

Agriculture products

Impact sprinklers

A10

Small discharge sprinkler, ideal for greenhouses, orchards, parks and garden irrigation. Available in two models: full circle and part circle with adjustable sector.

A20

Small medium discharge sprinkler, useful portable, permanent anti frost systems, adapted for many different cultures. Available models : sector and full circle with 1 or 2 nozzles.

A25

Small and medium discharge sprinkler, useful for portable, permanent and anti frost systems, adapted for many different cultures. Available models : sector and full circle with 1 or 2 nozzles.

A30

Medium discharge sprinklers particularly suitable for permanent system or solid set. Due to their remarkable distribution uniformity they are ideal for every kind of cultures. Operating over full or part circle.

A35

Medium discharge sprinklers particularly suitable for permanent system or solid set. Due to their remarkable distribution uniformity they are ideal for every kind of cultures. Operating over full or part circle.

A40

Medium discharge sprinklers particularly suitable for permanent system or solid set. Due to their remarkable distribution uniformity they are ideal for every kind of cultures. Operating over full or part circle.

A60 – A80

Medium and large discharge rainguns, operating at full or part circle with slow return suitable for travellers and permanent or portable installations. These models, due to their innovative characteristics, give a particularly smooth working set which prevent every vibration or counterstroke.

B 100 S – B 120 SL

Large discharge and log throw rainguns, operating at full or part circle, particularly suited for travellers. They are manufactured according with the most advanced engineering in order to face the hardest working conditions.

Turbine rainguns

P 4/N

Medium discharge and pressure raingun, rotating at uniform speed over full or part circle. Equipped with interchangeable nozzles of different sizes and an adjustable jet-breaker, providing an uniform distribution all over the irrigated area.

P 105/2

Large discharge and high pressure raingun rotating with constant speed; full or adjustable part circle. It is equipped with several different nozzle size to ensure a good misting of the stream.

P 120/2

It is a raingun equipped by a special gear, allowing two speeds. Higher speed for tender crops and seeding or slower speed for normal cultures.

P 64 – P 4

Medium discharge and pressure raingun, mechanical operation full or part circle. Protected gear box to save from the action of the water.

P 84

Large discharge raingun, suitable for high and medium pressure irrigation systems. It operates mechanically and rotates over a full or part circle.

P 105

Large discharge and long throw raingun, particularly suitable for high pressure irrigation systems. Mechanically operated, full or part circle.

Telescopic hydrants

AGRIPOP

Telescopic hydrant down in the ground, studied for mounting on underground distribution lines of low pressure irrigation systems. The top of the closed hydrant is placed 50 cm below the ground level in order to permit a free soil tillage. It raise up with water pressure of the system. Once that the hydrant top is out, it needs to insert a sprinkler riser and than can irrigate normally according the seasonal requirements. At the end of the season, after the removing of the sprinkler riser, with a simple manual push down, the telescopic hydrant goes back into own seat to stay at 50 cm dept from top of the soil; the ground is therefore free from any hindrance for any tillage.

ADVANTAGES

The AGRIPPOP hydrant permits:

- a considerable manpower saving for normal tillage: ploughing, harrowing, in-crop chemigation, seeding, harvesting, etc., allowing to make use of every kind of agricultural equipment;
- to eliminate the uncultivated area and the weeds growing around the fixed risers;
- to exploit completely the field areas;
- to avoid accidental breaking of irrigation system while working with farming machines, and consequently saving in maintenance and management.

The AGRIPPOP hydrant can be utilized for every kind of crops and irrigation system at low and medium discharge; moreover can be disassembled and inspected at any time without open the distribution lines.

It is the best to complete the irrigation in the external area not irrigated by pivots.

CONSTRUCTION CHARACTERISTICS

The AGRIPPOP hydrant is constituted by:

- high sturdy plastic plug with calibrated holes for water discharge;
- inox steel hydrant top with bayonet catch for sprinkler riser;
- inox steel riser anti adherent for an easy push down;
- inox steel retaining ring to hold the wiper seal;
- special wiper seal for a perfect hydraulic closure to maintain clean the riser during thepushing down;
- galvanized steel hydrant body, or in PVC or inox steel;
- galvanized, tared, PVC or inox steel doubled coupler for pipe diameters from 75 and up;
- the hydrant AGRIPPOP is soil moisture proof.

FUNCTIONING OF THE IRRICAR SERIES IV AND V

Partially inlet flow turbine permits a rewinding of the polyethylene hose at an adjustable speed, with partial use of hydraulic power applied to a special 44-speed compensator. Engine operating system particularly suitable for the medium and large machines: a diesel engine act the rewinding of the hose allowing a saving of hydraulic power, besides the operating of the oily dynamics system and use of the IRRICAR with low pressures. It is also possible to strew liquid manure constant and regular hose rewinding by a special speed compensator.

ALL IRRICAR MODELS ARE EQUIPPED WITH

- Automatic hose retrieve stop at the end of the irrigation or in case of irregular rewinding
- Medium density PE pipe manufactured for this purpose
- Fully hot galvanized frame
- Hot galvanized sprinkler trolley with adjustable track
- Accident prevention protection for all moving parts
- Automatic brake for irregular winding
- Fast hose rewinding by means of pto
- High pressure connecting pipe with fittings

Series F - Mechanical fixed

The F series machine, with pipes from Ø 63 have been designed for the use in small fields, sports grounds, and municipal areas. Their small dimensions and simple working principle, are the most distinctive qualities of these models characterized by a frame with a "Fixed" reel.

Series V - Mechanical rotating

The V series machines with pipes from Ø 63 to Ø 140, are simple and functional and answer to all the operator' s needs. They are equipped with:

- Turntable for irrigation in different positions
- Lifting of the trolley and positioning of the brackets by means of a double effect hydraulic pump.

SERIES IV: Hydraulics

The IV series are produced with pipes from Ø 90 to Ø 150 and are equipped with a controller which allows to perform all the positioning operations effort less, operating on the hydraulic devices such as:

- Stationary positioning on platform
- 360° rotation with independent lifting of the wheels
- Positioning of the stabilizing brackets and of the shaft
- lifting of the sprinkler trolley

Pivot and lateral systems

CENTERSTAR 5000: the correct model for every situation. A comprehensive product range and an almost limit-less selection of irrigation accessories provide the best choice without compromise.

CENTERLINER 5000: The economic solution for all cultivated areas and crops. Optimum utilization of area thanks to intelligent control system and high flexibility even on intersected diverse terrain. The Centerliner 5000 excels with high irrigation quality at low energy expenses

- CLS Model

4-wheel central unit: 2 rigid hose connections in the front + at the back
Manual rotation of the centre tower. Furrow control or cable guidance

- CLE Model

4-wheel central unit: flexible hose connection for automatic reverse mode without having to re-couple the hose

Automatic turning of the towers. Furrow control or cable guidance

- CLX Model

4-wheel central unit: flexible hose connection for automatic reverse mode without having to re-couple the hose

Rotation of central unit for L-shaped irrigation areas

Automatic turning of the towers.

LINESTAR 5000: Rigid structure of the system strictly jointed with the central unit, for irrigation of large rectangular shaped areas

- 2-4 wheel central unit with hose feed
- 4 wheel central unit with ditch feed
- Furrow guidance, cable guidance or buried wire guidance

Pumps

Centrifugal pumps with overdrive for tractors - Serie NT medium and high pressure

The NT SERIES pumps, being connected by universal joint to the pto of tractors from 18 to 180 hp, are ideal for every irrigation system. The NT SERIES pumps are a synonymous with quality for their high efficiency, the precise construction and the safety in operation. Different model are available, with a wide range of gears that match perfectly any type of tractor.

CONSTRUCTION

- Overdrive made by a couple of cylindrical gears with helical teeth mounted on well-dimensioned ball bearings.
- Lubrication by oil bath
- Water - circulation cooling system
- Centrifugal pump with 1 or 2 impellers
- Cast iron impellers dynamically balanced mounted on chromed shaft to allow a long life to the adjustable packed gland.

PUMP WITH OVERDRIVE FOR INDUSTRIAL MOTORS

The MF SERIES pump with 1 o 2 impellers are constructed similarly to the NT series pumps and have been particularly studied for high and medium head range of motor pump units. The speed multiplier with in oil bath gear allows the single stage pump to reach the right speed according to the available power for the best efficiency. These pumps are built for coaxial coupling to stationary engine with from 40 to 200 HP.

Vertical line pump

Vertical line pump for deep wells from 6" to 10" with discharge and head upon request. They are essentially built up of:

- foot metal strainer and foot valve
- impellers with rubber bearing and rubber ring guidance
- column pipe with carbon steel shaft
- drive head with three standard versions:
 - right angle gear drive head for thermal engine
 - drive head with right angle gear and overdrive for tractor
 - drive head directly driven by a flanged electric motor

Electric submersible pumps

These are multistage centrifugal pumps with a non return valve at the top, impellers in the middle and electric motor at the bottom. Easy to install into deep well, ponds or reservoirs even in horizontal position. Two different version available: radial pumps for high heads and limited capacities and mixed flow pumps for medium heads and high capacities.

Motor pumps

- Diesel motor pump unit with water cooling.

Control panel, equipped with control spy, alternator for battery charge, hour meter and round meter.

Centrifugal pump completed by gate valve with spherical joints.

Coaxial coupling by drive line joint.

Two tyre wheels bogie with incorporated fuel tank, dismountable loading helm

Control panel and motor stop for overheating, low oil pressure or low water pressure in the irrigation system (breakages).

Inlet unit with foot valve.

- Motorpump unit with Lombardini engine and flanged Rovatti pump for power up to 35 HP.

Two tyre wheels and manual grip to shift, jerk start engine with standard fuel tank.

- Electric generator unit threephase with drive line coupling 1500/3000 rpm with magnetometric switch Voltmeter, offtake point 16A 230V. Upon request a differential switch, frequencymeter, amperometer.

Pipes

They are normally available:

- Aluminium pipes with pressure seal coupler or spherical joint with diameters from Ø 60 to 150
- PVC pipes 6 m length IIP mark, diameters from Ø 63 to Ø 250 for PN 66, PN 10, PN 12,5, PN 16 working pressure
- PEHD (high density) rolls with diameters from Ø 20 to Ø 90 PN 88888 and PN 12,5
- PEHD (high density) bars with diameters from Ø90 to Ø 160, PN 8 and 12,5
- PELD (low density) rolls with diameters from Ø 16 to Ø 110 PN 444 and PN 6

Fittings

- Fittings and accessories for Al and galvanized pipes: off takes, joints, Tee, risers, etc.
- Fittings for PVC pipes with wiper seal or for solvent welding
- Fittings for PE pipes in PE or metallic: PE saddles

Filters

For every irrigation systems it is necessary a good water filtration designed according with the water source and with the characteristics of the system and particularly the emitter devices. the following table let you make a raw choice about the filter system to use according with the above parameters:

The filters are available for all delivery flow, because can be in set assembled. The quartz, sand and disk filters can be equipped with manual or better automatic backflushing both with prefixed time or for differential pressure.

Drip lines

Pressure compensating drip line, anti drain and anti siphon, UNIRAM.
Discharge 2,3 l/h and on request 1,66 - 3,5l/h; Ø 16 and 20 mm; paces
30,40,60,80,100 cm

Pressure compensating drip line RAM. Discharge 2,3 l/h. On request 1,6 and
3,35 L/h; Ø 16 and 20 mm ; paces 30, 40, 60, 80, 100 cm

Drip line with labyrinth dripper not pressure compensating. Discharge 2,1 and
4,11 l/h for Ø 16: 2,4 and 3,8 l/h for Ø 20; pace 33 cm

Light drip line. Max working pressure 6m for the 60 type and 8 m for thr 80
type; nominal discharge flow 1,0 l/h and on request 0,7 and 1,6 l/h; Ø 16,4
mm; paces 15, 20, 30, 40 cm

Microsprinklers

Microsprinkler modular static standard and antimist. low and medium range, (1,5 - 4 m) different irrigation shapes; working up-side or down- side discharge from 35 to 1420 l/h

Microsprinkler modular dynamic standard and antimist, medium and large radius (2,5 - 5 m) functioning up-side or down- side with antinsect spring; discharge from 35 to 300 l/h

Pressure compensating microsprinkler static low range (1,5 - 3 m) discharge from 19 to 76 l/h

Pressure compensating microsprinkler dynamic, low and medium range (2 - 4 m) working up-side or down side with antinsect spring; discharge from 20 to 95 l/h

Microsprinkler dynamic without bridge, medium and large range (3 - 4,5 m) working down.side for greenhouses installations; with or without antinsect device; discharge from 35 to 160 l/h

Static mister; low and medium range (1,5 - 3 m) working up-side or down-side; for seeding and first planting discharge from 26 to 161 l/h

Mister FOGGER with 4 outlet; pressure 4 bar; discharge from 7x4 l/h and 28x4 l/h

Dynamic mister GYRONET NETAFIM- long range, male barbed fitting, pressure range 1,5 - 3,0 bar. Discharge from 29 to 152 l/h
Standard model, down-side with spring, hook with antinsect spring

Anti drain valve with opening min. 20 m.c.a.; closing min. 7 m.c.a.