

# Ball Valves Seat Variations

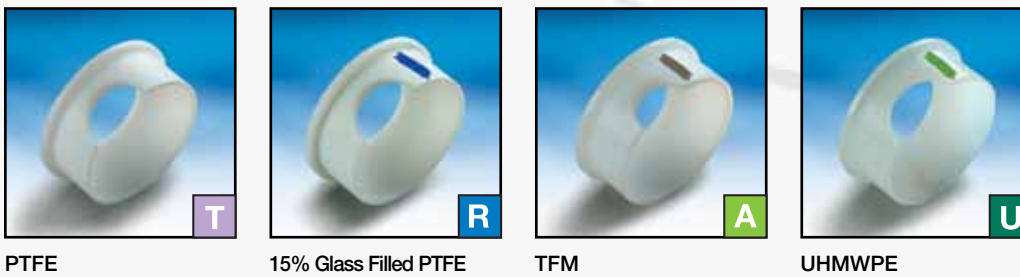
METRIC



## Standard Seats



## Cavity Filler Seats One piece seat and seal to minimize body cavity voids



## Diverter Seats One piece seat & seal for diverter and double block & bleed valves



# Materials:

## T VIRGIN PTFE

Inert to most chemicals, low coefficient of friction, recommended for water, foodstuff and corrosive chemicals. FDA grade. **Colour:** White

## J 25% GLASS FILLED PTFE

Similar to 15% glass filled PTFE seats but better resistance to wear and deformation under load. **Colour:** Gray-White with red stripe

## R 15% GLASS FILLED PTFE

Similar to 15% glass filled PTFE seats but better resistance to wear and deformation under load. **Colour:** Gray-White with red stripe

## H GLASS & METAL OXIDE FILLED PTFE - VX1

Withstands higher temperatures and pressures than filled PTFE, good resistance under load, not recommended for foodstuff. **Colour:** Blue

## P CARBON FILLED PTFE - NRG

Specially for steam and thermal oil, low coefficient of friction, inert to most media. **Colour:** Pale Black with white stripe

## U ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE (UHMWPE)

Good for nuclear, Tobacco, H<sub>2</sub>SO<sub>4</sub> and chemical resistance applications, low coefficient of friction. Temperature limit of 93°C. **Colour:** Pale White with green stripe

## C PCTFE

Cryogenic applications such as oxygen, hydrogen, nitrogen and more, suitable for temperatures up to -270°C. **Colour:** See-through White

## A TFM™ (Modified PTFE)

TFM™ is a chemically modified PTFE that offers enhanced properties while retaining all the proven advantages of conventional PTFE. FDA grade. **Colour:** white with brown stripe.

## Y ACETAL RESIN (DELRIN®)

Suitable for high pressures, good resistance to wear and deformation under load, temperature limit 80°C. **Must not be used in presence of oxygen.** **Colour:** Creamy White with black stripe

## K CARBON FILLED PEEK®

Suitable for elevated temperatures, good resistance under high pressure loads, low coefficient of friction, suitable for many corrosive applications. **Colour:** Charcoal Black with yellow stripe

## L VIRGIN PEEK®

Similar to filled PEEK® but higher coefficient of friction, suitable for nuclear, Tobacco, clean applications. FDA grade. **Colour:** Beige

## S VESPEL®

Vespel® is a polyimide material that has high temperature capabilities under load and is mainly used for heat transfer applications, hot gases and oils. Vespel® must not be used with STEAM or media containing WATER or WATER VAPOR. **Colour:** brown.

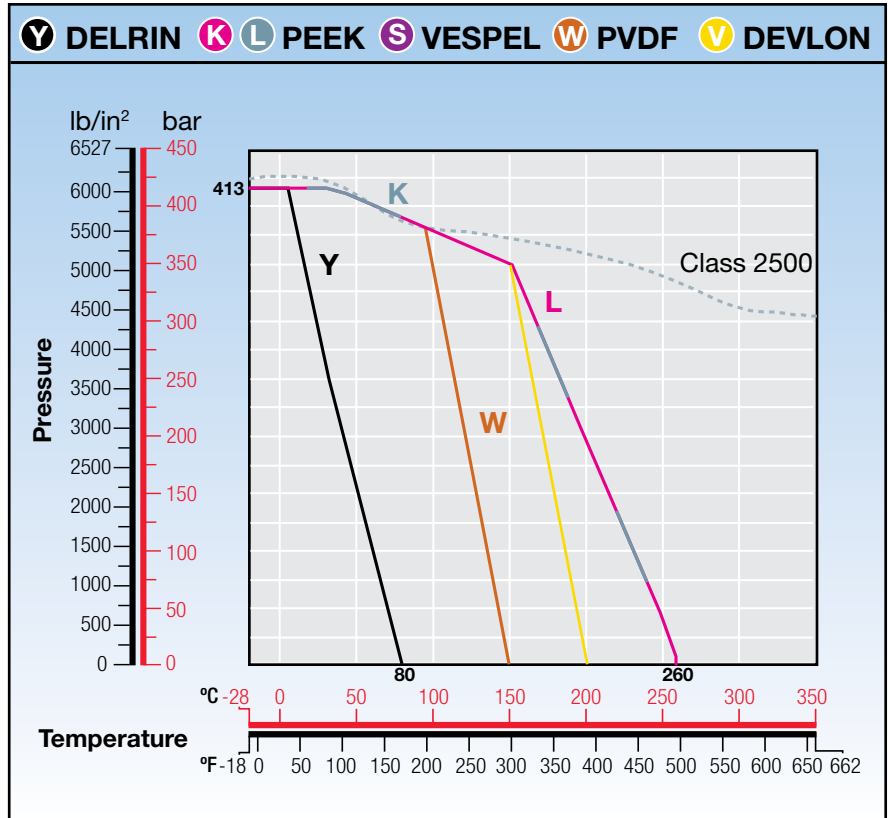
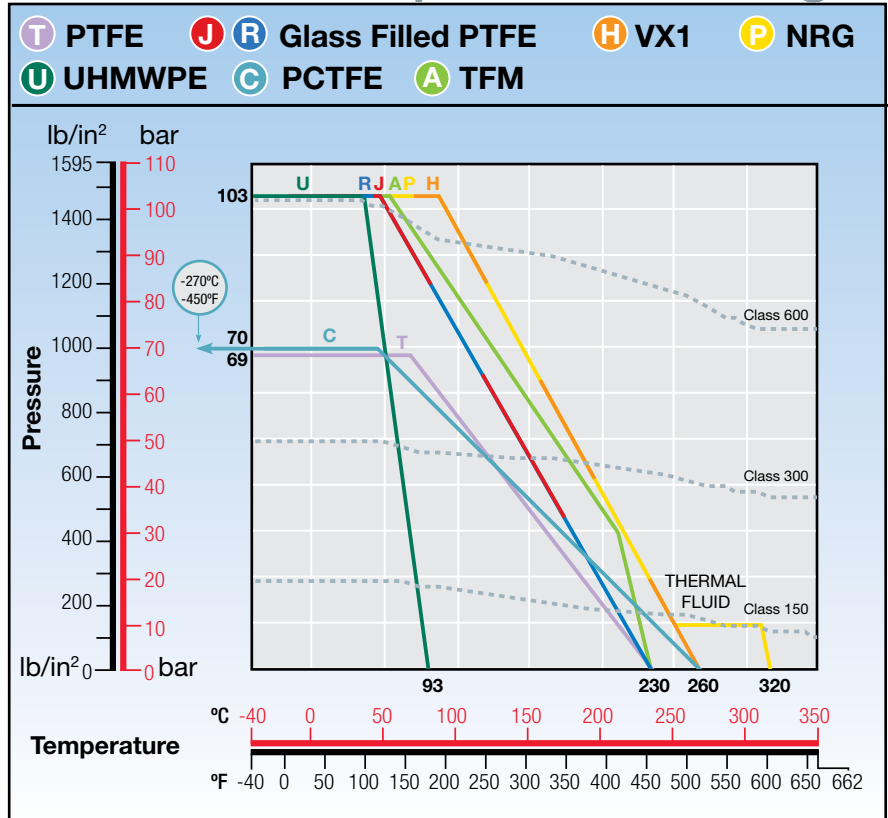
## W PVDF

Good chemical resistance and versatility of application. Provides very good resistance to aggressive acids and numerous solvents and cleaning agents. **Colour:** white.

## V DEVLON®

Devlon® V-API is a high molecular weight polyamide that is specifically tailored for high temperature/pressure. Applications in the offshore oil & gas sector. **Colour:** yellow.

# Pressure / Temperature Rating\*:



PVDF is a trademark of Dyneon, DEVLON® is a registered trademark of James walker, DELRIN® is a registered trademarks of DuPont, VESPEL® is a registered trademark of DuPont, TFM™ is a trademark of Dyneon, PEEK® is a trademark of VICTREX

\*The graph lines represent the maximum pressure / temperature rating of the seat material. When selecting a seat material, the lower rating between the valve body and seat should be considered. For more information please contact Habonim.

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