

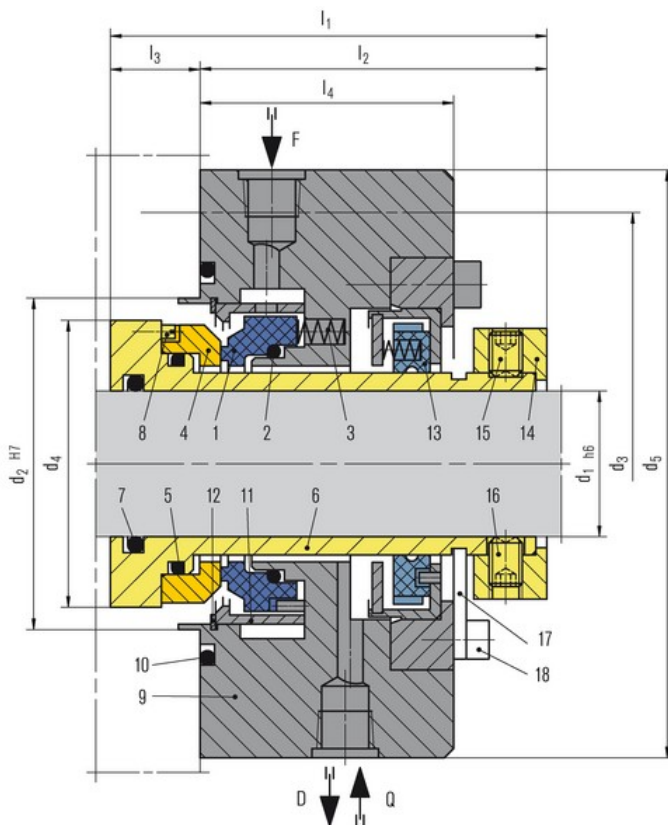
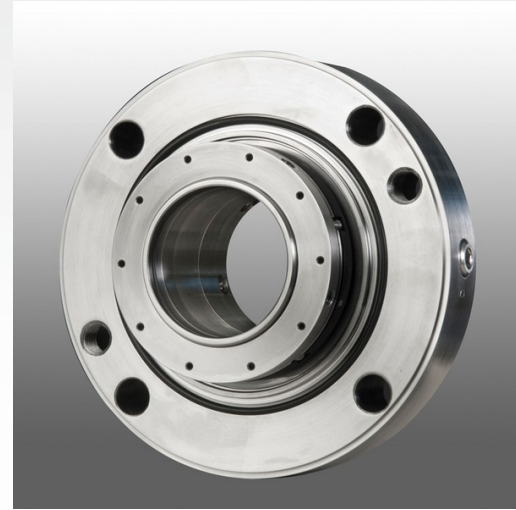
# LEK777

## Features

- API 682 Category 2 and 3, Type A, Arrangement 1 seal
- Single seal
- Balanced
- Cartridge unit
- Stationary multiple springs
- Solid seal faces

## Advantages

- Suitable for higher speeds
- Good followability due to no influence from run-out, squareness or vibration of the shaft
- Compact design
- Low heat generation and power consumption due to narrow seal face width
- Longer seal life
- Pressure-balanced design prevents mating ring being forced out under reverse pressure
- No damage to shaft sleeve as dynamic O-Ring is not in direct contact with the sleeve



Item	Description
1	Seal ring
2, 5, 7, 10	O-Ring
3	Spring
4	Mating ring
6	Seal sleeve
8	Drive screw
9	Gland plate
11	Flow distributor
12	Retaining ring
13	Throttle bushing
14	Drive collar
15, 16	Set screw
17	Setting device
18	HSH Cap screw

# LEK777 (2)

## Recommended applications

- Refining technology
- Oil and gas industry
- Petrochemical industry
- Chemical industry
- Power plant technology
- Light volatile hydrocarbons
- LPG plants
- API 610 / ISO 13709 pumps
- Process pumps

## Operating range

Pressure (product seal): p = vacuum ... 60 bar ( ... 870 PSI)  
Temperature: -40 °C ... +176 °C (-40 °F ... +349 °F)\*  
Sliding velocity: v<sub>g</sub> = 50 m/s (164 ft/s)  
Viscosity: ... 300 mPa·s  
Solids content: ... 0.5 wt.%

\* Engineered up to 260 °C (500 °F) with FFKM (K) secondary seals

## Standards and approvals

- API 682 / ISO 21049

## Materials

Seal ring: Blister resistant carbon,  
Silicon carbide SSiC (Q1), RBSiC (Q2)  
Mating ring:  
Silicon carbide SSiC (Q1), RBSiC (Q2)  
Secondary seals:  
FKM (V), FFKM (K), EPDM (E), NBR (P)  
Springs: Hastelloy® C-276 (M5)  
Metal parts: CrNiMo steel 316 (G)

## Recommended piping plans

Process side:  
01, 02, 11, 12, 13, 14, 21, 22, 23, 31, 32, 41  
Atmospheric side:  
51, 61, 62, 65A, 65B, 66A, 66B

## Dimensions

API/d <sub>1</sub>	API/d <sub>2</sub>	API/d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>
20	70	105	51	128	100	70	30	50
30	80	115	63	138	102	70	32	50
40	90	125	74	148	105	70	35	50
50	100	140	84	168	105	70	35	50
60	120	160	99	188	107	72	35	52
70	130	170	108	198	107	72	35	52
80	140	180	120	208	107	72	35	52
90	160	205	138	238	114	79	35	59
100	170	215	148	248	115	80	35	60
110	180	225	157	258	120	80	40	60

Dimensions in millimeter

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