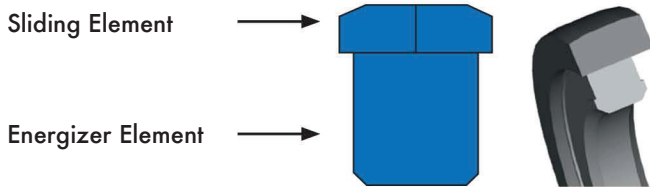




HDP 330 HIGH-PRESSURE PISTON SEAL

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.



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

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

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

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