Victrex Launches New Cryogenics Polymer for Energy Industry

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THORNTON CLEVELEYS, U.K. (PRWEB) November 27, 2018 -- Victrex has designed a new high-performance PEEK polymer to offer the cryogenics industry a sealing solution with a broader range of usage temperature compared to existing polymers such as PCTFE. At Valve World (27-29 November) the No-1 PEEK expert will introduce its new VICTREX CT™ 200 for dynamic sealing applications where gases such as LNG* are stored and transported at cryogenic temperatures [-150°C to -200°C (-238°F to -328°F)].

As the latest member of the VICTREX CT PEEK polymers, the 200 grade series exhibits improved sealing over a wider range of temperatures, compared to commonly used materials such as PCTFE. It does so at low temperatures because of its greater ductility, and at high temperatures due to its superior creep resistance.

VICTREX CT polymers have also been shown to maintain better dimensional stability, with a lower coefficient of thermal expansion than incumbent material. The higher thermal conductivity of these Victrex polymers enables a fast response to temperature changes, ensuring the material is engaged with the counter-surface at all times. In addition, laboratory testing indicates that they may require less torque to actuate since they have a lower static and dynamic coefficient of friction compared to PCTFE. This results in less wear, higher performance and a potential for cost savings.

"VICTREX CT 200 possesses the outstanding properties of PEEK, including high strength, and the ability to withstand aggressive chemicals," commented James Simmonite, Director Energy at Victrex. "In particular, we designed the new polymer with a lower coefficient of friction compared to its cousin VICTREX CT 100. All of these characteristics put VICTREX CT 200 ahead of materials such as PCTFE for cryogenic applications involving gases such as LNG and nitrogen. This is particularly the case in relation to dynamic applications, such as seat inserts, which must remain leak-proof when mechanical movement occurs. VICTREX CT 200 means dynamic progress for the industry."

Victrex expects VICTREX CT 200 will be of interest to a wide range of potential customers, including valve manufacturers, EPCs**, processors, and operators in oil & gas. The new product for the energy industry has successfully completed stringent TAT test as per the Shell Mesc 77/300 and holds promise for injection molding, compression molding and extrusion processing advantages. VICTREX CT 200 is scheduled for commercial availability beginning in December 2018.

Valve World, will be held from 27-29 November, 2018, in Dusseldorf, Germany. Find Victrex in Hall 4, Booth C54. Further information on Valve World is available at www.valveworldexpo.com.

Further information on VICTREX CT 200 polymer please visit: www.victrex.com.

*) LNG, Liquefied Natural Gas
**) EPC, engineering, procurement, and construction
Online Web 2.0 Version
You can read the online version of this press release [here].