



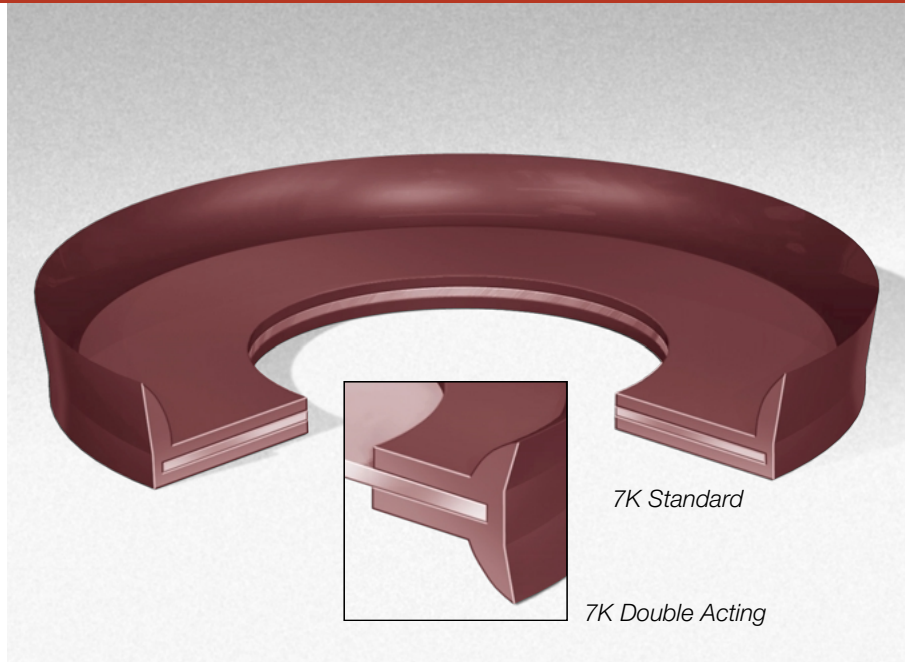
7K – Product Data

Chesterton® 7K seals are piston cups for **HYDRAULIC** and **PNEUMATIC** applications. 95A and 85A Super Polymer 7K's are supplied with a supporting metallic disc, molded into the base. The resulting rigid base provides a stable, non-distorting superior seal. In addition to the single lip configuration, Chesterton offers a Double Acting 7K SuperCup which performs best in compact design situations.

- Long life cup will not swell, deform, drag or bind.
- Positive, flared lip design optimizes sealing forces.
- Excellent memory retains lip flare. Ideal replacement for traditional materials generally used on these applications.
- **95A Super Polymer is recognized as the best overall seal material that can be used in the majority of situations.** Other materials available to meet specific requirements.

DELIVERY INFORMATION

- Standard shipment – 95A Super Polymer and Fluoroelastomer, 5 days or less.
- All other materials – 12 days or less.



Available Materials and Seal Sizes

Materials	Code	H
95A Super Polymer	0	≤1.25 (32)
85A Super Polymer	A	≤1.25 (32)
Fluoroelastomer†	J	≤0.75 (19)
FDA Polymer†	Z	≤1.25 (32)
FDA Fluoroelastomer**	Y	≤0.75 (19)

0 7 14 21 28
 (0) (178) (356) (533) (711)
 Maximum O.D. – Inch (mm)

H = Seal Height

* = Call for Availability

† = Supplied without supporting metallic disc

NOTE: Standard 7K centerhole (CH) – for D < 4.000 (101,6 mm) = .250 in. (6,35 mm)
 – for D ≥ 4.000 (101,6 mm) = .500 in. (12,70 mm)

Typical Applications

- Hagan cylinders
- Carton making machinery
- Paint pumps
- Bottle filling machinery
- Bailey cylinders
- Reciprocating pumps
- Banbury mixers
- Glass making machinery
- Miller cylinders
- Sewage pumps
- Air cylinders
- Tire making machinery
- Valve actuators
- Bag filling machinery



7K – Technical Data

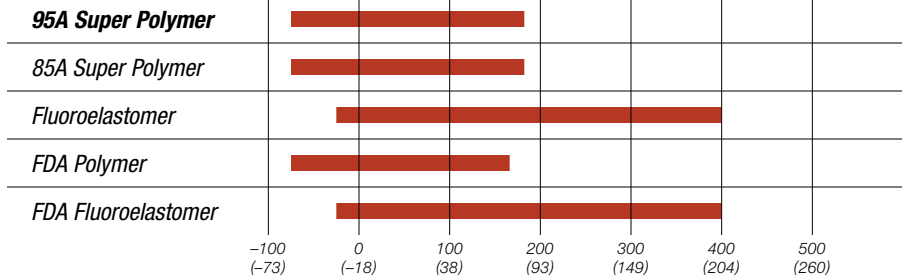
To select a 7K seal:

- Choose the appropriate material according to temperature, speed and pressure considerations given in the charts.

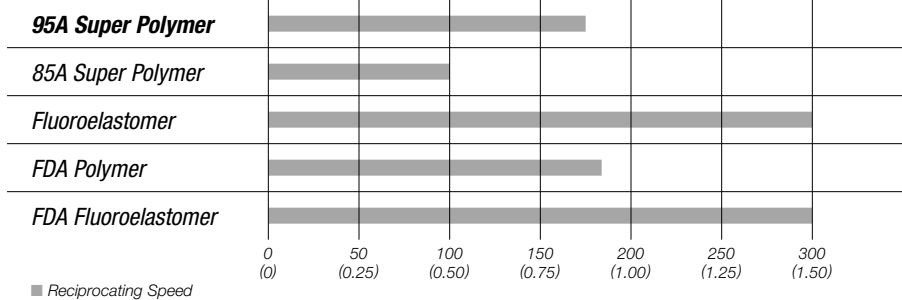
Notes:

- The standard centerhole for a 7K seal is
 $D < 4.000$ (101,6 mm) = .250 in. (6,35 mm),
 $D \geq 4.000$ (101,6 mm) = .500 in. (12,70 mm).
- If you require a non-standard centerhole for a 7K seal, you must state this on your order, otherwise the standard centerhole will be supplied.
- Custom bolt hole patterns available on request.

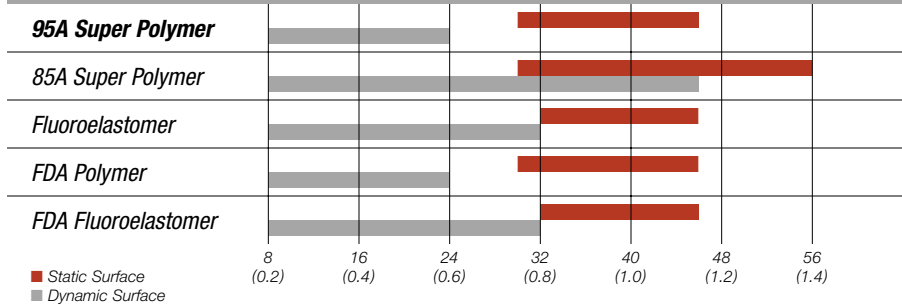
Operating Temperature Range – °F (°C)



Approximate Operating Speeds – ft/min (m/sec)



Recommended Surface Finishes – μ Inch (μ m)





7K – Technical Data – Recommended Operating Pressures – psi (bar)

Calculate diametrical clearances as follows:

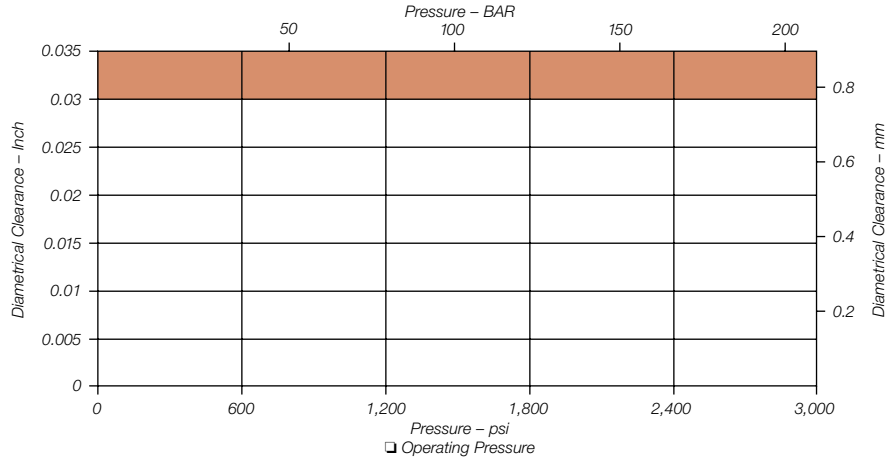
Diametrical clearance

$$= D - p$$

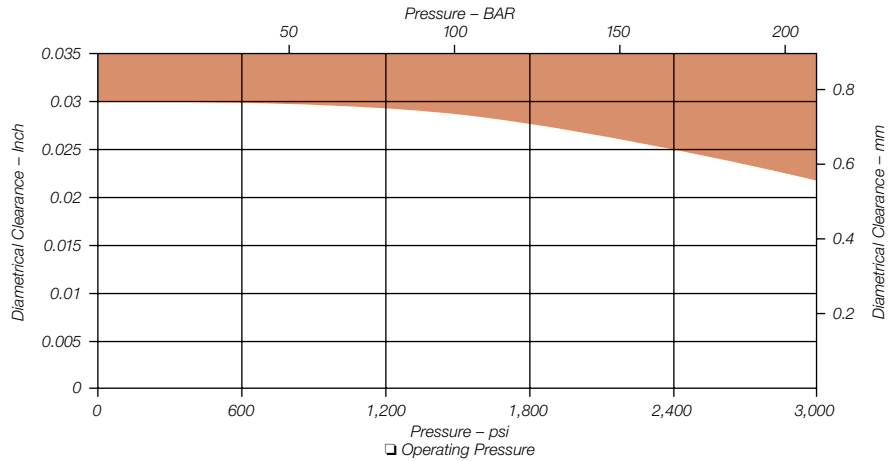
Cylinder bore = D

Piston outside diameter = p

95A Super Polymer – Hi-Temp. Polymer



85A Super Polymer – FDA Polymer



Fluoroelastomer – FDA Fluoroelastomer

