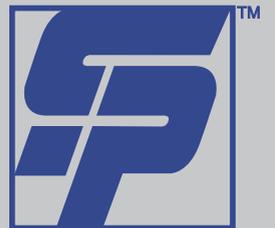


CITADEL
CHEMICAL PROCESS PUMPS

CITADEL

Chemical Process Pump

**Shanley Pump
& Equipment, Inc.**



CITADEL

Features

The secret to the success of the Citadel Series is its specially designed thick-walled vacuum-proof single piece PVDF (Polyvinylidene fluoride) volute casing liner and internal wetted parts that can be used in contact with your corrosive, toxic and aggressive pumped elements with no negative effect to the pump. PVDF also holds strong resistance to cold-weather impacts to resists shattering.

Description

Shanley Pump and Equipment carries 20 sizes of the Citadel Series spanning in performance ranges up to 1,750 GPM with a Head up to 325 ft. The Citadel series also allows for higher than average pressures to be achieved pumping caustic chemicals. Be sure to ask your sales engineer for more information. Temperature resistance in the Citadel series extends to 120°C during standard pumping operations.

This PVDF liner is held securely within a cast Iron Armored shell surrounding the pump for protection from the elements and working environments as well as for absorbing forces from the pipe lines themselves. The Back Plate of the Citadel pump is also made from solid injection-molded PVDF as are the shaft sleeves for optimal performance under adverse operating conditions. Maintenance for the Citadel series is a standard "pull-back" design.

The Impeller is of a Semi-open design and is manufactured of solid PVDF with a metal insert to greatly increase the strength of the piece.



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The standard shaft seal for the pump is a mechanical model with other options available depending upon your application.

Internal sealing gaskets are made from PTFE. Additional EPDM rubber inserts ensure maximum sealing of the pump. The Bearing housing holds double row ball-bearings with an extremely high load capacity. The Bearings are Long-life oil lubricated out of a internal reservoir in the bearing housing unit that holds the lubricating oil. Oil levels can be easily checked by a sight-glass that shows the available oil supply.

Usage

The Iron Duke Citadel series of Chemical Process Pumps are designed to be a highly economical specialized centrifugal pumping solution for difficult pumping applications involving caustic and corrosive chemicals that would attack standard centrifugal pumps.

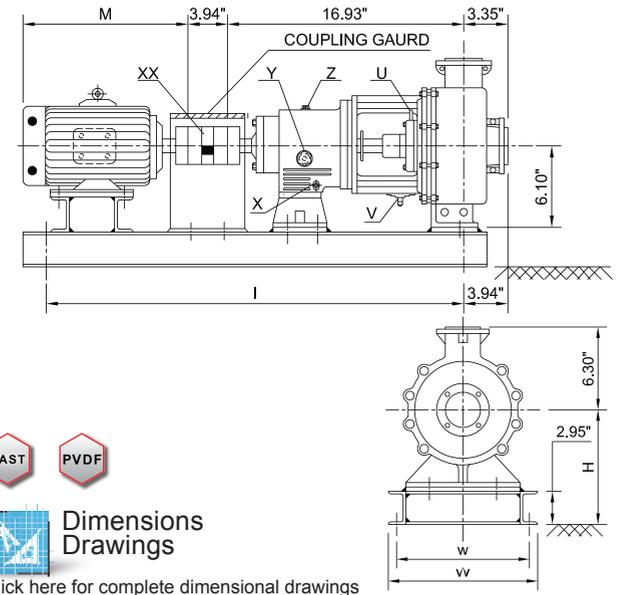
Main Applications

-  Mining Industry Pumping
-  Chemical Production & Transfer Pumping
-  Pesticides Production Pumping
-  Paint and Lacquer Pumping
-  Corrosive Fluids Pumping Applications
-  Saltwater Aquarium Applications
-  Industrial Waste Streaming Applications

GPM Up to 1,750 GPM

TEMP Up to 248°F

HEAD 325 ft.



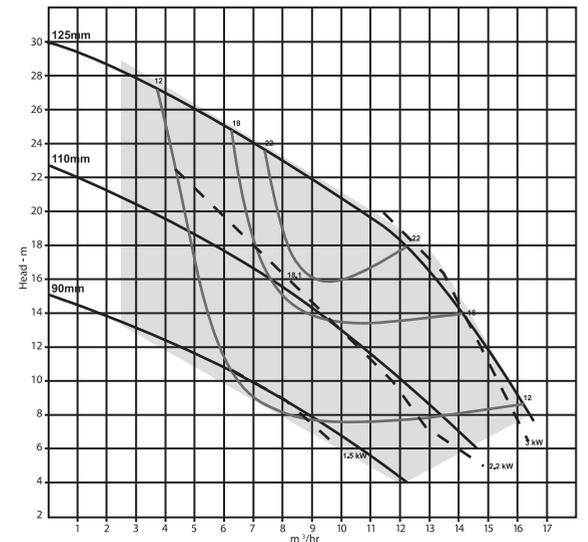
Dimensions Drawings

[Click here for complete dimensional drawings](#)



50Hz Performance Curve

SIZE: PVDF - 20
Speed: 3550 RPM



[Click Here for Complete Performance Flow Curves](#)