MATERIAL LISTING & EXPECTED LIFE OF CONSUMABLES

All metal parts in contact with the product being processed are 316 / 316L Stainless Steel, F51 Duplex Stainless Steel or equivalent. These are the industry standards for the construction of equipment used in the manufacture of food, drug and medical related products.

All Jets (orifice) are made from 316L Stainless Steel.

All High-Pressure Seals are made from F51 Duplex Stainless Steel, PEEK450G (polyetheretherketone), GLFPTFE and EPDM O-Ring.

All sliding seals are GLFPTFE.

All rubber O rings are EPDM chosen for use with steam (*FDA on request).

***Properties and chemical resistance information are detailed below.**

Part Number	Consumable Item	Material	Recommended Change (Cycles)	Machine Type
BOF00073	40KPSI One Shot Cup O-Ring	EPDM 70 Shore	500	One Shot
DRG01221	40KPSI HP Cylinder	F51 Duplex St / St	50,000	One Shot
DRG01110	40KPSI One Shot Target	316L St / St EPDM 70 Shore	30,000	One Shot
DRG01742	40KPSI One Shot O-Ring Kit	EPDM 70 Shore	Change During Every Service	One Shot
DRG02701	40KPSI HP Seal	F51 Duplex St / St PEEK450G GFPTFE	10,000	One Shot / Continuous Flow
BOF03002	0.18mm Orifice Jet	316L St / St	50,000	One Shot / Continuous Flow
DRG02855	40KPSI Inlet Valve (Long Life)	F51 Duplex St / St PEEK450G EPDM 70 Shore	20,000 (Re-Lap)	Continuous Flow
BOF00073	40KPSI Inlet Valve O-Ring (Long Life)	EPDM 70 Shore	50,000	Continuous Flow
DRG02862	40KPSI Inlet Valve Peek Ring	PEEK450G	50,000	Continuous Flow

Part Number	Consumable Item	Material	Recommended Change (Cycles)	Machine Type
BOF01599	40KPSI Inlet Valve Spiro lox Ring (Long Life)	316 St / St	100,000	Continuous Flow
BOF00073	40KPSI Inlet Valve O-Ring	EPDM 70 Shore	2,500	Continuous Flow
DRG02781	Target (Carbide)	316L St / St Carbide EPDM 70 Shore	100,000	Continuous Flow
DRG02950	Solid Target	316L St / St EPDM 70 Shore	30,000	B/C Continuous Flow
DRG02687	40KPSI HP Cylinder	F51 Duplex St / St	50,000	Continuous Flow
DRG01744	40KPSI TS O-Ring Kit	EPDM 70 Shore	Change During Every Service	Continuous Flow
DRG02920	40KPSI TS O-Ring Kit	EPDM 70 Shore	Change During Every Service	Continuous Flow SN1030 Onwards

Due to our policy of continuous development, we reserve the right to change technical specifications without notice.

PEEK SPECIFICATIONS

PEEK is extremely resistant to a very wide range of organic and inorganic liquids and exhibits good retention of mechanical properties after long term exposure. Its only common solvent is concentrated sulphuric acid. (See table).

At high temperature PEEK is affect to some extent by strong acids and alkalis, including sulphuric acid, sodium hydroxide and ammonia. Organic reagents which have a significant effect at high temperature on weight, dimensions and mechanical properties are methyl ethyl ketone and nitrobenzene. The effect of strong alkalis is more pronounced on PEEK GF30 than on virgin PEEK. PEEK-BG on its turn is more chemically resistant than either PEEK or PEEK GF30.

Exceptional hydrolysis resistance is also one of the key features of PEEK. The material will even withstand exposure to pressurised hot water and steam up to temperatures as high as 250ºC. A 200-day exposure to boiling water for instance will leave PEEK completely unaffected. In respect of sterilisation resistance, PEEK outperforms the amorphous high-performance plastics PEI, PES and PSU, three materials renowned for their excellent hydrolysis resistance.