



- Robust seal profile for harshest operating conditions.
- Extreme wear resistance.
- Assembly on one-part piston is possible.
- High extrusion resistance.
- Excellent media resistance in case of suitable compound selection.
- Suitable compounds available for special requirements of the chemical process industry.
- Suitable compounds available for special requirements of the food processing industry.
- Dimensions according to ISO 5597.
- Installation in closed and undercut housings.
- Low compression set.
- Machined small-volume series and samples available with short lead times.

The Ultrathan® sealing set profile KS has been developed especially for sealing pistons in dual media hydraulic accumulators. The shape of the seals makes them ideal for the permanent separation of the pressurized media e.g. oil and gas with low friction forces.

The KS can be used in other applications including industrial shock absorbers, hydro-pneumatic equipment such as feed and counter balance units, hydro-pneumatic booster or converter units, pressure transducers and operating cylinders.

Range of Application

Working pressure	≤ 350 bar
Working temperature	-30 °C to +80 °C
Surface speed	≤ 3 m/s
Media	Mineral-oil based hydraulic oils and various gases.

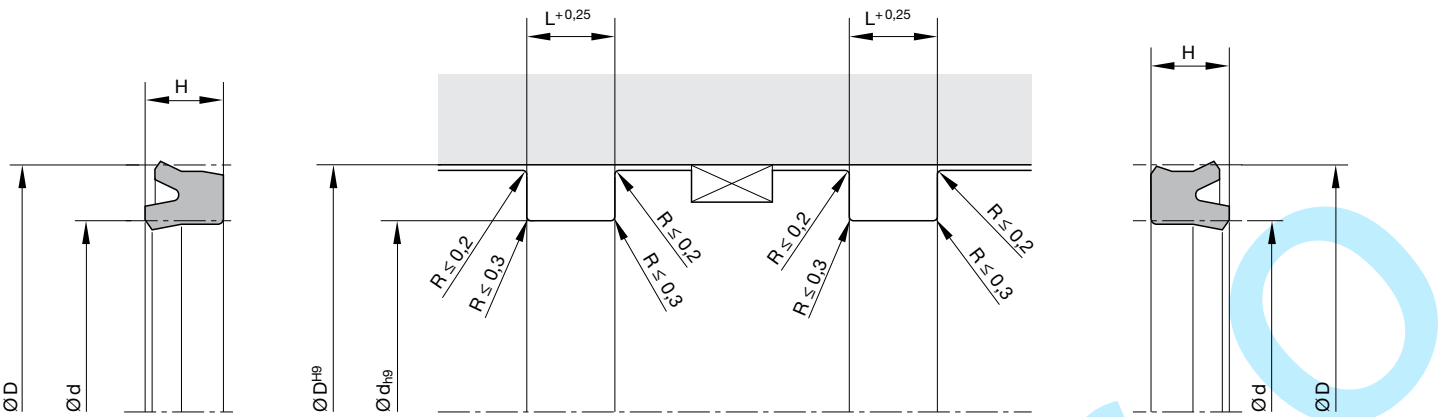
Compounds

Parker polyurethane P5008 is used for the oil side seal and polyurethane P5010 is used for the gas side. When compared to commercial polyurethanes both these compounds have a superior resistance to high temperature and lower compression set values.

Installation

The performance of profile KS piston seal set is only guaranteed when the green colour seal (KH ... P5008) is installed on the oil side of the piston and the red colour seal (KG ... P5010) on the gas side. The general recommendations as shown in our hydraulics brochure are applicable to the housing groove and seal installation, e. g. no sharp edges, no sharp tools, clean components, etc.

In case of special operating conditions (specific pressure loads, temperature, speed, use in water, HFA, HFB fluids etc.), please contact our consultancy service for a selection of the material and design best suiting your particular application requirements.



For surface finish, lead in chamfer and other installation dimensions see “General installation guidelines”.

D	d	H	L	ISO ¹⁾	Order code
32	24	5.7	6.3		KS 0032 00710
35	27	5.7	6.3		KS 0035 00710
40	32	5.7	6.3	•	KS 0040 00710
50	40	7.3	8	•	KS 0050 00710
63	53	7.3	8	•	KS 0063 00710
80	65	11.4	12.5	•	KS 0080 00710
85.73	70.73	11.4	12.5		KS 0086 00710
100	85	11.4	12.5	•	KS 0100 00710
125	105	14.5	16	•	KS 0125 00710
160	140	14.5	16	•	KS 0160 00714
180	160	14.5	16		KS 0180 00710

1) ISO 5597
Further sizes on request.