

# Devlon®

X100

Case Study: Alternative to PEEK in floating ball valve application

## Problem

Customer was using PEEK valve seats for class 600 and above and was not satisfied with the performance of PEEK materials. Suffering from poor material quality and high torque issues resulting in over-specified actuators and inconsistent seal performance. In some cases they were forced to move to trunnion mounted ball valves to try and accommodate these problems and were then losing out on opportunities as a result of the increased cost. The root problem was the inconsistent performance and quality of PEEK materials due to ambiguity of the material specification and commodity materials being supplied.

## Poor quality and high torque losing opportunities for valve manufacturer

## Application

### Floating ball valves

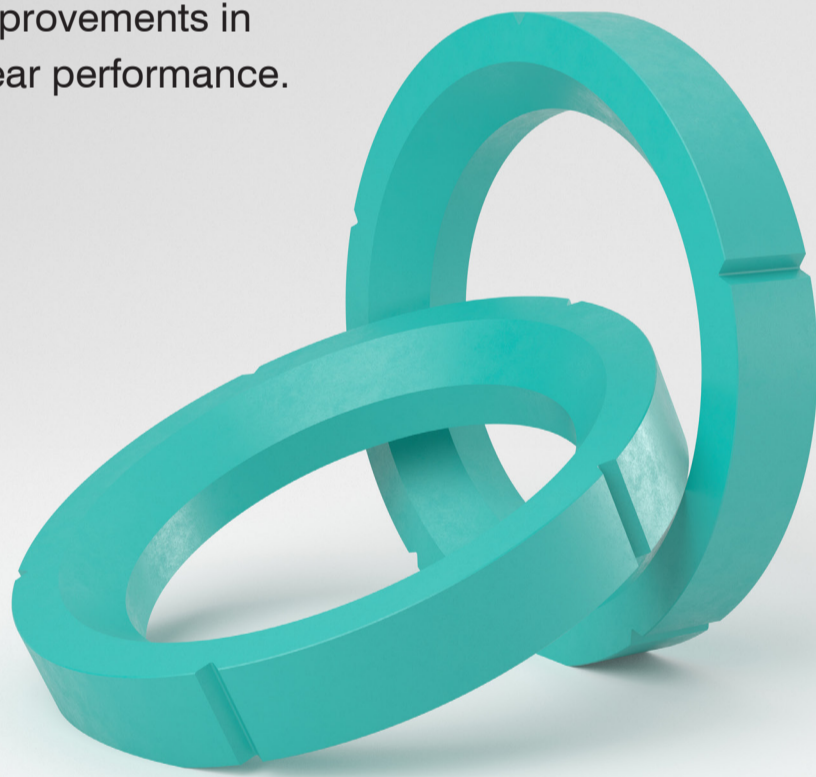
- Size: ½” to 6”
- Temperature: up to 160°C
- Media: general oil and gas duties
- Pressure: class 600 and above

## Existing solution

PEEK valve seats

## James Walker solution

To meet the increasing demands of the valve industry, Devlon® X100 has been specifically developed for use in the valve industry as a floating ball valve seat material. This material extends both the temperature and pressure range of traditional materials such as Nylon 6 and PTFE and improves moisture absorption resistance, with additional improvements in wear performance.



## Results and benefits

Consistent sealing, more competitive pricing both through material and actuator selection, and specified consistently processed material grade that provides repeatable results. This has allowed the manufacturer to return to floating ball valves for this pressure class offering.

## Return to floating ball valves and secured future opportunities



Lower friction reducing actuator requirements



Repeatable test results with consistently processed seats



Confidence to now offer floating ball valves



Potential to standardise across full floating ball valve range

To find out more speak Expert2Expert at

# jameswalker.biz

