

PRESS RELEASE

Job No. MORG37/15

Issue Date: June 2015

MORGAN PUSHES THE BOUNDARIES WITH LARGEST EVER SEVERE SERVICE BALL VALVES

Morgan Advanced Materials, after continued research and development in its technical ceramics manufacturing capabilities, now has the capability to manufacture balls up to DN250 in diameter for severe service valves from its acclaimed Nilcra® Zirconia-based material.

Previously, valve balls have only been available in sizes of up to DN150 but the trend in process industries to reduce cost by designing systems with larger pipe diameters which require fewer devices overall has led Morgan to create a capability to manufacture balls in this larger size.

The balls are ideal for use with flow control valves operating in industries such as mineral processing, oil & gas, and pulp & paper.

A Zirconia-based material partially stabilised with magnesia, Nilcra® delivers exceptional strength and toughness together with erosion and corrosion resistance and is therefore frequently used in place of conventional materials such as metal alloys to provide longer component lifetimes. The material's properties make it ideal for use with slurries generated in mineral processing as well as abrasive rock particles and sand encountered in oil & gas extraction and processing.

This, and its ability to withstand high actuation torques applied during valve operation, has led to Nilcra® being regularly specified by the world's five largest valve OEMs for more than 25 years.

Morgan's Steve Thompson explained: "In recent years there has been increasing demand across multiple sectors to reduce cost by minimising the number of pipes and pipeline devices, while

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increasing pipe diameters. The diameters of the valves which control flow in these systems has also had to increase.

“Flow levels are determined by the square of the pipe diameter, meaning a DN250 system can handle approximately three times the capacity of its DN150 counterpart, typically reducing overall component count by around 65 per cent. We have pushed the boundaries of ceramic processing and can now deliver valve balls in this size, opening up a realm of new possibilities for system designers.”

To find out more about the solutions offered by Morgan Advanced Materials, please visit www.morgantechnicalceramics.com/nilcra-ball-valves

ENDS

Suggested Tweets

.@MorganAdvanced manufactures largest ever Nilcra Zirconia balls for severe service valves

DN250 valve balls designed by @MorganAdvanced can handle three times the capacity of their DN150 counterparts

About Morgan Advanced Materials

Morgan Advanced Materials is a global materials engineering company which designs and manufactures a wide range of high specification products with extraordinary properties, across multiple sectors and geographies.

From an extensive range of advanced materials we produce components, assemblies and systems that deliver significantly enhanced performance for our customers' products and processes. Our engineered solutions are produced to very high tolerances and many are designed for use in extreme environments.

www.morganadvancedmaterials.com

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The Company thrives on breakthrough innovation. Our materials scientists and applications engineers work in close collaboration with customers to create outstanding, highly differentiated products that perform more efficiently, more reliably and for longer.

Morgan Advanced Materials has a global presence with over 10,000 employees across 50 countries serving specialist markets in the energy, transport, healthcare, electronics, petrochemical and industrial sectors. It is listed on the London Stock Exchange in the engineering sector.

For more information on Morgan Advanced Materials visit

www.morganadvancedmaterials.com

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