0001 MERKEL 1170 V-Packing Set (1 + 3 + 2 + 1)  This Merkel Rod V-packing set is composed of 3 rubber-fabric rings, two homogeneous rings, and a male and female (top and bottom) adaptor ring. All Merkel V-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric end weave and delamination.

Technical Data

Pressure: 40 MPa/ 5800 PSI
Speed: 0.5 m/s / 8 ft/s BI-NBR B246/ BI-NBR B 210/ 85 NBR B247

Applications:

- heavy duty applications
- injection molding machines
- civil engineering
- forging
- iron and steel industry
- compression molding
- marine hydraulics
- hydraulic presses
- scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
MERKEL 1170 V-Packing Set (1 + 1 + 1) This Merkel PISTON V-packing set is composed of 1 rubber-fabric ring and male and female (top and bottom) adaptor ring. All Merkel V-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

Technical Data

Pressure: 40 MPa / 5800 PSI

Speed: 0.5 m/s / 8 ft/s BI-NBR B246/ BI-NBR B 210/ 85 NBR B247

Applications:

- heavy duty applications
- injection molding machines
- civil engineering
- forging
- iron and steel industry
- compression molding
- marine hydraulics
- hydraulic presses
- scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
**0003 MERKEL 1170 V-Packing Set (1 + 5 + 1)**  This Merkel Rod V-packing set is composed of 5 rubber-fabric rings, and male and female (top and bottom) adaptor ring. All Merkel V-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

![Image of V-Packing Set]

**Technical Data**

**Pressure:** 40 MPa/ 5800 PSI

**Speed:** 0.5 m/s / 8 ft/s BI-NBR B246/ BI-NBR B 210/ 85 NBR B247

**Applications:**

- heavy duty applications
- injection molding machines
- civil engineering
- forging
- iron and steel industry
- compression molding
- marine hydraulics
- hydraulic presses
- scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
MERKEL 1170 V-Packing Set (1 + 3 + 1) This Merkel Rod V-packing set is composed of 3 rubber-fabric rings, and male and female (top and bottom) adaptor ring. All Merkel V-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

Technical Data

Pressure: 40 MPa/ 5800 PSI

Speed: 0.5 m/s / 8 ft/s BI-NBR B246/ BI-NBR B 210/ 85 NBR B247

Applications:

- injection molding machines
- civil engineering
- forging
- iron and steel industry
- compression molding
- marine hydraulics
- hydraulic presses
- scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
**0008 Merkel 1170 V-Packing Set (1 + 2 + 1 + 1)** This Merkel Rod V-packing set is composed of 2 rubber-fabric rings, 1 homogeneoues ring, and a male and female (top and bottom) adaptor ring. All Merkel V-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

**Technical Data**

**Pressure:** 40 MPa / 5800 PSI

**Speed:** 0.5 m/s / 8 ft/s BI-NBR B246 / BI-NBR B 210 / 85 NBR B247

**Applications:**

- heavy duty applications
- injection molding machines
- civil engineering
- forging
- iron and steel industry
- compression molding
- marine hydraulics
- hydraulic presses
- scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
**MERKEL 1170 V-Packing Set (1 + 2 + 1)** This Merkel PISTON V-packing set is composed of 2 rubber-fabric rings, and male and female (top and bottom) adaptor ring. All Merkel V-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

**Technical Data**

- **Pressure:** 40 MPa / 5800 PSI
- **Speed:** 0.5 m/s / 8 ft/s
- **Applications:**
  - heavy duty applications
  - injection molding machines
  - civil engineering
  - forging
  - iron and steel industry
  - compression molding
  - marine hydraulics
  - hydraulic presses
  - scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
0010 MERKEL 1170 V-Packing Set (1 + 4 + 1)  This Merkel Rod V-packing set is composed of 4 rubber-fabric rings, and a male and female (top and bottom) adaptor ring. All Merkel v-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

Technical Data

Pressure: 40 MPa / 5800 PSI

Speed: 0.5 m/s / 8 ft/s BI-NBR B246 / BI-NBR B 210 / 85 NBR B247

Applications:

- heavy duty applications
- injection molding machines
- civil engineering
- forging
- iron and steel industry
- compression molding
- marine hydraulics
- hydraulic presses
- scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
**MERKEL 1170 V-Packing Set (1 + 4 + 1 + 1)** This Merkel Rod V-packing set is composed of 4 rubber-fabric rings, 1 homogeneouse rings, and a male and female (top and bottom) adaptor ring. All Merkel V-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

### Technical Data

**Pressure:** 40 MPa / 5800 PSI

**Speed:** 0.5 m/s / 8 ft/s BI-NBR B246 / BI-NBR B 210 / 85 NBR B247

### Applications:

- heavy duty applications
- injection molding machines
- civil engineering
- forging
- iron and steel industry
- compression molding
- marine hydraulics
- hydraulic presses
- scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
0047 MERKEL 1170 V-Packing Set with 3-5 Intermediate Rings  This Merkel Piston V-packing set is composed of 3-5 rubber-fabric rings, 1 plastic (POM) male adapter, and one female adapter ring. All Merkel v-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

Technical Data

Pressure: 40 MPa / 5800 PSI

Speed: 0.5 m/s / 8 ft/s BI-NBR B246 / BI-NBR B 210 / 85 NBR B247

Applications:

- heavy duty applications
- injection molding machines
- civil engineering
- forging
- iron and steel industry
- compression molding
- marine hydraulics
- hydraulic presses
- scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
**0048 MERKEL 1170 V-Packing Set with Solid Intermediate Ring**  This Merkel Piston V-packing set is composed of 3-4 rubber-fabric intermediate rings, 1 homogeneous intermediate ring, 1 plastic (POM) male adapter, and one female adapter ring. All Merkel v-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

### Technical Data

**Pressure:** 40 MPa / 5800 PSI

**Speed:** 0.5 m/s / 8 ft/s

**Applications:**

- heavy duty applications
- injection molding machines
- civil engineering
- forging
- iron and steel industry
- compression molding
- marine hydraulics
- hydraulic presses
- scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
0049 Merkel 1170 V-Packing Set (1 + 1 + 1) This Merkel PISTON V-packing set is composed of 2 rubber-fabric rings, 1 plastic (POM) male adapter, and one female adapter ring. All Merkel V-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

Technical Data

Pressure: 40 MPa / 5800 PSI

Speed: 0.5 m/s / 8 ft/s BI-NBR B246 / BI-NBR B 210 / 85 NBR B247

Applications:

- heavy duty applications
- injection molding machines
- civil engineering
- forging
- iron and steel industry
- compression molding
- marine hydraulics
- hydraulic presses
- scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
0106 MERKEL 1000 Heavy Duty V-Packing Set (1 + 3 + 1)  MERKEL 1000 Heavy Duty V-Packing is primarily used in large diameter presses. It has a robust design that provides excellent wear and extrusion resistance. Each ring is spirally rolled by hand to ensure the highest level of quality possible. The 0106 series is composed of 3 intermediate rings and a top and bottom adaptor.

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1-3-1
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**Technical Data**

**Pressure** 9000 PSI / 630 bar

**Linear Velocity** 1.5 ft/s / 0.5 m/s

**Medium/Temperature** Hydraulic oils, Water and Emulsions (HFA) +120°C/250°F

**Applications:**

- Hydraulic Presses/Rams
- Pull-Back Cylinders

Style 1000 AUTOMATIC V-packings are designed for sealing piston rods and rams. By virtue of their robust design, these packings are suitable for heavy duty applications, such as horizontal presses or where side loads are involved. The packing is made from tough, wear resistant fabric. The special shape of this packing enables it to be keyed together under axial compression. These packings can successfully be used where the piston rod or ram is in poor condition and where guide bushings are worn.

- bridges large gaps even with high pressures
- works well is scored/damaged rams
- pressure spiking applications
- highly wear-resistant
- some materials can work with water based fluids
0107 MERKEL 1000 Heavy Duty V-Packing Set (1 + 4 + 1)  MERKEL 1000 Heavy Duty V-Packing is primarily used in large diameter presses. It has a robust design that provides excellent wear and extrusion resistance. Each ring is spirally rolled by hand to ensure the highest level of quality possible. The 0107 series is composed of 4 intermediate rings and a top and bottom adaptor.

Technical Data

Pressure 9000 PSI / 630 bar
Linear Velocity 1.5 ft/s / 0.5 m/s
Medium/Temperature Hydraulic oils, Water and Emulsions (HFA) +120°C/250°F

Applications:

- Pull-Back Cylinders
- Hydraulic Presses/Rams

Style 1000 AUTOMATIC V-packings are designed for sealing piston rods and rams. By virtue of their robust design, these packings are suitable for heavy duty applications, such as horizontal presses or where side loads are involved. The packing is made from tough, wear resistant fabric. The special shape of this packing enables it to be keyed together under axial compression. These packings can successfully be used where the piston rod or ram is in poor condition and where guide bushings are worn.

- bridges large gaps even with high pressures
- works well is scored/damaged rams
- pressure spiking applications
- highly wear-resistant
- some materials can work with water based fluids
MERKEL 1000 Heavy Duty V-Packing Set (1 + 2 + 1)  MERKEL 1000 Heavy Duty V-Packing is primarily used in large diameter presses. It has a robust design that provides excellent wear and extrusion resistance. Each ring is spirally rolled by hand to ensure the highest level of quality possible. The 0158 series is composed of 2 intermediate rings and a top and bottom adaptor.

Technical Data

Pressure **9000 PSI / 630 bar**

Linear Velocity **1.5 ft/s / 0.5 m/s**

Medium/Temperature **Hydraulic oils, Water and Emulsions (HFA) +120°C/250°F**

Applications:

- Hydraulic Presses/Rams
- Pull-Back Cylinders

Style 1000 AUTOMATIC V-packings are designed for sealing piston rods and rams. By virtue of their robust design, these packings are suitable for heavy duty applications, such as horizontal presses or where side loads are involved. The packing is made from tough, wear resistant fabric. The special shape of this packing enables it to be keyed together under axial compression. These packings can successfully be used where the piston rod or ram is in poor condition and where guide bushings are worn.

- bridges large gaps even with high pressures
- works well is scored/damaged rams
- pressure spiking applications
- highly wear-resistant
- some materials can work with water based fluids
This Merkel PISTON V-packing set is composed of 1 rubber-fabric ring and male and female (top and bottom) adaptor ring. The male adaptor ring is specially fabricated with rubber pegs to keep the set energized properly; this allows the set to work well in some non-adjustable housings. All Merkel v-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

**Technical Data**

**Pressure:** 40 MPa/ 5800 PSI

**Speed:** 0.5 m/s / 8 ft/s BI-NBR B246/ BI-NBR B 210/ 85 NBR B247

**Applications:**

- heavy duty applications
- injection molding machines
- civil engineering
- forging
- iron and steel industry
- compression molding
- marine hydraulics
- hydraulic presses
- scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
0172 MERKEL 1170 V-Packing Set (1 + 2 + 1) ES  This Merkel PISTON V-packing set is composed of 2 rubber-fabric rings and male and female (top and bottom) adaptor ring. The male adaptor ring is specially fabricated with rubber pegs to keep the set energized properly; this allows the set to work well in some non-adjustable housings. All Merkel v-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

Technical Data

Pressure: 40 MPa/ 5800 PSI

Speed: 0.5 m/s / 8 ft/s BI-NBR B246/ BI-NBR B 210/ 85 NBR B247

Applications:

- heavy duty applications
- injection molding machines
- civil engineering
- forging
- iron and steel industry
- compression molding
- marine hydraulics
- hydraulic presses
- scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
0173 MERKEL 1170 V-Packing Set (1 + 3 + 1) ES  This Merkel Rod V-packing set is composed of 3 rubber-fabric rings and male and female (top and bottom) adaptor ring. The male adaptor ring is specially fabricated with rubber pegs to keep the set energized properly; this allows the set to work well in some non-adjustable housings. All Merkel v-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

Technical Data

Pressure: 40 MPa/ 5800 PSI

Speed: 0.5 m/s / 8 ft/s BI-NBR B246/ BI-NBR B 210/ 85 NBR B247

Applications:

- heavy duty applications
- injection molding machines
- civil engineering
- forging
- iron and steel industry
- compression molding
- marine hydraulics
- hydraulic presses
- scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
**0174 MERKEL 1170 V-Packing Set (1 + 4 + 1) ES**  This Merkel Rod V-packing set is composed of 4 rubber-fabric rings and male and female (top and bottom) adaptor ring. The male adaptor ring is specially fabricated with rubber pegs to keep the set energized properly; this allows the set to work well in some non-adjustable housings. All Merkel v-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

**Technical Data**

- **Pressure:** 40 MPa/ 5800 PSI
- **Speed:** 0.5 m/s / 8 ft/s BI-NBR B246/ BI-NBR B 210/ 85 NBR B247

**Applications:**

- heavy duty applications
- injection molding machines
- civil engineering
- forging
- iron and steel industry
- compression molding
- marine hydraulics
- hydraulic presses
- scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
**0175 MERKEL 1170 V-Packing Set (1 + 5 + 1) ES** This Merkel Rod V-packing set is composed of 5 rubber-fabric rings and male and female (top and bottom) adaptor ring. All Merkel V-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

![Ripple in water](image)

**Technical Data**

**Pressure:** 40 MPa/ 5800 PSI  
**Speed:** 0.5 m/s / 8 ft/s  
**Applications:**

- heavy duty applications  
- injection molding machines  
- civil engineering  
- forging  
- iron and steel industry  
- compression molding  
- marine hydraulics  
- hydraulic presses  
- scrap metal shearing  

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions  
- long service life  
- can be optimally adjusted for respective application  
- functions over a certain time period even with poorer surfaces  
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior
0176 MERKEL 1170 V-Packing Set (1 + 6 + 1) ES  This Merkel Rod V-packing set is composed of 6 rubber-fabric rings and male and female (top and bottom) adaptor ring. The male adaptor ring is specially fabricated with rubber pegs to keep the set energized properly; this allows the set to work well in some non-adjustable housings. All Merkel v-packings are spirally wound by hand, rather than cut from sheets. This eliminates fabric endweave and delamination.

Technical Data

Pressure: 40 MPa/ 5800 PSI

Speed: 0.5 m/s / 8 ft/s BI-NBR B246/ BI-NBR B 210/ 85 NBR B247

Applications:

- heavy duty applications
- injection molding machines
- civil engineering
- forging
- iron and steel industry
- compression molding
- marine hydraulics
- hydraulic presses
- scrap metal shearing

Multi-part seal set for sealing piston rods, it consists of one pressure ring, at least three sealing rings and one support ring. This seal set is for robust operational areas, mainly for provision of replacement part to old plant.

- proven under extreme conditions
- long service life
- can be optimally adjusted for respective application
- functions over a certain time period even with poorer surfaces
- use and design are conditional, and have to be taken into account where there are fluctuations of leakage and friction behavior