

1.1. Dimensional Details of Dampers

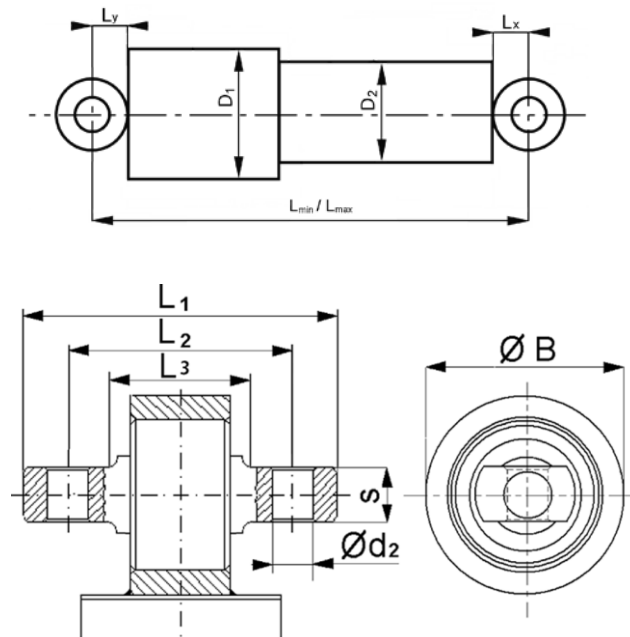
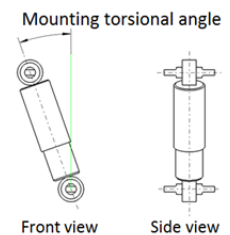


Figure 1. Parametric dimensions of dampers and bushing elements

1.1.1. Primary Damper: 001BO0400001-000

- Lmin : 253 mm L1 : 175 mm øD1 : 82 mm øD2 : 72 mm
- Lmax : 313 mm L2 : 140 mm Max. torsional angle : $\pm 14^\circ$
- Strok : 60 mm L3 : 80 mm Mounting torsional angle : 13°
- Ly : 45,5 mm ød2: 18 mm Max. conical angle : $\pm 12^\circ$
- Lx : 45 mm S : 20 mm Mounting conical angle : 0°



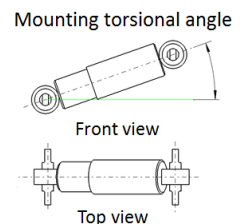
Weight: 9 kg

Primary Damper Characteristics

Speed	Force
0,1 m/s	~2 kN
0,3 m/s	~6 kN

1.1.2. Secondary Lateral Damper: 001BT1700002-000

- Lmin : 358 mm L1 : 184 mm øD1 : 82 mm øD2 : 72 mm
- Lmax : 518 mm L2 : 158 mm Max. torsional angle : $\pm 18^\circ$
- Strok : 160 mm L3 : 80 mm Mounting torsional angle : 8°
- Ly : 54 mm ød2: 17 mm Max. conical angle : $\pm 14^\circ$
- Lx : 45 mm S : 20 mm Mounting conical angle : 0°



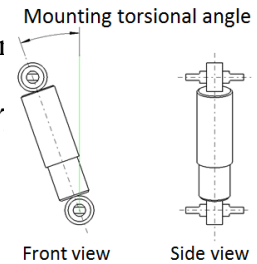
Weight : 10 kg

Secondary Lateral Damper Characteristics

Speed	Force
0,05 m/s	~5 kN
0,1 m/s	~7 kN

1.1.3. Secondary Vertical Damper: 001BT1700001-000

- Lmin : 358 mm L1(øD2 side) : 145mm øD1 : 110 mm øD2 : 97 mm
- Lmax : 513 mm L2(øD2 side) : 116mm Max. torsional angle:
Upper ± 18 ° / Lower ± 1 °
- L1(øD1 side) : 184mm L2(øD1 side) : 158 L3(øD1 side) : 80
- ød2(øD1 side): 17 S(øD1 side) : 20



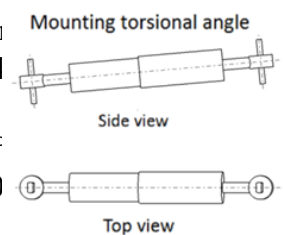
- Strok : 155 mm L3(øD2 side) : 55 Mounting torsional angle : 9,5 °
- Ly : 45 mm ød2(øD2 side): 17 Max. conical angle :
Upper ± 14 ° / Lower ± 17 °
- Lx : 35 mm S(øD2 side) : 16 Mounting conical angle : 0 °

Secondary Vertical Damper Characteristics

Speed	Force
<0,1 m/s	Linear 100 kNs/m
0,1 m/s	~10 kN
0,15 m/s	~13 kN

1.1.4. Yaw Damper: 001BT1900001-000

- Lmin : 742 mm L1 : 184 mm øD1 : 100 mm øD2 : 85 mm
- Lmax : 1022 mm L2 : 130 mm Max. torsional angle : ± 14 °
- Strok : 280 mm L3 : 80 mm Mounting torsional angle :
- Ly : 155 mm ød2: 21 mm Max. conical angle : ± 12 °
- Lx : 155 mm S : 20 mm Mounting conical angle : 0 °



Weight:35 kg

Yaw Damper Characteristics

Speed	Force
0,02 m/s	~10,4 kN
0,05 m/s	~11,6 kN
0,1 m/s	~12,6 kN