

Other Maintenance Solutions

Here is a variety of answers to some of your broader maintenance needs.

Tough Putty Repairs Worn Metal

Devcon introduces the Ceramic Repair Putty™, an alumina-filled epoxy compound that provides a fast way to repair or rebuild worn or damaged process equipment. It is engineered to form a smooth, long-lasting barrier against abrasion, corrosion, cavitation and chemical attack.



Easily applied with a trowel, the putty fills voids and improves critical equipment performance such as pump casings, impellers, suction plates, heat exchangers, valves, etc.

Ceramic Repair Putty's 100 percent solids formulation produces no VOC emissions and covers 66-sq in per pound at a thickness of ¼-in. Pot life is 25 minutes, and functional cure is attained in 16 hours at room temperature. When cured, it withstands service temperatures up to 150-deg F wet, 350-deg F dry. Ceramic Repair Putty qualifies under military specification DOD-C-24176B(SH) Type I.

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Environmentally-Friendly Rust Remover

PICO Chemical Corporation offers PICOCLEAN X-RUST, a unique water-based chemical that removes rust from the pores of the metal surface (or recessed areas) to



recover steel components of valves, pumps, filters, couplings, seals, and pipes that are tarnished by rust and scale during usage or long-term storage.

No more manual abrasive cleaning, blasting or acid treatments. This concentrate contains no harsh acids or caustics. It is easy and safe to mix with water for use in soak, vibratory or ultrasonic tank equipment. Use at 15 percent to 25 percent

concentration in immersion applications between ambient and 120-deg F temperatures for plastic, stainless or porcelain-lined tanks. Rust removal times depend on concentration, agitation, temperature and the severity of the corrosion and surface condition, with 15 to 45 minutes being typical.

PICOCLEAN X-RUST passivates ferrous surfaces and often does not need to be removed prior to posting process operations such as coating, painting, or welding. It is available in gallons, pails, and drums.

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Zoom Inspection Camera

Envirosight, LLC announces its newly-enhanced QuickView zoom inspection camera that allows an operator to measure distance to in-focus targets, and view far away objects with greater stability.

With 216:1 zoom, onscreen distance measurement and HID lamps, QuickView captures video as far as 250-ft down lines 8-in to 60-in diameter. An operator simply finds an object, focuses on it, and presses the 'measure' button on the controls. It calculates distance based on the camera's focus and zoom settings to achieve an accuracy of ±10 percent over a range of 20-ft to 160-ft (6.1-m to 48.8-m). This is ideal for correlating taps to residences, troubleshooting backups, and identifying the location of problems such as off-sets, root balls, and debris.

The QuickView rests on a spherical rubber foot at the base of the leg. The foot grips common pipe materials to prevent drifting and sliding in sediment and maintain stability and a centerline view. The leg has gradations that correspond



to common pipe diameters. The operator simply slides the leg until the graduation matching the diameter of the pipe aligns with the hand screw, then tightens and locks the leg in position to align the camera view with the pipe centerline, ensuring even illumination and a uniform view of sidewall detail.

A spring in the leg allows fine adjustments to camera height by pushing down on the QuickView pole. The spring also dampens movement and vibration, improving the stability of inspection video.

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Next Generation Solenoid Valves

ASCO®, a division of Emerson, offers its RedHat Next Generation solenoid valves that accept both AC and DC voltages while improving performance. Their 2-watt power consumption achieves the same performance as a 17-watt AC solenoid valve.

The RedHat Next Generation valve's smallest power draw can reduce the size or prolong the life of power supplies, and is ideal for customers who prefer DC-powered valves, or for those using DC-powered field networks and desiring higher performance valves. DC performance has been increased by 150 percent to 500 percent from industry standards, making the valves' DC characteristics equivalent to AC pressure and flow values.

This solenoid can operate solely on DC power, greatly simplifying and cost-reducing field wiring schemes. Costly AC-power control cards are no longer needed. The valve offers dramatically reduced power requirements in AC-voltage applications. When mounted in cabinets, the valve's lower operating temperature may eliminate the need for fan ventilation.



The Next Generation technology uses built-in surge suppression to protect both the solenoid coil and system electrical controls. This eliminates inductive spikes generated by the solenoid, greatly lengthening the lives of mechanical or solid-state switches and ending the need for external snubber circuits.

This exceptional flexibility means one version of the valve can be used throughout a plant or across a global manufacturing network, simplifying and minimizing inventory requirements. The new valves come in three voltage ranges covering most electrical requirements – 100-240/AC or DC, 24-99/AC or DC, or 12-24/DC.

RedHat Next Generation products include 2-, 3-, and 4-way solenoid valves for most fluid control applications.

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P&S

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