



Hale Products, Inc. Service Bulletins

Bulletin#:	SB82	Revision#:	0	Date:	2/20/05
Product Type Covered:	Hale Pump <input checked="" type="checkbox"/>	Hurst Tool	<input type="checkbox"/>	Lukas Tool	<input type="checkbox"/>
Keywords:	Water Additives for Hale Pumps				
Product Covered:	All Hale Pumps and Valves				
Problem Statement:	Hale Products Inc does not approve of the use of any additives in the pump on Fire Apparatus.				
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Body of the Bulletin

Water additives include chemicals added to the booster tank on the apparatus as well as mixtures used to flush the pump. Various products have been used including those designed specifically to preserve galvanized tanks as well as commercial soap solutions, dishwashing liquids, and soap flakes. Hale Products, Inc has not approved the use of any of these additives in Hale Pumps or Torrent Stainless Steel Valves.

Hale Products makes every effort to ensure the long life of Fire Apparatus. Since additives are an unknown variable added to the pump life cycle, Hale can not endorse their use. In fact there is some evidence that adding additives to the pump water may cause more problems rather than help.

Additives that are soap based tend to wash the lubrication off valves and these detergent additives also can leach plasticizers out of rubber components and packing. This can cause valves to stick and bind. The detergents can also increase the chance of leakage and they can increase the chance of clogged orifices. Note that ClassA foam concentrates are high strength detergents and are not recommended for use in the suction side of pumps.

Some additives are designed to lubricate, however the lubrication can potentially allow debris to stick to the residual lubricant in orifices and passage ways which can affect seal cooling or relief valve performance.

In summary, Hale Pumps do not need water additives and may indeed be harmed by the use of water additives. Hale Torrent Stainless Steel valves have external grease fittings to allow direct lubrication of the valves. There is no need to add anything to the pump water. In some cases the Hale warranty coverage can be affected by the use of additives that lead to pump service problems.