RELY ON EXCELLENCE

# AD510 / AD520

## Mechanical Seals | Agitator seals | Dry running seals

### Advantages

AD510 includes housing

### Operating range

Pressure:
p = vacuum (7 mbara) ... 5 bar (73 PSI)
Temperature:
t = -30 °C ... +175 °C (-22 °F ... +347 °F)
Sliding velocity: vg = max. 1.0 m/s (3 ft/s)
Allowable gas consumption: 2 Nl/h

! It should be noted that the extremal values of each operating parameter cannot be applied at the same time because of their interaction.

### Materials

Seal face: PTFE, Carbon fiber and glass fiber reinforced
Seat: Silicon carbide (Q1), Aluminium oxide (V)

### Recommended applications

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

### Features

- Dry running
- Single seal
- Independent of direction of rotation

### Notes

Options:
Cooling jacket on the vessel side flange and carbon bush and
version with gas flushing line and lip seal.
Please inquire.

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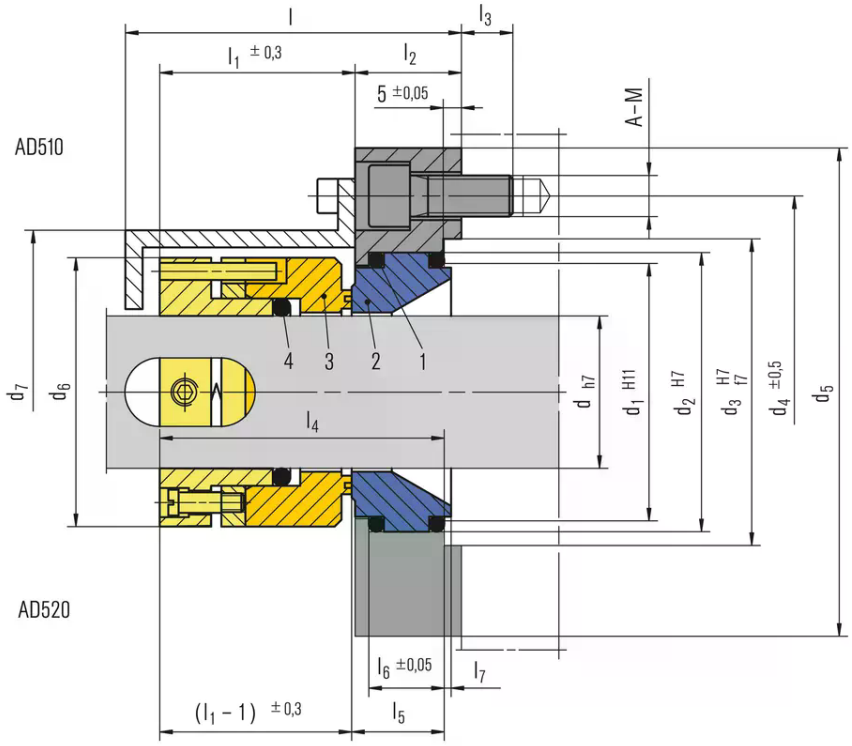
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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




| Item | Description |
|---|---|
| 1 | O-Ring |
| 2 | Seat |
| 3 | Seal face |
| 4 | O-Ring |

## Product variants

**AD520**



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## Dimensions

| d | $d_1$ | $d_2$ | $d_3$ | $d_4$ | $d_5$ | $d_6$ | $d_7$ | l | $l_1$ | $l_2$ | $l_3$ | $l_4$ | $l_5$ | $l_6$ | $l_7$ | A-M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 36 | 42 | 50 | 70 | 90 | 46 | 60 | 77 | 44 | 24 | 11 | 63 | 20 | 16 | 2 | 4-M8 |
| 25 | 41 | 47 | 55 | 75 | 95 | 51 | 65 | 77 | 44 | 24 | 11 | 63 | 20 | 16 | 2 | 4-M8 |
| 30 | 46 | 52 | 60 | 80 | 100 | 56 | 70 | 77 | 44 | 24 | 11 | 63 | 20 | 16 | 2 | 4-M8 |
| 35 | 51 | 57 | 65 | 85 | 105 | 61 | 75 | 77 | 44 | 24 | 11 | 63 | 20 | 16 | 2 | 4-M8 |
| 40 | 60 | 66 | 75 | 95 | 120 | 70 | 85 | 82 | 47 | 26 | 12 | 68 | 22 | 18 | 2 | 4-M10 |
| 45 | 65 | 71 | 80 | 100 | 125 | 75 | 90 | 82 | 47 | 26 | 12 | 68 | 22 | 18 | 2 | 4-M10 |
| 50 | 70 | 76 | 85 | 105 | 130 | 80 | 95 | 82 | 47 | 26 | 12 | 68 | 22 | 18 | 2 | 8-M10 |
| 55 | 75 | 81 | 90 | 110 | 135 | 85 | 100 | 82 | 47 | 26 | 12 | 68 | 22 | 18 | 2 | 8-M10 |
| 60 | 85 | 91 | 100 | 120 | 145 | 92 | 110 | 89 | 51 | 28 | 12 | 74 | 24 | 20 | 2 | 8-M10 |
| 65 | 90 | 96 | 105 | 125 | 150 | 97 | 115 | 89 | 51 | 28 | 12 | 74 | 24 | 20 | 2 | 8-M10 |
| 70 | 95 | 101 | 110 | 130 | 155 | 102 | 120 | 91 | 51 | 30 | 12 | 76 | 26 | 21 | 2 | 8-M10 |
| 75 | 104 | 110 | 120 | 140 | 165 | 109 | 130 | 91 | 51 | 30 | 12 | 76 | 26 | 21 | 2 | 8-M10 |
| 80 | 109 | 115 | 125 | 150 | 178 | 114 | 130 | 98 | 57 | 31 | 15 | 83 | 27 | 22 | 2 | 8-M12 |
| 85 | 114 | 120 | 130 | 155 | 183 | 120 | 140 | 98 | 57 | 31 | 15 | 83 | 27 | 22 | 2 | 8-M12 |
| 90 | 119 | 125 | 135 | 160 | 188 | 124 | 140 | 98 | 57 | 31 | 15 | 83 | 27 | 22 | 2 | 8-M12 |
| 95 | 124 | 130 | 140 | 165 | 193 | 130 | 150 | 98 | 57 | 31 | 15 | 83 | 27 | 22 | 2 | 8-M12 |
| 100 | 129 | 135 | 145 | 170 | 198 | 134 | 150 | 98 | 57 | 31 | 15 | 83 | 27 | 22 | 2 | 8-M12 |
| 105 | 134 | 140 | 150 | 175 | 203 | 140 | 160 | 98 | 57 | 31 | 15 | 83 | 27 | 22 | 2 | 8-M12 |
| 110 | 139 | 145 | 155 | 180 | 208 | 146 | 165 | 98 | 57 | 31 | 15 | 83 | 27 | 22 | 2 | 8-M12 |
| 120 | 150 | 160 | 170 | 200 | 236 | 160 | 180 | 110 | 63 | 37 | 20 | 95 | 33 | 27 | 3 | 8-M16 |
| 130 | 160 | 170 | 180 | 210 | 246 | 170 | 190 | 110 | 63 | 37 | 20 | 95 | 33 | 27 | 3 | 8-M16 |
| 140 | 175 | 185 | 195 | 225 | 260 | 180 | 200 | 110 | 63 | 37 | 20 | 95 | 33 | 27 | 3 | 8-M16 |
| 150 | 190 | 200 | 210 | 240 | 276 | 200 | 225 | 136 | 85 | 40 | 20 | 120 | 36 | 30 | 3 | 8-M16 |
| 160 | 200 | 210 | 220 | 250 | 286 | 210 | 230 | 136 | 85 | 40 | 20 | 120 | 36 | 30 | 3 | 8-M16 |
| 170 | 210 | 220 | 230 | 260 | 296 | 220 | 250 | 136 | 85 | 40 | 20 | 120 | 36 | 30 | 3 | 8-M16 |
| 180 | 220 | 230 | 240 | 270 | 306 | 230 | 250 | 136 | 85 | 40 | 20 | 120 | 36 | 30 | 3 | 8-M16 |

Dimensions in millimeter



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