.7	29.9
300	6.7	26.3	8.1	27.7	9.6	29.1	11.2	30.2	13.0	31.3	15.0	32.3
350	7.2	28.1	8.7	29.5	10.3	30.9	12.1	32.0	14.1	33.1	16.2	34.2
400	7.7	29.8	9.3	31.3	11.1	32.7	13.0	33.8	15.1	34.9	17.3	36.0
450	8.1	30.8	9.9	32.3	11.7	33.7	13.8	34.9	16.0	36.0	18.3	37.2
500	8.6	31.8	10.4	33.2	12.4	34.6	14.5	35.9	16.8	37.1	19.3	38.4
550	9.0	32.9	10.9	34.2	13.0	35.5	15.2	36.9	17.7	38.2	20.3	39.5
600	9.4	33.9	11.4	35.2	13.5	36.4	15.9	37.9	18.4	39.3	21.2	40.7
650	9.8	34.6	11.9	36.0	14.1	37.2	16.6	38.7	19.2	40.2	22.0	41.6

N.B. The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. A lowered trajectory angle improves the irrigation efficiency in windy conditions. For every 3° drop of the trajectory angle the throw is reduced by approximately 3 to 4%



Part and full circle model

Dimensions 24°



Twin Max

24° Trajectory

Twin Max - Taper bore nozzle 24° Trajectory												
	Nozzle 16mm		Nozzle 17mm		Nozzle 18mm		Nozzle 20mm		Nozzle 22mm		Nozzle 24mm	
kPa	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)
200	13.9	28.6	15.7	28.7	17.6	28.9	21.7	29.1	26.3	29.5	31.3	30.0
250	15.5	31.0	17.6	31.6	19.7	32.2	24.3	33.5	29.4	34.1	35.0	34.8
300	17.0	33.4	19.2	34.5	21.6	35.6	26.6	37.8	32.2	38.7	38.3	39.6
350	18.4	35.3	20.8	36.5	23.3	37.7	28.7	40.1	34.8	41.3	41.4	42.6
400	19.7	37.1	22.2	38.4	24.9	39.7	30.7	42.3	37.2	44.0	44.3	45.6
450	20.9	38.4	23.6	39.7	26.4	41.0	32.6	43.7	39.4	45.5	46.9	47.3
500	22.0	39.6	24.8	40.9	27.8	42.3	34.4	45.0	41.6	47.0	49.5	49.1
550	23.1	40.9	26.0	42.2	29.2	43.6	36.0	46.2	43.6	48.4	51.9	50.6
600	24.1	42.2	27.2	43.5	30.5	44.8	37.6	47.5	45.5	49.8	54.2	52.2
650	25.1	43.1	28.3	44.4	31.7	45.8	39.2	48.5	47.4	50.9	56.4	53.4

Part No.	Description
TWMAX24PC	Komet Twin Max Ultra Series Full / Part Circle Sprinkler - 24° Trajectory

KOMET 101 ULTRA SERIES SPRINKLER

Part or Full Circle

Used for travelling irrigators, open field watering and dust suppression.

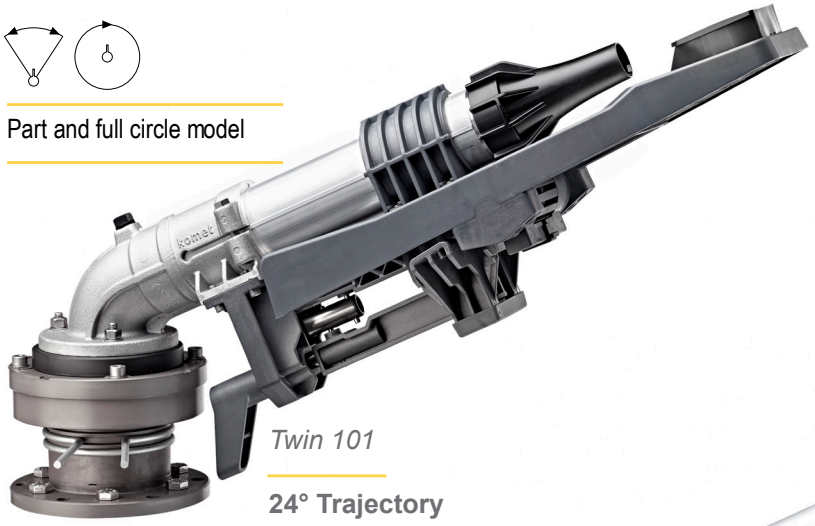
Features

- Automatic speed control is a function of the materials used, internal parts are made from chemically treated stainless steel and inserted into an anodized housing to increase resistance to corrosion and wear.
- Large barrel is made of marine grade aluminium and internal vanes assist in long radius throws.
- The drive arm is made from polymers that ensure superior performance and strong resistance to wear. Reduced weight allows good operation at low pressures.
- Dynamic jet breaker ensures better performance in low pressure operation - OPTIONAL
- Nozzles: 12mm - 28mm
- Optional 50mm BSP female connection available
- Twin 101 trajectory angle 24°
- Twin 101-VA trajectory angle 15° - 45°
- Flange - External diameter 168mm with 12 holes
  6 x 10.5mm holes on pitch circle of 146mm
  6 x 10.5mm holes on pitch circle of 130mm

Twin 101 Ultra - Taper bore nozzle 24° Trajectory

	Nozzle 12mm		Nozzle 14mm		Nozzle 16mm		Nozzle 18mm	
kPa	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)
200	7.8	24.2	10.6	26.5	13.8	28.9	17.5	29.1
250	8.7	26.8	11.9	29.0	15.4	31.3	19.5	32.5
300	9.6	29.4	13.0	31.6	16.9	33.7	21.4	35.9
350	10.3	31.2	14.1	33.3	18.2	35.5	23.1	37.9
400	11.1	32.9	15.1	35.1	19.5	37.3	24.7	39.9
450	11.7	33.9	16.0	36.2	20.7	38.6	26.2	41.2
500	12.4	34.8	16.8	37.3	21.8	39.8	27.6	42.5
550	13.0	35.7	17.7	38.4	22.9	41.1	29.0	43.8
600	13.5	36.6	18.4	39.5	23.9	42.4	30.3	45.0
650	14.1	37.4	19.2	40.4	24.9	43.3	31.5	46.0
700	14.6	38.2	19.9	41.2	25.8	44.2	32.7	46.9

N.B. The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. A lowered trajectory angle improves the irrigation efficiency in windy conditions. For every 3° drop of the trajectory angle the throw is reduced by approximately 3 to 4%

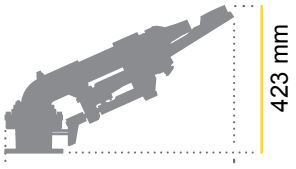


Part and full circle model

Twin 101

24° Trajectory

Dimensions 24°



Twin 101

Vari Angle 15°- 45°

Twin 101 Ultra - Taper bore nozzle 24° Trajectory

	Nozzle 20mm		Nozzle 22mm		Nozzle 24mm		Nozzle 26mm		Nozzle 28mm	
kPa	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)
200	21.7	29.4	26.1	29.8	31.1	30.2	36.7	30.6	42.3	30.9
250	24.2	33.8	29.2	34.4	34.7	35.1	41.0	35.8	47.3	36.5
300	26.5	38.2	31.9	39.1	38.0	39.9	44.9	41.0	51.8	42.1
350	28.7	40.4	34.5	41.6	41.1	42.9	48.5	44.4	56.0	45.9
400	30.7	42.5	36.9	44.2	43.9	45.8	51.8	47.8	59.8	49.7
450	32.5	43.9	39.1	45.7	46.6	47.6	55.0	49.8	63.5	52.0
500	34.3	45.2	41.2	47.3	49.1	49.3	58.0	51.8	66.9	54.3
550	35.9	46.5	43.2	48.7	51.5	50.9	60.8	53.5	70.2	56.2
600	37.5	47.7	45.2	50.1	53.8	52.5	63.5	55.3	73.3	58.1
650	39.1	48.7	47.0	51.2	56.0	53.7	66.1	56.5	76.3	59.3
700	40.6	49.7	48.8	52.3	58.1	54.9	68.6	57.7	79.2	60.6

Part No.	Description
TW10124	Komet 101 Series Full / Part Circle - 24° Trajectory
TW101-VA	Komet 101 Series Full / Part Circle & Vari Angle - 15° - 45°
TW101-0-B5	Converts Twin 101/140 flanging to 50mm BSP female inlet

KOMET 140 ULTRA SERIES SPRINKLER

Part or Full Circle

Used for travelling irrigators, open field watering and dust suppression.

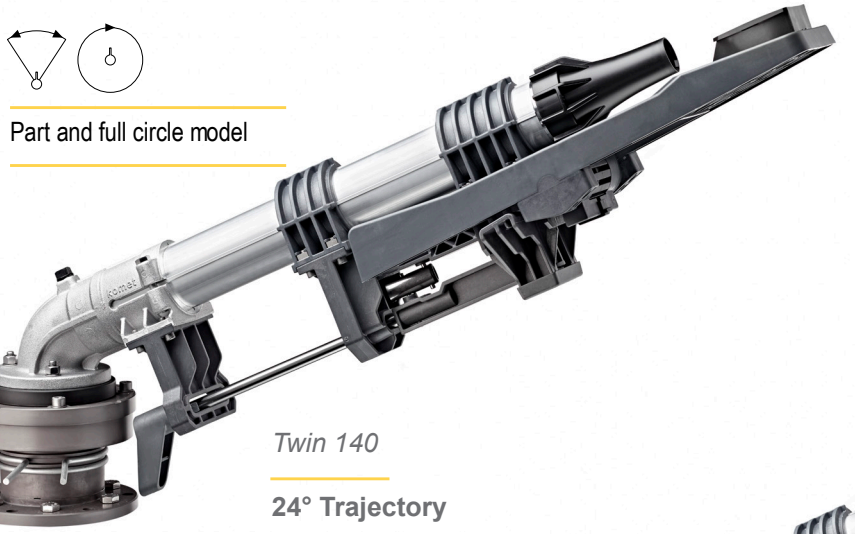
Features

- Automatic speed control is a function of the materials used, internal parts are made from chemically treated stainless steel and inserted into an anodized housing to increase resistance to corrosion and wear.
- Large barrel is made of marine grade aluminium and internal vanes assist in long radius throws.
- The drive arm is made from polymers that ensure superior performance and strong resistance to wear. Reduced weight allows good operation at low pressures.
- Dynamic jet breaker ensures better performance in low pressure operation - OPTIONAL
- Nozzles: 16mm - 34mm
- Optional 50mm BSP female connection available
- Twin 140 trajectory angle 24°
- Twin 140-VA trajectory angle 15° - 45°
- Flange - External diameter 168mm with 12 holes
  6 x 10.5mm holes on pitch circle of 146mm
  6 x 10.5mm holes on pitch circle of 130mm

Twin 140 Ultra - Taper bore nozzle 24° Trajectory

	Nozzle 16mm		Nozzle 18mm		Nozzle 20mm		Nozzle 22mm		Nozzle 24mm	
kPa	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)
200	13.8	29.0	17.5	29.3	21.7	29.5	26.1	30.0	31.1	30.4
250	15.4	32.3	19.5	33.4	24.2	34.6	29.2	35.4	34.7	36.1
300	16.9	35.5	21.4	37.6	26.5	39.7	31.9	40.8	38.0	41.8
350	18.2	36.5	23.1	38.6	28.7	40.8	34.5	42.3	41.1	43.8
400	19.5	37.5	24.7	39.7	30.7	41.8	36.9	43.8	43.9	45.7
450	20.7	38.7	26.2	41.1	32.5	43.5	39.1	45.6	46.6	47.6
500	21.8	40.0	27.6	42.6	34.3	45.1	41.2	47.3	49.1	49.5
550	22.9	41.3	29.0	43.9	35.9	46.5	43.2	48.8	51.5	51.1
600	23.9	42.6	30.3	45.3	37.5	48.0	45.2	50.3	53.8	52.7
650	24.9	43.5	31.5	46.2	39.1	48.9	47.0	51.4	56.0	53.9
700	25.8	44.4	32.7	47.2	40.6	49.9	48.8	52.5	58.1	55.2

N.B. The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. A lowered trajectory angle improves the irrigation efficiency in windy conditions. For every 3° drop of the trajectory angle the throw is reduced by approximately 3 to 4%

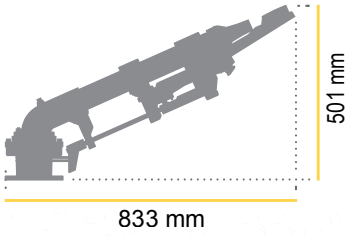


Part and full circle model

Twin 140

24° Trajectory

Dimensions 24°



Twin 140

Vari Angle 15° - 45°

Twin 140 Ultra - Taper bore nozzle 24° Trajectory

	Nozzle 26mm		Nozzle 28mm		Nozzle 30mm		Nozzle 32mm		Nozzle 34mm	
kPa	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)
200	36.7	30.7	42.3	31.0	48.6	31.3	55.7	31.7	62.5	32.0
250	41.0	36.4	47.3	36.7	54.3	37.0	62.3	37.3	69.8	37.6
300	44.9	42.1	51.8	42.3	59.5	42.6	68.2	42.9	76.5	43.3
350	48.5	45.0	56.0	46.1	64.3	47.0	73.7	47.8	82.6	48.9
400	51.8	47.8	59.8	50.0	68.7	51.3	78.8	52.7	88.3	54.6
450	55.0	50.0	63.5	52.3	72.9	54.1	83.6	56.0	93.7	57.9
500	58.0	52.1	66.9	54.6	76.8	56.9	88.1	59.3	98.7	61.3
550	60.8	53.8	70.2	56.5	80.5	58.9	92.4	61.2	103.6	63.5
600	63.5	55.6	73.3	58.4	84.1	60.8	96.5	63.2	108.2	65.7
650	66.1	56.8	76.3	59.6	87.6	62.1	100.4	64.5	112.6	67.2
700	68.6	58.0	79.2	60.9	90.9	63.3	104.2	65.8	116.8	68.7

Part No.	Description
TW14024	Komet 140 Series Full / Part Circle Sprinkler - 24° Trajectory
TW140VA	Komet 140 Series Full / Part Circle & Vari Angle - 15° - 45°
TW101-0-B5	Flange Adaptor converts flange to 50mm female BSP

KOMET 160 ULTRA SERIES SPRINKLER

Part or Full Circle

Used for travelling irrigators, open field watering and dust suppression.

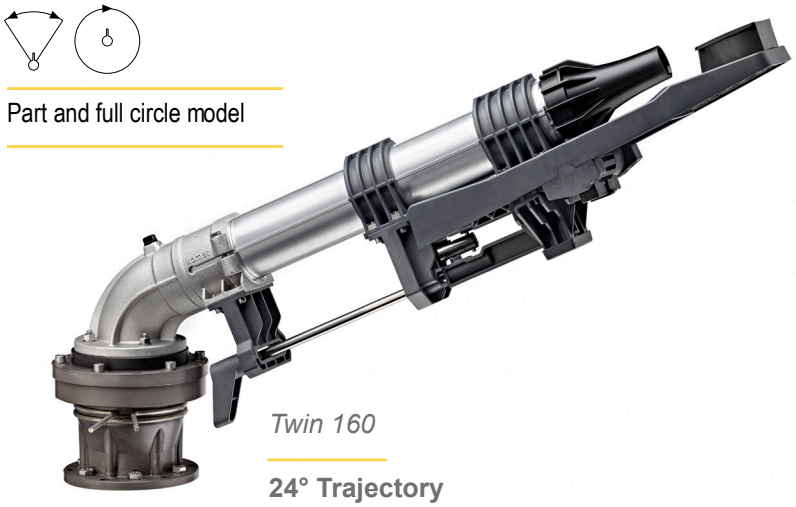
Features

- Automatic speed control is a function of the materials used, internal parts are made from chemically treated stainless steel and inserted into an anodized housing to increase resistance to corrosion and wear.
- Large barrel is made of marine grade aluminium and internal vanes assist in long radius throws.
- The drive arm is made from polymers that ensure superior performance and strong resistance to wear. Reduced weight allows good operation at low pressures.
- Dynamic jet breaker ensures better performance in low pressure operation - OPTIONAL
- Nozzles: 18mm - 38mm
- Optional 50mm BSP female connection available
- Twin 160 trajectory angle 24°
- Twin 160-VA trajectory angle 15° - 45°
- Flange - External diameter 168mm with 12 holes
  6 x 10.5mm holes on pitch circle of 146mm
  6 x 10.5mm holes on pitch circle of 130mm

Twin 160 Ultra - Taper bore nozzle 24° Trajectory

	Nozzle 18mm		Nozzle 20mm		Nozzle 22mm		Nozzle 24mm		Nozzle 26mm	
kPa	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)
300	21.7	37.8	26.9	39.9	32.4	41.0	38.5	42.0	45.6	42.3
350	23.4	39.4	29.0	41.6	34.9	43.1	41.6	44.6	59.2	45.9
400	25.1	41.0	31.0	43.2	37.4	45.3	44.5	47.3	52.6	49.5
450	26.6	42.3	32.9	44.7	39.6	46.9	47.2	49.0	55.8	51.4
500	28.0	43.6	34.7	46.2	41.8	48.5	49.7	50.8	58.8	53.4
550	29.4	44.7	36.4	47.3	43.8	49.7	52.1	52.0	61.7	54.7
600	30.7	45.7	38.0	48.4	45.8	50.9	54.4	53.3	64.4	56.1
650	31.9	46.7	39.5	49.4	47.6	52.0	56.7	54.5	67.1	57.4
700	33.2	47.7	41.0	50.4	49.4	53.1	58.8	55.7	69.6	58.6
750	34.3	48.5	42.5	51.4	51.2	54.1	60.9	56.8	72.0	59.7
800	35.4	49.3	43.9	52.3	52.8	55.1	62.9	57.9	74.4	60.7
850	36.5	50.2	45.2	53.2	54.5	56.0	64.8	58.9	76.7	61.7
900	37.6	51.0	46.5	54.1	56.0	57.0	66.7	59.9	78.9	62.6

N.B. The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. A lowered trajectory angle improves the irrigation efficiency in windy conditions. For every 3° drop of the trajectory angle the throw is reduced by approximately 3 to 4%

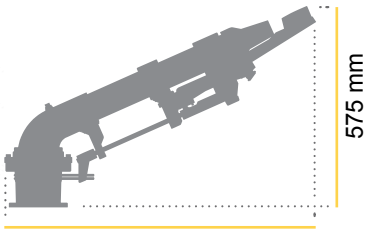


Part and full circle model

Twin 160

24° Trajectory

Dimensions 24°



Twin 160

Vari Angle 15° - 45°

Twin 160 Ultra - Taper bore nozzle 24° Trajectory

	Nozzle 28mm		Nozzle 30mm		Nozzle 32mm		Nozzle 34mm		Nozzle 36mm		Nozzle 38mm	
kPa	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)
300	52.6	42.5	60.4	42.8	69.1	43.2	77.5	43.5	86.8	43.8	97.0	44.1
350	56.8	47.1	65.2	48.0	74.6	48.8	83.7	50.0	93.7	51.1	104.7	52.1
400	60.7	51.7	69.7	53.1	79.8	54.5	89.4	56.5	100.2	58.3	112.0	60.2
450	64.4	53.8	74.0	55.7	84.6	57.6	94.9	59.6	106.3	61.6	118.8	63.6
500	67.9	55.9	78.0	58.3	89.2	60.8	100.0	62.8	112.0	64.9	125.2	67.0
550	71.2	57.5	81.8	59.9	93.5	62.3	104.9	64.6	117.5	66.9	131.3	69.2
600	74.4	59.0	85.4	61.4	97.7	63.8	109.5	66.3	122.7	68.8	137.1	71.4
650	77.4	60.2	88.9	62.7	101.7	65.1	114.0	67.9	127.7	70.6	142.7	73.2
700	80.3	61.5	92.2	64.0	105.5	66.5	118.3	69.4	132.5	72.3	148.1	75.1
750	83.1	62.5	95.5	65.0	109.2	67.5	122.5	70.6	137.2	73.6	153.3	76.6
800	85.9	63.6	98.6	66.1	112.8	68.6	126.5	71.8	141.7	74.9	158.3	78.0
850	88.5	64.4	101.6	66.9	116.3	69.4	130.4	72.7	146.0	75.8	163.2	78.9
900	91.1	65.3	104.6	67.8	119.6	70.3	134.2	73.5	150.3	76.7	168.0	79.8

Part No.	Description
TW16024PC	Komet 160 Series Full / Part Circle Sprinkler - 24° Trajectory
TW160-VA	Komet 160 Series Full / Part Circle & Vari Angle - 15° - 45°

KOMET 202 ULTRA SERIES SPRINKLER

Part or Full Circle

Used for travelling irrigators, open field watering and dust suppression.

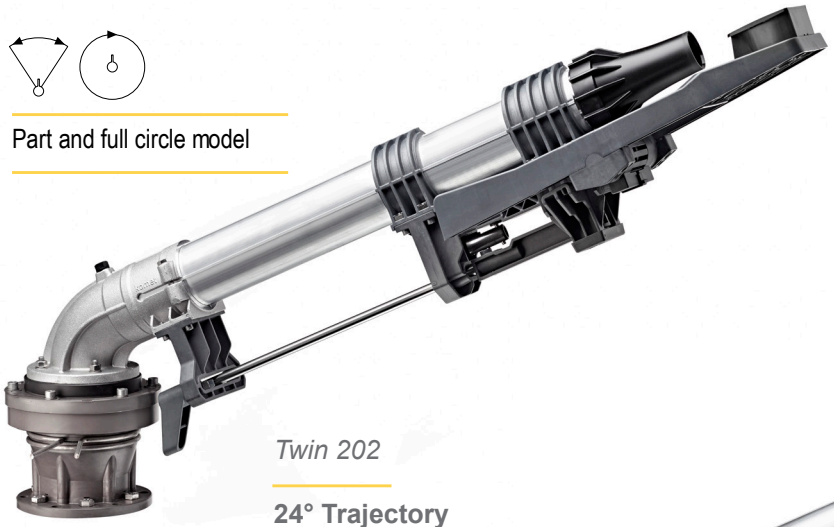
Features

- Automatic speed control is a function of the materials used, internal parts are made from chemically treated stainless steel and inserted into an anodized housing to increase resistance to corrosion and wear.
- Large barrel is made of marine grade aluminium and internal vanes assist in long radius throws.
- The drive arm is made from polymers that ensure superior performance and strong resistance to wear. Reduced weight allows good operation at low pressures.
- Dynamic jet breaker ensures better performance in low pressure operation - OPTIONAL
- Nozzles: 22mm - 45mm
- Optional 50mm BSP female connection available
- Twin 202 trajectory angle 24°
- Twin 202-VA trajectory angle 15° - 45°
- Flange - External diameter 168mm with 12 holes
  6 x 10.5mm holes on pitch circle of 146mm
  6 x 10.5mm holes on pitch circle of 130mm

Twin 202 Ultra - Taper bore nozzle 24° Trajectory

	Nozzle 22mm		Nozzle 24mm		Nozzle 26mm		Nozzle 28mm		Nozzle 30mm		Nozzle 32mm	
kPa	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)
300	32.4	41.5	38.5	42.6	45.6	42.9	52.6	43.1	60.4	43.5	69.1	43.8
350	34.9	43.6	41.6	45.2	49.2	46.4	56.8	47.6	65.2	48.5	74.6	49.4
400	37.4	45.7	44.5	47.7	52.6	49.9	60.7	52.1	69.7	53.6	79.8	55.0
450	39.6	47.2	47.2	49.4	55.8	51.8	64.4	54.2	74.0	56.1	84.6	58.1
500	41.8	48.7	49.7	51.0	58.8	53.6	67.9	56.2	78.0	58.6	89.2	61.1
550	43.8	49.9	52.1	52.3	61.7	55.0	71.2	57.7	81.8	60.2	93.5	62.6
600	45.8	51.1	54.4	53.5	64.4	56.4	74.4	59.3	85.4	61.7	97.7	64.1
650	47.6	52.2	56.7	54.8	67.1	57.7	77.4	60.5	88.9	63.0	101.7	65.5
700	49.4	53.4	58.8	56.0	69.6	58.9	80.3	61.8	92.2	64.3	105.5	66.8
750	51.2	54.5	60.9	57.3	72.0	60.1	83.1	63.0	95.5	65.5	109.2	68.1
800	52.8	55.7	62.9	58.5	74.4	61.4	85.9	64.2	98.6	66.8	112.8	69.3
850	54.5	56.6	64.8	59.5	76.7	62.3	88.5	65.1	101.6	67.6	116.3	70.2
900	56.0	57.6	66.7	60.5	78.9	63.3	91.1	66.0	104.6	68.5	119.6	71.0

N.B. The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. A lowered trajectory angle improves the irrigation efficiency in windy conditions. For every 3° drop of the trajectory angle the throw is reduced by approximately 3 to 4%

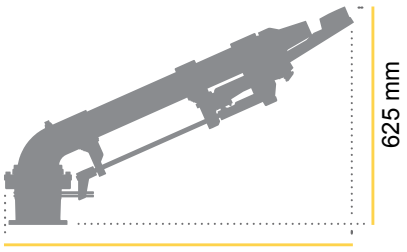


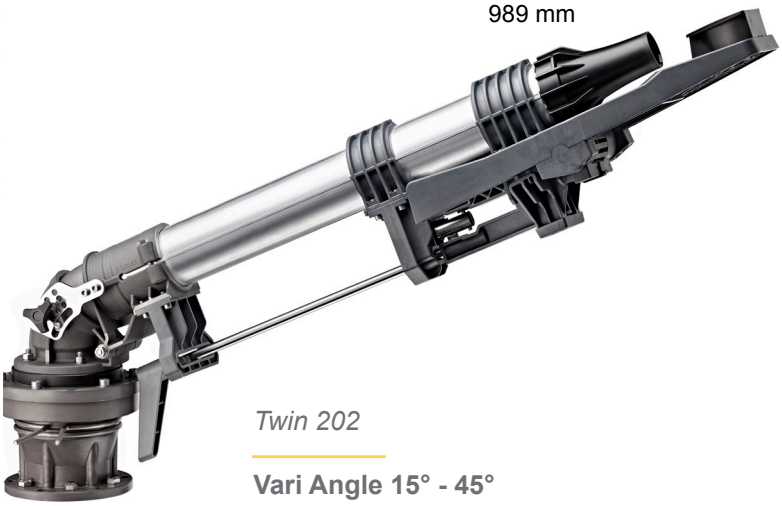
Part and full circle model

Twin 202

24° Trajectory

Dimensions 24°





Twin 202

Vari Angle 15° - 45°

Twin 202 Ultra - Taper bore nozzle 24° Trajectory

	Nozzle 34mm		Nozzle 36mm		Nozzle 38mm		Nozzle 40mm		Nozzle 42mm		Nozzle 44mm		Nozzle 45mm	
kPa	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)	m³/h	RAD (m)
300	77.5	44.1	86.8	44.4	97.0	44.7	106.6	45.1	117.5	45.4	129.9	45.8	135.7	46.0
350	83.7	50.5	93.7	51.6	104.7	52.7	115.1	53.5	126.9	54.3	140.3	55.0	146.5	55.4
400	89.4	57.0	100.2	58.9	112.0	60.7	123.1	61.8	135.7	63.1	150.0	64.3	156.7	64.9
450	94.9	60.0	106.3	62.0	118.8	64.0	130.5	65.3	143.9	66.8	159.1	68.2	166.2	68.9
500	100.0	63.1	112.0	65.2	125.2	67.3	137.6	68.8	151.7	70.5	167.7	72.1	175.1	73.0
550	104.9	64.9	117.5	67.2	131.3	69.5	144.3	71.3	159.1	73.1	175.8	75.0	183.7	75.9
600	109.5	66.7	122.7	69.2	137.1	71.7	150.7	73.7	166.2	75.7	183.7	77.8	191.9	78.8
650	114.0	68.2	127.7	70.9	142.7	73.6	156.9	75.7	173.0	77.9	191.2	80.1	199.7	81.2
700	118.3	69.8	132.5	72.6	148.1	75.5	162.8	77.8	179.5	80.1	198.4	82.5	207.2	83.7
750	122.5	71.1	137.2	74.1	153.3	77.2	168.5	79.5	185.8	82.0	205.3	84.5	214.5	85.7
800	126.5	72.5	141.7	75.7	158.3	78.8	174.1	81.3	191.9	83.8	212.1	86.4	221.5	87.7
850	130.4	73.4	146.0	76.6	163.2	79.7	179.4	82.2	197.8	84.9	218.6	87.5	228.4	88.8
900	134.2	74.3	150.3	77.4	168.0	80.6	184.6	83.2	203.5	85.9	224.9	88.6	235.0	90.0

Part No.	Description
TW20224PC	Komet 202 Series Full / Part Circle Sprinkler - 24° Trajectory
TW202VA	Komet 202 Series Full / Part Circle & Vari Angle - 15° - 45°

KOMET TWIN AP101 ULTRA SERIES SPRINKLER - *DUST CONTROL*

Part or Full Circle

Used for dust suppression.

Features

- Automatic speed control is a function of the materials used, internal parts are made from chemically treated stainless steel and inserted into an anodized housing to increase resistance to corrosion and wear.
- Large barrel is made of marine grade aluminium and internal vanes assist in long radius throws.
- The drive arm is made from polymers that ensure superior performance and strong resistance to wear. Reduced weight allows good operation at low pressures.
- Nozzles: 12mm - 28mm
- Optional 50mm BSP female connection available
- Twin AP101 VA trajectory angle 15° - 44° - Allows trajectory angle adjustments to suit stock pile configurations
- Flange - External diameter 168mm with 12 holes
  6 x 10.5mm holes on pitch circle of 146mm
  6 x 10.5mm holes on pitch circle of 130mm

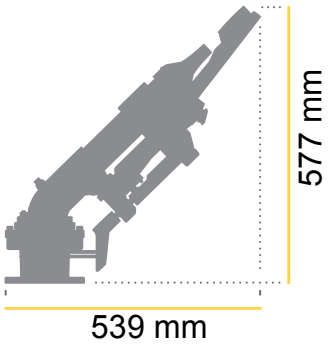
AP101 Ultra - Taper bore nozzle 44° Trajectory

	Nozzle 12mm			Nozzle 14mm			Nozzle 16mm			Nozzle 18mm		
kPa	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height
300	9.6	26.1	11.9	13.0	28.5	12.1	16.9	31.0	12.3	21.4	33.5	12.5
350	10.3	27.7	13.1	14.1	30.3	13.4	18.2	33.0	13.7	23.1	35.6	14.0
400	11.1	29.3	14.3	15.1	32.1	14.7	19.5	34.9	15.1	24.7	37.8	15.6
450	11.7	30.4	15.1	16.0	33.4	15.6	20.7	36.3	16.1	26.2	39.3	16.7
500	12.4	31.5	15.9	16.8	34.6	16.5	21.8	37.7	17.1	27.6	40.8	17.8
550	13.0	32.4	16.4	17.7	35.6	17.2	22.9	38.7	17.9	29.0	41.9	18.6
600	13.5	33.3	17.0	18.4	36.5	17.8	23.9	39.8	18.7	30.3	43.0	19.5
650	14.1	33.9	17.4	19.2	37.2	18.3	24.9	40.5	19.2	31.5	43.8	20.1
700	14.6	34.5	17.9	19.9	37.8	18.8	25.8	41.2	19.8	32.7	44.6	20.7
750	15.1	34.8	18.1	20.6	38.2	19.1	26.7	41.7	20.2	33.8	45.1	21.2
800	15.6	35.2	18.4	21.3	38.7	19.5	27.6	42.1	20.6	34.9	45.5	21.6

N.B. The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. Radius=radius of throw in meters. Nozzle at 1.5m above ground level. Height=maximum stream height in metres above nozzle.

Part and full circle model

Dimensions 44°



TWIN AP101 - Dust Control

Vari Angle 15° - 45°

AP101 Ultra - Taper bore nozzle 44° Trajectory

	Nozzle 20mm			Nozzle 22mm			Nozzle 24mm			Nozzle 26mm			Nozzle 28mm		
kPa	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height
300	26.5	35.9	12.7	31.9	37.2	12.9	38.0	38.5	13.1	44.9	39.7	13.3	51.8	41.0	13.4
350	28.7	38.2	14.4	34.5	39.7	14.6	41.1	41.1	14.9	48.5	42.6	15.1	56.0	44.0	15.3
400	30.7	40.6	16.0	36.9	42.2	16.3	43.9	43.8	16.6	51.8	45.5	17.0	59.8	47.1	17.3
450	32.5	42.2	17.2	39.1	43.9	17.6	46.6	45.6	18.1	55.0	47.3	18.5	63.5	49.0	18.9
500	34.3	43.9	18.4	41.2	45.7	19.0	49.1	47.4	19.5	58.0	49.2	20.0	66.9	51.0	20.5
550	35.9	45.1	19.4	43.2	46.9	20.0	51.5	48.7	20.6	60.8	50.5	21.2	70.2	52.3	21.8
600	37.5	46.3	20.3	45.2	48.1	21.0	53.8	50.0	21.7	63.5	51.8	22.3	73.3	53.6	23.0
650	39.1	47.1	21.0	47.0	49.0	21.8	56.0	50.9	22.5	66.1	52.7	23.3	76.3	54.6	24.1
700	40.6	48.0	21.7	48.8	49.9	22.5	58.1	51.8	23.4	68.6	53.7	24.2	79.2	55.6	25.1
750	42.0	48.5	22.2	50.5	50.4	23.1	60.1	52.4	24.0	71.0	54.3	24.9	82.0	56.3	25.8
800	43.4	49.0	22.7	52.2	51.0	23.6	62.1	53.0	24.6	73.3	55.0	25.5	84.6	57.0	26.4

Part No.	Description
TWAP10144PC	Komet AP101 Series Full / Part Circle Sprinkler - 44° Trajectory
TWAP101VA	Komet AP101 Series Full / Part Circle & Vari Angle - 15° - 45°

KOMET TWIN AP140 ULTRA SERIES SPRINKLER - *DUST CONTROL*

Part or Full Circle

Used for dust suppression.

Features

- Automatic speed control is a function of the materials used, internal parts are made from chemically treated stainless steel and inserted into an anodized housing to increase resistance to corrosion and wear.
- Large barrel is made of marine grade aluminium and internal vanes assist in long radius throws.
- The drive arm is made from polymers that ensure superior performance and strong resistance to wear. Reduced weight allows good operation at low pressures.
- Nozzles: 16mm - 34mm
- Optional 50mm BSP female connection available
- Twin AP140 VA trajectory angle 15° - 44° - Allows trajectory angle adjustments to suit stock pile configurations
- Flange - External diameter 168mm with 12 holes
  6 x 10.5mm holes on pitch circle of 146mm
  6 x 10.5mm holes on pitch circle of 130mm

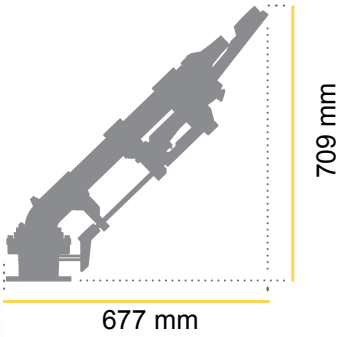
AP140 Ultra - Taper bore nozzle 44° Trajectory

	Nozzle 16mm			Nozzle 18mm			Nozzle 20mm			Nozzle 22mm			Nozzle 24mm		
kPa	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height
300	16.9	31.3	12.3	21.4	33.8	12.5	26.5	36.3	12.7	31.9	37.6	12.9	38.0	38.8	13.1
350	18.2	33.3	13.8	23.1	36.0	14.1	28.7	38.6	14.4	34.5	40.1	14.7	41.1	41.6	14.9
400	19.5	35.3	15.2	24.7	38.1	15.6	30.7	41.0	16.1	36.9	42.6	16.4	43.9	44.3	16.7
450	20.7	36.7	16.2	26.2	39.7	16.8	32.5	42.7	17.3	39.1	44.4	17.8	46.6	46.1	18.2
500	21.8	38.1	17.3	27.6	41.2	17.9	34.3	44.3	18.6	41.2	46.1	19.1	49.1	47.9	19.6
550	22.9	39.1	18.1	29.0	42.3	18.8	35.9	45.5	19.5	43.2	47.4	20.1	51.5	49.2	20.8
600	23.9	40.2	18.8	30.3	43.5	19.7	37.5	46.8	20.5	45.2	48.6	21.2	53.8	50.5	21.9
650	24.9	40.9	19.4	31.5	44.3	20.3	39.1	47.6	21.2	47.0	49.5	22.0	56.0	51.4	22.8
700	25.8	41.6	20.0	32.7	45.0	21.0	40.6	48.5	21.9	48.8	50.4	22.8	58.1	52.3	23.7
750	26.7	42.1	20.4	33.8	45.5	21.5	42.0	48.9	22.5	50.5	50.9	23.4	60.1	52.9	24.3
800	27.6	42.5	20.9	34.9	46.0	22.0	43.4	49.4	23.1	52.2	51.5	24.0	62.1	53.5	24.9

N.B. The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. Radius=radius of throw in meters. Nozzle at 1.5m above ground level. Height=maximum stream height in metres above nozzle.

Part and full circle model

Dimensions 44°



TWIN AP140 - Dust Control

Vari Angle 15° - 45°

AP140 Ultra - Taper bore nozzle 44° Trajectory

	Nozzle 26mm			Nozzle 28mm			Nozzle 30mm			Nozzle 32mm			Nozzle 34mm		
kPa	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height
300	44.9	40.1	13.3	51.8	41.4	13.4	59.5	42.6	13.5	68.2	43.8	13.5	76.5	44.9	13.6
350	48.5	43.0	15.2	56.0	44.5	15.4	64.3	45.7	15.5	73.7	47.0	15.6	82.6	48.3	15.7
400	51.8	45.9	17.0	59.8	47.6	17.4	68.7	48.9	17.5	78.8	50.3	17.6	88.3	51.6	17.7
450	55.0	47.8	18.6	63.5	49.5	19.0	72.9	51.0	19.2	83.6	52.5	19.4	93.7	54.0	19.6
500	58.0	49.7	20.2	66.9	51.5	20.7	76.8	53.2	20.9	88.1	54.8	21.2	98.7	56.5	21.4
550	60.8	51.0	21.4	70.2	52.8	22.0	80.5	54.6	22.3	92.4	56.4	22.6	103.6	58.2	22.9
600	63.5	52.3	22.6	73.3	54.2	23.3	84.1	56.1	23.6	96.5	58.0	24.0	108.2	59.9	24.3
650	66.1	53.3	23.6	76.3	55.1	24.3	87.6	57.1	24.8	100.4	59.1	25.2	112.6	61.1	25.6
700	68.6	54.2	24.6	79.2	56.1	25.4	90.9	58.2	25.9	104.2	60.2	26.4	116.8	62.3	26.8
750	71.0	54.9	25.2	82.0	56.8	26.1	94.1	58.9	26.6	107.9	61.0	27.2	120.9	63.1	27.7
800	73.3	55.5	25.9	84.6	57.5	26.8	97.1	59.7	27.4	111.4	61.8	28.0	124.9	63.9	28.6

Part No.	Description
TWAP14044PC	Komet AP140 Series Full / Part Circle Sprinkler - 44° Trajectory
TWAP140VA	Komet AP140 Series Full / Part Circle & Vari Angle - 15° - 45°

KOMET TWIN AP160 ULTRA SERIES SPRINKLER - *DUST CONTROL*

Part or Full Circle

Used for dust suppression.

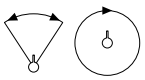
Features

- Automatic speed control is a function of the materials used, internal parts are made from chemically treated stainless steel and inserted into an anodized housing to increase resistance to corrosion and wear.
- Large barrel is made of marine grade aluminium and internal vanes assist in long radius throws.
- The drive arm is made from polymers that ensure superior performance and strong resistance to wear. Reduced weight allows good operation at low pressures.
- Nozzles: 18mm - 38mm
- Optional 50mm BSP female connection available
- Twin AP160 VA trajectory angle 15° - 44° - Allows trajectory angle adjustments to suit stock pile configurations
- Flange - External diameter 168mm with 12 holes
  6 x 10.5mm holes on pitch circle of 146mm
  6 x 10.5mm holes on pitch circle of 130mm

AP160 Ultra - Taper bore nozzle 44° Trajectory

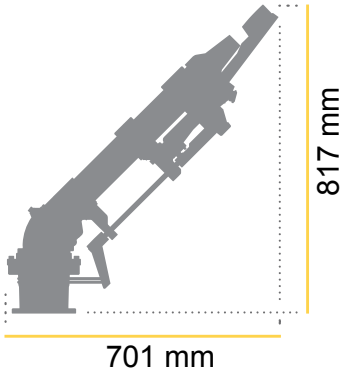
	Nozzle 18mm			Nozzle 20mm			Nozzle 22mm			Nozzle 24mm			Nozzle 26mm		
kPa	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height
300	21.7	34.4	12.6	26.9	37.0	12.8	32.4	38.3	13.0	38.5	39.6	13.2	45.6	40.9	13.4
350	23.4	36.7	14.1	29.0	39.4	14.5	34.9	40.9	14.7	41.6	42.4	15.0	49.2	43.9	15.2
400	25.1	38.9	15.7	31.0	41.8	16.2	37.4	43.5	16.5	44.5	45.1	16.8	52.6	46.8	17.1
450	26.6	40.4	16.9	32.9	43.5	17.4	39.6	45.2	17.8	47.2	47.0	18.3	55.8	48.7	18.7
500	28.0	42.0	18.0	34.7	45.2	18.7	41.8	47.0	19.2	49.7	48.8	19.7	58.8	50.7	20.3
550	29.4	43.2	18.9	36.4	46.4	19.6	43.8	48.3	20.2	52.1	50.1	20.9	61.7	52.0	21.5
600	30.7	44.3	19.8	38.0	47.7	20.6	45.8	49.5	21.3	54.4	51.4	22.0	64.4	53.3	22.7
650	31.9	45.1	20.4	39.5	48.5	21.3	47.6	50.4	22.1	56.7	52.4	22.9	67.1	54.3	23.7
700	33.2	45.9	21.1	41.0	49.4	22.0	49.4	51.3	22.9	58.8	53.3	23.8	69.6	55.2	24.7
750	34.3	46.4	21.6	42.5	49.9	22.6	51.2	51.9	23.5	60.9	53.9	24.4	72.0	55.9	25.3
800	35.4	46.9	22.1	43.9	50.4	23.2	52.8	52.5	24.1	62.9	54.5	25.1	74.4	56.6	26.0
850	36.5	47.0	22.4	45.2	50.5	23.5	54.5	52.7	24.5	64.8	54.8	25.4	76.7	56.9	26.4
900	37.6	47.1	22.6	46.5	50.7	23.8	56.0	52.9	24.8	66.7	55.1	25.8	78.9	57.3	26.8

N.B. The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. Radius=radius of throw in meters. Nozzle at 1.5m above ground level. Height=maximum stream height in metres above nozzle.



Part and full circle model

Dimensions 44°



TWIN AP160 - Dust Control

Vari Angle 15° - 45°

AP160 Ultra - Taper bore nozzle 44° Trajectory

	Nozzle 28mm			Nozzle 30mm			Nozzle 32mm			Nozzle 34mm			Nozzle 36mm			Nozzle 38mm		
kPa	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height
300	52.6	42.2	13.5	60.4	43.4	13.6	69.1	44.6	13.6	77.5	45.8	13.7	86.8	47.0	13.7	97.0	48.3	13.8
350	56.8	45.4	15.5	65.2	46.6	15.6	74.6	47.9	15.6	83.7	49.2	15.7	93.7	50.5	15.8	104.7	52.0	15.9
400	60.7	48.5	17.4	69.7	49.9	17.6	79.8	51.2	17.7	89.4	52.6	17.8	100.2	54.0	17.9	112.0	55.8	18.0
450	64.4	50.5	19.1	74.0	52.0	19.3	84.6	53.6	19.5	94.9	55.1	19.7	106.3	56.6	19.8	118.8	58.5	20.0
500	67.9	52.5	20.8	78.0	54.2	21.0	89.2	55.9	21.3	100.0	57.6	21.5	112.0	59.3	21.8	125.2	61.2	21.9
550	71.2	53.8	22.1	81.8	55.7	22.4	93.5	57.5	22.7	104.9	59.3	23.0	117.5	61.2	23.3	131.3	63.1	23.5
600	74.4	55.2	23.4	85.4	57.2	23.7	97.7	59.1	24.1	109.5	61.1	24.4	122.7	63.1	24.8	137.1	65.1	25.1
650	77.4	56.2	24.5	88.9	58.2	24.9	101.7	60.3	25.3	114.0	62.3	25.7	127.7	64.3	26.1	142.7	66.5	26.5
700	80.3	57.2	25.5	92.2	59.3	26.0	105.5	61.4	26.5	118.3	63.5	27.0	132.5	65.6	27.4	148.1	67.8	27.9
750	83.1	57.9	26.2	95.5	60.1	26.8	109.2	62.2	27.3	122.5	64.3	27.8	137.2	66.5	28.4	153.3	68.7	28.9
800	85.9	58.7	26.9	98.6	60.8	27.5	112.8	63.0	28.1	126.5	65.1	28.7	141.7	67.3	29.3	158.3	69.7	29.8
850	88.5	59.1	27.4	101.6	61.3	28.0	116.3	63.5	28.6	130.4	65.7	29.3	146.0	67.9	29.9	163.2	70.3	30.5
900	91.1	59.5	27.8	104.6	61.7	28.5	119.6	64.0	29.2	134.2	66.2	29.8	150.3	68.5	30.5	168.0	70.9	31.1

Part No.	Description
TWAP160VA	Komet AP160 Series Full / Part Circle & Vari Angle - 15° - 45°

KOMET TWIN AP202 ULTRA SERIES SPRINKLER - *DUST CONTROL*

Part or Full Circle

Used for dust suppression.

Features

- Automatic speed control is a function of the materials used, internal parts are made from chemically treated stainless steel and inserted into an anodized housing to increase resistance to corrosion and wear.
- Large barrel is made of marine grade aluminium and internal vanes assist in long radius throws.
- The drive arm is made from polymers that ensure superior performance and strong resistance to wear. Reduced weight allows good operation at low pressures.
- Nozzles: 22mm - 45mm
- Optional 50mm BSP female connection available
- Twin AP202 VA trajectory angle 15° - 44° - Allows trajectory angle adjustments to suit stock pile configurations
- Flange - External diameter 168mm with 12 holes
  6 x 10.5mm holes on pitch circle of 146mm
  6 x 10.5mm holes on pitch circle of 130mm

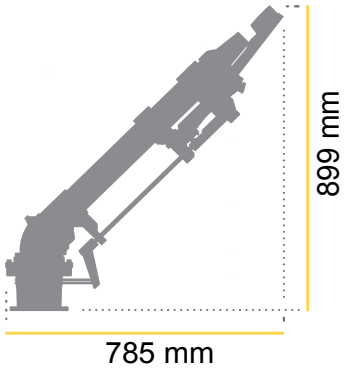
AP202 Ultra - Taper bore nozzle 15° - 45° Trajectory

	Nozzle 22mm			Nozzle 24mm			Nozzle 26mm			Nozzle 28mm			Nozzle 30mm			Nozzle 32mm		
kPa	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height
300	32.4	39.4	13.0	38.5	40.7	13.2	45.6	42.1	13.4	52.6	43.4	13.5	60.4	44.7	13.6	69.1	45.9	13.6
350	34.9	42.0	14.8	41.6	43.6	15.0	49.2	45.1	15.3	56.8	46.7	15.5	65.2	48.0	15.6	74.6	49.3	15.7
400	37.4	44.7	16.5	44.5	46.4	16.8	52.6	48.2	17.2	60.7	49.9	17.5	69.7	51.3	17.6	79.8	52.7	17.7
450	39.6	46.5	17.9	47.2	48.3	18.4	55.8	50.1	18.8	64.4	51.9	19.2	74.0	53.5	19.4	84.6	55.1	19.6
500	41.8	48.4	19.3	49.7	50.2	19.9	58.8	52.1	20.4	67.9	54.0	20.9	78.0	55.7	21.2	89.2	57.5	21.4
550	43.8	49.7	20.4	52.1	51.6	21.0	61.7	53.5	21.7	71.2	55.4	22.3	81.8	57.3	22.6	93.5	59.2	22.9
600	45.8	51.0	21.5	54.4	52.9	22.2	64.4	54.8	22.9	74.4	56.8	23.6	85.4	58.8	24.0	97.7	60.8	24.3
650	47.6	51.9	22.4	56.7	53.8	23.1	67.1	55.8	23.9	77.4	57.8	24.7	88.9	59.9	25.2	101.7	62.0	25.6
700	49.4	52.8	23.2	58.8	54.8	24.1	69.6	56.8	25.0	80.3	58.8	25.9	92.2	61.0	26.3	105.5	63.1	26.8
750	51.2	53.4	23.8	60.9	55.4	24.8	72.0	57.5	25.7	83.1	59.6	26.6	95.5	61.8	27.1	109.2	63.9	27.7
800	52.8	53.9	24.5	62.9	56.1	25.4	74.4	58.2	26.4	85.9	60.3	27.3	98.6	62.5	27.9	112.8	64.8	28.5
850	54.5	54.1	24.9	64.8	56.3	25.8	76.7	58.5	26.8	88.5	60.7	27.8	101.6	63.0	28.5	116.3	65.3	29.1
900	56.0	54.4	25.2	66.7	56.6	26.3	78.9	58.9	27.3	91.1	61.2	28.3	104.6	63.5	29.0	119.6	65.8	29.7

N.B. The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. Radius=radius of throw in meters. Nozzle at 1.5m above ground level. Height=maximum stream height in metres above nozzle.

Part and full circle model

Dimensions 44°



TWIN AP202 - Dust Control

Vari Angle 15° - 45°

AP202 Ultra - Taper bore nozzle 15° - 45° Trajectory

	Nozzle 34mm			Nozzle 36mm			Nozzle 38mm			Nozzle 40mm			Nozzle 42mm			Nozzle 44mm			Nozzle 45mm		
kPa	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height	m³/h	RAD (m)	Height
300	77.5	47.1	13.7	86.8	48.4	13.7	97.0	49.7	13.8	107.2	51.0	13.8	117.5	52.3	13.9	129.9	53.6	14.0	135.7	54.3	14.0
350	83.7	50.6	15.8	93.7	52.0	15.8	104.7	53.5	15.9	115.8	55.1	16.0	126.9	56.7	16.1	140.3	58.2	16.2	146.5	59.0	16.2
400	89.4	54.1	17.9	100.2	55.6	18.0	112.0	57.4	18.1	123.8	59.2	18.2	135.7	61.0	18.3	150.0	62.8	18.4	156.7	63.7	18.4
450	94.9	56.7	19.8	106.3	58.3	19.9	118.8	60.1	20.1	131.3	62.0	20.2	143.9	63.9	20.3	159.1	65.8	20.5	166.2	66.7	20.5
500	100.0	59.2	21.7	112.0	61.0	21.9	125.2	62.9	22.1	138.4	64.9	22.3	151.7	66.8	22.4	167.7	68.8	22.6	175.1	69.8	22.7
550	104.9	61.0	23.2	117.5	62.9	23.5	131.3	64.9	23.7	145.2	67.0	24.0	159.1	69.0	24.2	175.8	71.0	24.5	183.7	72.0	24.5
600	109.5	62.8	24.7	122.7	64.9	25.1	137.1	67.0	25.4	151.6	69.1	25.7	166.2	71.2	26.0	183.7	73.3	26.3	191.9	74.3	26.4
650	114.0	64.1	26.0	127.7	66.2	26.4	142.7	68.4	26.8	157.8	70.6	27.2	173.0	72.8	27.5	191.2	74.9	27.9	199.7	76.0	28.1
700	118.3	65.3	27.3	132.5	67.5	27.8	148.1	69.8	28.2	163.8	72.1	28.6	179.5	74.3	29.1	198.4	76.6	29.5	207.2	77.8	29.8
750	122.5	66.1	28.2	137.2	68.3	28.7	153.3	70.7	29.2	169.5	73.0	29.7	185.8	75.4	30.2	205.3	77.7	30.7	214.5	78.9	31.0
800	126.5	67.0	29.1	141.7	69.2	29.7	158.3	71.6	30.3	175.1	74.0	30.9	191.9	76.4	31.4	212.1	78.8	32.0	221.5	80.0	32.2
850	130.4	67.5	29.7	146.0	69.8	30.4	163.2	72.3	31.0	180.5	74.7	31.6	197.8	77.2	32.2	218.6	79.6	32.8	228.4	80.8	33.1
900	134.2	68.1	30.4	150.3	70.4	31.0	168.0	72.9	31.7	185.7	75.4	32.3	203.5	77.9	33.0	224.9	80.4	33.6	235.0	81.6	34.0

Part No.	Description
TWAP202VA	Komet AP202 Series Full / Part Circle & Vari Angle - 15° - 45°

KOMET TRIGON WASTE WATER SPRINKLER

Part or Full Circle

Designed for use in a wide range of operating conditions in waste water applications and in the mining industry.

Features

- Part and Full Circle
- Nozzles: 12mm - 24mm
- Trajectory angle 24°
- High tolerance to poor water quality
- Great reliability in operation
- Trajectory angle 10° - 26° Vari Angle
- Comes complete with nozzles
- 50mm BSP female inlet

Trigon 105 - Waste Water & Mining Taper bore nozzle, Trajectory 24°

	Nozzle 12mm		Nozzle 14mm		Nozzle 16mm		Nozzle 18mm		Nozzle 20mm		Nozzle 22mm		Nozzle 24mm	
kPa	Flow l/s	RAD (m)	Flow l/s	RAD (m)	Flow l/s	RAD (m)	Flow l/s	RAD (m)	Flow l/s	RAD (m)	Flow l/s	RAD (m)	Flow l/s	RAD (m)
200	2.17	22.1	2.96	24.0	3.86	25.0	4.89	26.0	6.04	27.6	7.30	28.6	8.69	29.4
250	2.43	24.5	3.31	26.4	4.32	27.8	5.47	29.3	6.75	31.3	8.17	32.4	9.72	33.6
300	2.66	26.0	3.62	28.1	4.73	30.0	5.99	32.0	7.39	34.3	8.95	35.5	10.65	37.3
350	2.87	27.5	3.91	29.6	5.11	32.3	6.47	34.6	7.99	36.9	9.66	38.4	11.5	40.8
400	3.07	28.8	4.18	31.2	5.46	33.9	6.91	36.9	8.54	39.4	10.33	41.2	12.29	44.0
450	3.26	29.9	4.44	32.6	5.80	35.8	7.33	38.9	9.05	41.7	10.96	43.8	13.04	46.4
500	3.44	31.0	4.68	34.0	6.11	37.4	7.73	40.5	9.54	43.7	11.55	46.0	13.74	48.5
550	3.60	31.9	4.91	35.1	6.41	38.7	8.11	42.3	10.01	45.6	12.11	48.2	14.42	50.6
600	3.76	33.1	5.12	36.2	6.69	39.9	8.47	43.8	10.46	47.4	12.65	50.1	15.06	52.4

Part No.	Description
TRIG105PC	Komet Trigon 105 Full Circle / Part Circle Sprinkler

SENNINGER SPRINKLERS

Mini Wobbler

Inverted Mini Wobbler

Xcel Wobbler

Low Angle Wobbler

Smooth Drive Sprinklers

Senninger Irrigation Inc.

MINI WOBBLER SPRINKLER

Used in nurseries for uniform coverage over large diameters at low pressure.

Features

- Inlet 15mm male
- Colour coded nozzles for easy size identification
- Multi level throw - 10° angle
- Flow rates: 97.2 - 648.0 L/hr
- Operating pressure: 100 - 300kPa
- Low evaporative loss

Metric - Diameter (metres)					
kPa	100	150	200	250	300
#4 Nozzle - Light Blue (1.59mm)					
(L/hr)	97.2	118.8	136.8	151.2	165.6
1.0m (m)	7.65	8.29	8.51	8.61	8.66
2.0m (m)	8.73	8.94	9.12	9.30	9.43
#5 Nozzle - Beige (1.98mm)					
(L/hr)	144.0	176.4	205.2	230.4	252.0
1.0m (m)	8.63	9.27	9.48	9.59	9.63
2.0m (m)	9.44	9.76	9.97	10.2	10.3
#6 Nozzle - Gold (2.38mm)					
(L/hr)	216.0	252.0	288.0	324.0	360.0
1.0m (m)	8.99	9.45	9.67	9.77	9.81
2.0m (m)	10.0	10.4	10.6	10.8	10.9
#7 Nozzle - Lime (2.78mm)					
(L/hr)	288.0	360.0	396.0	468.0	504.0
1.0m (m)	9.11	9.57	9.79	9.89	9.94
2.0m (m)	10.4	10.7	11.0	11.1	11.3
#8 Nozzle - Lime (3.18mm)					
(L/hr)	360.0	468.0	540.0	576.0	648.0
1.0m (m)	9.23	9.70	9.91	10.0	10.1
2.0m (m)	10.6	10.9	11.1	11.3	11.4

Part No.	Description
MINIWOBBLER-X	Mini Wobbler with nozzle
MW-N-4	Mini Wobbler nozzle Light Blue 1.59mm
MW-N-5	Mini Wobbler nozzle Beige 1.98mm
MW-N-6	Mini Wobbler nozzle Gold 2.38mm
MW-N-7	Mini Wobbler nozzle Lime 2.78mm
MW-N-8	Mini Wobbler nozzle Lavender 3.18mm

* Nozzles sold seperately
* Please specify nozzle when ordering

I-MINI WOBBLER SPRINKLER

Used in nurseries upside down for uniform coverage over large diameters at low pressure.

Features

- Inlet 15mm male
- Colour coded nozzles for easy size identification
- Multi level throw - 10° angle
- Flow rates: 97.2 - 648.0 L/hr
- Operating pressure: 100 - 300kPa
- Low evaporative loss

Metric - Diameter (metres)					
kPa	100	150	200	250	300
#4 Nozzle - Light Blue (1.59mm)					
(L/hr)	97.2	118.8	136.8	151.2	165.6
1.0m (m)	7.65	8.29	8.51	8.61	8.66
2.0m (m)	8.73	8.94	9.12	9.30	9.43
#5 Nozzle - Beige (1.98mm)					
(L/hr)	144.0	176.4	205.2	230.4	252.0
1.0m (m)	8.63	9.27	9.48	9.59	9.63
2.0m (m)	9.44	9.76	9.97	10.2	10.3
#6 Nozzle - Gold (2.38mm)					
(L/hr)	216.0	252.0	288.0	324.0	360.0
1.0m (m)	8.99	9.45	9.67	9.77	9.81
2.0m (m)	10.0	10.4	10.6	10.8	10.9
#7 Nozzle - Lime (2.78mm)					
(L/hr)	288.0	360.0	396.0	468.0	504.0
1.0m (m)	9.11	9.57	9.79	9.89	9.94
2.0m (m)	10.4	10.7	11.0	11.1	11.3
#8 Nozzle - Lime (3.18mm)					
(L/hr)	360.0	468.0	540.0	576.0	648.0
1.0m (m)	9.23	9.70	9.91	10.0	10.1
2.0m (m)	10.6	10.9	11.1	11.3	11.4

Part No.	Description
UPDMWOBB	Upside down Mini Wobbler with nozzle
MW-N-4	Mini Wobbler nozzle Light Blue 1.59mm
MW-N-5	Mini Wobbler nozzle Beige 1.98mm
MW-N-6	Mini Wobbler nozzle Gold 2.38mm
MW-N-7	Mini Wobbler nozzle Lime 2.78mm
MW-N-8	Mini Wobbler nozzle Lavender 3.18mm

* Nozzles sold seperately
* Please specify nozzle when ordering

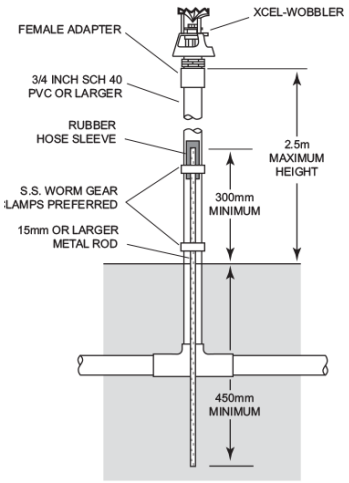
XCEL WOBBLER SPRINKLER - HIGH ANGLE 24° TRAJECTORY

Senninger's high angle 24° Xcel Wobbler maximises the area of coverage. It's unique off-centre rotary-action provides extremely uniform coverage at low pressures with a very low evaporative loss. Suitable for above ground sprinkler installation for all row crops and mining heap leach processes.

Features

- Inlet 20mm male (15mm option also available)
- Colour coded nozzles for easy size identification
- New balanced design produces a smooth, stable performance
- Only one moving part for longer life
- Built for strength and durability using high-impact engineering grade thermoplastics, no metal parts
- Flow rates: 0.05 L/s - 0.47 L/s

Metric - Diameter (metres)				
(bar)	**0.75**	**1.0**	**1.5**	**2.0**
(psi)	*10.88*	*14.50*	*21.75*	*29.00*
#6 Nozzle - Gold (2.38mm)				
(L/s)	0.05	0.06	0.07	0.08
0.5m (m)	12.2	12.7	13.3	13.5
#7 Nozzle - Lime (2.78mm)				
(L/s)	0.07	0.08	0.10	0.11
0.5m (m)	12.5	13.0	13.6	13.8
#8 Nozzle - Lavender (3.18mm)				
(L/s)	0.9	0.11	0.13	0.15
0.5m (m)	12.8	13.3	13.9	14.1
#9 Nozzle - Grey (3.57mm)				
(L/s)	0.12	0.14	0.17	0.19
0.5m (m)	13.1	13.6	14.2	14.4
#10 Nozzle - Turquoise (3.97mm)				
(L/s)	0.15	0.17	0.21	0.24
0.5m (m)	13.4	13.9	14.5	14.8
#11 Nozzle - Yellow (4.37mm)				
(L/s)	0.18	0.20	0.25	0.29
0.5m (m)	13.7	14.2	14.8	15.1
#12 Nozzle - Red (4.76mm)				
(L/s)	0.21	0.25	0.30	0.35
0.5m (m)	14.0	14.6	15.1	15.4
#13 Nozzle - White (5.16mm)				
(L/s)	0.25	0.29	0.35	0.41
0.5m (m)	14.3	14.9	15.4	15.7
#14 Nozzle - Blue (5.56mm)				
(L/s)	0.29	0.33	0.41	0.47
0.5m (m)	14.6	15.2	15.6	15.8



Part No.	Description
XCELWOBBO-HA	20mm Male Wobbler 24° Trajectory - requires WNXX Nozzle

* Nozzles sold seperately
* Please specify nozzle when ordering

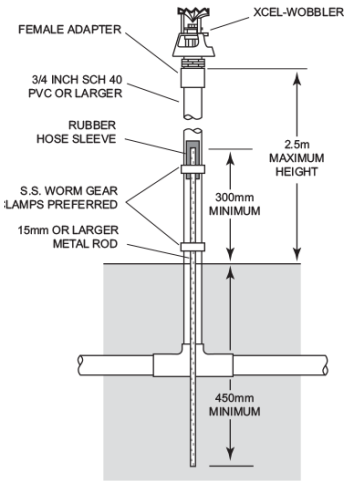
XCEL WOBBLER SPRINKLER - MID ANGLE 18° TRAJECTORY

Senninger's mid angle 18° Xcel Wobbler provides a wind resistant pattern. It's unique off-centre rotary-action provides extremely uniform coverage at low pressures with a very low evaporative loss. Suitable for above ground sprinkler installation for all row crops and mining heap leach processes.

Features

- Inlet 20mm male (15mm option also available)
- Colour coded nozzles for easy size identification
- New balanced design produces a smooth, stable performance
- Only one moving part for longer life
- Built for strength and durability using high-impact engineering grade thermoplastics, no metal parts
- Flow rates: 0.05 L/s - 0.47 L/s

Metric - Diameter (metres)				
(bar)	**0.75**	**1.0**	**1.5**	**2.0**
(psi)	*10.88*	*14.50*	*21.75*	*29.00*
#6 Nozzle - Gold (2.38mm)				
(L/s)	0.05	0.06	0.07	0.08
0.5m (m)	10.6	11.7	13.1	13.4
#7 Nozzle - Lime (2.78mm)				
(L/s)	0.07	0.08	0.10	0.11
0.5m (m)	10.8	11.9	13.2	13.5
#8 Nozzle - Lavender (3.18mm)				
(L/s)	0.9	0.11	0.13	0.15
0.5m (m)	10.9	12.0	13.4	13.7
#9 Nozzle - Grey (3.57mm)				
(L/s)	0.12	0.14	0.17	0.19
0.5m (m)	11.1	12.2	13.5	13.8
#10 Nozzle - Turquoise (3.97mm)				
(L/s)	0.15	0.17	0.21	0.24
0.5m (m)	11.2	12.3	13.7	14.0
#11 Nozzle - Yellow (4.37mm)				
(L/s)	0.18	0.20	0.25	0.29
0.5m (m)	11.4	12.5	13.8	14.1
#12 Nozzle - Red (4.76mm)				
(L/s)	0.21	0.25	0.30	0.35
0.5m (m)	11.5	12.6	14.0	14.3
#13 Nozzle - White (5.16mm)				
(L/s)	0.25	0.29	0.35	0.41
0.5m (m)	11.7	12.8	14.1	14.4
#14 Nozzle - Blue (5.56mm)				
(L/s)	0.29	0.33	0.41	0.47
0.5m (m)	11.9	13.0	14.3	14.6



Part No.	Description
XCELWOBBO-MA	20mm Male Wobbler 18° Trajectory - requires WNXX Nozzle

WOBBLER SPRINKLER - LOW ANGLE 12° TRAJECTORY

Senninger Wobbler has a unique off-centre rotary-action design which provides extremely uniform coverage at low pressures over a large diameter. Suitable for above ground sprinkler installation for all row crops and mining heap leach processes.

Features

- Inlet 20mm male
- Colour coded nozzles for easy size identification
- New balanced design produces a smooth, stable performance
- Only one moving part for longer life
- Built for strength and durability using high-impact engineering grade thermoplastics, no metal parts
- Flow rates: 0.05 L/s - 0.75 L/s

Low Angle Wobbler	Nozzle Pressure (kPa)			
	75	100	150	200
#6 Nozzle - Gold (2.38mm)				
Flow (L/s)	0.05	0.06	0.07	0.08
Diameter at 46cm riser	9.00	9.70	10.7	11.0
#7 Nozzle - Lime (2.78mm)				
Flow (L/s)	0.07	0.08	0.10	0.12
Diameter at 46cm riser	9.40	10.0	11.0	11.3
#8 Nozzle - Lavender (3.18mm)				
Flow (L/s)	0.09	0.11	0.13	0.15
Diameter at 46cm riser	9.90	10.3	11.2	11.6
#9 Nozzle - Grey (3.57mm)				
Flow (L/s)	0.12	0.14	0.17	0.20
Diameter at 46cm riser	10.2	10.6	11.5	11.8
#10 Nozzle - Turquoise (3.97mm)				
Flow (L/s)	0.15	0.17	0.21	0.24
Diameter at 46cm riser	10.5	10.9	11.7	12.1
#11 Nozzle - Yellow (4.37mm)				
Flow (L/s)	0.18	0.20	0.25	0.29
Diameter at 46cm riser	10.5	11.1	12.0	12.4
#12 Nozzle - Red (4.76mm)				
Flow (L/s)	0.21	0.24	0.30	0.34
Diameter at 46cm riser	10.6	11.3	12.3	12.8
#13 Nozzle - White (5.16mm)				
Flow (L/s)	0.25	0.28	0.35	0.40
Diameter at 46cm riser	10.9	11.6	12.6	13.1
#14 Nozzle - Blue (5.56mm)				
Flow (L/s)	0.28	0.32	0.40	0.46
Diameter at 46cm riser	11.1	11.8	12.9	13.4
#15 Nozzle - Dark Brown (5.95mm)				
Flow (L/s)	0.33	0.38	0.46	0.53
Diameter at 46cm riser	11.4	12.1	13.1	13.5
#16 Nozzle - Orange (6.35mm)				
Flow (L/s)	0.37	0.42	0.52	0.60
Diameter at 46cm riser	11.7	12.3	13.2	13.7
#17 Nozzle - Dark Green (6.75mm)				
Flow (L/s)	0.41	0.47	0.58	0.67
Diameter at 46cm riser	12.0	12.5	13.4	13.8
#18 Nozzle - Purple (7.14mm)				
Flow (L/s)	0.46	0.53	0.65	0.75
Diameter at 46cm riser	12.3	12.8	13.5	14.0

Part No.	Description
WOBBO-LA	20mm Male Wobbler 12° Trajectory

* Nozzles sold seperately
* Please specify nozzle when ordering

SENNINGER SMOOTH DRIVE SPRINKLERS

Senninger's Smooth Drive sprinkler is designed for under tree, open field and nursery irrigation. The unique "walking diffuser" delivers a uniform pattern without distortion from bracket legs.

Features

- Even gentle application
- Precision contoured deflector providing throw and enhanced distribution
- Advanced braking mechanism ensures smooth consistent rotation speed and minimal riser stress
- Rugged design stands up to harsh field conditions
- No tools required for accessing nozzles
- No bracket leg shadow (dry areas)
- Trajectory: Changing between 22° and 14° during rotation
- Standard Inlet: 15mm
- Colour coded nozzles for easy size identification

Performance				
Model	**175kPa**	**200kPa**	**250kPa**	**275kPa**
SD2214-Gold (2.38mm)				
Flow Lpm	4.65	4.98	5.58	5.86
Radius at 0.5m height	8.9	9.05	9.3	9.4
SD2214-Lime (2.78mm)				
Flow Lpm	6.4	6.85	7.65	8.01
Radius at 0.5m height	9.25	9.45	9.85	9.95
SD2214-Lavender (3.18mm)				
Flow Lpm	8.43	9.0	10.08	10.55
Radius at 0.5m height	9.3	9.55	10.05	10.2

Part No.	Description
SD2214-GOLD	Smooth Drive with gold nozzle (2.38mm)
SD2214-LIME	Smooth Drive with lime nozzle (2.78mm)
SD2214-LAVENDER	Smooth Drive with lavender nozzle (3.18mm)

N.B. Sprinkler performance may vary with actual field conditions. Minimum recommended height is 0.46m.

SENNINGER REGULATORS

PRLG

PSR

PMR-LF

PMR-MF

PMR-HF

PRLV

Senninger
Irrigation Inc.

PRLG - PRESSURE REGULATOR LANDSCAPE GRADE

Senninger's PRLG maintains a constant preset outlet pressure with varying inlet pressures. This alleviates pressure differences which will cause an applicator's area of coverage to change.

Features

- Maintains a constant preset outlet pressure while handling varying inlet pressures
- Prevents wasteful misting when using small nozzles
- Tamper-proof housing
- Large flow path resists plugging
- Caution - Always install downstream from all shut-off valves
- Flow: 0.37 - 26.5 Lpm
- Ideal for installations requiring lower flows
- Size: 20mm MxF
- Preset Operating Pressure: 15psi - 25psi

Part No.	Description
PRLG15	Lawn & Garden Pressure Regulator 15psi
PRLG20	Lawn & Garden Pressure Regulator 20psi
PRLG25	Lawn & Garden Pressure Regulator 25psi

N.B. Regulated pressure is 1/2psi (0.03bar) higher with increasing inlet pressure than with decreasing inlet pressure.

PSR - PIVOT-SPECIAL REGULATOR™

Senninger's Pivot-Special Regulator™ is designed to handle flows from 1.9 - 57 Lpm along the length of a centre pivot, as well as those associated with other mechanical-move systems.

Features

- Maintains a constant preset outlet pressure while handling varying inlet pressures
- Patented design
- Tamper-proof housing
- Large flow path resists plugging
- Caution - Always install downstream from all shut-off valves
- Flow: 1.9 - 57 Lpm
- Size: 20mm FxF
- Used for centre pivot and other mechanical-move systems and can be installed at the top of the drop or near the applicator.

Part No.	Description
PSR10	68kPa Pressure Regulator 20mm F x 20mm F
PSR15	100kPa Pressure Regulator 20mm F x 20mm F
PSR20	140kPa Pressure Regulator 20mm F x 20mm F
PSR25	170kPa Pressure Regulator 20mm F x 20mm F
PSR30	205kPa Pressure Regulator 20mm F x 20mm F
PSR40	275kPa Pressure Regulator 20mm F x 20mm F
PSR50	344kPa Pressure Regulator 20mm F x 20mm F

N.B. Regulated pressure is 1/2psi (0.03bar) higher with increasing inlet pressure than with decreasing inlet pressure.

PMR-LF - PRESSURE REGULATOR LOW FLOW

Senninger's PMR-LF is ideal for installations requiring lower flows of 0.4 -30.2 Lpm including solid-set, drip and other low volume irrigation systems, as well as centre pivot and other mechanical-move irrigation systems.

Features

- Maintains a constant preset outlet pressure while handling varying inlet pressures
- Can be installed above or below ground
- Tamper-proof housing
- Large flow path resists plugging
- Caution - Always install downstream from all shut-off valves
- Flow: 0.4 - 30.2 Lpm
- No external metal parts for excellent corrosion resistance
- Size: 20mm FxF

Part No.	Description
PMR10LF 20x20	68 kPa Pressure Regulator LF 20mm F x 20mm F
PMR12LF 20x20	82kPa Pressure Regulator LF 20mm F x 20mm F
PMR15LF 20x20	103kPa Pressure Regulator LF 20mm F x 20mm F
PMR 25LF 20x20	170kPa Pressure Regulator LF 20mm F x 20mm F

N.B. Regulated pressure is 1/2psi (0.03bar) higher with increasing inlet pressure than with decreasing inlet pressure.

PMR-MF - PRESSURE-MASTER REGULATOR MEDIUM FLOW

Senninger's PMR-MF is ideal for installations requiring mid range flows of 7.5 -75Lpm including solid-set, drip and other low volume irrigation systems, as well as centre pivot and other mechanical-move irrigation systems.

Features

- Maintains a constant preset outlet pressure while handling varying inlet pressures
- Patented design
- Tamper-proof housing
- Large flow path resists plugging
- Caution - Always install downstream from all shut-off valves
- Flow: 7.5 - 75 Lpm
- Size: 20mm FxF

Part No.	Description
PMR15MF 20X20	100kPa Pressure Regulator MF 20mm F x 20mm F
PMR20MF 20X20	140kPa Pressure Regulator MF 20mm F x 20mm F
PMR25MF 20X20	170kPa Pressure Regulator MF 20mm F x 20mm F
PMR25MF 25X25BSP	170kPa Pressure Regulator MF 25mm F x 25mm F
PMR30MF 20X20	205kPa Pressure Regulator MF 20mm F x 20mm F
PMR40MF 20X20	275kPa Pressure Regulator MF 20mm F x 20mm F
PMR50MF 20X20	350kPa Pressure Regulator MF 20mm F x 20mm F
PMR60MF 20X20	413kPa Pressure Regulator MF 20mm F x 20mm F

N.B. Regulated pressure is 1/2psi (0.03bar) higher with increasing inlet pressure than with decreasing inlet pressure.

PMR-HF - PRESSURE REGULATOR HIGH FLOW

Senninger's PMR-HF is ideal for installations requiring higher flows of 38 - 131 Lpm including solid-set sprinkler, low-volume manifolds and mechanical move irrigation systems.

Features

- Maintains a constant preset outlet pressure while handling varying inlet pressures
- Can be installed above or below ground
- Tamper-proof housing
- Large flow path resists plugging
- Caution - Always install downstream from all shut-off valves
- Flow: 38 - 131 Lpm
- Constructed of high-impact engineering-grade thermoplastics with a high quality stainless steel compression spring and securing screws
- Size: 32mm F x 25mm F

Part No.	Description
PMR15HF 32x25	100kPa Pressure Regulator HF 32mm F x 25mm F
PMR20HF 32x25	140kPa Pressure Regulator HF 32mm F x 25mm F
PMR30HF 32x25	206kPa Pressure Regulator HF 32mm F x 25mm F BSP
PMR50HF 32x25	344kPa Pressure Regulator HF 32mm F x 25mm F

N.B. Regulated pressure is 1/2psi (0.03bar) higher with increasing inlet pressure than with decreasing inlet pressure.

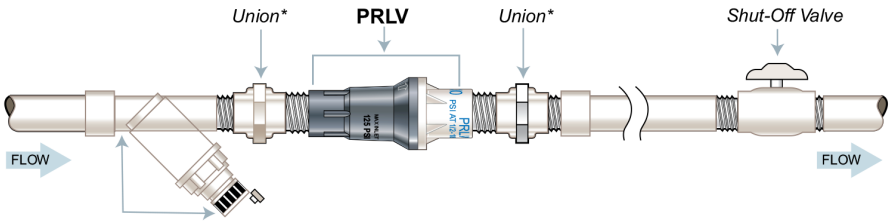
PRLV - PRESSURE REGULATING LIMIT VALVE

Senninger's PRLV is designed to handle flows from 2.25 - 67.5 Lpm. It is used in place of standard pressure regulators to limit static (no flow) water pressure when a shut-off valve is used downstream from a regulation point. This limits downstream presssure and protects downstream components.

Features

- Maintains a constant preset outlet pressure while handling varying inlet pressures
- Limits downstream pressure to no more than 15psi above regulated pressure rating during static (no flow) conditions
- Can be connected to garden taps to protect tap timers from over pressure. Downstream pressure into tap timer is maintained at set regulated pressure when timer is open or closed.
- Large flow path resists plugging
- Flow: 2.25 - 67.5 Lpm
- Size: 20mm FxF

PRLV Recommended Installation



Part No.	Description
PRLV30	Pressure Regulating Limit Valve - 207kPa
PRLV40	Pressure Regulating Limit Valve - 275kPa
PRLV50	Pressure Regulating Limit Valve - 344kPa

N.B. Regulated pressure is 1/2psi (0.03bar) higher with increasing inlet pressure than with decreasing inlet pressure.

MANUFACTURERS

IMPORTERS & DISTRIBUTORS OF

QUALITY IRRIGATION EQUIPMENT

PERTH
PH: 08 9455 1677
FAX: 08 9455 1680
hrsales@hrproducts.com.au

SYDNEY
PH: 02 9725 5733
FAX: 02 9725 5283
infonsw@hrproducts.com.au

MELBOURNE
PH: 03 9457 7500
FAX: 03 9457 7400
infovic@hrproducts.com.au

BRISBANE
PH: 07 3806 0522
FAX: 07 3806 0533
infoqld@hrproducts.com.au

ADELAIDE
PH: 08 8341 0008
FAX: 08 8341 0707
infosa@hrproducts.com.au

www.hrproducts.com.au