

New Kalrez® 7375 Range of FFKM Sealing Products Offer Outstanding Properties & Performance

The new DuPont™ Kalrez® 7375 innovative FFKM sealing products provide high temperature as well as broad chemical and water/steam resistance properties. Sealing performance, reliability and safety are ensured for applications in the most demanding industrial, chemical and general industrial fields of operation. These high performance perfluoroelastomer O-ring components are available from Dichtomatik Ltd, the authorised distributor for a wide range of DuPont™ finished O-rings, as well as custom shapes, sheets and cord sealing components.

The Kalrez® 7375 parts are tailored for specialised chemical applications covering broad operating temperatures from -20°C to 300°C. These products, which incorporate patented cross linking technology, combine both superior chemical resistance with a thermal stability which exceeds many other competitive FFKM products. They are also available in most standard O-ring sizes including AS568, metric and JIS, with custom sizes and shapes also available on request.

In addition the Kalrez® 7375 product range exhibits an excellent compression set resistance incorporating outstanding physical property retention, while also maintaining good mechanical strength properties even under



highly aggressive performance conditions. Excellent sealing properties can be maintained under the most aggressive operating conditions for pumps, valves and compressors, together with associated connectors, vessel lids, filtration and distillation columns, as well as flowmeters and analytical equipment.

These sealing products also provide the broadest chemical and temperature resistance (water and steam), as well as long-term compression-set resistance for hot air at temperatures up to 300°C. These features are also coupled with good compression stress relaxation of the sealing product, as well as an excellent resistance to a broad range of chemicals which ensures low volume changes when operating with products such as Acetic Acid, Maleic Anhydride and Ammonium Hydroxide at 100°C temperatures, together with a 98% Sulphuric Acid content product at 150°C. ■

Valtorc Carbon Steel Valves for Use in Industrial Process/General Utility Applications

Ball Valves have a major role in the valve industry. The scope of applications regarding flanged carbon steel ball valve release is extensive, because of their heavy-duty construction and the fact that they're low maintenance and easy to operate. In addition, carbon steel ball valves are well suited for conditions that call for minimum pressure drop as well as maximum flow capacity.

Flanged Carbon Steel Ball Valve Release - Special Purpose Valves

These valves are part of a collection of what are referred to as "special purpose", high pressure and high industrial grade ball valves that also include Trunnion style ball valves, cryogenic, special water, steam, gas, oil and earthquake style valves. The Flanged Carbon Steel Ball Valve Release options are used in general utility and industrial process applications. The flanged carbon steel ball valve collection is offered in sizes that vary from 1/2" to 12", as an actuated system along with actuators or in manual mode with a lockable hand lever. The design (1 piece) provides maximum durability and full control. The flanged carbon steel ball valve release is an excellent option for food, pharma, chemical, food, solvent and gas usages, in petrochemical, chemical, steam, water, gas and other common utility services.

Flanged Carbon Steel Ball Valve Release Features include the following:

- Spark Testing
- Carbon Steel Body
- Assembled Onsite

- Pile Thickness Check
- Industrial Flooring, Air Shower Room
- Digital Display Rockwell Hardness Tester - 600mrd-s
- Direct - reading Spectrometer Testing Machine - Ar13460
- The full port ball delivers equal CV data as pipeline
- A 1 piece of stem/ball that connects the body using a spring, eliminating static electricity.
- Durable PTFE seat that provides permanent flexible compression, ensuring excellent sealing.
- The 1 piece stem and ball design minimizes the potential for damage, without a delay and offers good flow control.
- The valve is lined with more than 3mm PFA or FEP and is highly permeable along with anti-vacuum properties of the dovetail groove. It's virtually transparent as well as the best guarantee of product quality.



Images courtesy of Valtorc.

Shannon Heat Shield



A Shannon Heat Shield, (Model LT500HS-AC) made with aluminized glass cloth, covering a thermostatic steam trap at a petroleum refinery. The Heat Shield includes a grommet for plant personnel to conduct ultrasonic testing on the trap via a probe along with Velcro fasteners to easily remove and reinstall the shield.

The Shannon Heat Shield is a reusable insulation blanket custom-fitted for trap valve stations, which open to purge a steam system of condensate and close with the presence of steam. Shannon designed its new Heat Shield to save energy and maintenance costs for plant managers and improve safety. Uninsulated steam trap valve stations can have an average surface temperature of 250 degrees Fahrenheit. The Heat Shield reduces surface temperatures by hundreds of degrees Fahrenheit and produce and energy savings of up to 75 percent. Reusable insulation reduces cycle times and extends the service life of trap valve stations. A single, uninsulated trap valve station can lose between \$130 and \$740 per year. With average surface temperatures of 250 degrees Fahrenheit, a 75-percent energy reduction equates to a payback on investment of less than 6 months.

Shannon designed its new Heat Shield

for rugged and extreme conditions like those found at refineries, where plant managers may have between 5,000 and 40,000 trap valve stations. Since the Shannon Heat Shield is reusable, maintenance workers can easily remove it, service a valve station, and replace the insulation blanket using a quick-release fastening system. A maintenance worker can also inspect a trap valve station without removing the Heat Shield via an inspection grommet that Shannon will strategically place in the blanket.

The Shannon Heat Shield is compliant to OSHA standards for exposed heated surfaces, including 1910.261(k)(11), 1910.262(c)(9) and Section 5(a)(1) of the OSHA act. And Shannon designs and manufactures the product using a CAD-CNC process for exact fit and finish. Applications include trap valve stations, automatic pumping traps, condensate pumps and more. ■

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Whether you need one valve, or valves for complete Chemical Processing and Recovery Systems, **A-T Controls** is the trusted source for all your quarter-turn valve and automation needs.

Our exclusive **Pyramidal Stem Seal** design provides ball valves which meet the latest emission standards including both **TA-Luft** and the most recent **API-641 EPA method 21** requirements. Contact us today for the best in Quarter-Turn Valves and Automation in the industry.

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