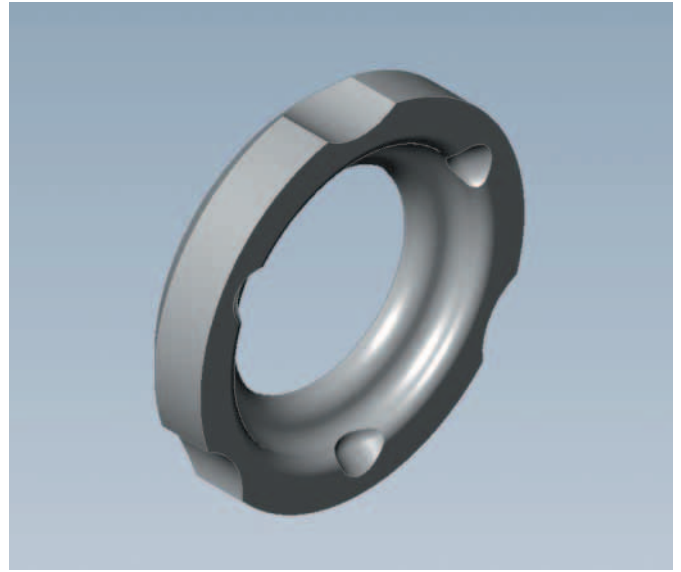
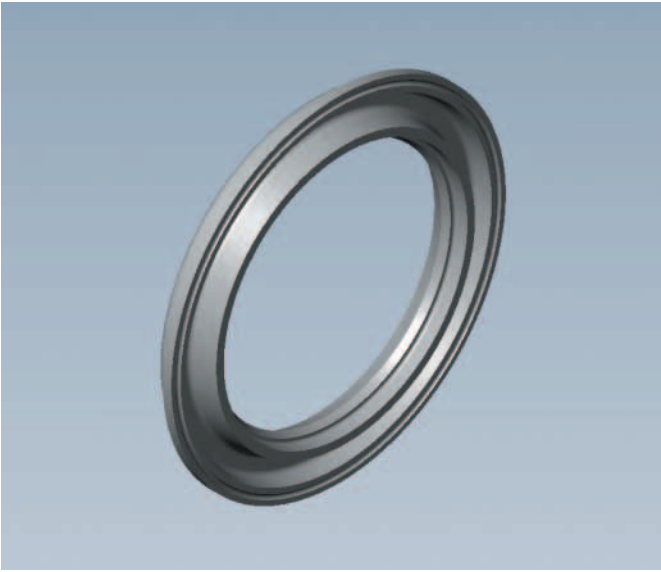


XTREME®
Advanced Sealing Technology



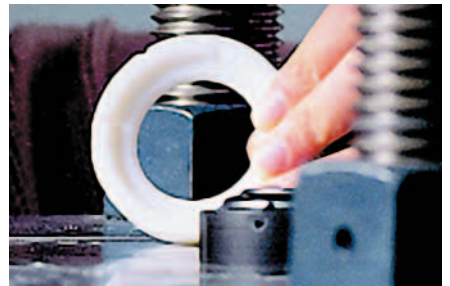


Leading-Edge Technology Provides State-Of-The-Art Performance.

At Metso, we know that there are few things more critical to valve performance than seat sealing design.

We also know how important innovation and state-of-the-art technology is in the creation of high-performing valve solutions. After all, Metso virtually invented valve sealing technology. Products such as our Bi-Directional Ball Valve and WAFER-SPHERE® valves introduced the industry to seating and sealing concepts that revolutionized valve dependability.

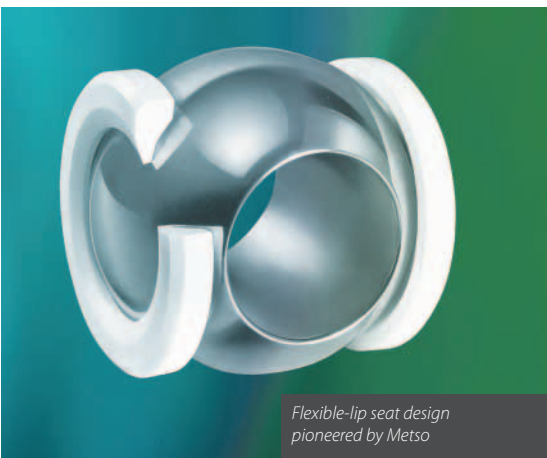
We continue that tradition with XTREME seats, a unique series of materials produced with a proprietary polymer formulation to expand valve performance boundaries for temperature and pressure. No matter how challenging the application, XTREME advanced sealing technology provides exceptional performance within a broader temperature and pressure performance range.



Testing Confirms Exceptional Performance.

Extensive testing and qualification by Metso Engineering confirms XTREME material's industry-leading performance ratings. Tests performed in our state-of-the-art polymer laboratory include:

- Pressure Live Cycle Testing
- Pressure/deflection cycle testing
- Deformation/torque assessments
- Temperature recovery testing
- Mechanical evaluation across full temperature range
- Wear and abrasion assessments
- Processing review – assessment of effects of processing parameters on material performance
- Heat of fusion verification
- FT-IR material analysis



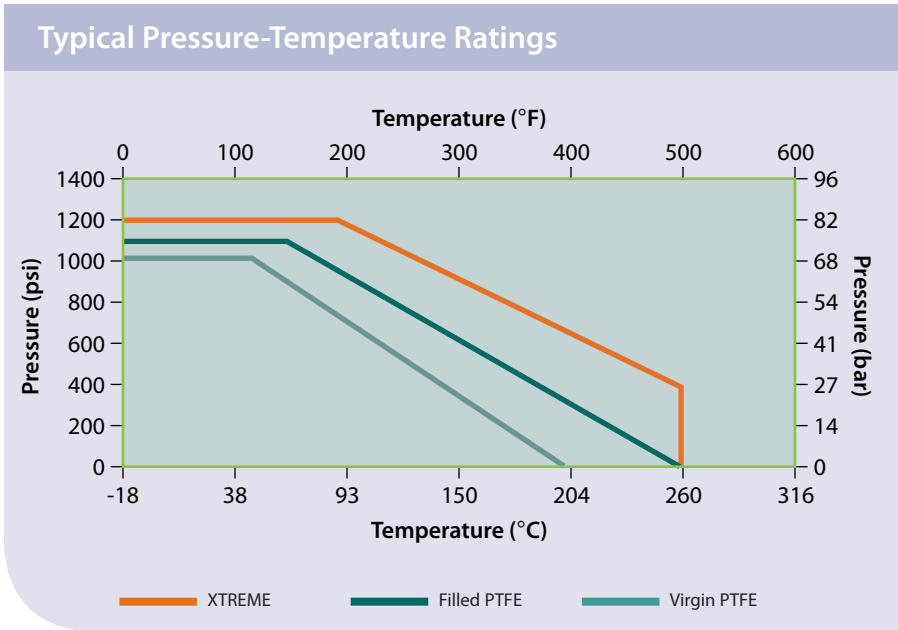
Flexible-lip seat design pioneered by Metso

High-Temperature and Pressure Capabilities.

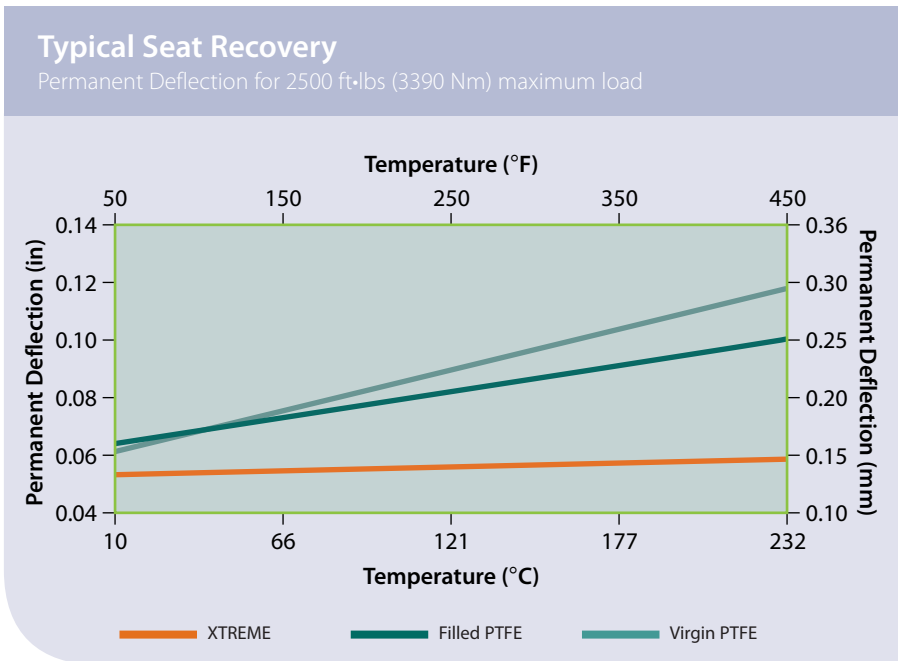
When combined with our unique, industry-proven seat designs, Metso's new XTREME seating material broadens the range of temperature and pressure applications. Metso sealing technology provides for applications from -320° to 500°F (-198° to 260°C) and pressures from vacuum to 1480 psi (102 Bar).

XTREME seat material's unique design, with low permeability and controlled crystallinity, produces a valve seat with less permanent deformation. This results in longer cycle life, better thermal cycle performance and better pressure cycle capability.

In addition, a broader temperature and pressure range eliminates the need for multiple seat options and lowers cost. With XTREME seats, you get superior performance and greater value with no additional investment.



Computer analysis of polymer properties maximizes performance ratings. XTREME advanced sealing technology incorporates Metso's proven flexible-lip seat design.



XTREME Cost Savings vs. PEEK

Application:		
2" ANSI Class 300 flanged-end ball valve for 350lb. steam or 500°F (260°C) heat transfer fluid		
Model:	2" 93001122HBLGG1	2" 9300312236XTZ1
Seat Material:	PEEK	XTREME
Linkage Kit:	1902	1593
Actuator:	VPVL600 SR6	VPVL400 SR6

SAVINGS: 51%

Cost savings due to the use of smaller actuators. XTREME requires less torque than PEEK.

Experience the costs savings of XTREME.

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