Two Parts in One System

Lump Breaker is Adaptable to Any Crushing Requirement

This system of Co.Ra. is composed of two parts with different functions: One part reduces the size of the product; the other allows to further reduce the size to be able to be crushed by a common mill. The first part is composed of a shaft equipped with blades placed in a helicoid way, moved by a pneumatic system in grade of achieving alternate movements of 180° in both ways rotation senses and it is designed in a way to be easily applied in any hopper, container or existing piping. The system is conceived to be adapted to any type of product to be crushed, by changing quantity, and the position and profile of the blades. The second part is composed of a special rotating valve that closes the discharge of the hopper. The valve, with appropriate devices to the rotor, contemporarily carries out the reduction of the granules and the constant feeding of the machine to feed until the hopper is discharged.

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www.process-worldwide.com: Co.Ra.

Heat Treatment

Controlling Seamless Pipes

Pipes used in the oil and gas industry need to withstand high pressures. Manufacturers must verify temperature uniformity during heat treatment which is performed in a special furnace while the pipes are rotated. Depending on the thickness and grade of the steel, a cycle lasts up to 90 min at about 950 °C with maximum temperatures reaching 1000 °C. Since rectangular thermal barriers designed with conventional thermal protection cannot be installed in the pipes due to size and performance constraints, an entirely new approach was required. Based on its unrivaled experience in the development of specialized thermal protection solutions, Datapaq has designed a cylindrical vapor phase barrier for this special application. The TB4095 thermal barrier from the company is combined with a Tpaq21 data logger, and the Furnace Insight software. Through thermocouples placed at various points across the pipe surface, temperature uniformity of the product can be proven.

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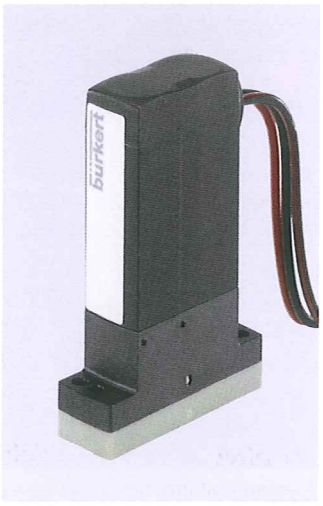
Rocker Valve Impulse Version

Energy Savings and Compact Design



The fluid technology specialist Bürkert has introduced the first rocker valve as impulse version (bistable). The impulse version of the Type 6624 valve allows energy savings in a compact design in comparison with monostable valves and also features good flushability. The new valve consumes no energy after the switching process, which is explained by the valve's functioning principle: a standard rocker valve has two seats, which are opened and closed as a result of electric current. However, they return to their original state as soon as the current is discontinued. Not so with the pulse version: a current pulse is used only to open a seat, for example—afterwards, it retains its position without the supply of power. This is made possible by a permanent magnet that attracts the iron core of the rocker valve. The valve can be returned to its original state by means of another current pulse.

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Ball Valve

Patent Registered for "Dissolution" Design

Extreme operating conditions with temperatures up to 450 °C and pressures up to 420 bar require special sealing technology. Now, AS-Schneider is entering this Metal Seated Ball Valve arena with the new KM Series. In parallel with the TA-Luft approval, the Series has also been subjected to type testing for fire safety in compliance with DIN EN ISO 10497 and API 607. This has been certified by Tüv Süd.

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