



IRRIGATION SPRINKLERS

USER'S MANUAL

“ Conscious Irrigation for Fertile Future“





Welcome to the excellent irrigation world of Yüzüak. Thanks to experience we have gained from 1981 and modern production technologies, you will be able to use this product for years with minimum maintenance requirement.

Medium or high capacity irrigation sprinklers, suitable for high and medium pressure systems, adjustable completely or angularly, rotating by constant speed are suitable particularly for linear and center pivots, regular assemblies and stationary systems. Operating principle of the transmission-type versions basing on completely new concept prevents vibrations and counter-effects, providing user safety completely. Our products are equipped with an adjustable water breaker for slight and uniform sprinkling. Because of this system, our products ensure extraordinarily stable and slight sprinkling and it is particularly suitable for irrigation of sensitive plants such as seedlings, flowers and vegetables.

Please read this manual carefully prior to operating the Sprinklers!!!

SYMBOLS USED

The following symbols are used to draw attention to certain points or actions.

	<p style="text-align: center;">WARNING</p> <p style="text-align: center;">You may get injured if you fail to observe the instructions strictly.</p>
	<p style="text-align: center;">ATTENTION</p> <p style="text-align: center;">Machine may get damaged if you fail to observe the instructions strictly.</p>
	<p style="text-align: center;">CAUTION</p> <p>Description made together with additional information warns you against possible problems.</p>
	<p style="text-align: center;">TIP</p> <p style="text-align: center;">It makes recommendations and suggestions to make some duties easier or more practical.</p>

**GENERAL INFORMATION**

- Inspect the contents of the package and the entire equipment before installation.
- Yüzüak Sprinklers are equipped with sprinkler head which sprinkles irrigation water under certain pressure, providing proper sprinkling according to the present pump pressure, flowrate and condition of the irrigation water. Rotation of the heads around their axes is assured with transmission in case of transmission versions and as a result of strike of the water spoon with the body with the spring power.
- In case of any problem with this equipment, do not use the equipment without consulting the authorized service/centre.
- Some accessories may be delivered demounted because of transportation and package size. In such case, assembly procedure should be performed in accordance with the instructions given in this manual.
- Packaging and all its possibly harmful components (plastic bags, foam polystyrene, nails, etc.) should be kept out of reach of the children.
- Sprinkler should be used only for its intended purpose. It is not suitable for use in any other way; otherwise, it may pose dangerous both for the equipment and user. Manufacturer may not be held responsible for any damages arising from any improper, incorrect and irrational use.

**WARNING !**

- When the sprinkler operates, do not perform any adjustment or inspection, except for adjustment of water breaker.
- Keep away from the movement area of the sprinkler and from the point where the water is ejected.
- Be careful not to point the steam / water towards people, animals, power lines, roads or other objects.
- When the sprinkler operates, keep a safety distance of minimum **140cm**.
- Do not point the Sprinkler towards the people or animals. Such an act may cause serious injury.
- Disconnect the power prior to removing the equipment or performing maintenance.
- When you encounter any undesirable and dangerous situation, only way to stop rotation of the sprinkler is to cut off the water supply. To this end, you should shut off the power supply driving the pump.

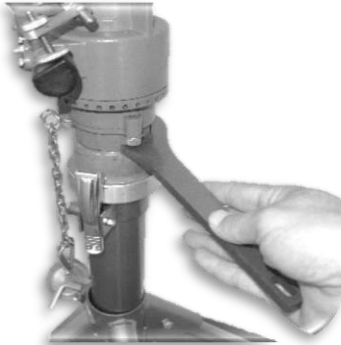


INSTALLATION

If you install the sprinkler to the original stand main pipe, ensure that the screw threads of the stand main pipe engage each other by inserting teflon band in-between and then tighten the sprinkler clockwise slightly and sufficiently. Do not overtighten. Prior to tightening, you may apply some grease on the gun and connection stand screw threads.

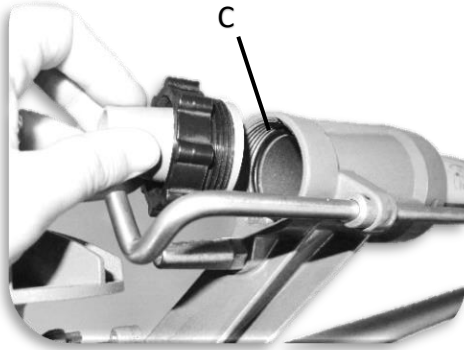
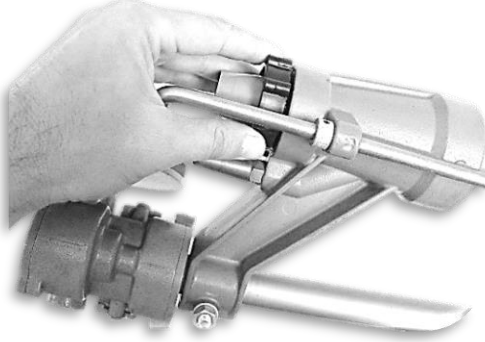


When you tighten the head towards the stand, be careful that the sprinkler does not give any harm to the main body gear; **always use spanner for tightening**. Tightening may give irreparable damages to the sprinkler. (See the following images)



REPLACEMENT OF NOZZLE

For replacement of the nozzle, rotate the nozzle housing screw anticlockwise. After removal of the nozzle, place new nozzle in such a way that the tab on the nozzle will insert into the tab slot and then rotate the screw clockwise to tighten the nozzle (see Images)



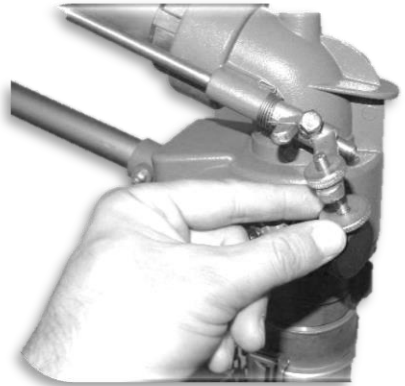
When you do it, be careful that the **gasket (C) on the body of sprinkler** at the place of the nozzle is not lost.

ADJUSTMENT OF WATER BREAKER

Sprinkler has an adjustable water breaker. **Water breaker should be adjusted each time after replacement of nozzle.** For adjustment of the breaker, untighten the upper lock nut of two knurled nut on the eccentric part located by the lower body of the sprinkler (a). And turn the lower knurled nut to ensure the end of the breaker soaks into the water as much as you desire (b). **Be careful and do not lower end of the breaker too much; otherwise, lower part of the beaker may strike to the fan.** After adjustment, tighten the lower lock nut (c). It may perform mist-like sprinkling by breaking water too much into tiny water drops or rougher sprinkling to reach further distance by breaking water less.



(a)



(b)



(c)



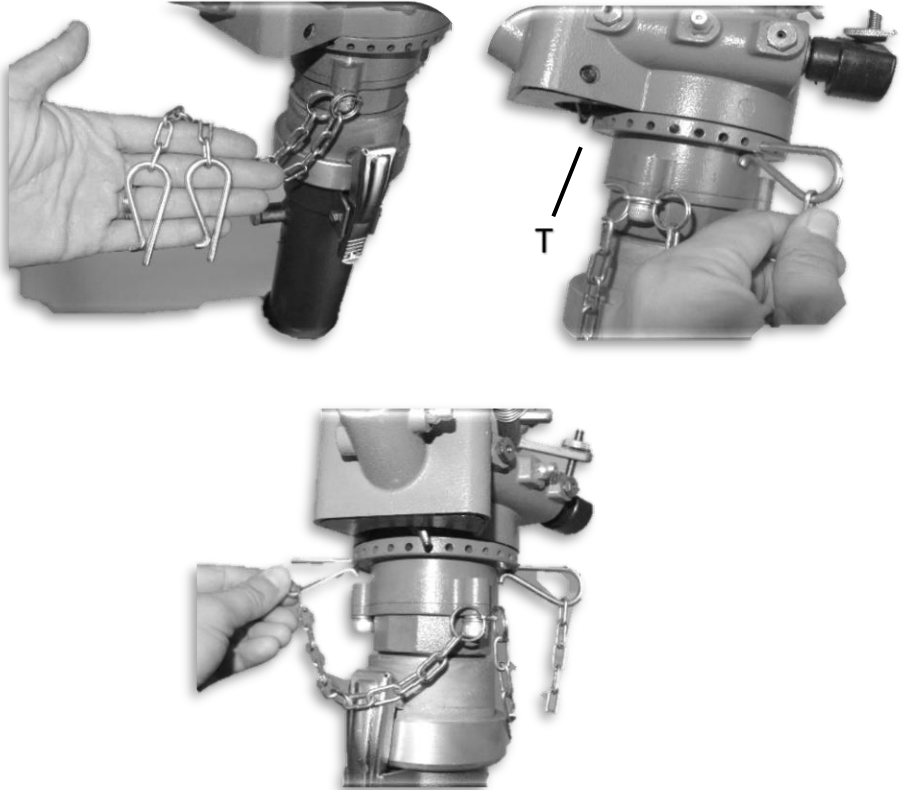
After completion of the adjustment process, you may minimise wear by applying a little grease between the eccentric part and lower knurled nut.

FIRST USE

If possible, do not use the sprinkler as angularly adjusted during the first use. In order that the parts can adapt, you are recommended to operate the sprinkler head in full circle for 1 hour.

ANGULARLY ADJUSTED OPERATION

If the sprinkler is required to operate as angularly adjusted, then insert the special angular adjustment pins firmly into the pin holes drilled along the whole diameter on the lower body in such a way that yellow tab (T) just under the water outlet pipe shall remain within the angle. (See the following images).

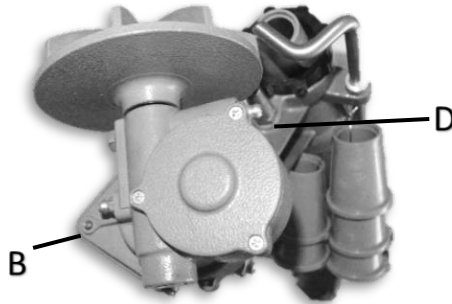
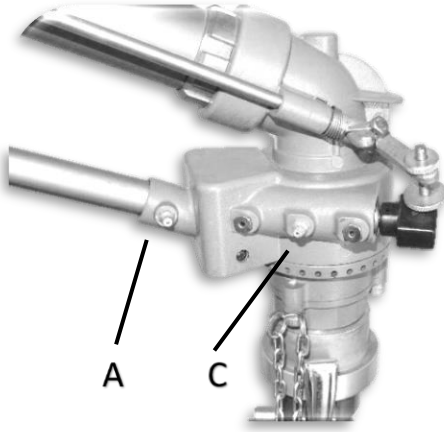


WINDY WEATHER CONDITIONS

If you have to irrigate under windy weather conditions, make sure operation is performed down-wind if possible. Thanks to our transmission system, wind and slight inclination of the soil may not prevent rotation of the Sprinkler . All performance data in the technical table are given with the Sprinkler is in proper inclination and water breaker adjusted for slight breaking and basing on irrigation under windless condition. Difference between the actual condition and technical table in terms of shotting distance, flowrate and similar values may differ by 5%.

MAINTENANCE

Our sprinkler head does not require special maintenance; minimum cleaning and periodical greasing is sufficient. Perform periodically 2-pump greasing at positions **A,B** and **C** one time for each 300 operating hours and 1-pump greasing at position **D** for each 200 operating hours (Rubber Grease is recommended).



If you will not use Sprinkler for a long time, keep it free of dust and grease before putting in the storage. Apply grease to all greasing points on it and gasket in the rear of the nozzle and brass part of the connection part of the sprinkler head. And then wrap it with a clean nylon and keep in a dry place.



TROUBLESHOOTING TABLE

PROBLEM	POSSIBLE CAUSE	REMEDY
During angularly adjusted operations, although lower tab (T) is in contact with the angular adjustment pin, fan does rotate after shooting in reverse; it sticks. Sprinkler does not rotate in other direction around its axis.	Nozzle diameter preferred for the sprinkler is not suitable to the flowrate and pressure of the water supplied to the system.	Replace the present nozzle with a nozzle with smaller diameter. As pressure and output speed of the water striking to the fan will increase, fan will start to shoot and rotate in other direction.
Sprinkler rotates slowly or does not rotate around its axis at all.	As the small hole on the nozzle is clogged by a stone or dirt, the rotator rotates slowly or does not rotate at all.	Remove the nozzle from its housing. Remove the stone or dirt. Put the nozzle in place. (See the following images).

