

Jamesbury® Xtreme®
Advanced Sealing Technology



Metso
North America

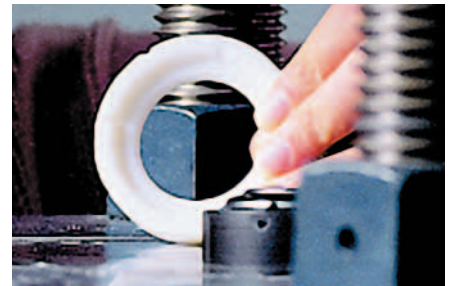


Leading-Edge Technology Provides State-Of-The-Art Performance.

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



Wafer-Sphere butterfly valve style seat



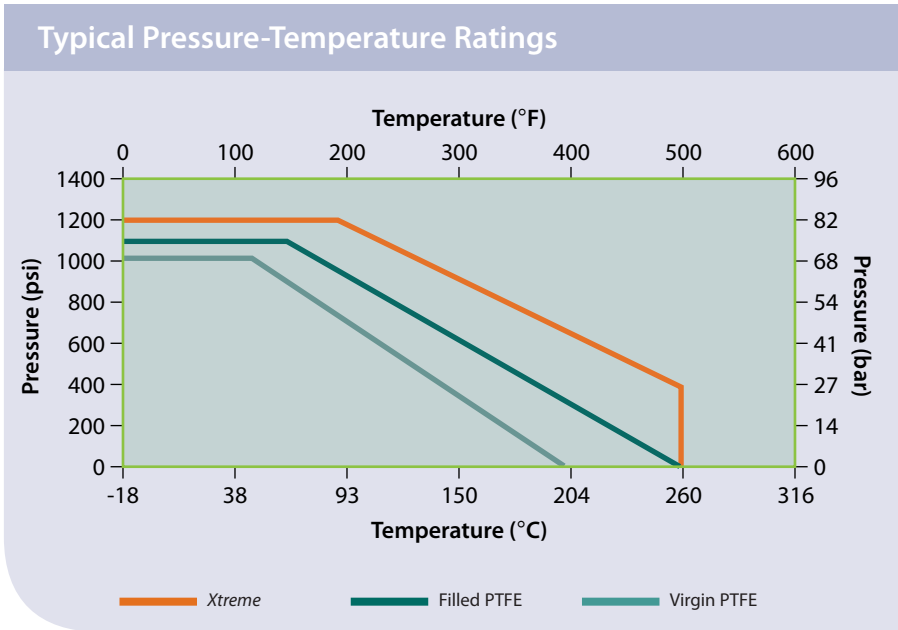
Ball valve style seat

High-Temperature and Pressure Capabilities.

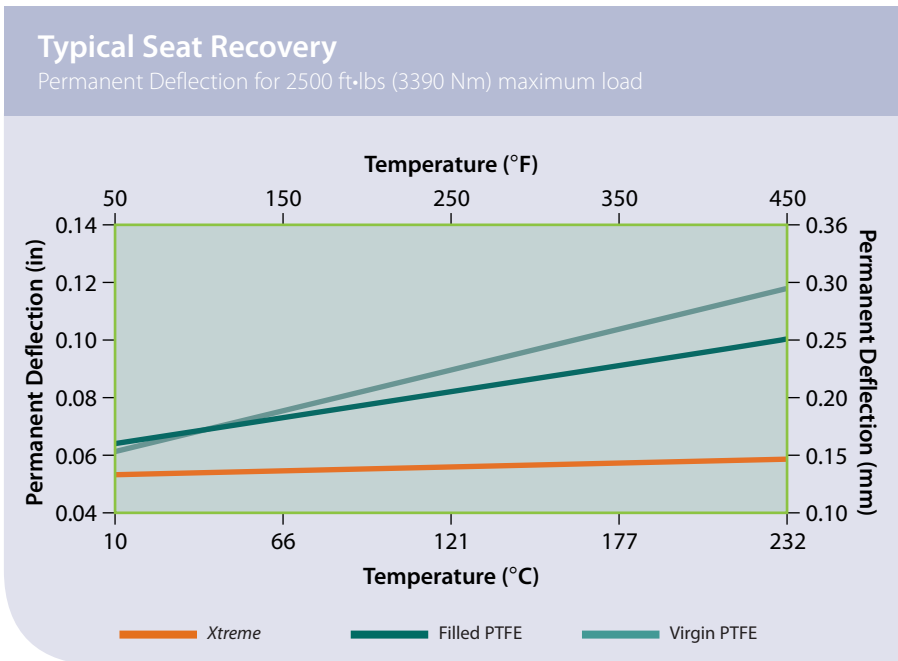
When combined with our unique, industry-proven seat designs, Metso's new *Xtreme* seating material broadens the range of temperature and pressure applications. Metso sealing technology provides for applications from -320° to 500°F (-198° to 260°C) and pressures from vacuum to 1480 psi (102 Bar).

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	<i>Xtreme</i>
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 cost savings of *Xtreme*.

Europe

Vanha Porvoontie 229, P.O.Box 304
FI-01301 Vantaa Finland
tel. +358 20 483 150, fax + 358 20 483 151

North America

44 Bowditch Drive, P.O.Box 8044
Shrewsbury, MA 01545, USA
Tel. +1 508 852 0200, fax +1 508 852 8172

South America

Av. Independência, 2500- Iporanga
18087-101, Sorocaba-São Paulo, Brazil
Tel. +55 15 2102 9700, fax +55 15 2102 9748/49

Asia Pacific

20 Kallang Avenue, Lobby B,
#06-00 PICO Creative Centre
Singapore 339411, Singapore
Tel. +65 6511 1011, fax +65 6250 0830

China

19/F, the Exchange Beijing, No. 118
Jianguo Lu Yi, Chaoyang Dist
100022 Beijing, China
Tel. +86-10-6566-6600, fax +86-10-6566-2575

Middle East

Roundabout 8
Unit AB-07, P.O.Box 17175
Jebel Ali Freezone, Dubai, United Arab Emirates
Tel. +971 4 883 6974, fax +971 4 883 6836

For further information please contact
one of our regional offices or visit our
web site www.metso.com/valves

