

CASE STUDY: CAVITATION DAMAGE – DON'T SCRAP THEM, CORROGLASS THEM!

'CLA-VAL' NGE 400, 200 & 100 HYTROL VALVE BODIES

CLIENT

Major valve supplier to the South African Water Industry

REHABILITATION DATE

August 2010

SCOPE OF WORK

Decontamination, surface preparation and internal rehabilitation following erosion & cavitation damage

PRODUCTS

Rebuilt using CORROGLASS 600 Series, (632 & 602), plus FLUIGLIDE for increased fluid efficiency

SUBSTRATE

Cast Iron

COATING SYSTEM

- Multiple abrasive blast cleaning and metallic salt decontamination cycles using CHLOR*RID until levels of residual metallic salt levels are within acceptable limits.
- Application of CORROCOAT CORROGLASS 600 Series, comprising:-
- Corroglass 632 Primer followed by the application of Corroglass 602 'Putty-grade' material to re-build the lost cast iron using proprietary application techniques & materials, to original specification.
- High-voltage spark testing conducted for QC/QA verification purposes.

CORROCOAT CREDENTIALS

Owing to Corrocoat's 35 years of Research & Development expertise, coupled with the finest specialist lining and coating materials available in the world, Corrocoat SA, part of the global Corrosioneering Group, have the expertise and materials to rehabilitate even the most severely damaged components and equipment.

The NGE Hytrol Valve Bodies would under normal circumstances be scrapped, necessitating further capital expenditure to replace them. However, rehabilitation of damaged equipment, from corrosion mechanisms such as cavitation damage, is core-competency for Corrocoat SA, a member of global Corrosioneering Group of more than 47 Corrocoat Branches in 30 Countries around the world.

PHOTOGRAPHS

Top: Numerous valve bodies for rehabilitation

Middle: Valve bodies suffered severe cavitation damage

Bottom: Completely rehabilitated valve bodies



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