



# PANACEA® P-72 Thermoplastic Manifold Headers

## Material Advantages

**P-72 is a High-Temperature Resistant Thermoplastic, Excelling in All Chlor-Alkali Services**

- P-72 has a low thermal expansion coefficient, is resistant to 100°C, is easily fabricated, is stress-relieved (annealed). Pipe socket joints are reliably solvent welded.
- Some P-72 anolyte process piping has lasted nearly 30 years in continuous service!
- Available Pipe Sizes up to 12" (≈DN-300)
- Please refer to Prince P-72 Literature, for more product details and specifications.

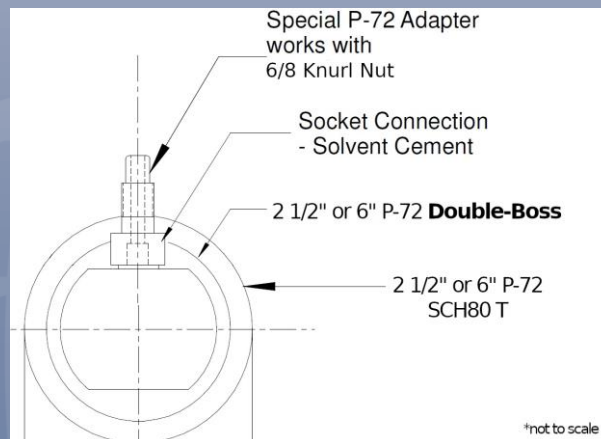
## Inlet Manifold Headers

### P-72 Header's Unique Extra-Thick Pipe Wall

- Accomplished with: **Double-Boss (per photos and diagram)** or Schedule 120 Pipe
- **Significantly increases surface area of the solvent weld within the socket (especially the Double-Boss design), improving reliability.**
- Please consult Prince for available sizes.
- CNC-machined *tapered* socket establishes a *mechanical* seal within each joint



**P-72 Nozzle Tapered Socket**



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# PANACEA® P-72 Thermoplastic Manifold Headers

## Inlet Manifold Headers

- Among many other header types, Prince has made hundreds of Double-Boss inlet headers for **Uhde users** globally, with many years of success.
- The headers have **flanged vent valves** (with our 6962 Special EPDM gasket) that have proven to be a more reliable design than OEM single-piece welded alternatives. The header vent valve neck is supported with solvent-welded gussets, for additional stability and resistance to torsion exerted by operators during vent valve use.



**In-Service PVDF  
Flanged Vent Valve,  
with P-72 Header**



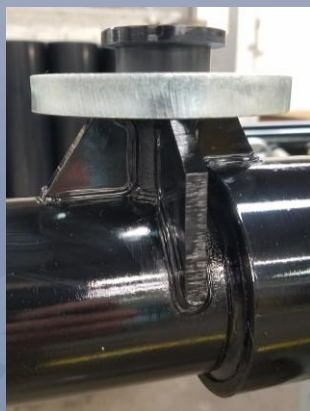
**PVDF Vent Valves**  
are commonly used  
for Anolyte Service



**PP Vent Valves**  
are commonly used for  
Catholyte Service



**P-72 Vent Valve Flange  
Face with Galvanized  
Steel Backing Ring**



**P-72 Vent Valve Neck  
Connection, with Gussets**



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## Inlet Manifold Headers

**P-72 Base Flange Face with  
\*Galvanized Steel Backing Ring**

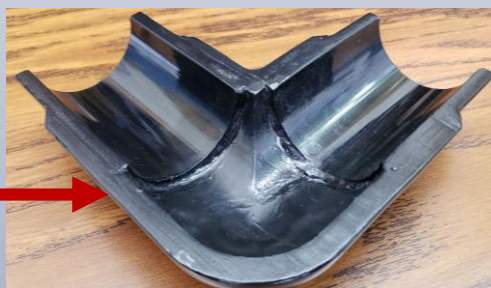


\*Note: Backing Rings are also available in PP-encapsulated Steel, as a more cost-effective alternative, while still being corrosion-resistant.



**P-72 Solvent-Welded  
Nozzles**

**Solvent Socket  
Weld, Establishing  
Homogeneous  
P-72 Material**



## Discharge Manifold Headers

FRP binds reliably to P-72, while other thermoplastic liners are prone to delaminate from FRP.

**6" Double-Boss P-72 Header with FRP Overlay**



**Solvent-Welded  
Nozzle, with PVDF  
Knurl Nut Threaded  
onto Nozzle**

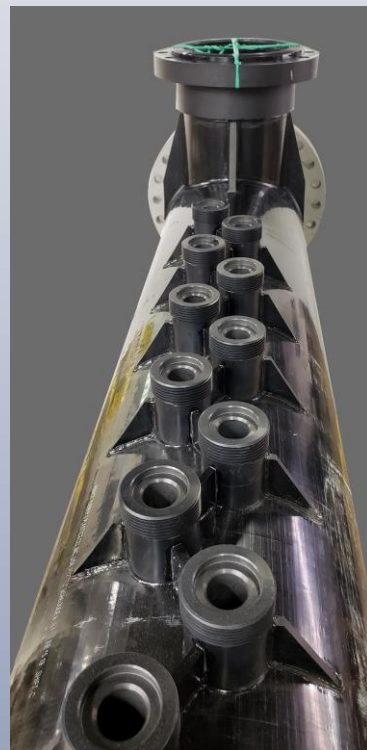
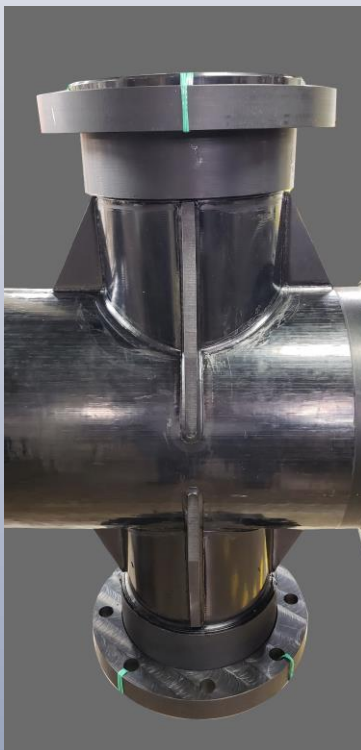
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# PANACEA® P-72 Thermoplastic Manifold Headers

## Discharge Manifold Headers

All sockets and flanges solvent-welded into CNC-machined sockets within the header pipe wall. Supporting gussets are solvent-welded throughout, for additional reliability. All nozzles are CNC-machined.



**P-72 Manifold Header with CNC-machined Rectangular Flanges**

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