







## Features

- For plain shafts
- Single seal
- Unbalanced
- Conical spring rotating
- Dependent on direction of rotation

# **Advantages**

- Economical seal solution
- No damage of the shaft by set screws
- Short installation length possible (G16)

## **Operating range**

Shaft diameter: d1 = 6 ... 38 mm (0.25" ... 1.5")Pressure: p1 = 10 bar (145 PSI)Temperature:  $t = -20 ^{\circ}\text{C} ... 140 ^{\circ}\text{C}$   $(-4 ^{\circ}\text{F} ... 355 ^{\circ}\text{F})$ Sliding velocity: vg = 15 m/s (50 ft/s)Axial movement:  $\pm 1.0 \text{ mm}$ 

# **Materials**

Seal face: Carbon graphite resin impregnated (B) Seat G9: Silicon carbide (Q1, Q2), Special cast CrMo steel (S), Aluminium oxide (V)

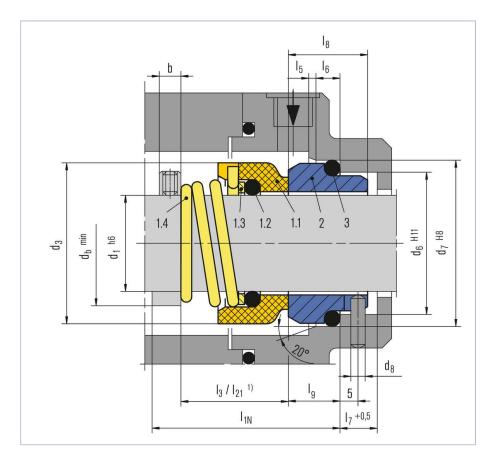
# Standards and approvals

EN 12756

# **Recommended applications**

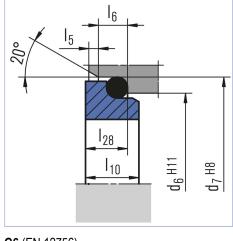
- Pulp and paper industry
- Water and waste water technology
- Building services industry
- Water pumps
- Heating circulation pumps

All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications, however, means that they can serve only as guide values. We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. This is subject to change.

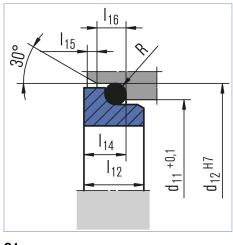


ltem	Part no. to DIN 24250	Description
1.1	472	Seal face
1.2	412.1	O-Ring
1.3	474	Thrust ring
1.4	478	Righthand spring
1.4	479	Lefthand spring
2	475	Seat (G9)
3	412.2	O-Ring

# **Seat alternatives**



G6 (EN 12756)



G16 (EN 12756)

G4

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### **Product variants**

#### M2

Rotating unit M2 with seat G4 or G16 (shorter installation length). Seal face: Carbon graphite resin impregnated (B) Seat G4: Silicon carbide (Q1), Special cast CrMo steel (S) Seat G16: Silicon carbide (Q1, Q2), Special cast CrMo steel (S), Aluminium oxide (V)

### **Dimensions**

d<sub>12</sub> I<sub>16</sub> d<sub>1</sub> d3 d<sub>6</sub> d7 d8 d<sub>11</sub> db  $d_{b}$ l3<sup>1)</sup> I10 I<sub>12</sub> I<sub>14</sub> I<sub>15</sub> I<sub>21</sub>1) b 15 l6 I7 18 I<sub>18</sub> I<sub>19</sub> I<sub>28</sub> 1.2 6 11.8 16.0 8 6.5 5.6 10.9 1.2 15 \_ \_ \_ \_ \_ 3.8 \_ \_ \_ \_ \_ \_ \_ \_ \_ 8 15.5 19.2 8.0 7.0 1.2 15.5 1.2 18 11 3.8 \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ 1.2 10 20 21 15.5 19.2 13 7.5 1.2 3.8 15.9 17 3 40 17.5 1.5 4 8.5 17.5 7.5 6.6 6.6 8 \_ 12 22 19 23 3 17.5 21.6 16 40 17.5 1.5 4 8.5 17.5 7.5 8.0 7.0 1.2 3.8 16.0 6.6 8 1.2 \_ \_

1) I<sub>3</sub> valid for M2N, I<sub>21</sub> valid for M2

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Rotating unit M2 with seat G6. Seal face: Carbon graphite resin impregnated (B) Seat G6: Silicon carbide (Q1), Special cast CrMo steel (S)

M2N4

14	25	21	25	3	20.5	24.6	18	40	17.5	1.5	4	8.5	17.5	7.5	8.0	7.0	1.2	3.8	-	-	16.0	6.6	8	1.2
15	27	-	-	-	20.5	24.6	19	-	-	-	-	-	-	-	7.5	6.6	1.2	3.8	-	-	17.4	-	-	1.2
16	27	23	27	3	22.0	28.0	21	40	19.5	1.5	4	8.5	17.5	7.5	8.5	7.5	1.5	5.0	-	-	19.0	6.6	8	1.5
18	30	27	33	3	24.0	30.0	23	45	20.5	2.0	5	9.0	19.5	8.5	9.0	8.0	1.5	5.0	15	7	20.5	7.5	8	1.5
20	32	29	35	3	29.5	35.0	26	45	22.0	2.0	5	9.0	19.5	8.5	8.5	7.5	1.5	5.0	15	7	22.0	7.5	8	1.5
22	35	31	37	3	29.5	35.0	28	45	23.5	2.0	5	9.0	19.5	8.5	8.5	7.5	1.5	5.0	15	7	23.5	7.5	8	1.5
24	38	33	39	3	32.0	38.0	30	50	25.0	2.0	5	9.0	19.5	8.5	8.5	7.5	1.5	5.0	15	7	25.0	7.5	8	1.5
25	40	34	40	3	32.0	38.0	31	50	26.5	2.0	5	9.0	19.5	8.5	8.5	7.5	1.5	5.0	15	7	26.5	7.5	8	1.5
26	41	-	-	-	34.0	40.0	32	-	-	-	-	-	-	-	9.0	8.0	1.5	5.0	-	-	26.5	-	-	1.5
28	43	37	43	3	36.0	42.0	35	50	26.5	2.0	5	9.0	19.5	8.5	10.0	9.0	1.5	5.0	15	7	26.5	7.5	8	1.5
30	47	-	-	-	39.2	45.0	37	-	-	-	-	-	-	-	11.5	10.5	1.5	5.0	15	7	25.0	-	-	1.5
32	48	-	-	-	42.2	48.0	39	-	-	-	-	-	-	-	13.0	10.5	1.5	5.0	15	7	28.5	-	-	1.5
35	53	-	-	-	46.2	52.0	43	-	-	-	-	-	-	-	13.5	11.0	1.5	5.0	15	7	28.5	-	-	1.5
38	56	-	-	-	49.2	55.0	47	-	-	-	-	-	-	-	13.0	10.3	1.5	5.0	16	8	32.0	-	-	1.5
Dime	Dimensions in Millimeter																							