Heavy-Duty Steel Rubber Bushes PHO-P, Pressed-in-Version

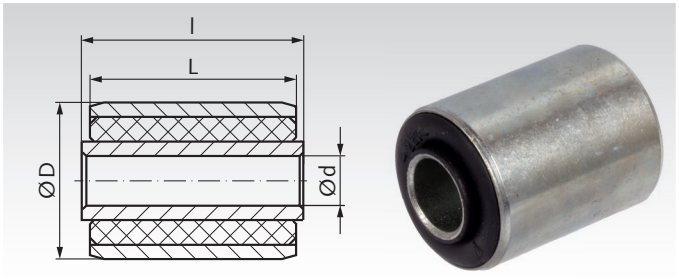
Material: Metal Parts: Steel, zinc-plated.
Elastomer: Natural rubber,
hardness 55-75° Shore A, depending on the size.

Version: With hard rubber, pressed in between the inner bush and the outer bush. Suitable for high radial load, medium axial load and low torsion.

Fit: Up to external diameter 30mm: mounting hole H11 / H12. From external diameter 34mm: mounting hole H13.

Temperature resistant up to 80°C.

Ordering Details: e.g.: Product No. 685 102 230P, Heavy Duty Bush PHO-P, 10 mm



Product No.	Internal Ø d mm	External Ø D mm	Length of Internal Bush l mm	Length of External Bush L mm	Weight g
685 102 230P	$10^{+0,15}$	$22^{+0,1}$	$33^{\pm0,1}$	$30^{\pm0,3}$	47
685 102 520P	$10^{+0,15}$	$25^{+0,1}$	$24^{\pm0,1}$	$20^{\pm0,3}$	44
685 122 435P	$12^{+0,15}$	$24^{+0,1}$	$38^{\pm0,1}$	$35^{\pm0,3}$	60
685 122 525P	$12^{+0,15}$	$25^{+0,1}$	$28^{\pm0,1}$	$25^{\pm0,3}$	45
685 122 618P	$12^{+0,15}$	$26^{+0,1}$	$24^{\pm0,1}$	$18^{\pm0,3}$	37
685 122 632P	$12^{+0,15}$	$26^{+0,1}$	$36^{\pm0,1}$	$32^{\pm0,3}$	56
685 133 040P	$13^{+0,15}$	$30^{+0,1}$	$40^{\pm0,1}$	$40^{\pm0,3}$	79
685 143 067P	$14^{+0,15}$	$30^{+0,1}$	$76^{\pm0,1}$	$67^{\pm0,3}$	135
685 163 216P	$16^{+0,2}$	$32^{+0,15}$	$17^{\pm0,1}$	$16^{\pm0,3}$	38
685 163 225P	$16^{+0,2}$	$32^{+0,15}$	$28^{\pm0,1}$	$25^{\pm0,3}$	72
685 163 250P	$16^{+0,2}$	$32^{+0,15}$	$54^{\pm0,1}$	$50^{\pm0,3}$	120
685 164 032P	$16^{+0,2}$	$40^{+0,15}$	$38^{\pm0,1}$	$32^{\pm0,3}$	120
685 183 432P	$18^{+0,3}$	$34^{+0,15}$	$36^{\pm0,1}$	$32^{\pm0,3}$	94
685 204 555P	$20^{+0,3}$	$45^{+0,15}$	$62,5^{\pm0,1}$	$55^{\pm0,3}$	255
685 204 559P	$20^{+0,3}$	$45^{+0,15}$	$62,5^{\pm0,1}$	$59,5^{\pm0,3}$	258
685 244 290P	$24^{+0,3}$	$42^{+0,15}$	$96^{\pm0,1}$	$90^{\pm0,3}$	645
685 255 065P	$25^{+0,3}$	$50^{+0,15}$	$67,5^{\pm0,1}$	$65,5^{\pm0,3}$	370
685 255 589P	$25^{+0,3}$	$55^{+0,15}$	$93,5^{\pm0,1}$	$89,5^{\pm0,3}$	677
685 264 040P	$26^{+0,3}$	$40^{+0,15}$	$45^{\pm0,1}$	$40^{\pm0,3}$	220
685 305 589P	$30^{+0,4}$	$55^{+0,15}$	$94^{\pm0,1}$	$89,5^{\pm0,3}$	622
685 325 650P	$32^{+0,4}$	$56^{+0,15}$	$55^{\pm0,1}$	$50^{\pm0,3}$	340
685 407 557P	$40^{+0,4}$	$75^{+0,20}$	$70^{\pm0,1}$	$57^{\pm0,3}$	759
685 507 060P	$50^{+0,4}$	$70^{+0,15}$	$60^{\pm0,1}$	$60^{\pm0,3}$	494
685 508 095P	$50^{+0,4}$	$80^{+0,20}$	$100^{\pm0,1}$	$95^{\pm0,3}$	1020

General

These economically rubber-metal, heavy-duty bushes are relative stiff and allow high radial load. The axial load and torsional deformation must not be too high, because the pressed-in rubber could move between the metal bushes. Minimal gimbal offset (tilting) of the axis of the inner tube in relation to the outer tube, or vice versa, is possible. Depending on the strength, hardness, and length of the rubber, the rubber parts are relatively stiff.

Can be used in machine building or car manufacture as elastic joints which at permanent operation have to withstand higher radial forces. The bushes are completely maintenance free, silent and vibration isolating along with a high fatigue strength. Spring element and joint are combined in one single element.

The grade of rubber used is not oil proof. An operating temperature of max. 80° must not be exceeded, otherwise the service life is shortened. The bushes are usually fixed to the outer tube by pressfit.The inner tube can, e.g., be fixed by applying pressure on the front face. In this case the bolt running through the bore of the bush presses the counter bearing against the front face of the inner tube.