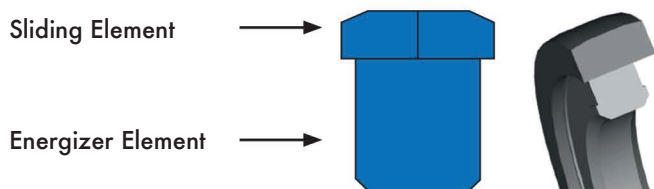


# HDP 330 HIGH-PRESSURE PISTON SEAL

The special polyamide seal HDP 330 complements the Merkel piston seal program for the installation space DIN ISO 7425-1. This seal withstands the most extreme pressures (up to 800 bar) and allows for use of rougher cylinder liner surfaces, which can cut cylinder production costs.

The HDP 330 is a two-part seal set, consisting of a PA slide ring with a stepped cut and a elastomer energizing element for producing pre-load.



## MATERIAL

### Slide ring

Material	Code
Fiberglass filled modified polyamide	PA 4112

### Contact pressure element

Material	Code	Hardness
Nitrile rubber NBR	70 NBR 177605	70 Shore A

## VALUES TO THE CUSTOMER

- Well suited for applications with extreme operating conditions; offers high functional reliability up to 800 bar
- Enables more cost effective cylinder construction (rougher surface finishes and sealing over ports allowed)
- Allows quick and precise assembly
- Provides tight sealing function

## APPLICATIONS

- **Construction Equipment Applications** - for extreme conditions (e.g. shock pressures)
- **Material Handling Applications** - for cost-efficient cylinders (cold drawn tubes)
- **Hydraulic Pump applications** - for small housings and high pressures

Ref.Number	Bore diameter	Groove width
HDP02000-281	<b>2.000</b>	0.281
HDP02000-312	<b>2.000</b>	0.312
HDP02500-281	<b>2.500</b>	0.281
HDP02500-312	<b>2.500</b>	0.312
HDP03000-281	<b>3.000</b>	0.281
HDP03000-312	<b>3.000</b>	0.312
HDP03500-281	<b>3.500</b>	0.281
HDP03500-312	<b>3.500</b>	0.312
HDP04000-281	<b>4.000</b>	0.281
HDP04000-312	<b>4.000</b>	0.312
HDP04500-281	<b>4.500</b>	0.281
HDP04500-312	<b>4.500</b>	0.312
HDP05000-281	<b>5.000</b>	0.281
HDP05000-375	<b>5.000</b>	0.375
HDP05500-375	<b>5.500</b>	0.375
HDP06000-375	<b>6.000</b>	0.375
HDP06500-375	<b>6.500</b>	0.375
HDP07000-375	<b>7.000</b>	0.375
HDP07500-375	<b>7.500</b>	0.375
HDP08000-375	<b>8.000</b>	0.375