

ZAŠTITNI ELEMENTI

1. PRAHOBRANI

Namena

Prahobrani služe za zaštitu vitalnih delova mašinskog sklopa od prljanja, prskanja vodom, uticaja atmosferilija, masti i sl.

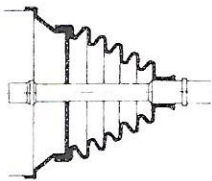
Oblici i priključni delovi

Sastoje se iz pokretnog dela u obliku rebara i dva priključna dela za pričvršćivanje (Sl. 1). Većinom se konstruišu za specijalne slučajevne primene, zbog čega se prahobrani kao i njihovi priključni delovi izvede u najrazličitijim geometrijskim oblicima. Priključni delovi mogu se izvesti u obliku prstenastih zadebljanja, raznih prirubnica, cilindričnih mufova (Sl. 2), dok pokretni delovi mogu biti izvedeni sa jednim ili više rebara.

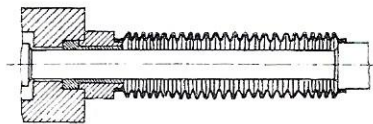
Ugradnja

Prahobrani se moraju dobro pričvrstiti na mašinski deo koji štite, pri čemu se šelna za pričvršćivanje mora ravnati prema obliku priključnog dela. Kod cevastih priključnih delova s oblikovanim zadebljanjem treba unutrašnji prečnik da bude 1-2 mm manji od prečnika dela uređaja na koji se ugrađuje, kako bi se ostvario potreban prednapon ugradnje (čvrsto naleganje).

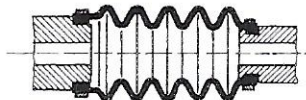
Primeri ugradnje



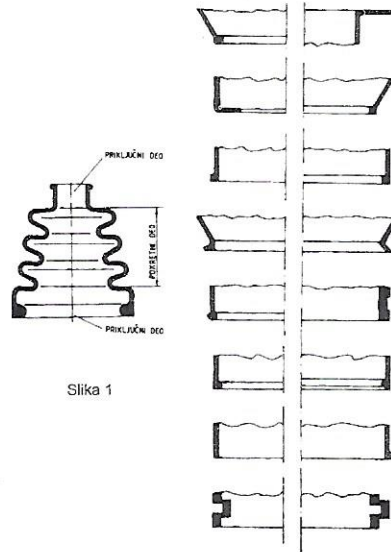
Zaštita mašinskog elementa pri radialnom kretanju



Zaštita mašinskog elementa pri aksijalnom kretanju



Elastična veza dva mašinska elementa



Slika 1

Slika 2

Materijali

Prema nameni, prahobrane i ostale zaštitne elemente izrađujemo iz gumenih materijala na bazi: prirodnog, butadien-akrilnirtilnog, butadien-stirolnog, hloroprenskog, etilen-propilen-dienskog, silikonskog kaučuka, kao i termoplasta.

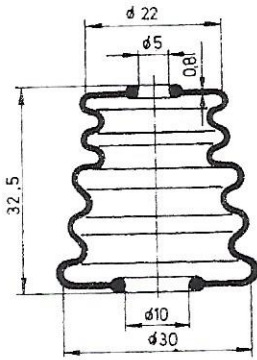
Tabela 1.

Bazni polimer	Interna oznaka	Tvrdoća u °ShA ± 5	Tempeeraturni interval primene °C		Primena
NBR	50 NBR 10.1 60 NBR 14.1 70 NBR 14.1	50 60 70	-30	+100	Ulja i masti mineralne osnove Alifatični ugljovodoniči Tečnosti za transmisiju mineralne osnove Biljne masti i ulja Vazduh Voda
	60 NBR 11.2 70 NBR 11.2 80 NBR 11.2	60 70 80	-40 (-50)*	+80	Vazduh i zauljen vazduh Masti za podmazivanje na bazi litijuma Voda
	70 NBR 11.21	70	-50	+80	Vazduh i zauljen vazduh masti za podmazivanje na bazi silicijuma Voda
CR	40 CR 07.1 50 CR 09.1 60 CR 10.1 70 CR 11.1	40 50 60 70	-40	+100	Atmosferski uticaji, svetlost, ozon Voda i morska voda Freoni 12 i 22
NR	40 NR 14.1 50 NR 14.1 60 NR 14.1	40 50 60	-50	+80	Tečnosti za kočenje na bazi glikola Razblažene kiseline i baze Alkoholi i voda
SBR	60 SBR 14.2 70 SBR 14.2	60 70	-40	+120	Tečnost za kočenje, smeša alkohola i vode Alkoholi svih vrsta
EPDM	50 EPDM 10.1	50	-40	+100	Tečnosti za kočnice Silikonska ulja i masti Kiseline i baze Vazduh sa uticajem ozona Voda i vodena para
	50 EPDM 12.1	50	-40	+130	Fosforni estri Topla voda i vodena para Kiseline i baze Ketoni Silikonska ulja Vazduh sa uticajem ozona
MVQ	70 MVQ 05.1	70	-60	+200 (+230)*	Topao vazduh i inertni gasovi Ozon UV zraci Mineralna ulja sa visokom anilinskom tačkom

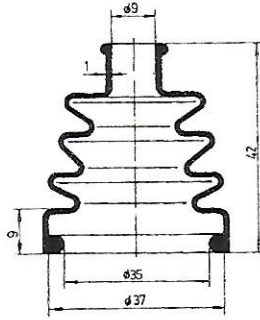
*Mogućnost kratkotrajne primene

Izbor materijala može izvršiti konstruktor, ili proizvođač sa dostavljenim uslovima primene i tehničkim karakteristikama.

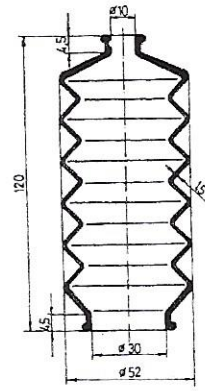
Pregled prahobrana



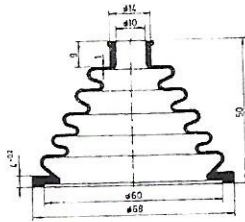
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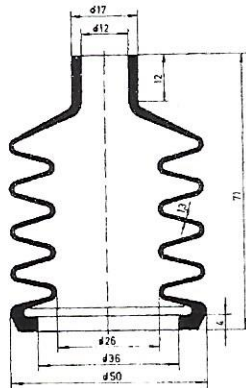
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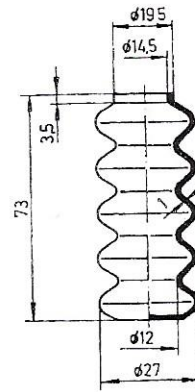
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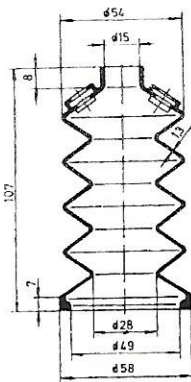
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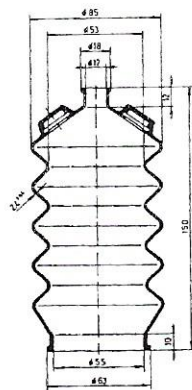
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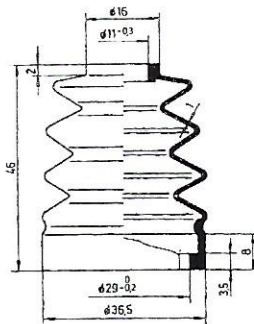
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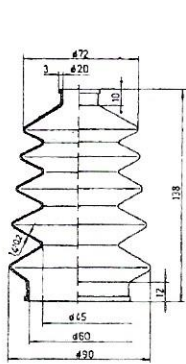
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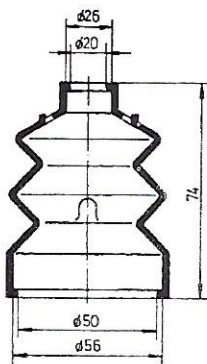
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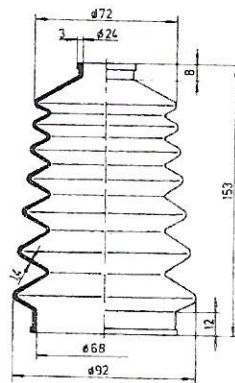
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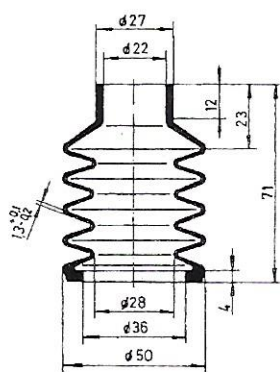
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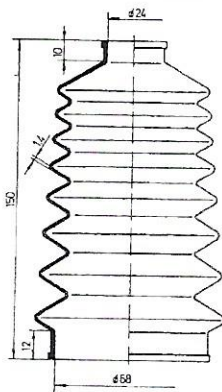
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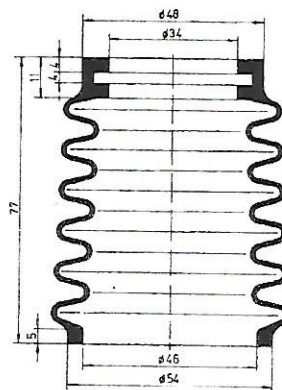
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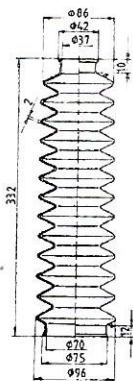
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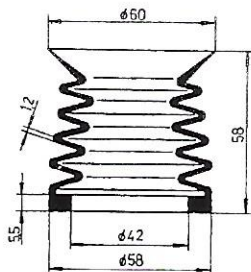
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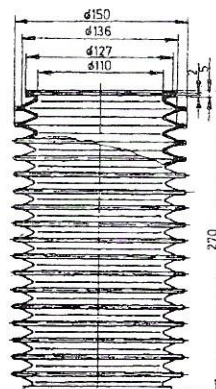
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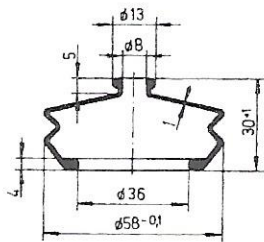
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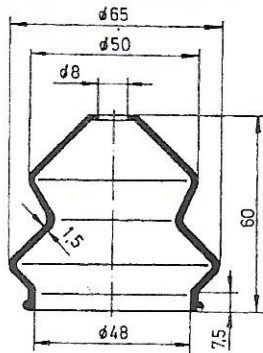
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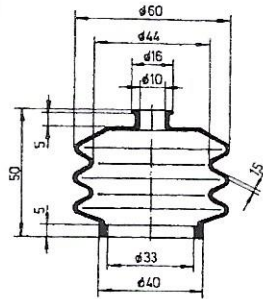
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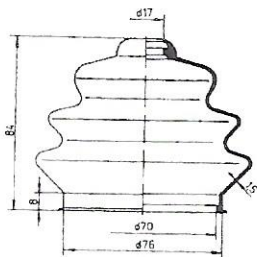
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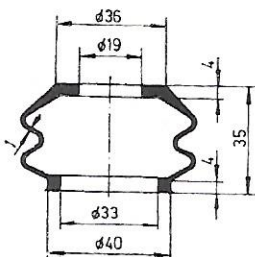
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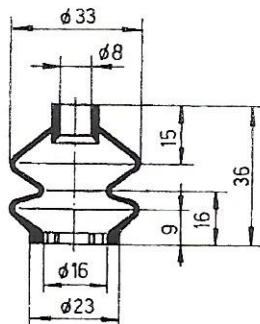
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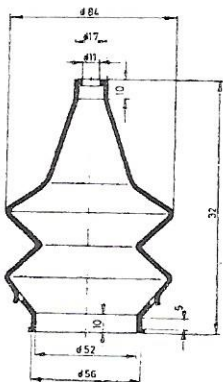
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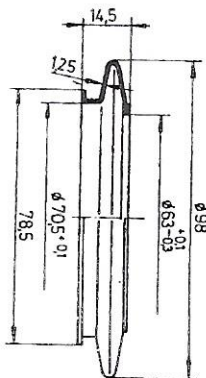
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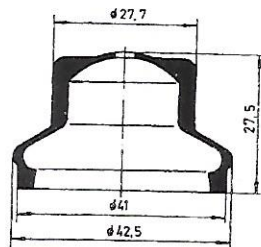
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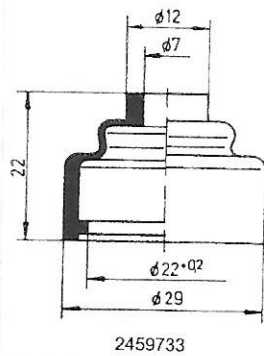
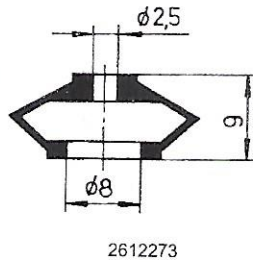
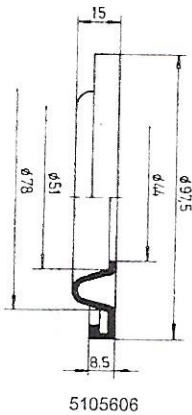
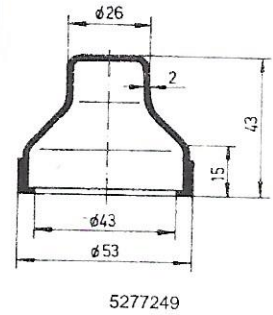
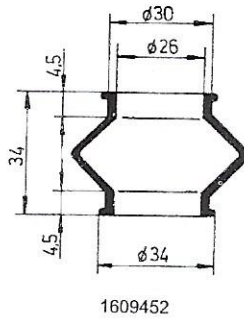
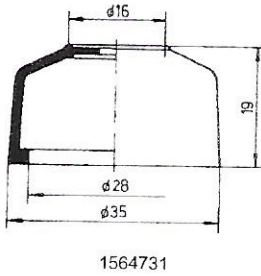
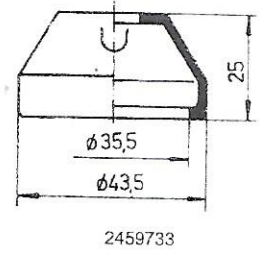
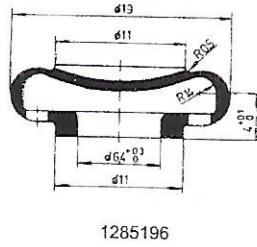
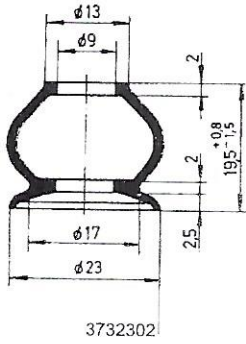
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