



*Worcester Controls
Seat options brochure*

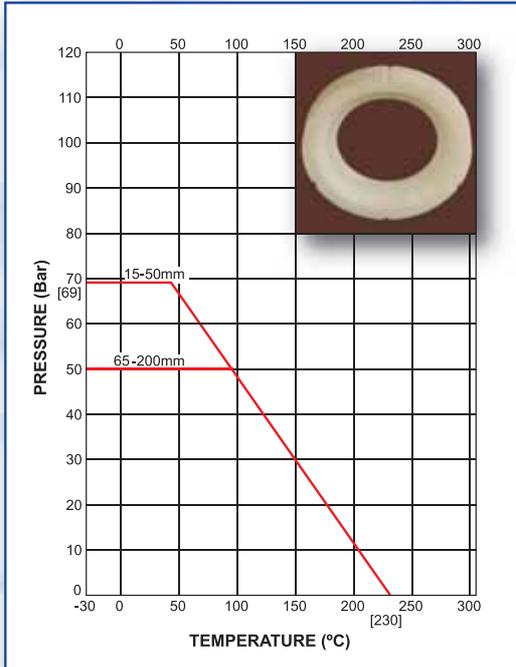


Experience In Motion

Pressure/Temperature Ratings

VIRGIN PTFE (T)

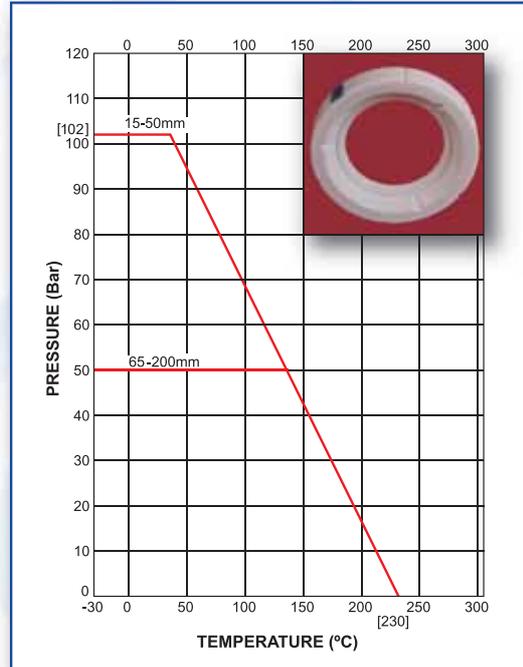
Virgin PTFE is the most common sealing material and is suitable for almost all media as it has excellent chemical resistance.



15% GLASS FILLED PTFE (R)

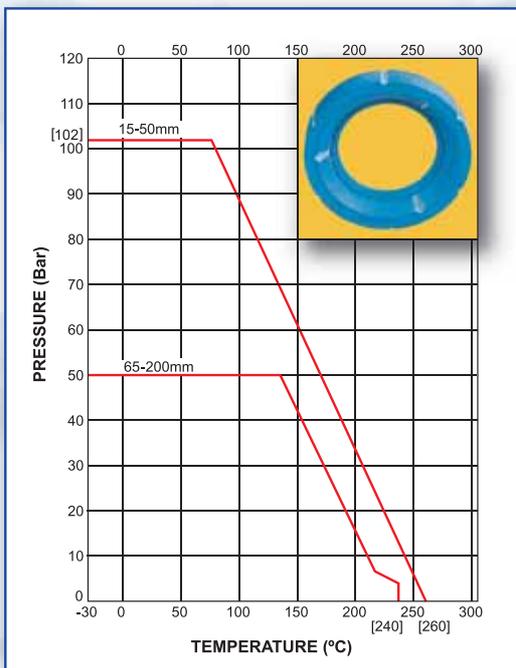
Glass re-inforced PTFE seats are stronger than virgin and have higher pressure/temperature ratings.

Chemical resistance as per virgin PTFE.



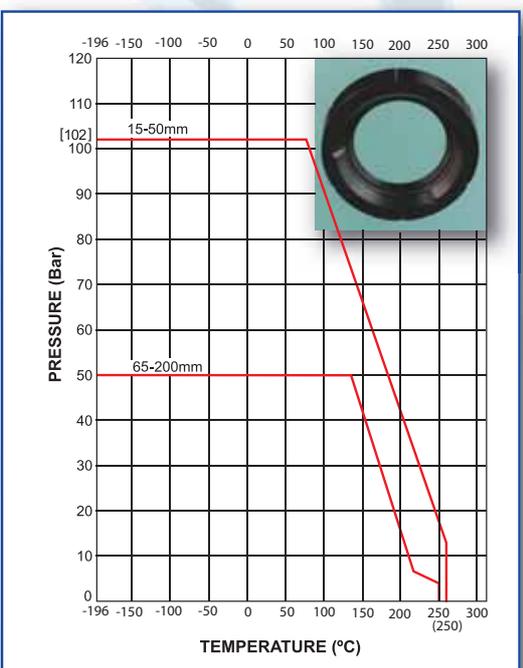
25% GLASS FILLED PTFE (H)

Glass re-inforced PTFE material offering a greater pressure / temperature capability than the R seat.



FLUOROFILL (P)

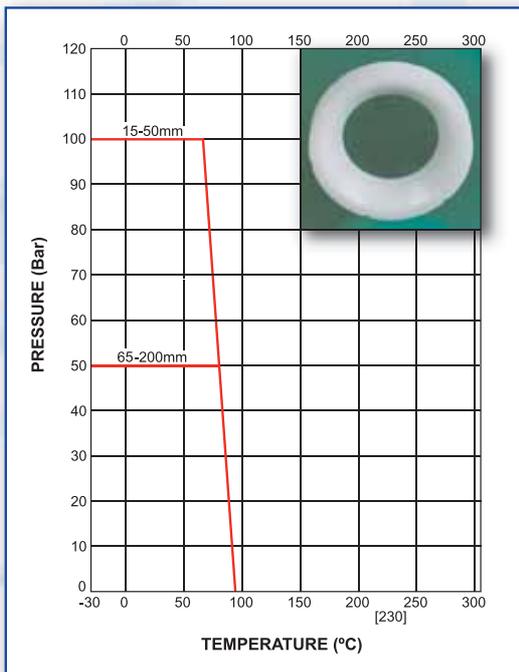
Carbon, glass and graphite filled PTFE material, an excellent seat material for steam and thermal services. Due to its high cycling capabilities, it is the recommended soft seat for modulating control applications.



Pressure/Temperature Ratings

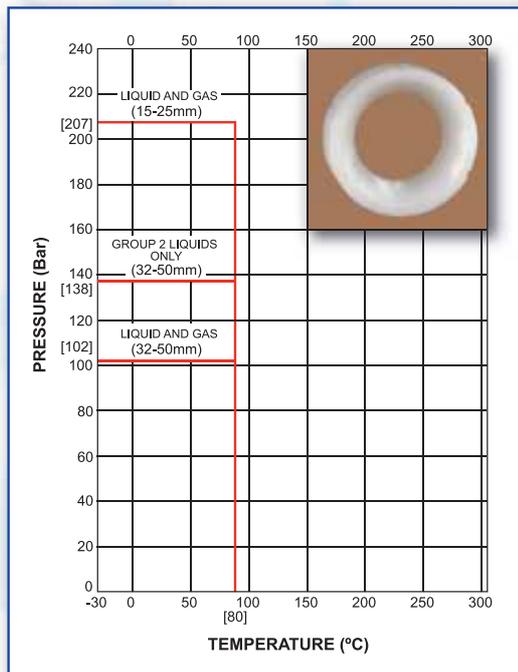
UHMWPE (U)

Ultra High Molecular Weight Polyethylene offers good performance characteristics in applications where PTFE is not suitable (for example on tobacco duty). It also has good abrasion resistance.



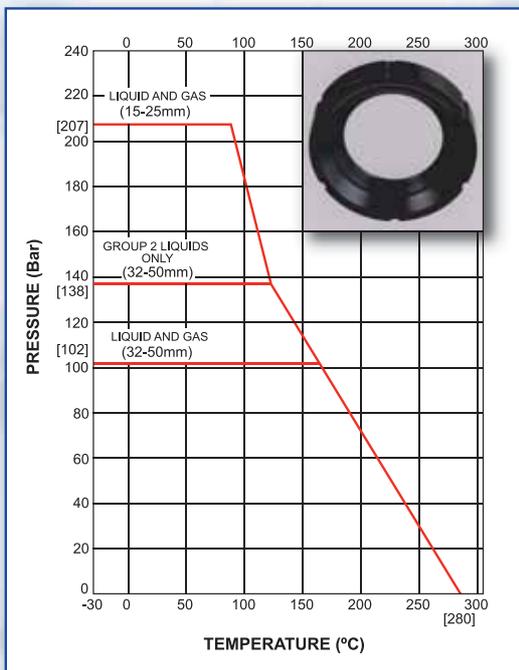
ACETAL (Y)

Machined from acetal homopolymer, these seats are capable of handling extremely high pressures. Please note this material should not be used on oxygen service.



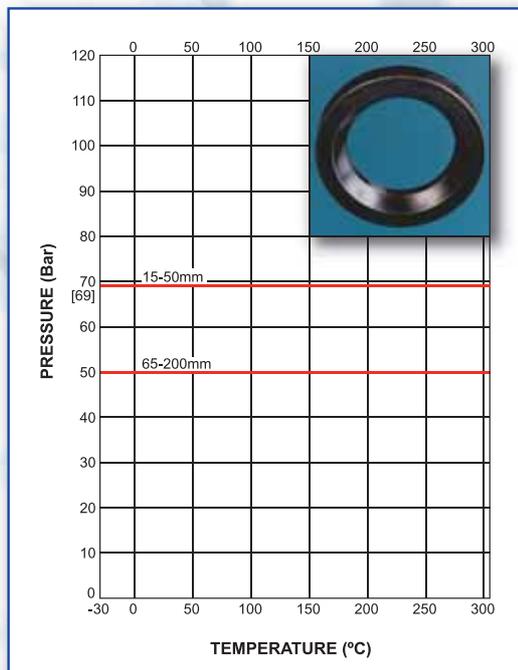
PEEK (A - DN15-25) (X - DN32-50)

PEEK is Poly Ether Ether Ketone, a material which demonstrates outstanding pressure capabilities at elevated temperatures. PEEK has excellent chemical and abrasion resistance.



METAL - ALPHA (N)

A 316L sintered metal seat impregnated with PTFE, this material combines the strength and abrasion resistance of metal with the lubrication properties of PTFE. A graphite-impregnated metal seat is also available.



Other seat materials

As well as the seat materials available in our standard range shown within this brochure, Flowserve can also offer seats and seals in a variety of other materials for specific applications. These include FEP (used for styrene in chemical processing applications), PCTFE (used for high pressure Hydrogen applications) and Vespel (used as a high temperature alternative to PTFE for general process applications).

We also supply many seats which have the necessary FDA (Food & Drug Agency) approval to be used within the food and drug industries and all our virgin, extruded & moulded PTFE seat materials do not contain 'animal derived components' relative to TSE (Transmissible Spongiform Encephalopathies) or BSE (Bovine Spongiform Encephalopathy).

For further application details contact Flowserve technical sales.



Combined seat/seal

The combined seat and body seal used in the 3-way T13/14 series enables the valve to upstream seal and hold back media on one side of the valve whilst media flows through the other port.

This guarantees that mixing of media will not occur during operation, providing greater application flexibility than with a diverter valve.



V-FLOW

The characterised metal seat used in the V-FLOW control valve is laser cut and can be manufactured to suit any flow characteristic requirement. This provides an enormous range of application possibilities.



Shrouded (Cavity filler)

The shrouded cavity filler seats are manufactured from any of our PTFE seat materials. They are ideal for applications using solidifying material or where the amount of media entering the cavity needs to be minimised. They can be fitted to 3-piece and flanged valves but bodies require additional machining to accept the larger diameter of the seat.

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To find your local Flowserve representative:

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