

# HBrinker Mechanical Seal

Agitator seal Mechanical Seal HBRB



## Mechanical Seal HBRB

### Operating range

Pressure:  $p =$  vacuum ... 10 bar (145 PSI)

Temperature:  $t =$  -30 °C ... +200 °C (-22 °F ... +392 °F)

Rotational speed: = max. 200 min<sup>-1</sup>

Axial movement: max. 0.3 mm

### Materials

- Diameter 50 ... 100 mm:
- Seal faces: Carbon graphite resin impregnated (B)
- Seat: Silicon carbide (Q1), Tungsten carbide (U1), chromium oxide coated
- Diameter 110 ... 200 mm:
- Seal faces: Silicon carbide (Q1), Tungsten carbide (U1), chromium oxide coated
- Seats: Carbon graphite resin impregnated (B), Silicon carbide (Q1), Tungsten carbide (U1)

### Features

- Cartridge unit Recommended applications
- Double seal with integrated bearing
- Unbalanced
- Independent of direction of rotation

### Advantages

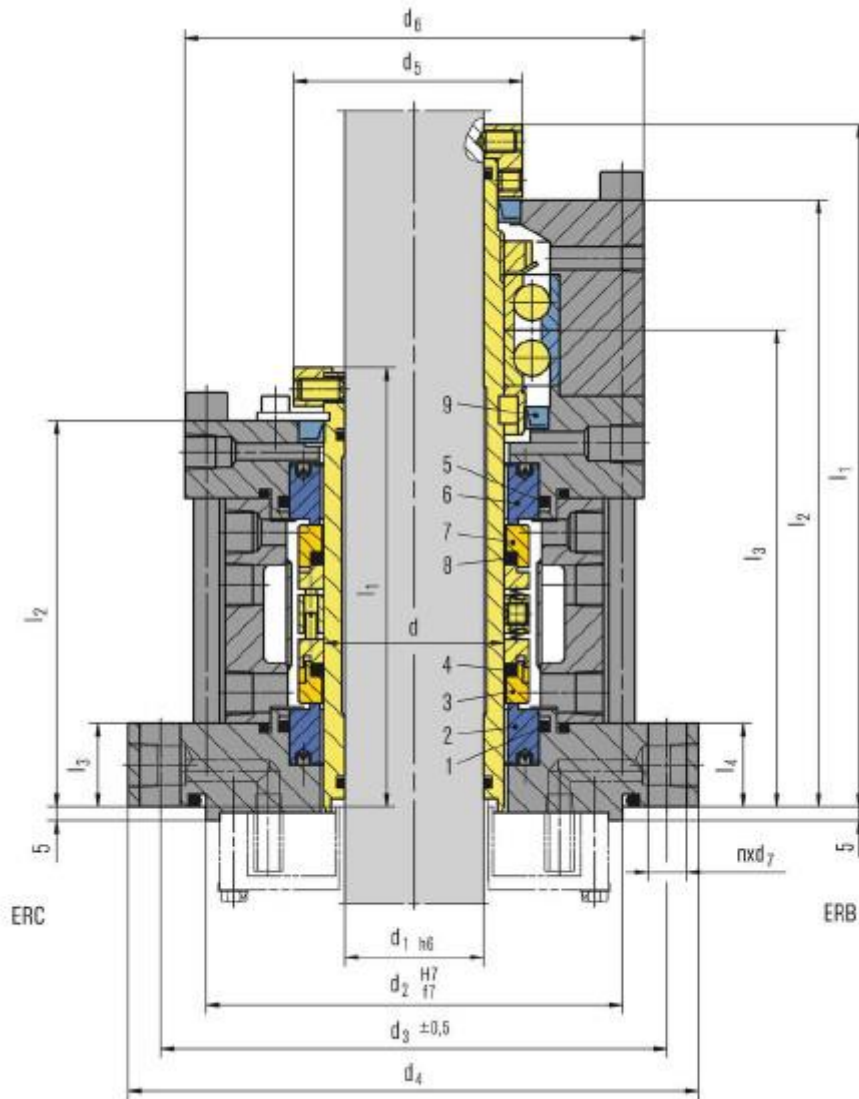
- Ready-to-fit and factory-tested units
- Available with or without bearing
- Suitable for standardizations
- Balanced seal can be applied at high pressure

### Recommended applications

- Chemical industry
- Food and beverage industry
- Reactors
- Polymerization agitators
- Mixers

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Item	Description
1,4,5,8	O-Ring
2,6	Seat
3,7	Seal Face
9	Shaft seal

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Dimension Table

d	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	d <sub>6</sub>	d <sub>7</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	n	Bearing Type
50	35	135	170	195	61	134	14	268	237	185	30	8	#7210ADB
60	45	145	180	205	75	144	14	283	252	197	30	8	#7212ADB
70	55	155	190	215	85	154	14	293	262	205	30	8	#7014ADB
80	65	165	200	225	95	164	14	303	272	207	30	8	#7016ADB
90	75	175	210	235	105	174	14	323	287	219	30	8	#7018ADB
100	85	185	220	245	115	184	14	323	287	219	30	8	#7020ADB
110	95	205	240	265	125	218	14	33	291	216	30	8	#7022ADB
120	105	215	261	289	135	235	19	371	309	233	35	12	#7024ADB
130	110	225	271	299	145	245	19	364	322	238	35	12	#7026ADB
140	120	235	281	309	159	255	19	369	322	238	35	12	#7028ADB
150	130	280	335	375	169	295	23	424	377	288	45	12	#7030ADB
160	140	290	345	385	179	305	23	433	386	291	45	12	#7032ADB
170	150	300	355	395	189	315	23	452	400	295	45	12	#7034ADB
180	160	310	365	405	199	328	23	458	406	299	45	12	#7036ADB
190	170	320	375	415	209	338	23	473	416	309	45	12	#7038ADB
200	180	330	390	430	219	358	23	483	426	312	45	12	#7040ADB

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