



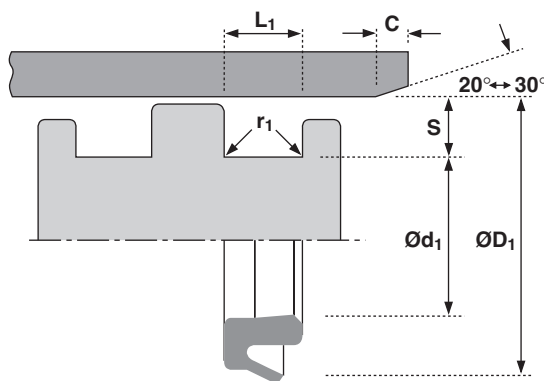
Design

The result of many years testing and development, the Hallite 607 piston seal is truly a breakthrough in pneumatics sealing. The Hythane® 181 material and the profile of the dynamic sealing lip combine to offer both ultra low friction - significantly less than that of rubber - and ultra long life.

The Hallite 607 has been developed to give significant improvements in cylinder performance in low lube air conditions and be used in long and short stroke applications. Hallite's type 607 may also be used in single acting cylinders with a spring return, as well as the double acting application illustrated.

Features

- Effective sealing
- Low friction
- Easy installation
- Excellent temperature range



Technical details

Operating conditions

| | |
|-------------------|-------------|
| Maximum Speed | 1.0 m/sec |
| Temperature Range | -45°C +80°C |
| Maximum Pressure | 16 bar |

Inch

| |
|--------------|
| 3.0 ft/sec |
| -50°F +180°F |
| 230 p.s.i. |

Surface roughness

| | µmRa | µmRt |
|--------------------------------------|------------|--------|
| Dynamic Sealing Face ØD ₁ | 0.1 <> 0.4 | 4 max |
| Static Sealing Face Ød ₁ | 1.6 max | 10 max |
| Static Housing Faces L ₁ | 3.2 max | 16 max |

| | µinCLA | µinRMS |
|---------|---------|--------|
| 4 <> 16 | 63 max | 70 max |
| 125 max | 140 max | |

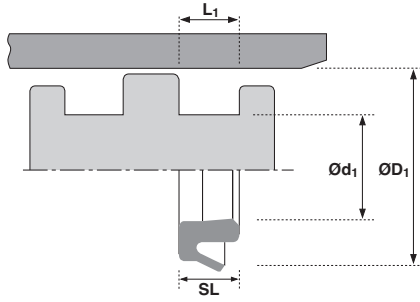
Chamfers & Radii

| | 4.0 | 5.0 | 7.5 | 10.0 | 12.5 | 15.0 |
|----------------------------------|-------|-------|-------|-------|-------|-------|
| Groove Section ≤ S mm | | | | | | |
| Min Chamfer C mm | 3.0 | 3.5 | 5.0 | 6.5 | 7.0 | 8.0 |
| Max Fillet Rad r ₁ mm | 0.2 | 0.4 | 0.8 | 0.8 | 1.2 | 1.6 |
| Groove Section ≤ S in | 0.125 | 0.187 | 0.250 | 0.312 | 0.375 | 0.500 |
| Min Chamfer C in | 0.093 | 0.093 | 0.125 | 0.156 | 0.187 | 0.217 |
| Max Fillet Rad r ₁ in | 0.008 | 0.008 | 0.016 | 0.016 | 0.032 | 0.032 |

Tolerances

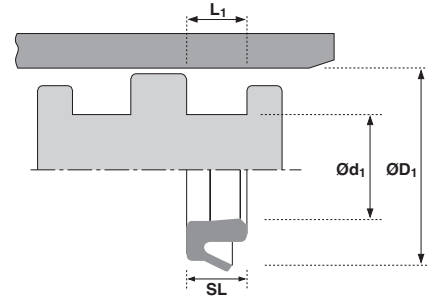
| | ØD ₁ | Ød ₁ | L ₁ |
|----|-----------------|-----------------|----------------|
| mm | H11 | js11 | +0.25 -0 |
| in | H11 | js11 | +0.010 -0 |





| ØD ₁ | TOL H11 | Ød ₁ | TOL js11 | SL | L ₁ +0.25-0 | PART No. |
|-----------------|----------------|-----------------|----------------|------|---------------------------|-------------|
| 32 | +0.16 +0.00 | 24.0 | +0.07 -0.07 | 5.80 | 6.50 | 4366200 |
| 40 | +0.16 +0.00 | 29.7 | +0.07 -0.07 | 7.10 | 8.00 | 4337900 |
| 40 | +0.06 +0.00 | 30.0 | +0.07 -0.07 | 6.80 | 7.60 | 4366300 |
| 50 | +0.06 +0.00 | 40.0 | +0.08 -0.08 | 7.10 | 8.50 | 4326200 |

| ØD ₁ | TOL H11 | Ød ₁ | TOL js11 | SL | L ₁ +0.25-0 | PART No. |
|-----------------|----------------|-----------------|----------------|------|---------------------------|-------------|
| 63 | +0.19 +0.00 | 53.0 | +0.09 -0.09 | 7.10 | 8.50 | 4366400 |
| 80 | +0.19 +0.00 | 70.0 | +0.09 -0.09 | 7.10 | 8.50 | 4366500 |
| 100 | +0.22 +0.00 | 85.0 | +0.11 -0.11 | 9.10 | 10.40 | 4366600 |



| ØD ₁ | TOL H11 | Ød ₁ | TOL js11 | SL | L ₁ +0.010-0 | PART No. |
|-----------------|------------------|-----------------|------------------|-------|----------------------------|-------------|
| 1.500 | +0.006 -0.000 | 1.187 | +0.002 -0.002 | 0.156 | 0.172 | 4517800 |
| 1.500 | +0.006 -0.000 | 1.250 | +0.003 -0.003 | 0.125 | 0.138 | 4517900 |
| 1.625 | +0.006 -0.000 | 1.250 | +0.003 -0.003 | 0.187 | 0.218 | 4591700 |
| 2.000 | +0.007 -0.000 | 1.625 | +0.003 -0.003 | 0.187 | 0.218 | 4591800 |
| 2.000 | +0.007 -0.000 | 1.750 | +0.003 -0.003 | 0.125 | 0.138 | 4518000 |
| 2.500 | +0.007 -0.000 | 2.125 | +0.004 -0.004 | 0.187 | 0.207 | 4518100 |
| 3.000 | +0.007 -0.000 | 2.375 | +0.004 -0.004 | 0.312 | 0.344 | 4419400 |
| 3.000 | +0.007 -0.000 | 2.500 | +0.004 -0.004 | 0.250 | 0.275 | 4518200 |
| 3.250 | +0.007 -0.000 | 2.750 | +0.004 -0.004 | 0.250 | 0.275 | 4518300 |
| 3.250 | +0.007 -0.000 | 2.812 | +0.004 -0.004 | 0.225 | 0.250 | 4591900 |
| 4.000 | +0.009 -0.000 | 3.250 | +0.004 -0.004 | 0.375 | 0.413 | 4447700 |
| 4.000 | +0.009 -0.000 | 3.500 | +0.004 -0.004 | 0.250 | 0.275 | 4518400 |

| ØD ₁ | TOL H11 | Ød ₁ | TOL js11 | SL | L ₁ +0.010-0 | PART No. |
|-----------------|------------------|-----------------|------------------|-------|----------------------------|-------------|
| 5.000 | +0.010 -0.000 | 4.250 | +0.004 -0.004 | 0.375 | 0.413 | 4447800 |
| 5.000 | +0.010 -0.000 | 4.500 | +0.004 -0.004 | 0.250 | 0.275 | 4560200 |
| 6.000 | +0.010 -0.000 | 5.125 | +0.005 -0.005 | 0.437 | 0.480 | 4420500 |
| 6.000 | +0.010 -0.000 | 5.375 | +0.005 -0.005 | 0.312 | 0.344 | 4518500 |
| 6.000 | +0.010 -0.000 | 5.500 | +0.005 -0.005 | 0.250 | 0.275 | 4518600 |
| 7.000 | +0.010 -0.000 | 6.250 | +0.005 -0.005 | 0.375 | 0.413 | 4518700 |
| 7.000 | +0.010 -0.000 | 6.375 | +0.005 -0.005 | 0.312 | 0.344 | 4518800 |
| 8.000 | +0.011 -0.000 | 7.250 | +0.006 -0.006 | 0.375 | 0.413 | 4421000 |
| 8.000 | 0.011 -0.000 | 7.375 | +0.006 -0.006 | 0.312 | 0.344 | 4518900 |
| 8.000 | +0.011 -0.000 | 7.500 | +0.006 -0.006 | 0.250 | 0.275 | 4519000 |
| 10.000 | +0.013 -0.000 | 9.250 | +0.006 -0.006 | 0.375 | 0.413 | 4422600 |
| 12.000 | +0.013 -0.000 | 11.250 | +0.006 -0.006 | 0.375 | 0.413 | 4422700 |

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