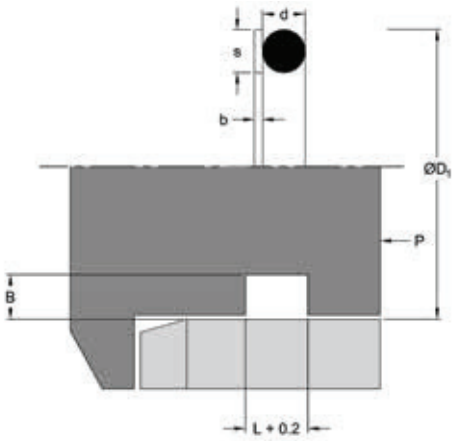
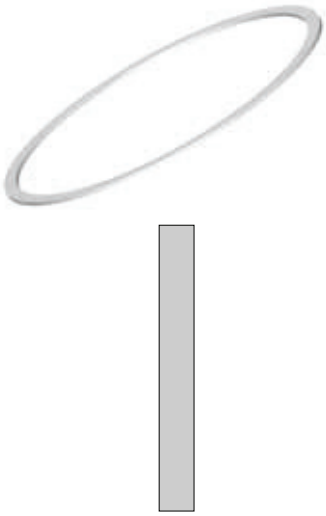


PME

UNCUT BACK-UP RINGS

For External Grooves



TECHNICAL DETAILS

Hallite PME back-up rings are uncut back-up rings made from specific conditioned PTFE to be assembled into one-piece external grooves. PME back-up rings are designed to support o-rings mainly in static applications. The cold flow feature of the specially conditioned virgin PTFE grade reliably closes the extrusion gap and protects the o-ring from extruding into the gap and helps to reasonably increase the acceptable system pressure. Hallite PME back-up rings are produced from stocked material and can be supplied on short notice.

FEATURES

- More extrusion resistant than conventional PTFE back-up rings
- No spiral or cut design; rings will not wrap around the rod jack and be sheared off
- Economical assembly of series with assembling tool
- Uncut design ensures no gap will endanger the o-ring
- Immediate reconversion after termination of assembly so that the back-up ring fits tightly on the bottom of the groove
- Simple assembly of small quantities with synthetic strip

OPERATING CONDITIONS

	metric	inch
Temperature Range	-30 to 200°C	-22 to 392°F

NOTE

Data given are maximum values and can apply depending on specific application. Maximum ratings of temperature, pressure, or operating speeds are dependent on fluid medium, surface, gap value, and other variables such as dynamic or static service. Maximum values are not intended for use together at the same time, e.g. max temperature and max pressure. Please contact your Hallite technical representative for application support.

INSTALLATION RECOMMENDATIONS

SMALL QUANTITY ASSEMBLY – PME BACK-UP RINGS*

When assembling small quantities of PME back-up rings, a synthetic strip can be used to best fit the back-up ring into the groove. The back-up ring should first be fitted into the groove at one part of the circumference and held in place in the groove. Work the ring into the groove around the part, using circular motions as quickly as possible. Note that the faster the assembly of the part into the groove, the faster the part will resize into the groove, minimizing time before the seal can be assembled.

LARGE QUANTITY ASSEMBLY – PME BACK-UP RINGS*

When assembling large quantities of PME back-up rings, the use of an assembly cone can minimize time needed to assemble. With this method, the o-ring and PME back-up can be assembled at the same time. This method provides quick assembly, as the back-up ring will immediately resize in the groove with the o-ring, making the assembly ready for use.

**If you choose to heat the part for easier assembly, you will need to verify that the ring has properly resized in the groove as the heat may interfere with the self-sizing function of the part.*