

Radial & Front sealing rings TENUTE TVT series

TVT series seals come as an alternative to the use of different types of combined seals.

Indeed, often it happens, above all in Steel or Mechanic applications, to have underdimensioned or necessarily reduced metallic parts due to different reasons.

In these cases, the normal solutions such as labyrinths, used to avoid huge shavings pollution, cannot be used. Therefore there is the need of alternative solutions that TENUTE srl can solve in some applications with the use of the TVT model.

The series is subdivided into two different versions.

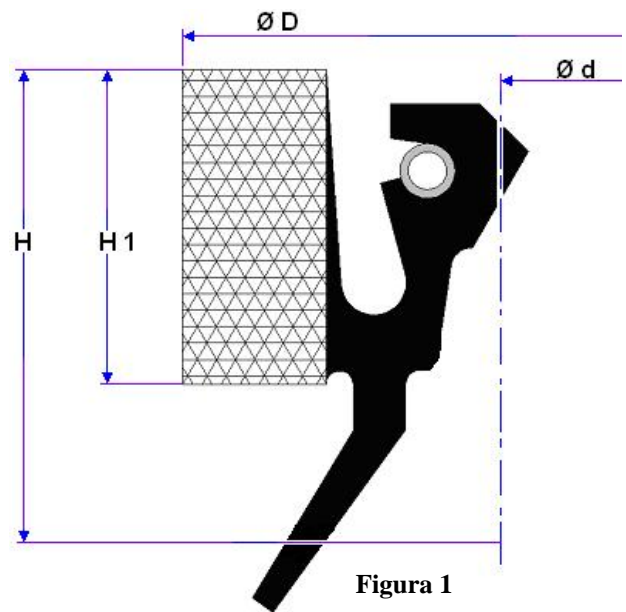


Figura 1

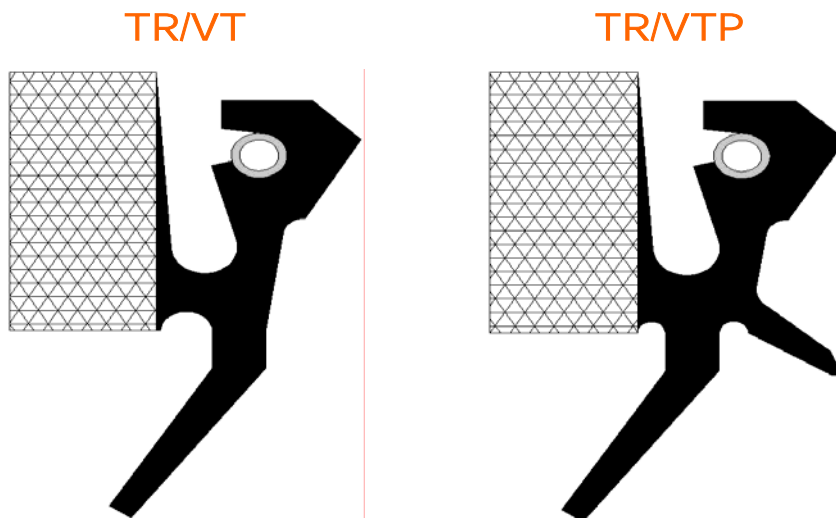


Figure 2

The first, as shown in figure one & two, is produced with a high resistance rubberised fabric back. Such component allows a higher ring stiffness compared to normal seals. For this type we suggest the seal gluing in the housing.

The second version is manufactured with vulcanised metallic insert inside the seal back which, stiffening the structure, allows to find an alternative to gluing in the housing. See figure three.

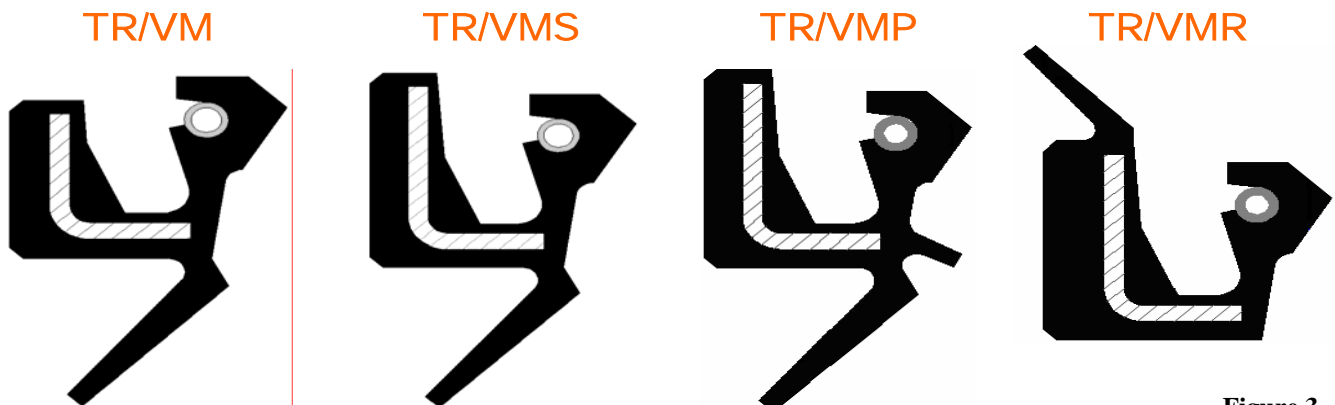


Figure 3

The various types then differ in the presence/absence of a further radial dust lip in order to prevent impurities from coming in.

In the standard production of TVT range, the seal is with our NBR compound with PTFE powders additive. Operating temperature and speed have not to exceed 100°C and 15m/s respectively. However, also other material combinations exist and are operational, much more suitable to withstand abrasion and temperature.

SURFACES FINISHING

A roughness of Ra 0.2/0.6 µm is recommended for the shaft, in normal applications, while in case of high speeds, a finishing of 0.2/0.4 µm is recommended.

Furthermore, in case of water, it is advisable to perform chromium plating of the shaft/sealing lip contact surfaces, in order to avoid a rapid wear due to iron oxides that are removed by the sealing lip. A finish turning is enough for housings.

We suggest to ask our Technical Department for more information, for the assembling and the applications.

The following is the list of sizes currently available.

$\varnothing d$	$\varnothing D$	H	H1	PROFILES
180	210	14,5	20	TR/VM
180	210	16	20	TR/VTP
205	230	14,5	20	TR/VM
210	240	14,3	21	TR/VT
210	240	14,3	21	TR/VTP
210	240	16	23	TR/VTP
210	240	16	20	TR/VM
210	240	16	23	TR/VT
230	260	15	21	TR/VMR
230	260	15	20	TR/VMP
240	270	16	23	TR/VTP
270	310	20	29	TR/VTP
270	310	20	29	TR/VMP
280	320	20	30	TR/VMP
290	330	17	26	TR/VMP
300	325	18	18	TR/VMS
300	340	15	25	TR/VMR
300	340	20	30	TR/VTP
340	380	20	30	TR/VMP
340	380	20	29	TR/VTP
340	384	17	26	TR/VMP
360	400	20	30	TR/VTP
370	414	17	25	TR/VMR
370	414	20	39	TR/VTP
380	420	20	30	TR/VMP
420	460	20	30	TR/VMP
420	460	20	30	TR/VTP
560	610	20	30	TR/VMP
620	670	25	34	TR/VT