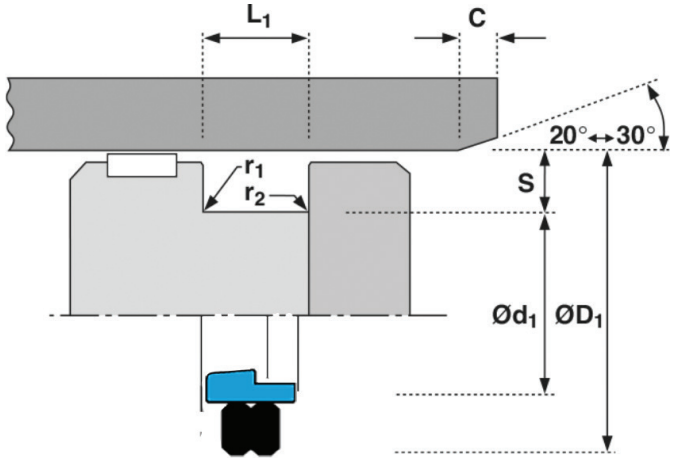
# PK8SSE




## Technical Details

| | Metric | Inch |
|---|---|---|
| **Operating conditions** | | |
| Maximum speed | 1.0 m/sec | 3.0 ft/sec |
| Temperature range | -40°C + 110°C | -40°F + 230°F |
| Maximum pressure | 350 Bar | 5000 p.s.i |

## Maximum extrusion gap

| | | | | |
|---|---|---|---|---|
| Pressure bar | 100 | 160 | 250 | 350 |
| Pressure p.s.i | 1500 | 2400 | 3750 | 5000 |
| Maximum gap (S>0.280) in | 0.030 | 0.025 | 0.020 | 0.010 |
| Maximum gap (S>0.280) in | 0.025 | 0.020 | 0.015 | 0.005 |

## Surface roughness

| | µmRa | µmRt | µinCLA | µinRMS |
|---|---|---|---|---|
| Dynamic sealing surface $ØD_1$ | 0.1 - 0.4 | 4 max | 4 - 16 | 5 - 18 |
| Static sealing face $Ød_1$ | 1.6 max | 10 max | 63 max | 70 max |
| Static Housing faces $L_1$ | 3.2 max | 16 max | 125 max | 140 max |

## Chamfers & Radii

| | | | | |
|---|---|---|---|---|
| Groove section ≤S in | 0.154 | 0.269 | 0.373 | 0.431 |
| Min chamfer C in | 0.100 | 0.150 | 0.200 | 0.200 |
| Max fillet rad $r_1$ in | 0.016 | 0.016 | 0.016 | 0.016 |

## Tolerances

| | $Ød_1$ | $L_1$ | |
|---|---|---|---|
| in | H9 | js10 | |
| ØD > in | 1.000 | 3.000 | 5.250 |
| $L_1$ | ±0.002 | ±0.003 | ±0.004 |

## DESIGN

PK8SSE is a compact double acting piston seal with low friction seal for light to medium duty hydraulic cylinders. It comprised with a glide ring, strengthened with additives to resist creep, which pre loaded by an square ring to be effective for the operating range recommended.

As the pressure rises, the square ring deforms and compresses glide ring against the tube wall increasing the sealing force and the effetiveness of the seal. Only the glide ring is in contact with the sliding surface, friction is very low and stick-slip movement is eliminated.

## FEATURES

- **Low break out and operating friction levels**
- **More tolerant to dirt and contamination**
- **Excellent wear resistant**
- **Operates on a wide range of surface finishes**

## MATERIAL

Seal design comes in a variety of materials and sizes. For more information, please refer to MSDS datasheet.

## APPLICATIONS

Light to medium duty applications

CERTIFIED Product Quality