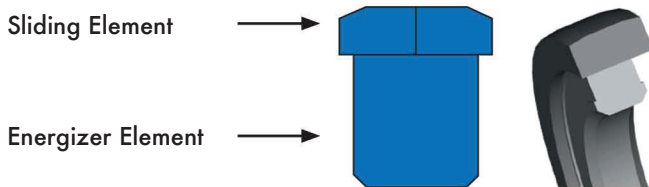




## HDP 330 HIGH-PRESSURE PISTON SEAL

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        |