

CASE STUDY

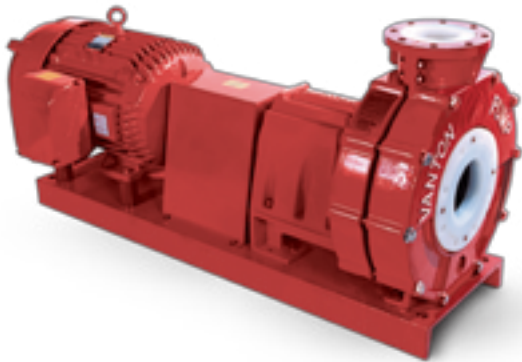
The Ross team provides tough pumps for tough applications!



R. A. ROSS & ASSOCIATES, INC.
2231-A Ampere Drive, Louisville, KY 40299

Doing whatever it takes.

*If you need it,
Team Ross has it!*



The Vanton Chem-Gard® pump used in this case study:

- Flows to 1150 GPM (261 m³/h)
- Heads to 185 ft (56 m)
- Temps to 275°F (135°C)
- Construction: PP, PVDF

For details, see side 2

PROBLEM/SOLUTION:

A global automotive plating company with operations in Eastern Kentucky needed some rugged pumps for a rinse water application that would be required to handle a mixture of aggressive chemicals.

The existing pumps in service couldn't hold up to the various chemicals present in the rinse water. After review of the application, the R.A. Ross team had the perfect solution in mind; the Vanton® Chem-Gard® ANSI centrifugal pump with PVDF (Kynar) wetted materials with clean water flush to protect the seal.

Wet end components of Vanton CHEM-GARD® centrifugal pumps are injection molded of corrosion resistant polypropylene (PP), polyvinyl chloride (PVC), chlorinated polyvinyl chloride (CPVC), polyvinylidene fluoride (PVDF), ethylene chlorotrifluoroethylene (ECTFE) or other non-metallic materials that are 100% inert to the fluids being handled across the entire pH range. This eliminates the corrosion and failure associated with pumps constructed of stainless steel and other alloys, the wicking associated with fiberglass pump components and the delaminating inherent with plastic-lined metal pumps.

(Over)

Continued from other side:

Application info:

Transfer of corrosive rinse water at the following rates:
100 GPM @ 40' TDH

Vanton Chem-Gard® ANSI-Centrifugal pump model CGA-KY-3x2x8

- Horizontal centrifugal with all fluid contact parts of homogeneous non-metallic materials, dynamically balanced keyed semi-open impeller, stainless steel shaft with wet end sleeved with PVDF (Kynar).
- Materials of Construction PVDF / Kynar
- Impeller Dia. 8"
- Suction and Discharge 3" x 2" 150# flanged
- Mechanical Seal
- Water Jacket Standard (Seal water supply & drain required).
- Pedestal Guard Polyethylene
- 5 HP, 230-460 volt / 3-phase / 60-Hz, 1800 RPM, TEFC, severe duty motor mounted on an epoxy coated, steel base plate including spacer coupling and coupling guard

400 GPM @ 70' THD

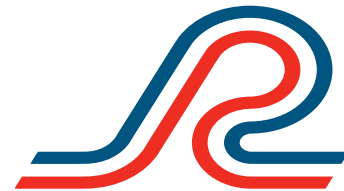
Vanton Chem-Gard® ANSI-Centrifugal pump model CGA-KY-4x3x10

- Horizontal centrifugal with all fluid contact parts of homogeneous non-metallic materials, dynamically balanced keyed semi-open impeller, stainless steel shaft with wet end sleeved with PVDF (Kynar).
- Materials of Construction PVDF / Kynar
- Impeller Dia. 10"
- Suction and Discharge 4" x 3" 150# flanged
- Mechanical Seal
- Water Jacket Standard (Seal water supply & drain required)
- Pedestal Guard Polyethylene
- 20 HP, 230-460 volt / 3-phase / 60-Hz, 1800 RPM, TEFC, severe duty motor mounted on an epoxy coated, steel base plate including spacer coupling and coupling guard

CONTACT US

Call us for information on how we can help solve your problems in any of the following areas:

- ▶ Pumps
- ▶ Blowers
- ▶ Filters
- ▶ Mixers
- ▶ Tanks
- ▶ Vacuum Pumps
- ▶ Mechanical Seals
- ▶ Heat Exchangers
- ▶ Repairs



R. A. ROSS & ASSOCIATES, INC.

Keeping process flowing since 1985

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