Benefits

- No stick-slip even with low sliding speeds
- Extremely low breakaway forces even after prolonged downtimes
- Low wear and long service life
- Good sealing performance due to several sequentially located sealing edges
- High operating reliability thanks to multicomponent sealing kit
- Simple design of installation spaces
- Very good chemical and thermal resistance
- Extensive product line tailored to field application requirements
- No special maintenance requirements

V-packings and V-packing kits are primarily used for sealing rods subjected to axial motion. A packing kit consists of the number of V-packings needed for the particular application requirements as well as a base and end ring. In case there is a risk of gap extrusion under high pressure loads, the base and end rings may also be made of metallic materials. To achieve pre-defined sealing forces and adjustment of the packing in case of thermal expansion, installation of an axially acting spring (compression spring or cup spring) is necessary.

V-Packings | Kits

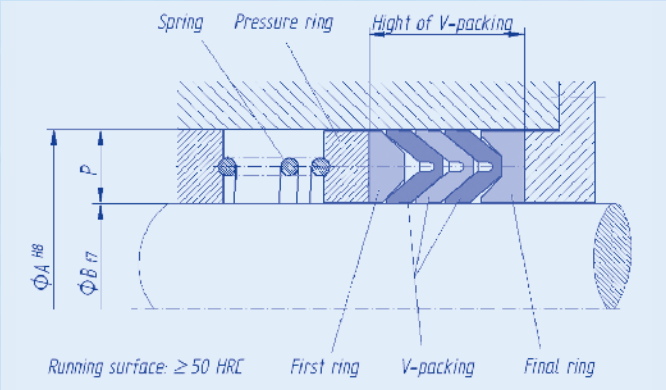
Fields of Application

- Equipment such as plunger piston pumps, metering pumps, hydraulic cylinders, control and shut-off fittings and valve stems
- Industrial sectors, such as chemical, petrochemical, flue gas purification, pharmaceutical, food processing, painting, steel, fittings

Versions and Operating Limits (1)

HN 7001 and		
HN 7002	Sliding speed	max 0.5 m/s ⇔
	Temperature range	–200 °C to +240 °C
HN 7001	Service pressure	max 300 bar
HN 7002	Service pressure	max 100 bar

Design and Action Principle



Pre-Loading by Axially Acting Spring

Based on experience, the specific surface compression of both springs should be between 0.2 and 0.4 N/mm².

With the slightly stiffer type HN 7001 it may be necessary to increase preload to 0.8 N/mm².

Fitting Instructions

- Always install packings with sealing lips facing towards the pressure side
- Spring is normally installed on the pressure side of the packing
- In case of aggressive media and installation of the spring on the pressureless side, spring compression must be adapted to the maximum media pressure which might be generated
- Prior to fitting, the installation space of the packing must be cleaned from dirt, swarf, etc.
- Rod and housing bore must be provided with lead-in chamfers between 15° and 30° to avoid damaging the sealing edges

Surface Quality

	Dynamic contact surface/ rod	*Static groove base diameter/ housing*
Rz	≤ 1.0 µm	≤ 4.0 µm
Rmax	≤ 2.0 µm	≤ 10.0 µm

Compounds

On request, depending on application.

Take our plastics know-how to the test.

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