



CLEANING OF STC PUMP CONTROL VALVES

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1 INTRODUCTION

Stainless steel derive their corrosion resistance from a thin, invisible surface layer, which is formed during a chemical reaction between the metal and the oxygen present in the ambient environment. The oxide layer drastically reduces the corrosion rate of the material, which is said to be passivated.

Soot and dust, metal dust in addition to humidity and chloride concentrations presens in marine athmospher may affect both the aesthetic effect and corrosion resistance of the stainless steel surface unless it is cleaned regularly.

Therefore, it is necessary to restore the protective oxide layer and corrosion resistance of the stainless steel surface.

This procedure covers the cleaning/upgrading of the STC valves.

2 MATERIAL QUALITY

The STC valves are manufactured in stainless steel, while the local control valve is manufactured in either stainless steel or aluminium bronze.

3 CLEANING OF VALVES

The cleaning and upgrading of the valves can be done by either mechanical cleaning, chemical cleaning or chemical pickling.

Note: If the local control valve is manufactured in aluminium bronze, the valve need to be protected/ covered in case of chemical cleaning/ pickling.

Alternative I Mechanical cleaning	Alternative II Chemical cleaning	Alternative III Chemical pickling
<ol style="list-style-type: none">1. Use a stainless steel wire brush and remove all surface rust.2. Wash the valve by solvent cleaning and dry the valve.3. Spray the valve by ex. Tectyl 506.	<p>Note: <i>Read all safety instructions from supplier of cleaning products before starting of the work.</i></p> <ol style="list-style-type: none">1. Apply the metal cleaner at the valve. Unitor –Metalbrite HD is recommended.2. Leave the cleaner to work.3. Remove cleaner residues by using a high-pressure water jet or, with a stainless steel brush and then rinse with water.4. Spray the valve by ex. Tectyl 506.	<p>Note: <i>Read all safety instructions from supplier of pickling paste before starting of the work.</i></p> <ol style="list-style-type: none">1. Apply the picklig paste at the valve. Avesta Pickling paste/gel is recommended.2. Leave the paste to work.3. Remove pickling residues by using a high-pressure water jet or, with a stainless steel brush and then rinse with water.4. Spray the valve by ex. Tectyl 506.