## HBrinker Mechanical Seal

**Engineered seals** 

**Mechanical Seal HBHRC** 





Seal face: Silicon carbide (Q1, Q2)

impregnated (A), Silicon carbide (Q1, Q2)

Seat: Carbon graphite antimony

### **Mechanical Seal HBHRC**

## **Operating range**

Shaft diameter: d10 = 30 ... 60 mm (1.181"... 2.362")

Pressure: p1 = 23 bar (334 PSI)

Temperature:  $t = -20 \,^{\circ}\text{C} \dots + 160 \, (200^{*}) \,^{\circ}\text{C} \, (-4 \,^{\circ}\text{F} \dots + 320 \, (382^{*}) \,^{\circ}\text{F})$ 

Sliding velocity: vg = 20 m/s (66 ft)

Axial movement: ±1.0 mm

\* Due to shrinking

#### **Features**

- Cartridge
- Balanced
- Independent of direction of rotation
- Stationary multiple springs
- Spring protection sleeve
- Wariant for operation with pressureless quench available (HRC2000N)
- Dual seal with and without pumping screw (HRC3300NF, HRC3300N) available

## Advantages

**Materials** 

- Insensitive to solids containing media. Solids content 40 % (single seal), 60 % (double seal)
- Springs protected fromproduct and leakage
- Variant with short installation length to meet limited space conditions (HRC1100N)
- Dual seal remains closed in case of barrier pressure failure, self-closing at pressure reversal (HRC3300NF)
- Operation under vacuum without seat locking possible
- No damage of the shaft by dynamically loaded
  O-Ring
- Insensitive to shaft deflections due to stationary design

## **Recommended applications**

- Chemical industry
- Process industry
- Petrochemical industry
- Mining industry
- Sugar industry
- Dirty, abrasive and solids containing media
- Various chemical processes
- Chemical standard pumps



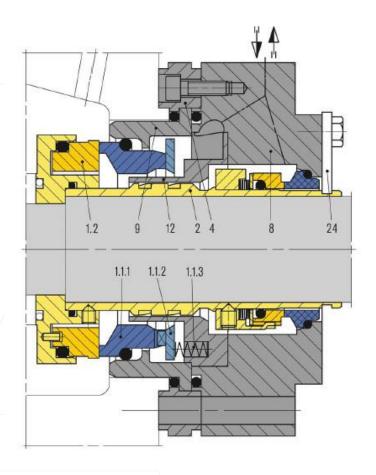
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Item	Part no DIN 24250	Description
1.1.1	472.1	Seal face
1.1.2	474	Thrust ring
1.1.3	477.1	Spring
1.2	475.1	Seat
2	523	Shaft sleeve
4	513	Insert
8	160	Cover plate
9	509	Spring carrier
12		Spring protection sleeve
19		Plug
24		Assembly fixture

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**Dimension Table** 

$d_{10}^{1)}$	$d_{11}^{1)}$	$d_{12}^{2)}$	$d_{13}^{3)}$	$d_{14}^{2)}$	$d_{15}^{4)}$	d <sub>16</sub>	$d_{17}^{5)}$	d <sub>18</sub> <sup>1)6)</sup>	<b>d</b> 19	d <sub>20</sub>	d <sub>21</sub>	$\mathbf{d}_{22}$
30	24	31	35	41	44	82	85	95	$d_{19} < d_{20} < /d$	110	129	86
40	32	41	45	51	54	92	95	110	$d_{19} < d_{20} < /d$	130	155	96
50	/ 42	51	55	61	66	105	110	125	$d_{19} < d_{20} < /d$	145	168	111
60	50	61	61	67	76	120	125	140	$d_{19} < d_{20} < /d$	160	185	126

<b>l</b> 87)	l <sub>9</sub>	l <sub>10</sub>	$l_{11}^{2)7)}$	$l_{12}^{2)7)}$	l <sub>13</sub> 8)	l <sub>14</sub>	l <sub>15</sub> l <sub>16</sub>	l <sub>17</sub>	l <sub>18</sub>	l <sub>19</sub>	120	l <sub>21</sub>	l <sub>22</sub>	l <sub>23</sub>	l <sub>24</sub> <sup>9)</sup>	<b>l</b> 25	S
115	10	15	50	4	4	20	1 \	16	0.5	55	39	35	35	39	2	0.5	M10
130	10	15	52	4	4	22	1	18	0.5	60	44	40	40	44	2	0.5	M12
140	12	15	55	4 /	4	25	1	21	0,5	60	44	45	40	44	2	0.5	M12
166	14	20	70	4	4	30	1	26	0,5	60	44	50	40	44	2	0.5	M12

V

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