

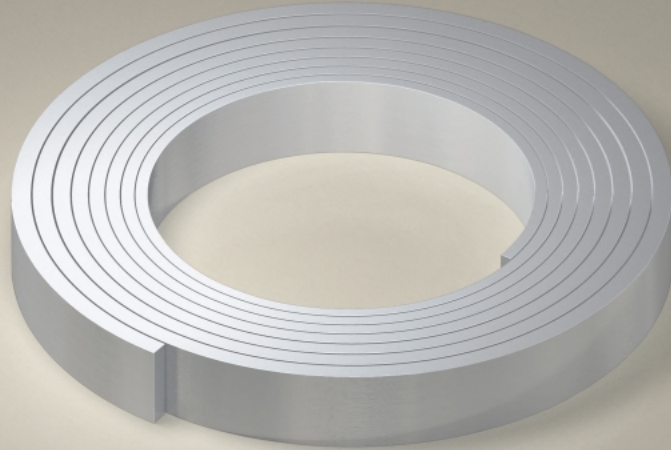
17K Imperial Bearing Band Strips

17K - Product Data

The 17K Imperial Bearing Band Strips are the solution to costly cylinder re-machining and repairs for large diameter equipment. The bearing material is made from a composite of polyester resin reinforced with synthetic fibers specifically designed to support heavy loads. The exceptional physical properties and built-in graphite lubricants make it suitable for use on rams or pistons in reciprocating applications.

Features & Benefits:

- Prevent metal to metal scoring and prolong equipment life.
- Reduce radial movement on both rams and pistons therefore extending seal life.
- Built-in lubricant allows for lower coefficient of friction between mating surfaces.
- Retrofit existing bearing grooves and eliminate unnecessary modifications.
- Available in common sizes which minimizes inventory costs.
- Cut to size from coil and accommodate equipment over 12 inches in diameter.



Size & Availability:

Imperial

Cross section (S), inch	Groove Width (L), inch	Rod Bearing (d/D), inch	Item #
.125"	1.000"	12" to 62"	117272
	1.500"		124784
	2.000"		117273

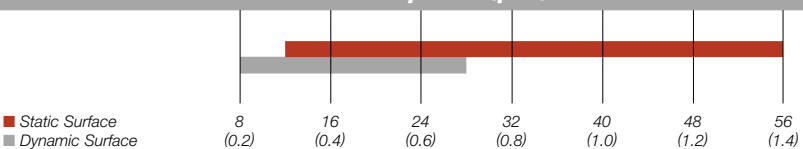
* Standard coil length is ~16 feet (5 meters) in length.

Operating Conditions:

Imperial (Metric)

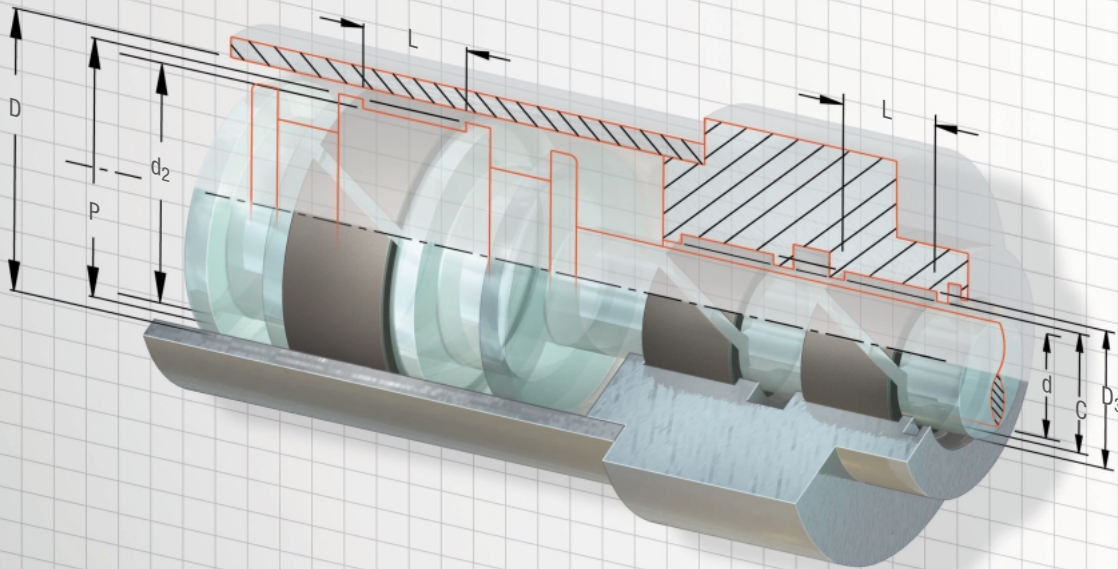
Temperature	-40° F to 250° F (-40° C to 121° C)
Operating Speed, maximum	200 ft/min (1.0 m/sec)
Compressive Strength	50,000 psi (345 N/mm ²)
Coefficient of Friction – dry	0.15

Recommended Surface Finishes – μ Inch (μ m)



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Note: Diagram is for dimensional purposes only and should not be used for designing a rod or piston gland.

Design:

17K Imperial Bearing Band Strip

Bearing Band Cross-section:

$S = 1/8$ inch

Groove width tolerance:

$L + 0.010 / -0.000$ inch

Cross-sectional Tolerance:

$S + 0.000 / - 0.003$ inch

Design Criteria:

Dia. Range inch		Rod Gland Diameter	Rod Bearing Groove Diameter	Piston Diameter	Piston Bearing Groove Diameter
Min.	Max.	*C	D ₃	*P	d ₂
12.500	25.000	$d + 0.030$	$d + 2 (S + 0.003) \begin{matrix} + 0.002 \\ - 0.000 \end{matrix}$	$D - 0.030$	$D - 2 (S + 0.003) \begin{matrix} - 0.000 \\ - 0.002 \end{matrix}$
25.000	40.000	$d + 0.030$	$d + 2 (S + 0.004) \begin{matrix} + 0.002 \\ - 0.000 \end{matrix}$	$D - 0.030$	$D - 2 (S + 0.004) \begin{matrix} - 0.000 \\ - 0.002 \end{matrix}$
> 40.000		$d + 0.030$	$d + 2 (S + 0.005) \begin{matrix} + 0.002 \\ - 0.000 \end{matrix}$	$D - 0.030$	$D - 2 (S + 0.005) \begin{matrix} - 0.000 \\ - 0.002 \end{matrix}$

* Maximum clearance up to 3000 psi (200 bar).

Cutting Instructions: To obtain the proper length bearing strip for rod or piston

Outside Diameter, inch	Gap, inch
> 12" or < 25"	0.187" +/- 0.030"
> 25" or < 40"	0.250" +/- 0.030"
> 40"	0.375" +/- 0.030"

Rod: (rod diameter + cross section of bearing strip) x 3.14 - gap from the chart

Piston: (bore diameter - cross section of bearing strip) x 3.14 + gap from the chart

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