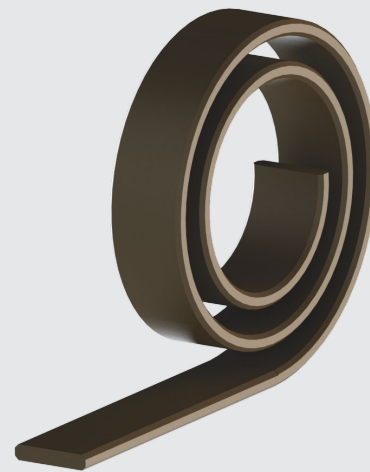




## GUIDE TAPES

# BECA 006/B



### DESCRIPTION

The BECA 006/B profile is a roll of tape that can be cut to a specific length according to the customer's specification. Embossed strips are also offered. The embossing is a set of lubricant pockets, which improves the friction. Several types of cuts can be made.

### ADVANTAGES

Substantial and improved lubrication conditions through the tear structures

Very good friction coefficient; no stick-slip effect

Good wear resistance; very long life

Increased absorption of foreign particles

Easy to fit

Good vibration absorption

### APPLICATIONS

Agriculture

Food & Beverage

Shock absorbers

Maintenance

Dry applications

Injection presses

Pneumatics

Presses

Robotics

Standard cylinders

### MATERIALS

Bronze-filled PTFE

Carbon graphite-filled PTFE

Other grades of materials are available. Please contact our experts.

### TECHNICAL DATA

Temperature	-60°C / +150°C
Speed	15 m/s
Media	Mineral hydraulic oils Biocompatible fluids Water Air Others (contact our experts)
Max. compression resistance	30 to 35 N/mm <sup>2</sup>
Radial loads in dynamic applications	15 N/mm <sup>2</sup> at 25°C 12 N/mm <sup>2</sup> at 80°C 8 N/mm <sup>2</sup> at 120°C

The figures above indicate the maximum values and may not be cumulated. They may be developed, depending on the materials used.

### EXTRUSION GAPS

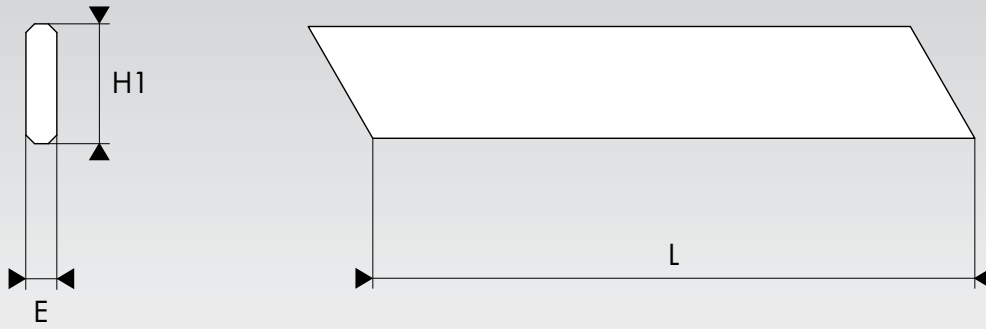
Bore diameter ØD1 Rod diameter Ød1	Min. radial gap F/2 min	Max. radial gap F/2 max
8.0 - 20.0	0.20	0.30
21.0 - 100.0	0.25	0.40
101.0 - 250.0	0.30	0.60
251.0 - 500.0	0.40	0.80
501.0 - 1000.0	0.50	1.10
> 1000.0	0.60	1.20

### SURFACE ROUGHNESS

Roughness	Dynamic surface area	Static surface area	Groove flanks
Ra	0.05 - 0.2 µm	≤1.6 µm	≤3.2 µm
Rz	0.4 - 1.6 µm	≤6.3 µm	≤10.0 µm
Rmax	0.63 - 2.5 µm	≤10.0 µm	≤16.0 µm

### RADIUS

Bore diameter ØD1 Rod diameter Ød1	Radius R1
≤ 250.0	0.20
> 250.0	0.40



○ DETERMINING THE LENGTH OF THE TAPE

**In the piston guide:**  
 $L \text{ (mm)} = \pi \times (\text{ØD1} - E) - Z$

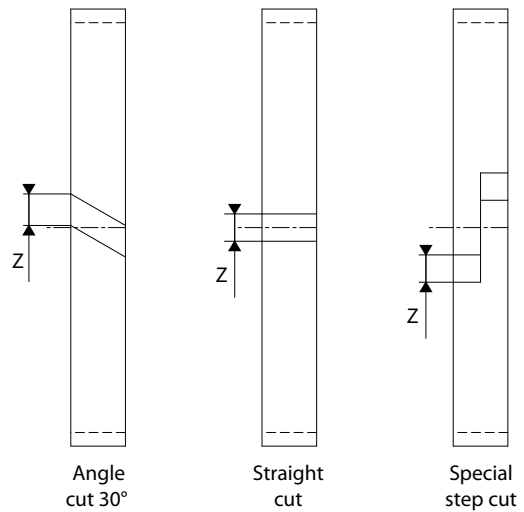
**In the rod guide:**  
 $L \text{ (mm)} = \pi \times (\text{ØD1} - E) - Z$

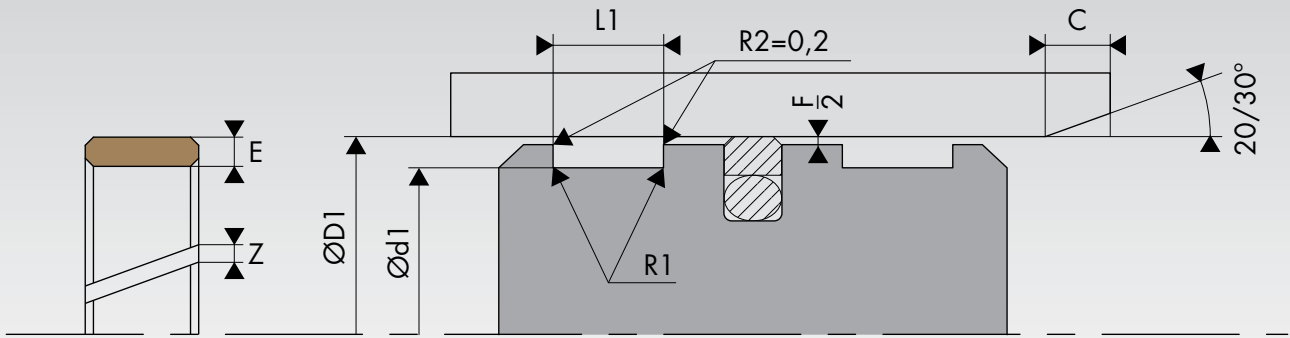
where:  
 L = Length of the guide tape (mm)  
 ØD1 = Bore diameter (mm)  
 Ød1 = Rod diameter (mm)  
 E = Thickness of the tape (mm)  
 Z = Gap after fitting

○ TOLERANCES OF THE TAPE LENGTH

Length of the tape L (mm)	Tolerances of L (mm)
≤ 45.00	± 0.25
> 45.00	± 0.40
> 80.00	± 0.60
> 100.00	± 0.80
> 125.00	± 1.00
> 150.00	± 1.20
> 180.00	± 1.40
> 215.00	± 1.60
> 270.00	± 1.80
> 330.00	± 2.00

○ TYPES OF CUT

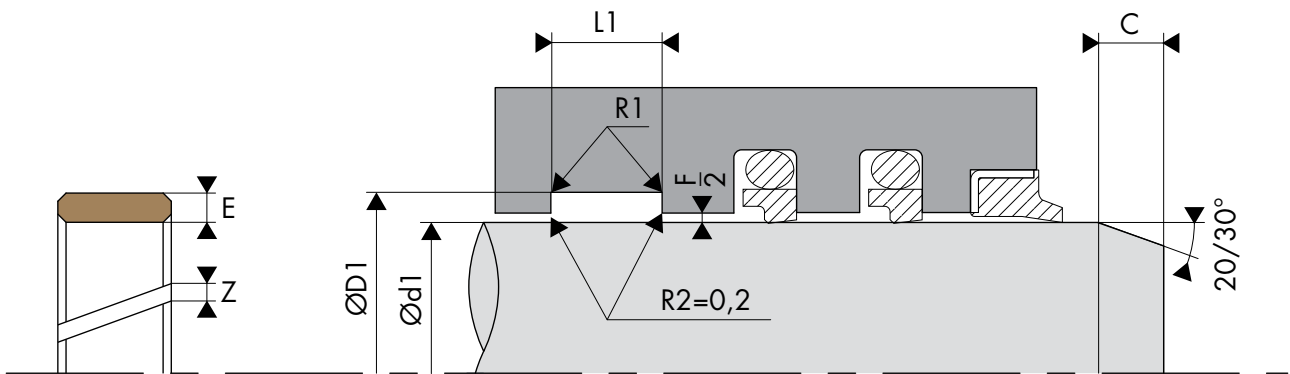




○ INSTALLATION DIMENSIONS - PISTON GUIDE

Piston guide				Thickness of the tape	Gap
ISO 10766	Bore diameter ØD1 H9	Groove diameter Ød1 h8	Groove width L1 0/+0.20	E	Z +/-0.50
*	8.0 - 20.0	D1 - 3.10	2.50	1.55	1.00
*	10.0 - 50.0	D1 - 3.10	4.00	1.55	1.00
*	16.0 - 140.0	D1 - 5.00	5.60	2.50	1.25
*	60.0 - 220.0	D1 - 5.00	9.70	2.50	1.25
*	130.0 - 400.0	D1 - 5.00	15.00	2.50	1.25
*	280.0 - 999.9	D1 - 5.00	25.00	2.50	1.25
*	280.0 - 999.9	D1 - 8.00	25.00	4.00	2.00

Other dimensions are possible, not taking ISO 10766 into consideration. Please contact our experts.



○ INSTALLATION DIMENSIONS - ROD GUIDE

Rod guide				Thickness of the tape	Gap
ISO 10766	Rod diameter Ød1 f8/h9	Groove diameter ØD1 H8	Groove width L1 0/+0.20	E	Z +/-0.50
*	8.0 - 20.0	d1 + 3.10	2.50	1.55	1.00
*	10.0 - 50.0	d1 + 3.10	4.00	1.55	1.00
*	15.0 - 140.0	d1 + 5.00	5.60	2.50	1.25
*	20.0 - 220.0	d1 + 5.00	9.70	2.50	1.25
*	80.0 - 400.0	d1 + 5.00	15.00	2.50	1.25
*	200.0 - 999.9	d1 + 5.00	25.00	2.50	1.25
*	280.0 - 999.9	d1 + 8.00	25.00	4.00	2.00

Other dimensions are possible, not taking ISO 10766 into consideration. Please contact our experts.

## ○ DIMENSIONS

Part number	Groove width L1 0/+0.20	Height of the tape H1 0/-0.10	Thickness of the tape Ep +/-0.05
006.0321.5	3.20	3.00	1.50
006.0421.5	4.20	4.00	1.50
006.0631.5	6.30	6.10	1.50
006.0811.5	8.10	7.90	1.50
006.0971.5	9.70	9.50	1.50
006.1271.5	12.70	12.50	1.50
006.0151.5	15.00	14.80	1.50
006.0161.5	16.00	15.80	1.50
006.0201.5	20.00	19.50	1.50
006.0251.5	25.00	24.50	1.50
006.0301.5	30.00	29.50	1.50
006.0322.0	3.20	3.00	2.00
006.0422.0	4.20	4.00	2.00
006.0632.0	6.30	6.10	2.00
006.0812.0	8.10	7.90	2.00
006.0972.0	9.70	9.50	2.00
006.1272.0	12.70	12.50	2.00
006.0152.0	15.00	14.80	2.00
006.0202.0	20.00	19.50	2.00
006.0252.0	25.00	24.50	2.00
006.0302.0	30.00	29.50	2.00
006.0322.5	3.20	3.00	2.50
006.0422.5	4.20	4.00	2.50
006.0632.5	6.30	6.10	2.50
006.0812.5	8.10	7.90	2.50

Part number	Groove width L1 0/+0.20	Height of the tape H1 0/-0.10	Thickness of the tape Ep +/-0.05
<b>006.0972.5</b>	<b>9.70</b>	<b>9.50</b>	<b>2.50</b>
006.1272.5	12.70	12.50	2.50
<b>006.0152.5</b>	<b>15.00</b>	<b>14.80</b>	<b>2.50</b>
006.0202.5	20.00	19.50	2.50
<b>006.0252.5</b>	<b>25.00</b>	<b>24.50</b>	<b>2.50</b>
006.0302.5	30.00	29.50	2.50
006.0323.0	3.20	3.00	3.00
006.0423.0	4.20	4.00	3.00
006.0633.0	6.30	6.10	3.00
006.0813.0	8.10	7.90	3.00
006.0973.0	9.70	9.50	3.00
006.1273.0	12.70	12.50	3.00
006.0153.0	15.00	14.80	3.00
006.0203.0	20.00	19.50	3.00
006.0253.0	25.00	24.50	3.00
006.0303.0	30.00	29.50	3.00
006.3553.0	35.50	35.00	3.00
006.0634.0	6.30	6.10	4.00
006.0814.0	8.10	7.90	4.00
006.0974.0	9.70	9.50	4.00
006.1274.0	12.70	12.50	4.00
006.0154.0	15.00	14.80	4.00
006.0204.0	20.00	19.50	4.00
<b>006.0254.0</b>	<b>25.00</b>	<b>24.50</b>	<b>4.00</b>
006.0304.0	30.00	29.50	4.00

The figures highlighted in bold correspond to standard ISO 10766. Other intermediate sizes can be provided.