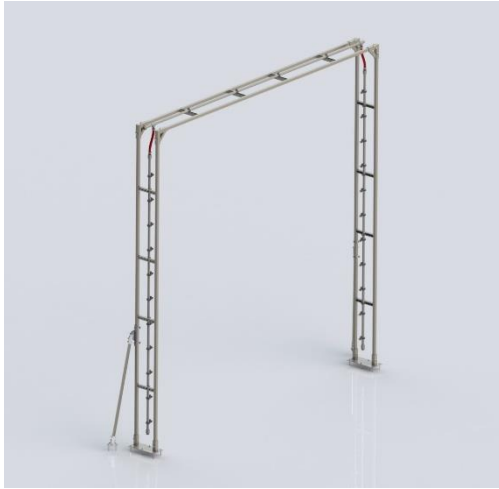


Spot Free Rinse Arch

095312-SFRA / 096312-SFRA



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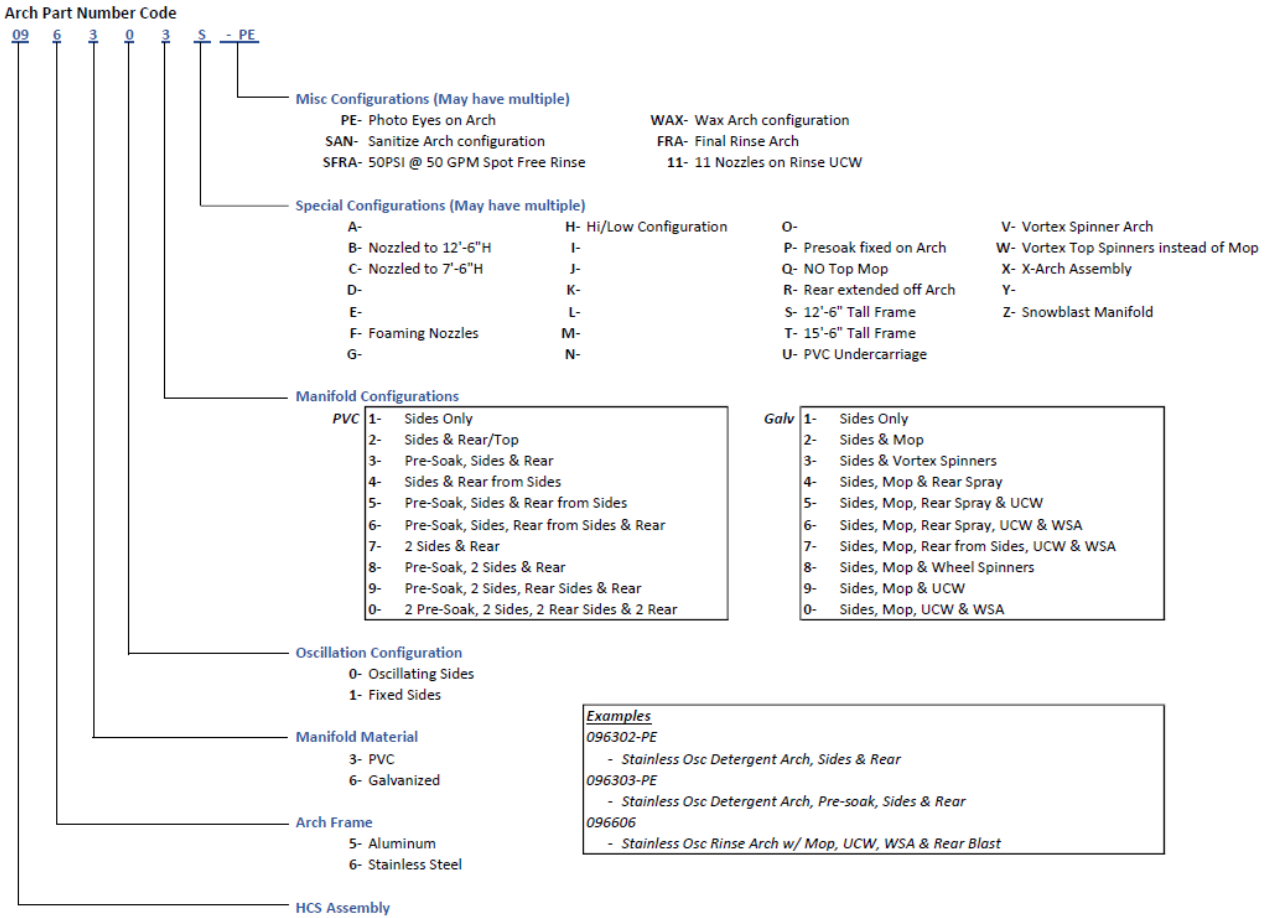
Approx. Dimensions	*Varies - See Arch Cut Sheet
Internal Clearance	*Varies - See Arch Cut Sheet
Optimal Side Manifold Flow (@50PSI)	50 GPM

*Arch Cut Sheets contain Parts Breakdowns and other information, if necessary, that is specific to the arch

General Info

The purpose of this manual is to provide the necessary information to install and operate the Hydro-Chem equipment to exceed your defined expectation.

The Spot Free Rinse Arch (SFRA) will come shipped as 2 leg assemblies and 1 crossbeam assembly. These are constructed and anchored on-site per the project specific MEP.



System Overview

For a full system overview, review the Cut Sheet or Parts Breakdown for the specific arch that is being used. Figure 1 breaks down the nozzle assemblies of the standard detergent arches. The single nozzle body assembly is located on the left while the double hinged assembly is located on the right. The double hinged assembly may be adjusted by loosening the hex fitting circled.

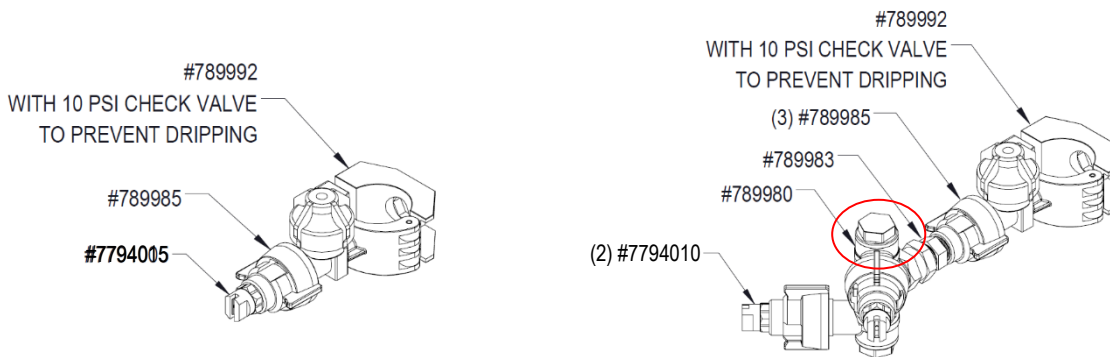


Figure 1. Single and Hinged Nozzle Assemblies

Installation & Set-Up

The arch assembly is to be assembled and anchored within the wash bay per the project MEP, utilizing the supplied support legs and 3/8" hardware. Arch breakdown sheets can be found in the project Set-Up packet or Manual, providing a detailed BOM.

When installing the arch, the detergent nozzles will come attached to their cap and must be installed on the arch per the arch breakdown sheet within the Set-Up packet. Before testing any the arch manifolds, the plugs and caps on each manifold should be removed and each line should be flushed. Once this is done, reinstall all plugs and caps on the detergent manifolds.

Maintenance

Periodically, the arches should be reviewed while running to ensure proper pressure and spray patterns. If a nozzle is "leaking", dripping, or not spraying at all, remove the cap, checking that the inside of the assembly is clean and free of any debris and that the gasket is clean and in-tact as well.

If manifolds are not activating as intended, review the troubleshooting table here, and if necessary, the MCP troubleshooting sections as well.

Troubleshooting

Issue	Potential Solution
Manifolds aren't spraying	Check that the MCP is powered on
	Check that no System Stop buttons are pushed in
	Is the RO Water Tank filled about the Low-Level Float? If it's not, make sure the RO Skid is working correctly
	Is there water being supplied to the Spot Free Arch Valve? Yes - Does the Solenoid open in Test Mode on the Touch Panel? Yes - Check the input that would typically activate the manifold. Check that the coil has voltage supplied to it. If it does, replace the bad coil. No - Check that the coil has voltage supplied to it. If it does, replace the bad coil. If not, troubleshoot the voltage coming from the Master Control Panel. No - Does the input that activates the manifold operate correctly (Loop or Photo Eye) and is it activating on the Touch Panel? Yes - Check programming and the Output on the PLC - Although unusual, an output could be burnt. No - If it is a Photo Eye, ensure they are aligned and that their signal light is activating when blocked. If it is a Loop, check if the Loop Detector shows a fault - if not then check wires from the loop for continuity.
Low or No pressure from the manifolds	Does the RO Repress Pump activate properly? Yes - There may be a leak in the lines after the Repress Pump No - Check if the Motor Starter has an overload tripped. If so, reset it and check amp draw. If not, check power supplied to the RO Skid control panel and Repress Pump