

HBrinker Mechanical Seal

Pusher seals Mechanical Seal HBX40



Mechanical Seal HBX40

Operating range

Shaft diameter: $d_1 = 18 \dots 300 \text{ mm}$

Pressure: $p_1 = \text{vacuum} \dots 25 \text{ bar}$ (vacuum ... 363 PSI)

Temperature: $t = -40 \dots 220^\circ \text{ C}$ ($-40 \dots 428^\circ \text{ F}$)

Sliding velocity: $v_g = 20 \text{ m/s}$ (66 ft/s)

Features

- Stationary springs
- Balanced
- Independent of direction of rotation
- Independent of pressure direction

Advantages

- Balanced seal in the installation space of a unbalanced seal
- Springs protected from the product
- Suitable-to-ceramic design
- Smooth external contours

Materials

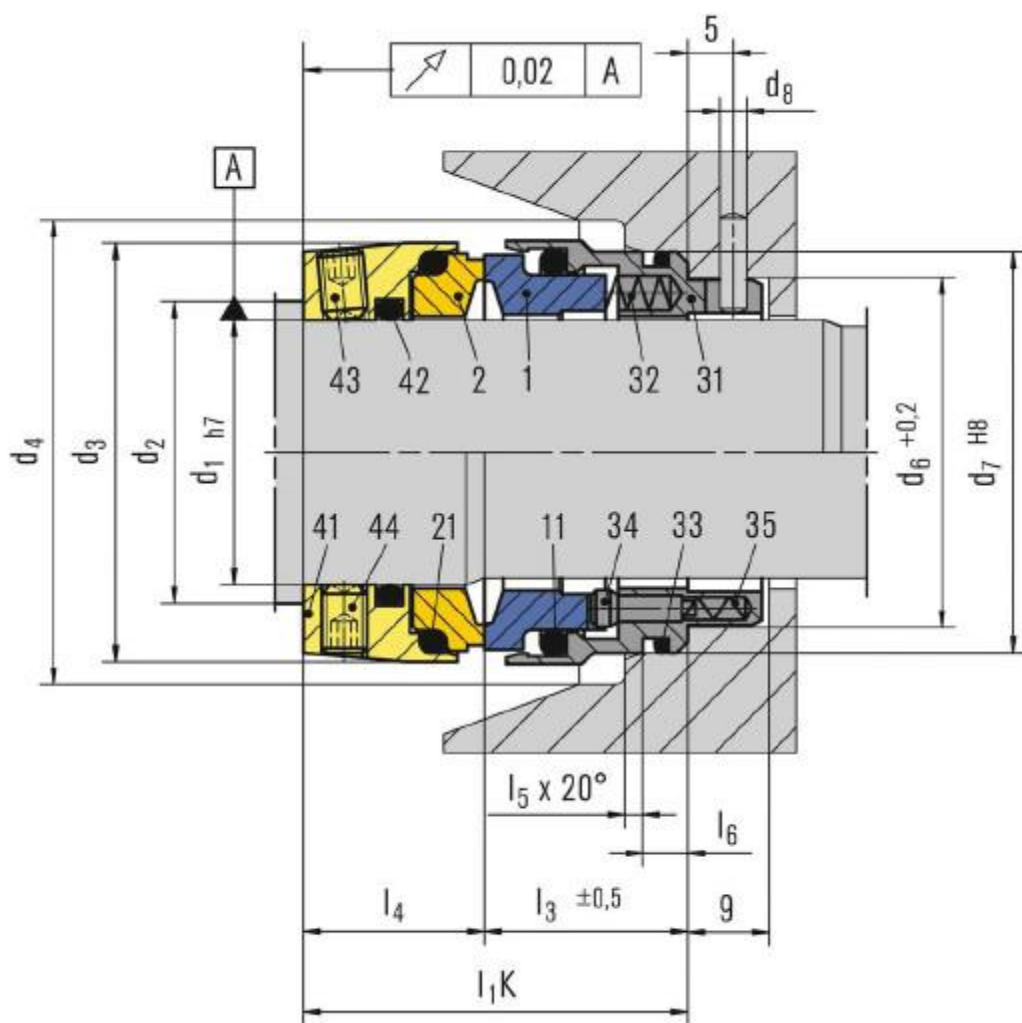
- Seal face: Silicon Carbide (Q1, Q2)
- Seat: Carbon graphite resin impregnated (B), Silicon carbide (Q1, Q2)
- Secondary seals: EPDM (E), FKM (V), FFKM (K)
- Springs: CrNiMo steel (G)
- Metal parts: CrNiMo steel (G)

Recommended applications

- Process industry
- Oil and gas industry
- Refining technology
- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Power plant technology
- Pulp and paper industry
- Water and waste water technology
- Mining industry
- Building services industry
- Food and beverage industry
- Shipbuilding
- Sugar industry
- Metal production and processing

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Item	Description
1	Seal ring
2	Mating ring
41	Adjusting ring
11,21,33,42	O-Ring
31	Housing
32,35	Spring
34	Pin
43,44	Set screw

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Dimension Table in millimeter

d1	d2	d3*	l1K**	l3	l4	d4	d6	d7	d8	l5	l6
18	22	35	45	26.5	18.5	40	27	33	3	2	5
20	24	37	45	26.5	18.5	42	29	35	3	2	5
22	26	39	45	26.5	18.5	44	31	37	3	2	5
24	28	41	40	21.5	18.5	46	33	39	3	2	5
25	30	42	40	21.5	18.5	47	34	40	3	2	5
28	33	45	42.5	22.5	20	50	37	43	3	2	5
30	35	47	42.5	22.5	20	52	39	45	3	2	5
32	38	50	42.5	22.5	20	55	42	48	3	2	5
33	38	50	42.5	22.5	20	55	42	48	3	2	5
35	40	52	42.5	22.5	20	57	44	50	3	2	5
38	43	58	45	23.5	21.5	63	49	56	4	2	6
40	45	60	45	23.5	21.5	65	51	58	4	2	6
43	48	63	45	23.5	21.5	68	54	61	4	2	6
45	50	65	45	23.5	21.5	70	56	63	4	2	6
48	53	68	45	23.5	21.5	73	59	66	4	2	6
50	55	72	47.5	25.5	22	77	62	70	4	2.5	6
53	58	75	47.5	25.5	22	80	65	73	4	2.5	6
55	60	77	47.5	25.5	22	82	67	75	4	2.5	6
58	63	81	52.5	27.5	25	86	70	78	4	2.5	6
60	65	83	52.5	27.5	25	88	72	80	4	2.5	6
63	68	86	52.5	27.5	25	91	75	83	4	2.5	6
65	70	88	52.5	27.5	25	93	77	85	4	2.5	6
70	75	95	60	30.5	29.5	100	83	92	4	2.5	7
75	80	100	60	30.5	29.5	105	88	97	4	2.5	7
80	85	108	60	30.5	29.5	113	95	105	4	3	7
85	90	113	60	30.5	29.5	118	100	110	4	3	7
90	95	118	65	34	31	123	105	115	4	3	7
95	100	123	65	34	31	128	110	120	4	3	7
100	105	128	65	34	31	133	115	125	4	3	7