

Product Information

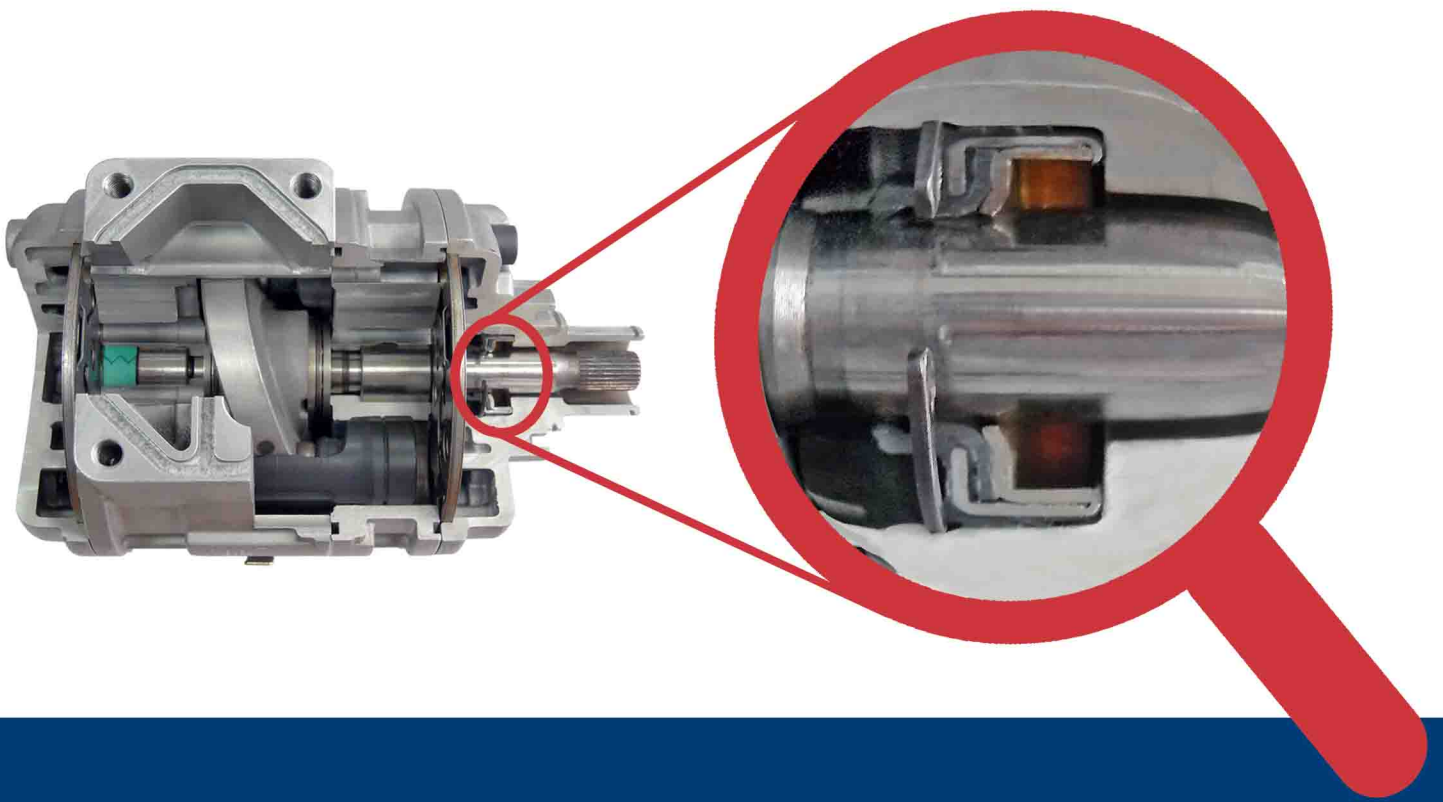


ISO-9001/14001
ISO/TS-16949
OHSAS-18001

NAK Sealing Solutions for Automotive Air Conditioning Compressor



World Class Brand World Class Manufacturing



NAK automotive air conditioning compressor seals are designed to meet or exceed the original equipment requirements of all major compressors in use today.

The compressor is the heart of automotive air conditioning system which is designed to make the driver and passengers feel more comfortable during muggy, hot, or stuffy trips in a vehicle. Due to the fact some refrigerants were leading to ozone depletion in the atmospheric layer, people found new refrigerants intending to reduce and eliminate the contaminants with an impact on greenhouse effect. The new refrigerants also accompanied the use of corrosive lubrication and higher operating temperature conditions.

NAK always researches and develops better resistant quality material solutions for air conditioning compressor seals.



Application

Size : shaft ϕ 11~ ϕ 16 ; bore ϕ 23~ ϕ 30

Temperature : - 40°C~150°C

Application : automotive air conditioning compressor

Media : refrigerants and refrigeration lubricants

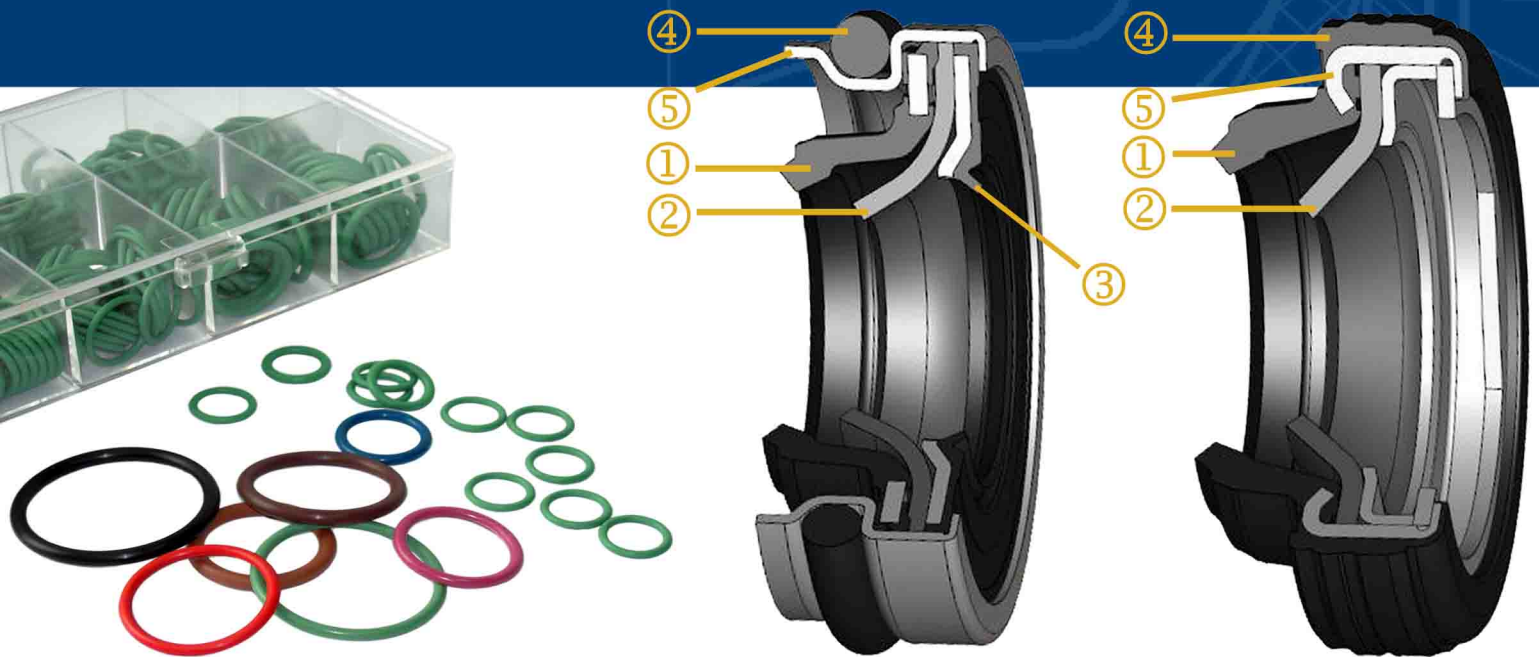
Pressure : 1~6 bar

Speed : 800~10,000 rpm, rotary



Technical Information

NAK automotive air conditioning compressor seals are composed of a metal case with adhesion of a primary 1st lip made of HNBR and a primary 2nd lip made of PTFE. Most of these seals are incorporated with an O-ring or bonded rubber O.D for static sealing and proper installation.



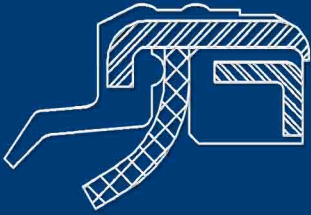
- ① **Primary 1st lip** : to prevent refrigerants leakage when shaft rotating. HNBR has effective resistance against refrigerants and refrigeration lubricants and also has excellent temperature resistance range from -40°C to 150°C.
- ② **Primary 2nd lip** : to seal refrigerants inside the compressor and to prevent primary 1st lip wear when rotating in high speed. This high performance lip is made of PTFE with good wear resistance and high temperature resistance.
- ③ **Dust lip** : to prevent dust and mud from invading the compressor.
- ④ **O-ring / bonded rubber O.D** : made of HNBR for static sealing to prevent leakage of refrigerants inside the compressor .
- ⑤ **Case** : usually in SPCC metals which are phosphated, coated with adhesion of rubber or zinc plated to avoid case corroding when the seal contacts with refrigerants and mist.

NAK offers various air conditioning compressor seals as follows and more technical support is available upon request. Please contact with us for more information.

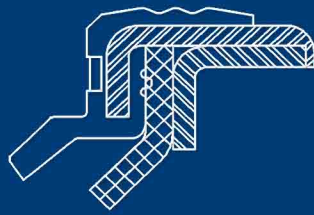


Types

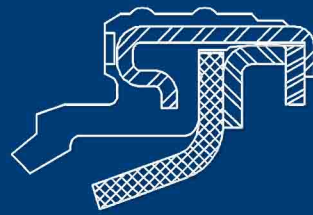
VGA1



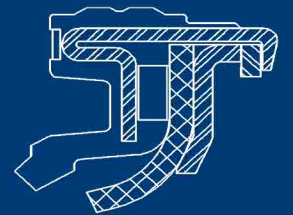
VGA2



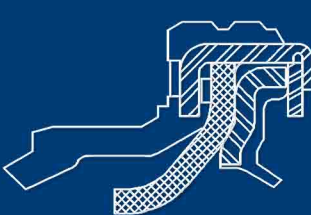
VGA3



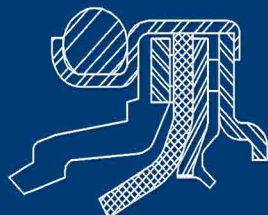
VGA4



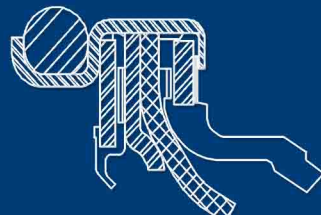
VGA5



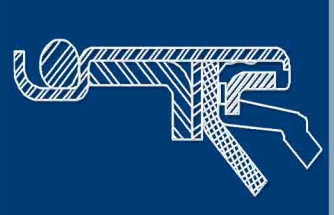
VGA6



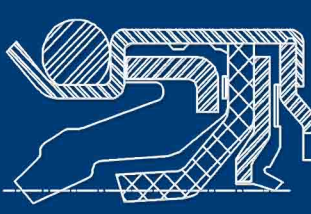
VGA7



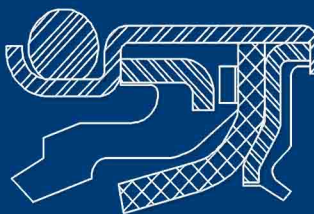
VGA8



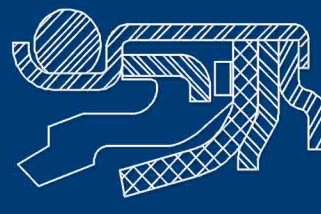
VGA9



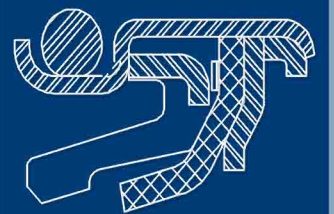
VGA10



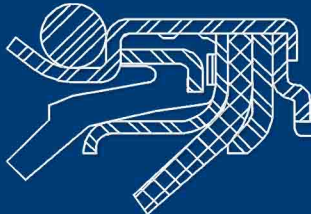
VGA11



VGA12



VGA13



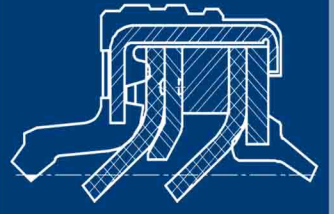
VGA14



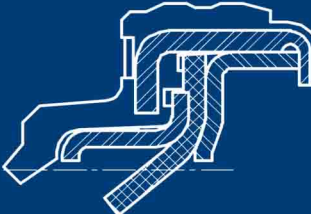
VGA15



VGA16



VGA17





Subsidiary map

Existing subsidiaries worldwide



Factory



Service office & warehouse



Taiwan (NAK Headquarters)

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 - 2.4 are not used in accordance with the printed user instruction materials; or
 - 2.5 are damaged due to natural deterioration, decomposition or transformation of chemical structure.
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