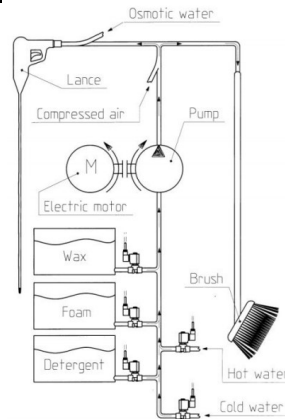


# Car Washing Systems



Self-service car washing systems are an innovation in the car washing field; they are self-service washing areas for cleaning vehicles like scooters, motorcycles, camper vans, caravans, small boats and all-terrain vehicles that cannot be cleaned in traditional car washing systems with brushes. The system delivers high-pressure water mixed with wax, detergent and car washing foam through a lance and a brush.

## Construction Diagram Of The System



## Solenoid Valve Application

The user selects a cleaning cycle on the control panel and cleans the vehicle using two basic tools: a lance and a brush. While the vehicle is being rubbed, the brush pours liquid detergent to remove dirt. During the shampooing cycle, two solenoid valves let cold and hot water into the circuit. Three more solenoid valves inside the circuit intercept liquid detergent, foam and wax respectively and mix them with water. An electromechanical pump sucks up the mixture by depression and lets it back into the circuit at 80 bar. Before reaching the brush, the liquid is further mixed with air. The lance is a washing gun shooting either water or shampoo under pressure, according to the selected cleaning cycle. Usually water used for rinsing is softened and osmotic, a treatment that prevents white lime-scale from staining the vehicle.

## Solenoid Valves Used



**TYPE D263DVEK**  
2/2 way NC direct acting solenoid valve with series 7 coils

## We Recommend

The recommended valve is solid. In this application it carries out various functions. The body is Nickel coated so as to protect brass against corrosion when detergents flow through it.