

Here are specs for sourcing parts for detensioner “seal kit” (with US & metric numbers) corresponding to original Alfa p.n. 60777065; please note that first measurement for metric o-rings is core thickness followed by ID

Hollow stud: 2 o-rings, Buna-N 70 (larger for inner side, smaller for outer side)



-012 3/8" x 1/2" x 1/16" (9.25mm x 12.7mm x 1.78mm) [stud: 9mm groove, 12 mm shoulder] **[new oem measures ca. 9.3mm x 12.94mm x 1.82mm]**
-M1.8x9.5 (metric size) typical cost: \$.33 each - theoringstore.com

-011 5/16" x 7/16" x 1/16" (7.65mm x 11.11mm x 1.78mm) [stud: 8mm groove; 11mm shoulder] **[new oem measures ca. 7.77mm x 11.39mm x 1.81mm]**
-M1.8x7.5 (or M1.8x8.0) (metric size) typical cost: \$.34 each - theoringstore.com



Backing plate: 2 o-rings, Viton 75 / Buna-N 70 (large brown skinny one for base of oil feed stud and smaller fatter one for oil return)



-017 (brown viton 75) 11/16" x 13/16" x 1/16" (17.17mm x 20.62mm x 1.78mm) **[oem measures ca. 17mm x 20.66mm x 1.83]**
typical cost: \$.32 each - theoringstore.com

-M1.8x17 (metric size) typical cost: \$.10 each - oringsusa.com

-110 3/8" x 9/16" x 3/32" (9.19mm x 14.28mm x 2.62mm) **[oem measures ca. 9mm x 14.5mm x 2.67mm]**

-M2.62x9.13 (metric size) typical cost: \$1.52 - theoringstore.com

N.b.: *not all detensioners seem to accommodate the brown viton o-ring at the base of the hollow stud*

Plunger: 1 large o-ring (Buna-N 70)

-218 1-1/4" x 1-1/2" x 1/8" (31.34 x 38.4mm x 3.53mm *[new oem measures 31.02mm x 38.02mm x 3.5mm]*)

-M3.5x31 (metric size) *typical cost: \$.42 - theoringstore.com*



Actuator shaft of plunger: 1 u-cup seal captive inside housing and one square seal outside housing *within* dust boot). (The reason the “pocket” inside the casting is deeper than the u-cup seal is so the seal can be inserted sideways and then turned into place)



-K22-008 NBR (metric) 8 X 14 X 4
typical cost: \$.85 - seal direct.com

[oem measures ca. 8.42mm x 14.30mm x 3.89mm]

OR: MSUN-008X014X4.0B 8 x 14 x 4
(metric)

(available Martin Fluid Power \$2.90)



-square seal** (fits into metal u-cup) ca. 8mm ID x 14mm OD x 3-4mm thick

[oem measures ca. 7.67mm x 13.65mm x 3.25mm]

** I could not find an exact off-the -shelf square seal but this one is not problematic in the least; a fat o-ring can be substituted as long as it fits into the metal u-cup without binding heavily on the plunger actuator shaft; a 5/16" ID x 9/16" OD x 1/8" u-cup (pn 6226-44 theoringstore.com) will also work fine.

Dust cover bellows for plunger shaft: 4-ribs, oem measuring ca.

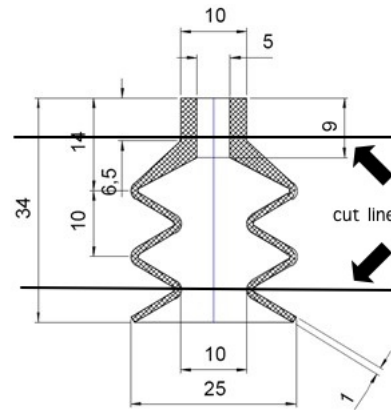
length max: 21 mm
length min: 10 mm
id min: 17 mm
od max: 24 mm
endhole 1: 7.57 mm
endhole 2: 10.50mm



So far I have not found a source for these dust bellows—not a terribly critical part. The oem bellows are not to prevent oil leakage, they are to protect the shaft from dirt and there is a little hole to release any accumulated oil.

3/14/2005 Solution found: VacMotion MB25-NBR “multi-bellows suction cup” can be adapted, just cut off one rib and remove the shank (per diagram on right) with x-acto knife while spinning it on a drill. Use a 1/4” allen head cap as your lathe. \$4.00 plus shipping.

<http://www.vacmotionorders.com/mbb6.html>



cocked position

uncocked position



Detensioner bearing shaft seals, Buna-N 70 (2 o-rings of equal size— *not all cars use these!*)

-015 9/16” x 11/16” x 1/16” (14.28mm x 17.46mm x 1.78mm)
[oem measures ca. 14.29mm x 17.87mm x 1.79mm]

-M1.8x14 (metric size) (another reliable source calls for -M1.5x14) typical cost: \$.38 each - theoringstore.com



Miscellaneous

2 metal u-cups (*these can be reused*)



2 circlips (reuse or buy at hardware store)



body gasket: .75mm thick (cut new one with x-acto knife using original as model, or reuse with or without silicone sealer)—the originals hold up pretty well and can often be reused.



Some US sources for o-rings (as of 4/16/2011) (n.b. pay attention to minimum order requirements, some have none, some sell only in packages of multiples, etc.)

mfpseals.com (\$10 minimum order)

orings-online.net

oringsusa.com

allorings.com

theoringstore.com [no minimum, \$5 shipping]

seals-direct.com (Thailand—**for rod u-cup**)

oringswest.com

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