

● VP & UD Bushes



Features

Novibra® type VP and Metalastik® type UD consist of two concentric sleeves with rubber securely bonded between them. Designed to accommodate torsional movements and axial and radial loads. The rubber is prestressed to give maximum dynamic strength and durability.

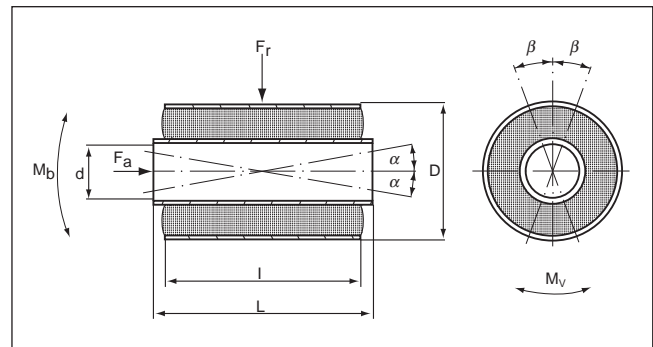
The bonded rubber takes up the full movement. Lubrication or other bearing maintenance is not required. The bush has excellent sound and vibration isolation characteristics, enabling structures fitted with Novibra® type VP and Metalastik® type UD sleeves to be silent and vibration free.

Novibra® type VP and Metalastik® type UD Bushes

For vehicle suspension, pivot arms and all types of mechanical linkage, permits oscillating movement through the deflection of rubber in shear. Suitable to replace roller bearings where small motions are required (up to 20 degrees). Reduces shock loads and noise transmission in structures.

Applications

- Vehicle suspension arms
- Vibratory feeders
- Conveyor tracks
- Mechanical linkages
- Pivot bearings



| Designation Type | Art.No | Dimensions in mm | | | | Torsion | | | Conical | | | Axial load | | Radial load | | Weight (kg) | |
|------------------|--------|------------------|----|----|----|------------------|----------------|---------------------|-----------|-----------------|---------------------|------------|----------------|-------------|----------------|-------------|--|
| | | d | D | L | l | Max Mv Nm/ degr. | Max beta degr. | Stiffness Nm/ degr. | Max Mb Nm | Max alpha degr. | Stiffness Nm/ degr. | Max Fa N | Stiffness N/mm | Max Fr N | Stiffness N/mm | | |
| | | 60° IRH | | | | | | | | | | | | | | | |
| VP 10/2525 | 70169 | 10 | 25 | 25 | 20 | 5.0 | 15 | 0.3 | 6.0 | 8 | 0.7 | 750 | 170 | 2300 | 2000 | 0.04 | |
| VP 10/2540 | 70177 | 10 | 25 | 40 | 35 | 6.0 | 15 | 0.4 | 38.0 | 8 | 4.8 | 1500 | 380 | 3800 | 2350 | 0.06 | |
| VP 15/3530 | 70185 | 15 | 35 | 30 | 25 | 9.0 | 15 | 0.6 | 12.0 | 8 | 1.5 | 1500 | 220 | 3500 | 3000 | 0.08 | |
| VP 15/3550 | 70193 | 15 | 35 | 50 | 45 | 15.0 | 15 | 1.0 | 120.0 | 8 | 15.0 | 2500 | 520 | 6000 | 6500 | 0.12 | |
| VP 20/4540 | 70201 | 20 | 45 | 40 | 35 | 24.0 | 15 | 1.6 | 45.0 | 8 | 5.6 | 2600 | 330 | 6800 | 4000 | 0.16 | |
| VP 20/4575 | 70219 | 20 | 45 | 75 | 70 | 48.0 | 15 | 3.2 | 365.0 | 8 | 46.0 | 5500 | 820 | 13500 | 8000 | 0.32 | |
| VP 25/5045 | 70227 | 25 | 50 | 45 | 40 | 46.0 | 14 | 3.3 | 96.0 | 8 | 12.0 | 3800 | 450 | 9000 | 4500 | 0.21 | |
| VP 25/5085 | 70235 | 25 | 50 | 85 | 80 | 69.0 | 14 | 4.9 | 730.0 | 8 | 92.0 | 7500 | 960 | 18000 | 10500 | 0.42 | |
| VP 30/6055 | 70243 | 30 | 60 | 55 | 45 | 78.0 | 14 | 5.6 | 135.0 | 8 | 17.0 | 5100 | 530 | 12000 | 5000 | 0.34 | |
| VP 35/6560 | 70268 | 35 | 65 | 60 | 50 | 93.0 | 12 | 7.7 | 180.0 | 6 | 23.0 | 6600 | 720 | 16000 | 8500 | 0.43 | |
| VP 40/7065 | 70284 | 40 | 70 | 65 | 55 | 138.0 | 12 | 11.5 | 290.0 | 7 | 41.0 | 8300 | 870 | 20500 | 17000 | 0.56 | |
| VP 45/7570 | 70300 | 45 | 75 | 70 | 60 | 240.0 | 12 | 20.0 | 320.0 | 7 | 45.0 | 10000 | 1100 | 24000 | 20000 | 0.67 | |
| VP 50/8075 | 70326 | 50 | 80 | 75 | 65 | 275.0 | 11 | 25.0 | 700.0 | 7 | 100.0 | 12000 | 1350 | 28500 | 30000 | 0.77 | |

| Type | Art.No | Dimensions in mm | | | | Torsion | | Axial | | Radial | | Weight (kg) |
|----------------------|----------------------|------------------|------|------|------|------------------|---------------|----------------|--------------|----------------|-------------|-------------|
| | | d | D | l | L | Stiffness Nm/rad | ±beta degrees | Stiffness N/mm | Max defl. mm | Stiffness N/mm | Max load kN | |
| UD bushes | 13-1232-60 (60° IRH) | 8 | 20 | 15 | 17 | 10 | 13 | 205 | 1.3 | 2000 | 0.7 | 0.02 |
| | 13-1230-55 (55° IRH) | 10 | 24 | 15 | 18 | 14 | 13 | 180 | 1.7 | 1300 | 0.5 | 0.02 |
| | 13-1782-60 (60° IRH) | 12.7 | 38.2 | 25.4 | 31.8 | 30 | 22 | 220 | 3.3 | 1200 | 1.1 | 0.08 |
| | 13-1657-60 (60° IRH) | 12.7 | 38.2 | 44.5 | 50.8 | 42 | 22 | 330 | 3.3 | 2100 | 2.2 | 0.14 |
| | 13-0785-60 (60° IRH) | 14.3 | 30.2 | 44.5 | 50.8 | 86 | 13 | 640 | 1.9 | 11000 | 6 | 0.11 |
| | 13-0797-60 (60° IRH) | 15.9 | 33.4 | 60.3 | 65 | 140 | 13 | 960 | 2.1 | 18800 | 9.5 | 0.16 |
| | 13-1004-60 (60° IRH) | 15.9 | 47.7 | 44.5 | 50.8 | 74 | 20 | 330 | 4.2 | 2500 | 2.5 | 0.20 |
| 13-1698-60 (60° IRH) | 35 | 71.2 | 41.1 | 45 | 395 | 14 | 550 | 5.1 | 3800 | 4.5 | 0.39 | |