



Alkhorayef  
Irrigation Solutions

download it @  
[www.aiscosolutions.com](http://www.aiscosolutions.com)  
[www.western-irrigation.com](http://www.western-irrigation.com)



PER-ENG-18

# PERMAPIPE™



**Western**

## What is Permapipe™?

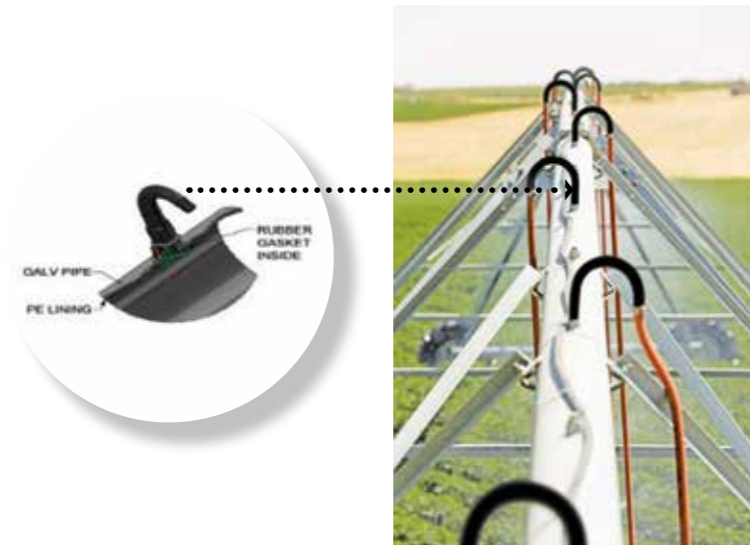
Permapipe spans provide the solution for corrosion problems in pivot pipes caused by low quality water by lining the internal surface of the galvanized pipes with a high-density polyethylene (HDPE).



Pipe lined with HDPE does not require gaskets between flanged pipes because of the unique mold-a-flange technology, which makes sealing an integral part of the liner material.

## New!!

The 3/4" bulkhead outlets of lined system are made of special high-strength polymer where the U-pipe for the sprinkler drop is attached.



Optional stainless-steel pivot point if required.

## Applications

Pivot or Linear irrigation with corrosive water due to high salt content and extreme pH.

Available for all Western models, new and old, from 6" 5/8 diameter and bigger.

Coating option recommended according to water quality:

		Water Quality	
		GALVANIZED	PERMAPIPE
<b>pH</b>	6,5 < pH < 12	✓	
	pH < 6.5 ; pH > 12		✓
<b>Salts</b>	Cl <sup>-</sup> x 0,003 + SO <sub>4</sub> <sup>2-</sup> x 0,004		
	< 300	✓	
	> 300		✓



Index of corrosion probability (UNE-EN 12.502-3 standard) in fresh water due to different salts and sulfates.

$$B = \frac{[Cl^-] + [NO_3^-] + 2[SO_4^{2-}]}{[HCO_3^-]}$$

B < 0,5

unlikely corrosion

B > 3

likely corrosion

## Extended Guarantee !!

Western offers a 10 year warranty with full pipe replacement, not including freight, labor or hardware.

For more information contact [info@western-irrigation.com](mailto:info@western-irrigation.com)