

- Category**
- Wear Ring, Rod or Piston
- Construction**
- Woven fabric reinforced polyester pultrusion
- Housing**
- Rectangular groove in one piece gland or piston
- Comments**
- Bearing strip is cut to the required length from stock coils
- Manufacturer**
- Hallite
- Size Range**
- Metric and imperial

Metric Specifications

Operating Conditions

Maximum Speed:	0.1 m/sec @ 10 MN/m ²
	1.0 m/sec @ 6.0 MN/m ²
	5.0 m/sec @ 0.8 MN/m ²
Temperature Range:	-40°C ~ 120°C

Surface Finish

Dynamic Sealing Face:	0.4 µmRa
Static Sealing Face:	3.2 µmRa max

Compression Strength at Yield

Temperature	23°C	80°C
Yield	115 MN/m ²	58 MN/m ²

Imperial Specifications

Operating Conditions

Maximum Speed:	0.3 ft/sec @ 1500 psi
	3.0 ft/sec @ 900 psi
	15.0 ft/sec @ 120 psi
Temperature Range:	-40°F ~ 250°F

Surface Finish

Dynamic Sealing Face:	16 µinCLA
Static Sealing Face:	125 µinCLA max

Compression Strength at Yield

Temperature	70°F	175°F
Yield	16 500 psi	8500 psi

Extrusion Gap (Diametral)

- Where a seal is used with a wear ring, the extrusion gap for the wear ring is determined by the extrusion gap required by the seal. The use of seals with antiextrusion devices allows larger metal to metal clearances.
- Where no seal is used, extrusion gaps not less than 1mm (0.040") diametral and not exceeding 30% of the wear ring cross section should prove adequate.

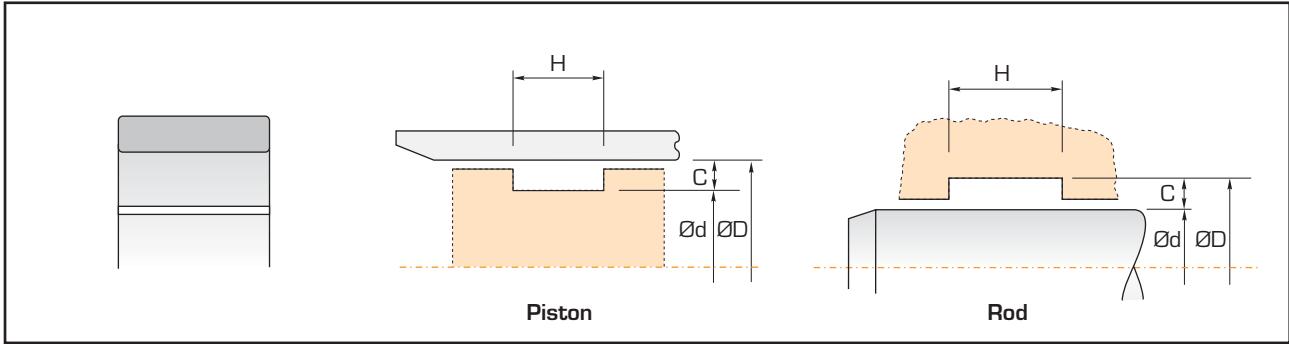
Cutting Bearing Strip

- It is critical that bearing strip is cut to the correct length to maintain correct end gap, hence creating a passage for the fluid media flow through.
- Cut bearing strip to length with a sharp knife or shears, using the following formula to determine the correct cut length:

$$\text{Cut Length} = (\text{Ø}d + C) \times 3.11 - 0.5\text{mm}$$



BSM/506 & BSI/506



Metric Sizes

Tolerances	ØD	Ød	H
Rod	H9	f9	+0.20 -0
Piston	H11	f9	+0.20 -0
Part No.	C	H	
BSM-5.6-2.5-506	2.50	5.60	
BSM-6.3-2.5-506	2.50	6.30	
BSM-9.7-2.5-506	2.50	9.70	
BSM-9.7-3-506	3.00	9.70	
BSM-9.7-4-506	4.00	9.70	
BSM-10-2-506	2.00	10.00	
BSM-12.8-3-506	3.00	12.80	
BSM-13-2.5-506	2.50	13.00	
BSM-15-2-506	2.00	15.00	
BSM-15-2.5-506	2.50	15.00	
BSM-15-3-506	3.00	15.00	
BSM-20-2.5-506	2.50	20.00	
BSM-20-3-506	3.00	20.00	
BSM-20-4-506	4.00	20.00	
BSM-25-2.5-506	2.50	25.00	
BSM-25-4-506	4.00	25.00	
BSM-30-2.5-506	2.50	30.00	
BSM-30-4-506	4.00	30.00	
BSM-40-4-506	4.00	40.00	

Imperial Sizes

Tolerances	ØD	Ød	H
Rod	+0.004 -0	f9	+0.008 -0
Piston	H11	+0 -0.004	+0.008 -0
Part No.	C	H	
BSI-375-125-506	0.125	0.375	
BSI-500-125-506	0.125	0.500	
BSI-625-125-506	0.125	0.625	
BSI-750-125-506	0.125	0.750	
BSI-1000-125-506	0.125	1.000	
BSI-1500-125-506	0.125	1.500	

