

# Logic FIELD HOCKEY Irrigation



## The Problem: Irrigating a FIELD HOCKEY playing surface

Most sports field irrigation systems require that the sprinklers have to be on the playing surface. Usually the centre sprinklers are portable sprinklers in the centre of the pitch or sprinklers buried under a 'turf cup'.

In many cases it is not practical to have portable sprinklers because of public access to the sports field and the possibility of the equipment being vandalised. The 'Turf cup' option involves laying pipe into the middle of the pitch, with the problems of existing drainage systems and in some cases under-soil heating, or damage to an artificial pitch.

## Solution: LOGIC FIELD HOCKEY long range 'POP UP' irrigation system

To irrigate the sports field without any sprinklers on the pitch! To achieve a good coverage of a typical hockey pitch from the sides the sprinklers must have a much larger throw than is available from traditional pop up sprinklers.

The only type of sprinkler with this range of throw is the agricultural rain gun. Unfortunately these are not available as a "pop-up". However, a method of installing these large guns developed by EVENPRODUCTS solves this problem.

## LOGIC FIELD HOCKEY: The SYSTEM

The system uses 6 rain guns installed in a purpose made steel chamber. The playing field has one of the flush fitting in each corner and one midway down each side of the field. When the irrigation starts the automatic irrigation controller first raises the lid on each of the chambers. Once fully open the automatic valves operate the rain guns until the irrigation program is completed.

Each rain gun installation is fitted with safety interlocks to prevent operation of the sprinkler if the lid is not open. For aesthetic purposes the chamber lids can be covered in an 'Astro turf' type of artificial grass. Once the irrigation cycle is complete the sprinklers shut off and the lids close automatically.

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**FIELD HOCKEY IRRIGATION**

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# SPECIFICATIONS

## Advantages to the LOGIC FIELD HOCKEY system:

- 1 There are no sprinklers on the playing surface
- 2 There is no need for pipe work under the pitch
- 3 The system is VANDAL RESISTANT as all the equipment is underground
- 4 The system incorporates LONG LIFE heavy duty sprinklers
- 5 If the system is required for an artificial turf hockey pitch, then up to 2mm of water can be applied to the pitch in 6 minutes

## Application rates of the Rain Guns:

½ circle	=	1.57 inches (40mm) per hour
¼ circle	=	3.15 inches (80mm) per hour

2mm application = 3.0 minutes for the ½ circle centre sprinkler

2mm application = 1.5 minutes for the ¼ circle corner sprinkler

## Typical System:

Typical system for an artificial hockey field allowing for 2mm of watering at half time:

Station 1 = the two half circle guns

Station 2 = two ¼ circle guns one at each end to help flows

Station 3 = two ¼ circle guns

Total run time 6 minutes. Note this requires 2 guns to operate at once

Rain-gun Requirements: 24mm nozzle at 5.5 bar (pressure at gun nozzle) will give a flow of 13700 US gallons per hour (51.9 metres<sup>3</sup> per hour; 14.42 litres per second).