

**The Professionals of  
Turf Irrigation  
Die Spezialisten für  
Rasenberegnung**



**Irrigation systems for  
tennis courts**



**PERROT provides RAIN in more ways  
than the heavens**





## PERROT Pop-Up Sprinklers: high performance – easy to operate - economical

Hot days and fast games are greatest things in a tennis season, but the exciting match can become a dusty affair if the court is not being irrigated. Only a regular moistening of the red gravel surface enables a perfect play and increases the lifetime of the expensive surface. And in case of lawn courts, our professional irrigation will provide lush green and steady growth.

PERROT sprinklers are available with two different mechanisms. You can either choose impact or gear drive sprinklers – both techniques have been developed to perfection. Once installed PERROT irrigation systems will render a good service for many years.

Easy-to-maintain design: Only a few screws have to be loosened and the sprinkler insert can be taken out of the housing without the need for digging. Leading to merely short interruptions of the irrigation during dry seasons. Should there, however, be a breakdown – all parts of PERROT sprinklers are also available as spare parts. 13 customer service stations in Germany and distribution partners in more than 60 countries worldwide are at your disposal.

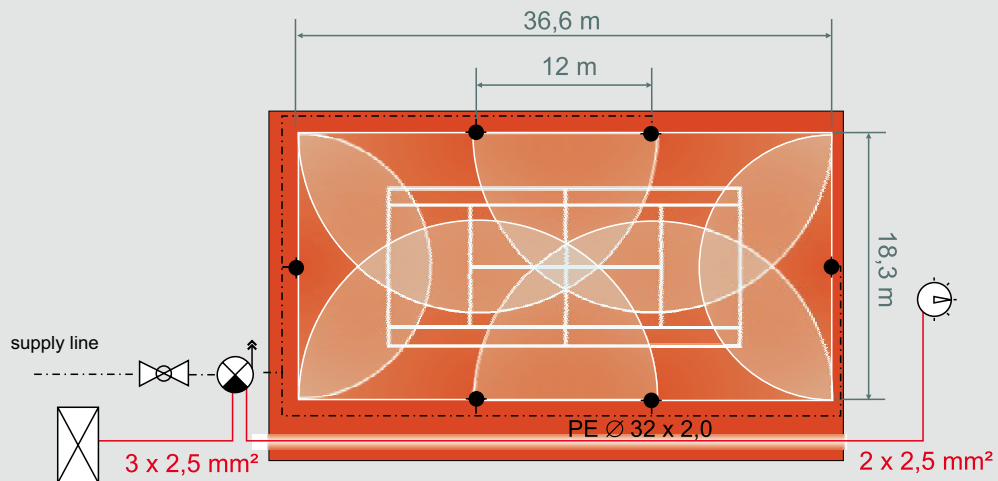
## LVZA 22

**Nozzle variations** \_\_\_\_\_ 4-4,5 mm  
**Operating pressure** \_\_\_\_\_ 2,5-6,0 bar  
**Casting range** \_\_\_\_\_ 10-14,5 m  
**Flow rate** \_\_\_\_\_ 0,9-1,8 m<sup>3</sup>  
**Trajectory** \_\_\_\_\_ 22°  
**Inlet** \_\_\_\_\_ 3/4" female thread

## HYDRA XS

**Nozzle variations** \_\_\_\_\_ 4-6 mm  
**Operating pressure** \_\_\_\_\_ 3,0-6,0 bar  
**Casting range** \_\_\_\_\_ 13-19 m  
**Flow rate** \_\_\_\_\_ 1,0-3,2 m<sup>3</sup>  
**Trajectory** \_\_\_\_\_ 25°  
**Inlet** \_\_\_\_\_ 1" female thread  
 inlet bushing made of brass

## Layout tennis court irrigation system Single court



### Irrigation sequence:

All sprinklers of a single tennis court are combined in one irrigation section.

### Flow rate:

1 sprinkler

Max. flow rate per irrigation section

Q= 1,2 m<sup>3</sup>/h

Q= 7,2 m<sup>3</sup>/h

### Operating pressure:

Pressure at the sprinkler nozzle

Required flow pressure at the valve for a water intake of 7,2 m<sup>3</sup>/h

H= 4,0 bar

H= 5,0 bar

### Precipitation average:

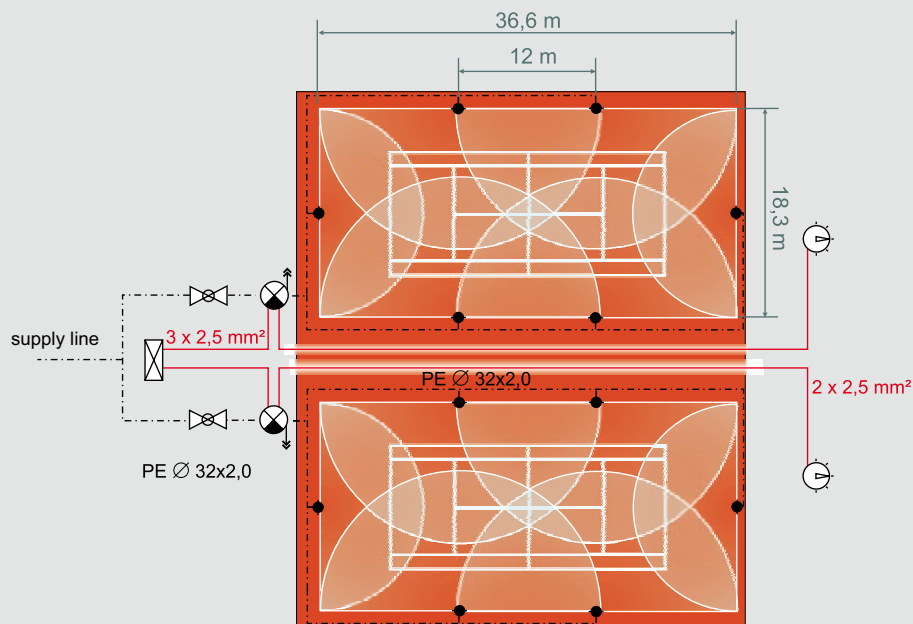
10 mm/h

### No. of sprinklers:

Lateral sprinklers LVZA 22 WT/HYDRA-XS W

6 pieces

## Layout tennis court irrigation system Double court



### Irrigation sequence:

2 irrigation sections

All sprinklers of one tennis court are combined in one irrigation section.

### Flow rate:

1 sprinkler

Max. flow rate per irrigation section

Q= 1,2 m<sup>3</sup>/h

Q= 7,2 m<sup>3</sup>/h

### Operating pressure:

Pressure at the sprinkler nozzle

Required flow pressure at the valve for a water intake of 7,2 m<sup>3</sup>/h

H= 4,0 bar

H= 5,0 bar

### Precipitation average:

10 mm/h

### No. of sprinklers:

Lateral sprinklers LVZA 22 WT/HYDRA-XS W

12 pieces



## Controllers of the PERROT – Water Control series

PERROT-controllers are extremely versatile in application. The basic unit with an output voltage of 24V is equipped with two stations. It can be extended in two-station-modules to a maximum of 12 stations. Our controllers use state-of-the-art digital technology and can control the irrigations system according to your requirements.

The irrigation programmes offer individual control of selected stations from 1 to 99 minutes. Irrigation pauses of up to 99 seconds between the individual stations can be entered. It can store up to three different programs. Four automatic program starts are possible per day which can be programmed for one week in advance. The manual start allows you to trigger a program or only selected stations immediately. Every module features lightning protective capacitors in order to protect the print board. Large LCD display with self-explanatory symbols facilitates programming. The main valve, rain sensor and 24 VAC can be connected permanently. Output power 300 mA at 24VAC permanently. Connecting terminal 240/50 Hz.

For further information please ask for a separate spec sheet.

## Solenoid valves of the PERROT MVR series

- Solenoid valve made of brass
- Available in three sizes - 1"; 1 ½"; 2"
- Kv-value: 12 m³/h - 22 m³/h - 37 m³/h
- Power supply 24V AC / 2 Watt
- Insensitive to dirt due to self cleaning backwash filter with internal bleed
- Manual control ON/OFF/AUTO
- Drainage valve on discharge side
- Operating pressure 12,5 bar
- Optionally with pressure compensated pressure regulation
- Available also with flow sensor for bi-directional computer control system "Greenkeeper-Feedback"



## Accessories



### SHORT TIME CLOCK

The clock timer can manually activate individual irrigation stations on site. It is especially suitable to irrigate selected tennis courts without having to activate the controller. Length of irrigation can be set from 0 to 15 minutes. This clock timer can be used in combination with the PERROT controller WaterControl.



### VALVE BOX VBR

- Made of glass fibre reinforced plastics
- Green cover
- Cover with screw plug
- Two openings for cable and pipe leads
- Extensions on request
- Dimension: Height = 0,26m – ø 0,235 m

## Mobile irrigation

As an alternative to an automatic pop-up sprinkler irrigation system, sprinkler heads can be installed on a water pipeline along the fence in the height of 1m. Manual control or by short time clock. Or you could choose a mobile irrigation with a full and part circle or quadrangle sprinkler on tripod with hose connection.



### ZA 22 W

Anti back splash lever arm - with difuser pin - protection cap - material: brass, stainless steel, durable engineering plastic

<b>Operating pressure:</b>	2,5 - 4,5 bar
<b>Casting range:</b>	10,5 - 14,0 m
<b>Flow rate:</b>	0,69 - 1,89 m <sup>3</sup> /h
<b>Inlet:</b>	1/2" male



ZE 30 WF

## Sprinkler on tripod

### Quadrangle sprinkler TV 2000 F

### Full and part circle sprinkler ZE 30 WF

A quality product from PERROT. Dirt resistant, excellent water distribution, with diffuser pin. Sec- be adjusted (9/15). Range selec- tor (left, right, center, full).



TV 2000 F

<b>Operating pressure:</b>	1,5- 5 bar	<b>Operating pressure:</b>	2,5 - 8,0 bar
<b>Flow rate:</b>	0,6 -1,3 m <sup>3</sup> /h	<b>Flow rate:</b>	1,5 -2,5 m <sup>3</sup> /h
<b>Irrigated area:</b>	max. 18x14 m	<b>Casting range:</b>	12-18 m
<b>Material:</b>	Alu cast, ABS	<b>Material:</b>	brass, cast aluminium
<b>Connection:</b>	quick coupling	<b>Inlet:</b>	¾ " female



**www.perrot.de**

### **Extract of References**

**D-** Hamburg, Rothenbaumchaussee  
**D-** Lüneburg, Tennispark  
**D-** Hannover, T.C. Hannover 96  
**D-** Braunschweig, Eintracht  
**D-** Köln, T.C. Schwarz-Weiss  
**D-** Mannheim, T.S.V. 1877  
**D-** Leimen, T.C  
**D-** München/Laim, ESV  
**D-** Ulm, SSV 1846 e.V.

**B-** TC Ruggeveld, Antwerp  
**BG-** Levski Spartak, Sofia  
**CH-** TC Grasshopper Zürich  
**CZ-** TK Praha Stvanice (Davis Cup)  
**HR-** Tenis Centar Poreč  
**EAK-** JD Tennis Academy, Nairobi  
**L-** TC Ettelbruck  
**PL-** Cyganski Las, Bielsko/Biala  
**ROK-** Toweuil Park Tennis Court, Changwon



**Perrot Regnerbau Calw GmbH**  
**Industriestraße 19-29**  
**D-75382 Althengstett**  
**Tel. ++49(0)7051/162-0**  
**Fax ++49(0)7051/162-133**  
**E-mail: perrot@perrot.de**  
**www.perrot.de**