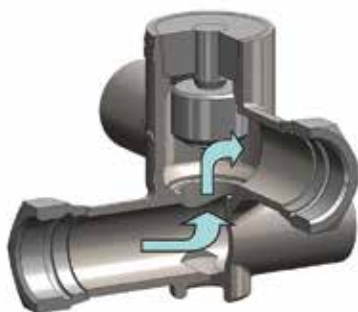




this month's topic **Fluids Handling**

Modular Valve Improves Flow Coefficients



The INOX family of space-saving modular valve bodies now includes a design with a higher flow coefficient than conventional angle-seat valves, which reduces energy requirements and improves system flow characteristics.

Conventional valves are designed with the inlet and outlet on the same level, which requires that the fluid be conducted through a seat and redirected three times. This inevitably causes flow losses in the valve and negatively affects flow coefficients. The reconfigured INOX design has the inlet and outlet of the valve on different levels. This means that the fluid flow needs to be redirected only once, increasing the flow coefficient. Having different inlet and outlet levels also allows for connections to other valve bodies without the need for additional piping.

Bürkert

www.burkert.com

Vacuum Pump Inlet Trap Protects Systems from Large Particulates



The Multi-Trap high-capacity vacuum inlet trap is appropriate for processes that generate large particulates. It is designed with one filter, made from pleated, high-temperature polyester, that provides 40 ft² of surface area and can retain 60 g/ft² of particulates, which makes it suitable for vacuum pump protection. It features a three-stage effluent trapping system: The first stage knocks down heavy particles and condenses volatile solids and liquids; the second and third stages contain two parallel banks of filter elements that can be customized to remove corrosive chemicals and fine particles. The standard housing is stainless steel with a 16-in. diameter. The trap is available with 25 µm and 100 µm ratings.

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Mass-Vac, Inc.

www.massvac.com

Deep-Bed Gravity Filter Eliminates Dirty Coolant Bypass

This deep-bed gravity filter is designed to eliminate dirty coolant bypass around the media. Features include wide sealing edges with heavy-duty chains to secure side seals, a deep bed that provides additional head to force liquid through the media, and heavy hot-rolled steel bar flights with flat edges to maintain the media seal and ensure proper media tracking. Heavy-duty construction prevents bed flexing, weld cracking, and structural failures to ensure maximum uptime. The gasket and bolted cleanout port are positioned at the side of the clean tank for easy maintenance, flushing, and cleaning. A variety of optional equipment is offered, including a magnetic coolant cleaner, cartridge filters, recirculation pumps, and drop-in coil chillers. The filters achieve clarity levels of 20–30 µm with flows up to 90 gpm.

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