

# *A.R.S - Aqua Royal Spring*



***GYRO-Turbo  
Mining Sprinklers  
For Copper ,  
Gold &  
Uranium Ore .***

***High Quality  
Mining  
Sprinkler***



***Optimal Drop Size  
For Best Uniform Percolation***

# **GYRO- Turbo** *Sprinklers* *For Cooper, Gold & Uranium Ore.*

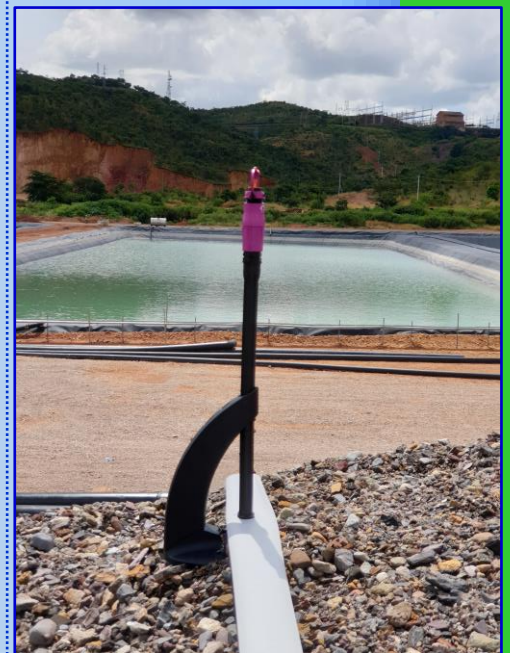
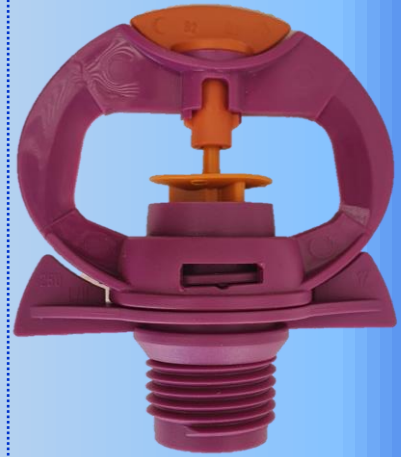
The ultimate Turbo Sprinkler for full coverage.  
for heap leaching in Copper , Nickel,Uranium and Gold  
Mines.

## **Specifications**

- 💧 Very robust -Sprinkler
- 💧 Gyro sprinkler , 5 different flow rates :  
200 , 250 , 300 , 400 , 500 l/h.
- 💧 Nominal flow rates at 1.8 to 2.5 bar
- 💧 Maximum recommended working pressure : 2.8 bar
- 💧 Inlet connector : 1/2" threaded male
- 💧 The rotor is colored Orange

## **Features and benefits**

- 💧 Anti-dust mechanism prevents dust penetration into the  
area of the sprinkler nozzle .
- 💧 Optimal drop size for dissolved oxygen in the solution  
(15% more)
- 💧 Optimal drop size for best Uniform Percolation.
- 💧 Sprinkler made of plastic materials resistant to acid  
solutions used in heap leaching.
- 💧 Specially design for full coverage irrigation where  
optimal uniformity distribution of solution is required.
- 💧 Wear resistant with Everspin™ bearing.
- 💧 Easy maintenance and cleaning.
- 💧 Relatively low working pressure.
- 💧 Low bridge "shade" to improve uniformity distribution.
- 💧 Long tem reliable service.
- 💧 Excellent distribution uniformity.



# GYRO- Turbo *Technical Data*



Model L/h	Nozzle color	Nozzle diameter (mm)	Max. working pressure bar	Swivel color
200	Black	1.89	3.0	Orange
250	Purple	2.14	3.0	Orange
300	Black	2.31	3.0	Orange
400	Black	2.67	3.0	Orange
500	Black	3.00	3.0	Orange

*Flow Rate vs. Pressure (l/h vs. bar)  
Working pressure (bar)*

Model L/h	1.8 Bar	2.0 Bar	2.5 Bar	3.0 Bar
200	180	190	213	233
250	231	244	273	299
300	271	287	321	351
400	368	388	434	475
500	460	485	543	594



# GYRO- Turbo *Performance Data*



**Performance at Working Pressure at 2.3 bar**  
**Sprinklers position -Triangular**

Model	Nominal flow rate l/h	Height M	Distance between Pipes/Line M	Distance between Emitters M	DU %	L/H 2m
Gyro- Turbo	200	0.5	4.0	4.0	96%	12.5
Gyro- Turbo	200	0.5	4.5	4.5	96%	9.8
Gyro- Turbo	200	0.5	5.0	4.5	96%	8.8
Gyro- Turbo	200	0.5	5.0	5.0	96%	8.0
Gyro- Turbo	250	0.5	4.0	4.0	96%	15.6
Gyro- Turbo	250	0.5	4.5	4.5	95%	12.3
Gyro- Turbo	250	0.5	5.0	5.0	93%	10.0
Gyro- Turbo	250	0.5	5.5	5.5	94%	8.25
Gyro- Turbo	300	0.5	4.0	4.0	97%	18.75
Gyro- Turbo	300	0.5	4.5	4.5	96%	14.8
Gyro- Turbo	300	0.5	5.0	5.0	95%	12.0
Gyro- Turbo	300	0.5	5.5	5.5	95%	9.9
Gyro- Turbo	400	0.5	4.0	4.0	97%	25.0
Gyro- Turbo	400	0.5	5.0	5.0	96%	16.0
Gyro- Turbo	400	0.5	5.5	5.5	96%	13.2
Gyro- Turbo	500	0.5	5.0	5.0	96%	20.0
Gyro- Turbo	500	0.5	5.5	5.5	95%	16.5
Gyro- Turbo	500	0.5	6.0	6.0	95%	13.8

DU % = Dispersion Uniformity



# Pressure Regulators

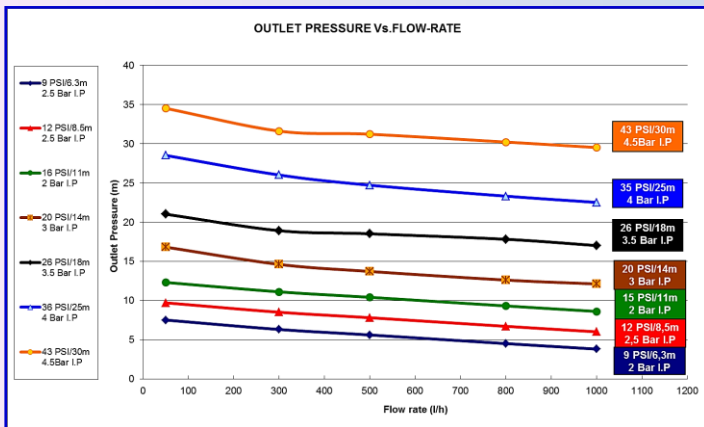
## OVERVIEW

- Ensuring continuous non-peak, consistent pressure and maximum system uptime, our highly accurate pressure regulators are available in two models.
- In-line PRV: Located at the Dripperline, sprinkler or conduction/distribution pipe entry point, this model is suitable for low-flow rates that are most prevalent in sloped irrigation applications.

### In-Line PRV Low Flow pressure regulator

- Plastic body, corrosion resistant.
- Stainless steel spring.
- Min. flow rate 50 l/h, max. flow rate 1000 l/h.
- Inlet and outlet connector 1/2 and 3/4" female.
- Max. inlet pressure: 10 bar.
- Spring for drip irrigation: 1.1, and 1.4 bar.
- Spring for sprinklers: 1.8 , 2.5 bar with 1/2" female threaded at the outlet.

### In-line PRV Outlet Pressure VS.



Item Code	Description	Flow Range m3/H	Nominal Output Pressure Bar	Max Operating Pressure Bar
31000-001115	Inline P.R.V. 3/4x 1.1 Bar / 16-Psi Mining	0.05-1	1.10	4.0
31000-001180	Inline P.R.V. 3/4x 1.8 Bar / 26-Psi Mining	0.05-1	1.80	4.0
31000-001300	Inline P.R.V. 3/4 x 2.5 Bar / 36-Psi Mining	0.05-1	2.50	4.0
31000-002300	Inline P.R.V. 3/4 x 1/2" 1.1 Bar / 16-Psi Mining	0.05-1	1.10	4.0
31000-002360	Inline P.R.V. 3/4"*1/2" 1.8 Bar /26-Psi Mining	0.05-1	1.80	4.0
31000-002390	Inline P.R.V. 3/4"*1/2" 2.5 Bar/ 36-Psi Mining	0.05-1	2.50	4.0
31000-002395	Inline P.R.V. 3/4"*1/2" 3.0 Bar/ 43-Psi Mining	0.05-1	2.50	4.0

# MegaStand™ Sprinkler stand installation with flexible pipes.

The new MegaStand Irrigation technology is maximum system performance is changing the face of heap leach mining operations by maximizing high uniformity percolation and metal extraction from the Heap Leaching. Combination between MegaNet™, GyroNet™ Turbo sprinklers with male thread inlet connector 1/2" and flexible pipes FlatNet™. The MegaStand is manufactured from PP Raw material Poly Propylene.



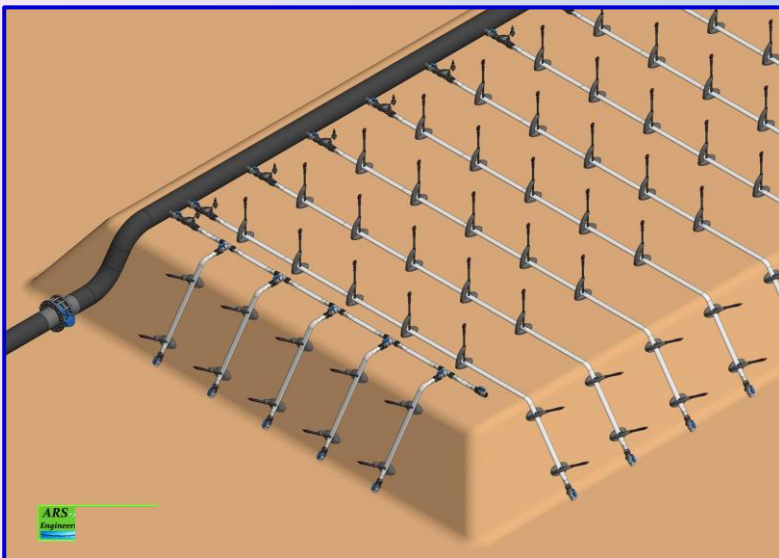
**Riser 0.40 cm** In order to ensure high uniformity all over the pad



**The Arm to Support the Riser**



**The Base to ensure the Sprinkler stability, both horizontally and vertically**



ARS  
Engineering

**ARS - Aqua Royal Spring**  
Engineering Mining Solutions



# MegaStand™

Optimal drop size for best  
Uniform Percolation.





## *High Quality Leach Systems*



*More  
Production  
More Copper  
More Gold  
More Uranium  
More Money*



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