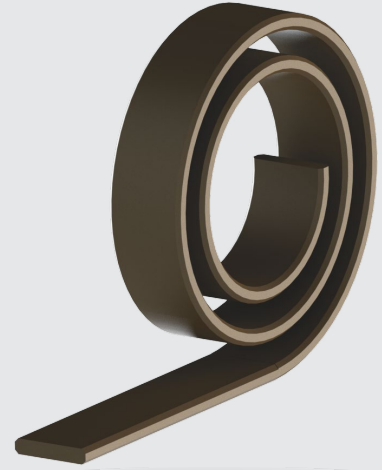




GUIDE TAPES

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 ²
Radial loads in dynamic applications	15 N/mm ² at 25°C 12 N/mm ² at 80°C 8 N/mm ² 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

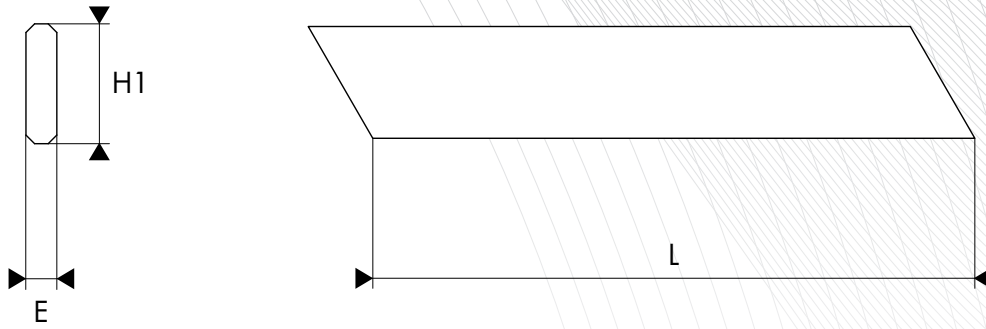
Bore diameter ØD1 Rod diameter Ød1	Min. radial gap F/2 min	Max. radial gap F/2 max
8.0 - 20.0	0.20	0.30
21.0 - 100.0	0.25	0.40
101.0 - 250.0	0.30	0.60
251.0 - 500.0	0.40	0.80
501.0 - 1000.0	0.50	1.10
> 1000.0	0.60	1.20

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:
 $L \text{ (mm)} = \pi \times (\text{ØD1} - E) - Z$

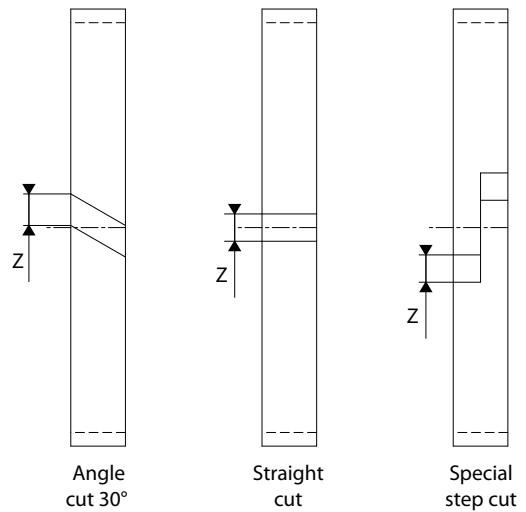
In the rod guide:
 $L \text{ (mm)} = \pi \times (\text{ØD1} - E) - Z$

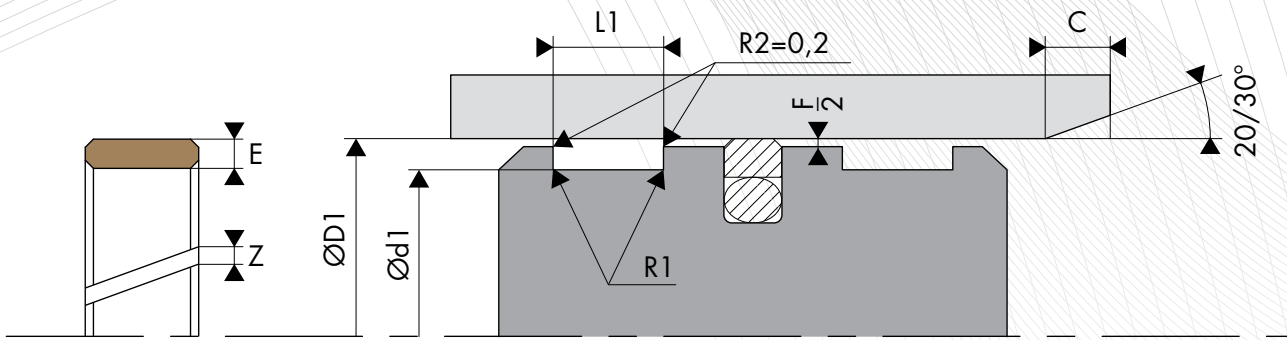
where:
 L = Length of the guide tape (mm)
 ØD1 = Bore diameter (mm)
 Ød1 = Rod diameter (mm)
 E = Thickness of the tape (mm)
 Z = Gap after fitting

○ 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

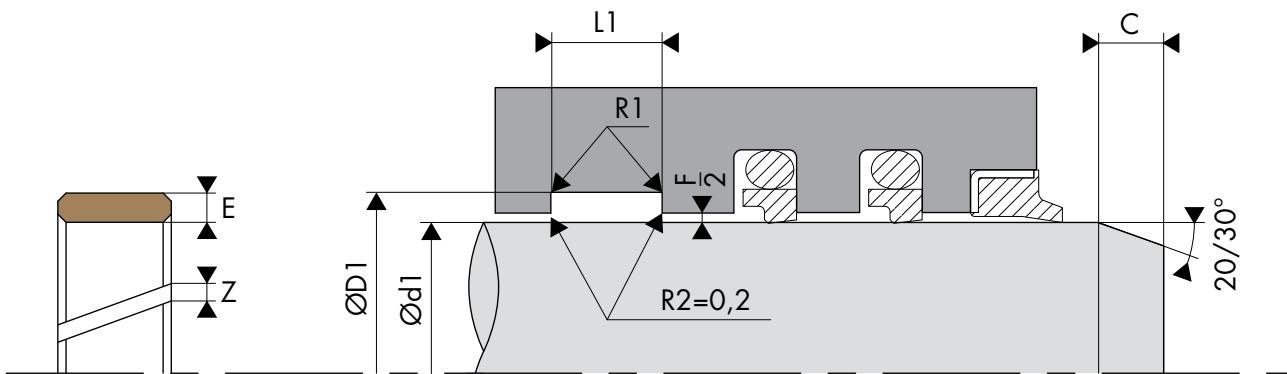




○ INSTALLATION DIMENSIONS - PISTON GUIDE

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
006.0972.5	9.70	9.50	2.50
006.1272.5	12.70	12.50	2.50
006.0152.5	15.00	14.80	2.50
006.0202.5	20.00	19.50	2.50
006.0252.5	25.00	24.50	2.50
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
006.0254.0	25.00	24.50	4.00
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.