



CONTAINMENT & PTFE

ASBV

Through **close co-operation** with our partners we have consistently delivered **high quality containment products**. Our new range of containment & PTFE seals has been developed in close cooperation with our seal manufacturing partner who has **extensive experience and excellent know how** in the development and production of PTFE products.

The new range of PTFE seals offer excellent thermal and chemical resistance properties, while still matching the stringent containment requirements of the existing seals. Due to the innovative PTFE production techniques, very exact tolerances can be met while producing a finished polished surface which requires no further manufacturing steps.

These techniques combined with an encapsulated elastomer core ensure that the elasticity of the finished seal is suitable for the highest requirements of demanding process pressure and vacuum conditions.



Standard PTFE seals are supplied in white FDA compliant material, black conductive PTFE can be supplied when required.



Metal parts may be machined to exact tolerances, however, a docking system is only as good as the seals within. It is the sealing material that influence the quality of the containment achieved. Our revolutionary manufacturing process eliminates the need for complex processing steps such as



sintering, etching, vulcanising and reworking which normally have an adverse effect on the finished surface of the seal. With the resultant smooth and polished seal surface powder retention is virtually eliminated.



The new PTFE seal's thermal properties and elastomer core ensure that the valve is capable of handling the expansion and contraction of the metal parts during thermal sterilization above 121°C which aseptic processes require and still deliver the required containment.



Due to the unique properties of the PTFE seal the valve can be used for charging both powders and liquids. A full range of customised charge drums are also available in stainless steel, PP, PTFE or HC22 complete with integrated spray nozzles to ensure a complete charge.

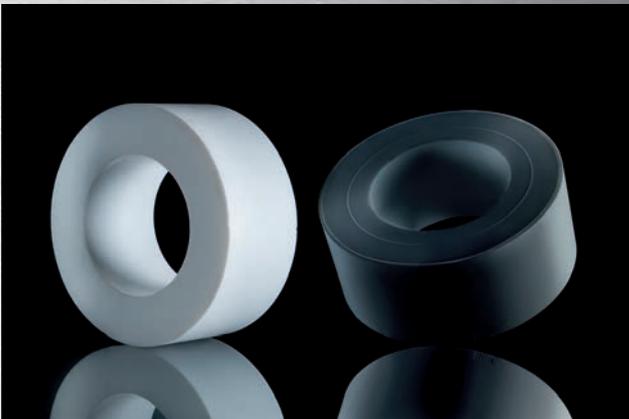




From raw materials to finished seals, our unique manufacturing process ensures a high quality seal with smooth surfaces and sharp corners to provide excellent sealing and containment.



just pressing &



manufacturing



Advantages of PTFE seals:

- Considerable cost savings when compared against traditional Perfluor elastomer seals
- Sterilization in place (SIP) possible with docked split-valves
- Suitable for high containment powders and liquids charging
- Suitable for chemically aggressive powders and liquids
- PTFE does not shed seal material into the product
- Below $1\mu\text{g}/\text{m}^3$ containment levels achievable



Properties of PTFE:

- Practically universal chemical resistance
- Temperature range from -250°C to $+260^{\circ}\text{C}$
- FDA approved material
- Very low coefficient of friction
- No absorption of water



Our Philosophy: Perfection in the smallest detail



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