

Corrosion Solutions



RELIABLE

DURABLE

PRECISE

ADVANCED

RESPONSIVE



Unique Conditions Require Specific Solutions

Supply and Demand

In certain areas, water that was once known to be clean and non-corrosive is increasingly becoming more corrosive. Some producers are using less desirable sources - waste water, process water and corrosive water. Other producers are adding crop protection chemicals or soil amendment products. Under these conditions, corrosion of standard galvanized steel can occur at varying rates.

Corrosive Factors

There are several characteristics that may lead to water being corrosive:

- Acidic (low pH)
- Alkaline (high pH)
- Corrosive chemicals (chlorides, sulfates, other salts)
- Soft water (low mineral content)
- Some chemical additives for crop management

Valley® Expertise

All materials except Valley® PolySpan® liners are susceptible to corrosion failure. Depending upon the water quality, corrosion failure can occur in a few years or several decades. The industry standard galvanized pipe pioneered by Valley Irrigation is still acceptable for most applications but may not meet expectations under certain water conditions. Even in areas where galvanized products have been successful in the past, changes in water quality or management practices can lead to reduced life.

At Valley Irrigation, we are committed to help you find solutions. Our application experts work with Valley dealers to identify the best solution for your needs. Choosing the correct Valley product will provide the best long-term value. We continuously study and test new products and processes, increasing our knowledge and improving our products.

Valley Choices

| Type of Water | PolySpan® | Weathering Steel | Cathodic Anode | Galvanized Steel |
|--|-----------|------------------|----------------|------------------|
| Soft Water (low in carbonate, bicarbonate, calcium and magnesium) | ★★★★★ | ★★★ | ★ | ★ |
| Salty Water (high in total dissolved solids and electroconductivity) | ★★★★★ | ★ | ★★★★ | ★ |
| Acidic or Alkaline Water (pH less than 6.2 or higher than 8.5) | ★★★★★ | | | |
| High concentrations of chlorides and/or sulfates | ★★★★★ | | ★★ | |

Contact your local Valley dealer for a FREE Water Sample Test!

Pipeline Solutions



POLYSPAN®

PolySpan® - High Density Polyethylene (HDPE) Liner - Introduced by Valley Irrigation in 1992 to help resist the effects of acidic, alkaline, corrosive, and saline water. Utilizes the strongest outlet fitting in the industry. No stainless steel is used to connect spans, which can be corroded by chlorides and sulfates in the water.

Versatility - Available with Valley® pivots, towables, and linears. Eight span length choices up to a maximum of 225'. Available for the 8000 and 7000 series spans as well as re-piping a 6000 series.

INDUSTRY BEST! 20/10 Year Pipeline Corrosion Limited Warranty* - 20 year prorated pipeline corrosion warranty starting on delivery date with full pipeline replacement during the first 10 years or 30,000 hours (whichever occurs first). Does not include freight, labor, or hardware.



WEATHERING STEEL

Galvanized Weathering Steel - Extends pipeline life in soft water conditions only. Requires water analysis to determine suitability.

Versatility - Available with Valley pivots and corner machines.

Galvanized Coating and Stainless Steel Couplers - Added corrosion protection for longer life.

20 Year Prorated Pipeline Corrosion Limited Warranty* - Does not include freight, labor, or hardware.



CATHODIC ANODE

Sacrificial Magnesium Anode in Galvanized Pipeline - Extends pipeline life in salty water conditions.

Versatility - Available with all Valley equipment; pivots, towables, linears, and corners. Anodes can be replaced.

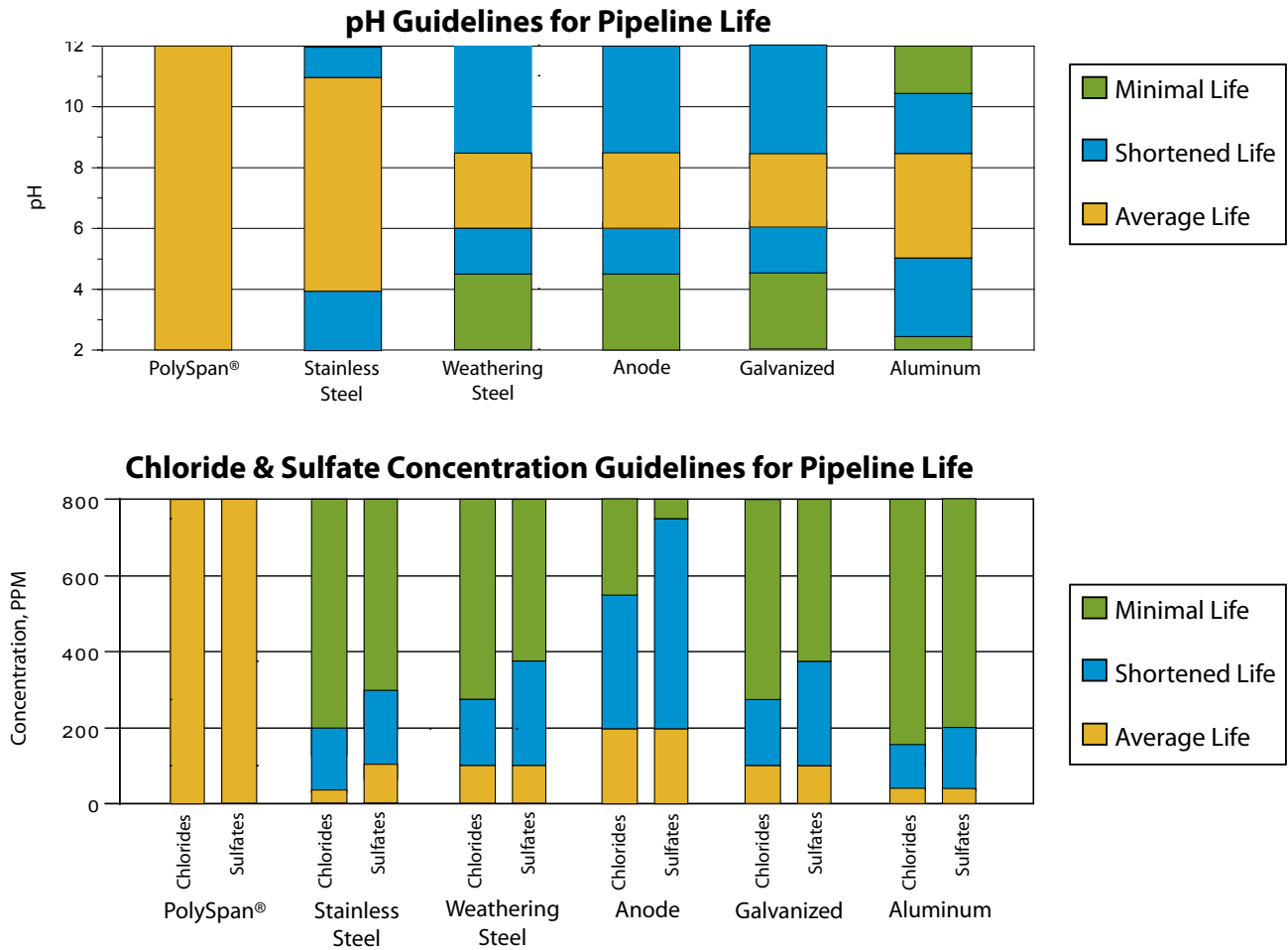
Adaptable - Amount of protection (number of anodes) can be customized for your installation.

20 Year Prorated Pipeline Corrosion Limited Warranty* - Does not include freight, labor, or hardware.

*Warranty applies to USA & Canada only. Ask your Valley dealer for a copy of the Corrosion Warranty.

Choosing the Best Pipeline for Your Application

Material Selection Guidelines



pH, chlorides, and sulfates are not a complete indication of corrosion potential. Other corrosive elements may affect the life of all materials listed. **Your dealer will provide a water analysis to help determine the best solution for your particular situation.**



See your local authorized Valley Dealer for complete details.

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