

RELY ON EXCELLENCE

## EK700

Mechanical seals | Mechanical seals for pumps | Pusher seals



### Advantages

- Unitized construction allows easy conversion
- Springs located on the atmospheric side, no clogging
- High precision rotating assembly reduces "swashing" of seal head

### Operating range

Pressure:  $p = \dots 35 \text{ bar}$  ( ... 508 PSI)  
Temperature:  $t = 160 \text{ }^\circ\text{C}$  (320 °F)  
Sliding velocity:  $v_g = 30 \text{ m/s}$  (98 ft/s)  
Viscosity: ... 0.5 Pa·s  
Solids content: ... 0.5 %

### Features

- Single seal
- Balanced
- Independent of direction of rotation
- Stationary multiple springs

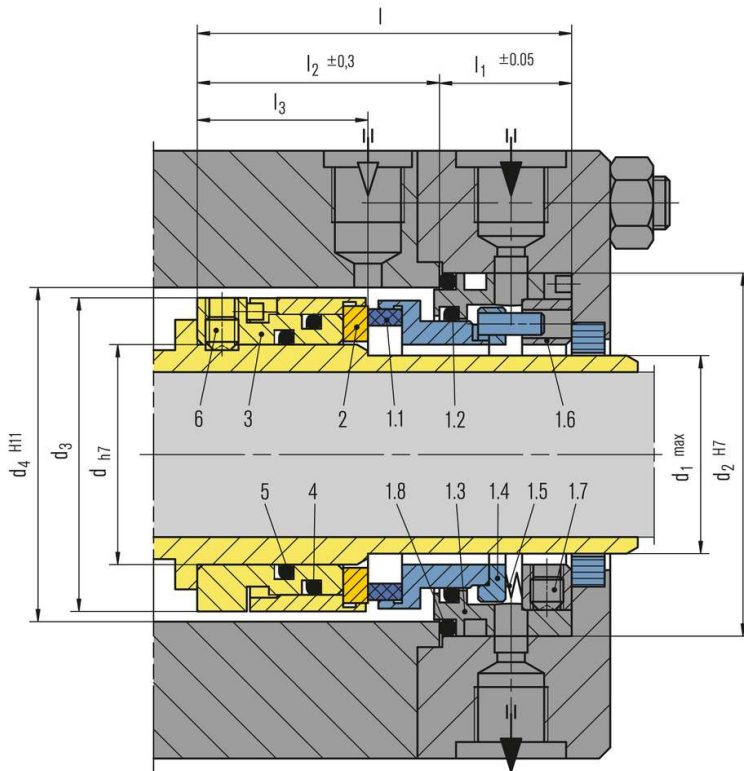
### Materials

Seal face: High density carbon graphite (B)  
Seat: Silicon carbide (Q1)  
Secondary seals: FKM (V)  
Metal parts: 1.4401 (G)

### Recommended applications

- Chemical industry
- Refining technology
- Petrochemical industry
- Lubrication oil
- Light oil
- Gasoline
- Naphtha
- Water
- Process pumps

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### Item Description

- 1.1 Seal face
- 1.2 O-Ring
- 1.3 Housing
- 1.4 Thrust ring
- 1.5 Spring
- 1.6 Thrust ring
- 1.7 Set screw
- 1.8 O-Ring
- 2 Seat
- 3 Drive collar
- 4 O-Ring
- 5 O-Ring
- 6 Set screw

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### Dimensions

d	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	l	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>
20	18	42	33	36	63	23	40	30
25	23	47	39	41	65	24	41	30
30	28	53	44	46	66	24	42	30
35	33	58	49	51	66	24	42	30
40	38	66	57	60	68	24	44	31
45	43	71	60	65	68	24	44	31
50	48	76	67	70	68	24	44	31
55	53	81	72	75	69	25	44	31
60	58	91	79	85	72.5	27.5	45	31
65	63	96	86	90	77	29	48	31
70	68	101	92	95	79.5	28.5	51	32
75	73	110	99	104	79.5	28.5	51	32
80	78	115	102	109	79.5	28.5	51	32
85	83	120	108	114	80.5	28.5	52	33
90	88	125	115	119	81.5	29.5	52	33
95	93	130	118	124	81.5	29.5	52	33
100	98	135	124	129	81.5	29.5	52	33
110	110	145	134	139	84.5	29.5	55	36
120	120	160	147	150	91	34	57	38
130	130	170	157	160	96	37	59	40
140	140	185	172	175	98	38	60	40
150	150	200	184	190	100	38	62	42

Dimensions in millimeter