



ROTARY SHAFT OIL SEALS AND CUSTOM MADE ARTICLES IN ELASTOMER AND RUBBER-TO-METAL

Rev. 00 05-05-2017

FRONT SEALS

The profiles manufactured by FP and ATS presented in this application board, are front seals for rotating shafts, and bearings. The front seals are designed to rotate with the shaft and ensure axial sealing by the contact of the lip with the backup surface perpendicular to the shaft.

They are very effective solutions for protection against dust, dirt, water and other elements, and are very useful in various applications.

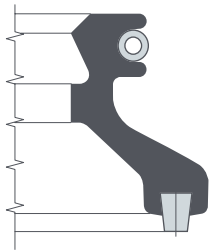
The front seals are largely made of elastomer without any metallic insert and are mainly known as V-Rings differentiated by various

shortcut names that define their profile. Some of them, on customer's explicit request, can be produced with the addition of a metallic band installed with clips.

There are, however, front seals with more technical profiles, for which FP and ATS propose various models for the most standard and special applications.

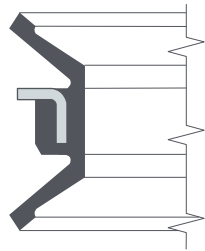
Among the various applications in which the front seals are used, we want to highlight here below those ones produced by FP and ATS for use in High-Speed Blocks for the metal wire extrusion and cable manufacturing.

SEALS FOR HIGH-SPEED BLOCKS



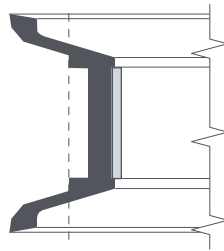
TOP W-GUARD

Special front seal with a PTFE ring to reduce friction and enhance the efficiency. Mostly used as first barrier against cooling water.



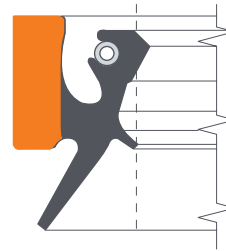
VL2M

Axial front seal with 2 reinforced lips and a metallic insert. Utilized for high speed peripheral applications.



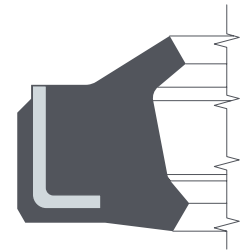
NECK SEAL

Double front seal for wire mills. Studied for high speeds, thanks to the special compounds used, and the metal band.



TGU-VGUARD

Special profile that combines the characteristics of a rotary shaft seal and a front seal.



TF

Static front seal for protection from air and water. Reinforced with a metal insert for use up to 15 Bar pressure.

"High Speed Blocks" are components of the equipment used in the production of metallic rods and wires in the primary metals industry. They are engineered to have a high productive output and

work at great speeds. Various types of front seals are used in these equipment, depending on the type of "wire" to be produced, and the ferrous or non-ferrous material used.

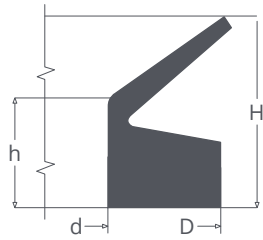
For further information on all our seals, please check our web page or contact our offices.

F.Ili Paris S.r.l. a socio unico

fpparis.com

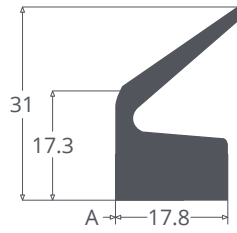
via Marconi 142/144, 24060 Castelli Calepio (BG) ITALY
☎ +39 035 442 5511 | 📠 +39 035 442 5478 | ✉ info@fpparis.com

V-RINGS TYPES



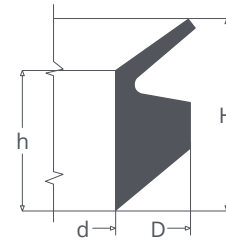
VA

V-Ring with standard cross section proportional to the diameter of the shaft. On demand, fastening metal band with clips.



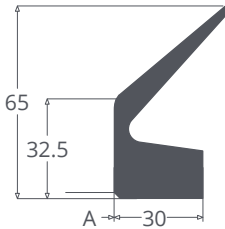
VAX

V-Ring with longer lip and Cross section with fixed dimensions. Suggested for heavy duty applications. On demand, fastening metal band with clips.



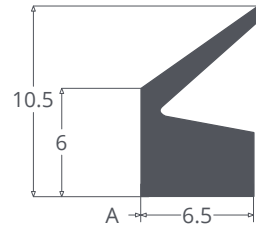
VS

V-Ring with a wider cross section for a better hold, and with proportional dimensions to the diameter of the shaft.



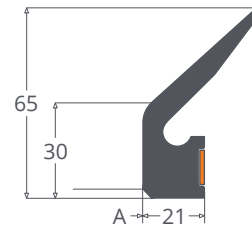
VE

V-Ring with special lip profile for higher elasticity. Cross section with fixed dimensions.



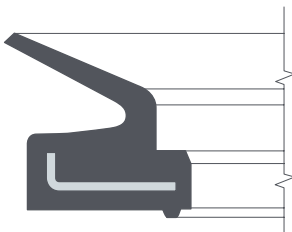
VL

V-Ring with narrow axial cross section suitable for compact arrangements. Cross section with fixed dimensions.



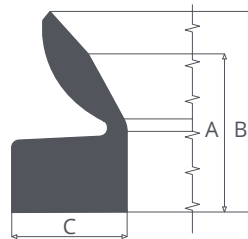
VRME

V-Ring with a built-in housing for a fastening metal band. Cross section with fixed dimensions.



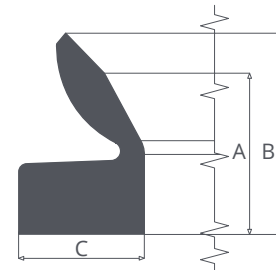
VAM

V-Ring with a reinforcing metal insert at the bottom. Suggested for applications in the primary metals industry. Cross section with fixed sizes.



VEAX

Special version of the VAX type with a stronger and defined sealing lip, with higher mechanical properties.



VEA

Special version of the VA type with a stronger and defined sealing lip, with higher mechanical properties.