

RELY ON EXCELLENCE

## Hot water seal L9AW

Mechanical Seals | Mechanical seals for pumps | Pusher seals



### Features

- Rotating multi-spring pusher seals
- Balanced
- Compact in length
- Uniform seal face loading
- Circlip design for ease of assembly
- Independent of direction of rotation
- Specially designed seal faces prevent dry running

### Advantages

- Reduced operation cost on utilities like cooling water
- Can handle hot water up to 120 °C without cooler or jacket cooling
- Narrow cross-section allows the seal fitment in narrow stuffing boxes

### Operating range

Shaft diameter:  $d = 25 \dots 100 \text{ mm}$  (1" ... 3.94")

Pressure:  $p = \text{vacuum to } 20 \text{ bar}$  (290 PSI)

Temperature:  $t = +120 \text{ °C}$  (+248 °F)

Sliding velocity:  $v_g = 23 \text{ m/s}$  (75 ft/s)

Axial movement:  $\pm 0.5 \text{ mm}$

(Consult EB for applications outside above limits).

### Materials

Seal ring: Carbon graphite antimony impregnated

Mating ring: Silicon carbide

Secondary seals: FKM, FFKM, EPR

Springs: Hastelloy® C-4

Metal parts: SS 316, other materials on request.

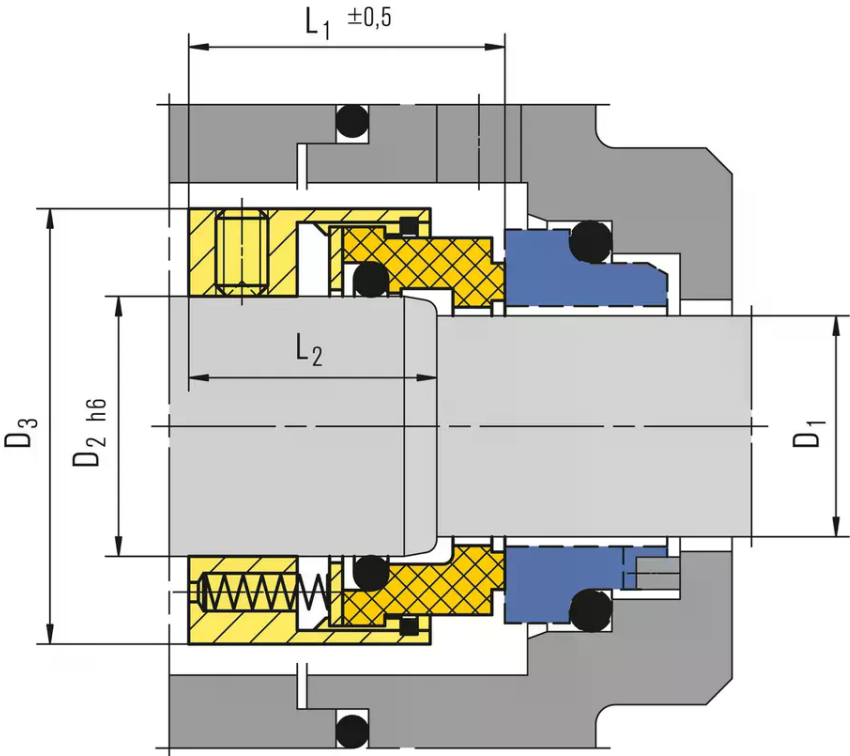
### Recommended applications

- Process industry
- Oil and gas industry
- Refining technology
- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Power plant technology
- Water and waste water technology
- Building services industry
- Food and beverage industry
- Sugar industry
- Horizontal and vertical pumps, agitators, mixers

### Recommended piping plans

API Plans 01, 11, 12, 13, 14, 61, 62

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### Dimensions

| Dash size | D1    | D2    | D3    | L1   | L2   |
|-----------|-------|-------|-------|------|------|
| D016      | 22.23 | 25.40 | 36.5  | 33.5 | 26.0 |
| D018      | 25.40 | 28.58 | 39.7  | 35.0 | 26.0 |
| D020      | 28.58 | 31.75 | 42.9  | 35.0 | 26.0 |
| D022      | 28.58 | 34.93 | 49.2  | 36.5 | 27.0 |
| D024      | 31.75 | 38.10 | 52.4  | 36.5 | 27.0 |
| D026      | 34.93 | 41.28 | 55.6  | 37.3 | 27.0 |
| D028      | 38.10 | 44.45 | 58.7  | 38.1 | 27.0 |
| D030      | 41.28 | 47.63 | 63.5  | 38.1 | 27.0 |
| D032      | 44.45 | 50.80 | 66.7  | 38.1 | 27.0 |
| D034      | 47.62 | 53.98 | 71.4  | 38.1 | 27.0 |
| D036      | 50.80 | 57.15 | 72.2  | 44.5 | 34.0 |
| D038      | 53.98 | 60.32 | 76.2  | 44.5 | 34.0 |
| D040      | 57.15 | 63.50 | 79.4  | 44.5 | 34.0 |
| D042      | 60.32 | 66.67 | 82.6  | 46.8 | 34.0 |
| D044      | 63.50 | 69.85 | 85.7  | 46.8 | 34.0 |
| D046      | 66.67 | 73.02 | 94.7  | 46.8 | 34.0 |
| D048      | 69.85 | 76.20 | 96.8  | 46.8 | 34.0 |
| D050      | 73.02 | 79.37 | 101.6 | 46.8 | 34.0 |
| D052      | 76.20 | 82.55 | 104.8 | 46.8 | 34.0 |
| D054      | 79.37 | 85.72 | 108.0 | 46.8 | 34.0 |
| D056      | 82.55 | 88.90 | 111.1 | 46.8 | 34.0 |
| D058      | 85.72 | 92.08 | 114.3 | 46.8 | 34.0 |
| D060      | 88.90 | 95.25 | 117.5 | 46.8 | 34.0 |
| D062      | 92.08 | 98.43 | 120.7 | 46.8 | 34.0 |
| D064      | 95.25 | 101.6 | 123.8 | 46.8 | 34.0 |

### Imperial size

| Seal size | D1   | D2   | D3   | L1   | L2   |
|-----------|------|------|------|------|------|
| 0025      | 25.0 | 30.0 | 44.0 | 37.5 | 27.5 |
| 0028      | 28.0 | 33.0 | 47.0 | 40.0 | 30.0 |
| 0030      | 30.0 | 35.0 | 49.0 | 40.0 | 30.0 |
| 0032      | 32.0 | 38.0 | 54.0 | 40.0 | 30.0 |
| 0033      | 33.0 | 38.0 | 54.0 | 40.0 | 30.0 |
| 0035      | 35.0 | 40.0 | 56.0 | 40.0 | 30.0 |
| 0038      | 38.0 | 43.0 | 59.0 | 41.5 | 29.5 |
| 0040      | 40.0 | 45.0 | 61.0 | 41.5 | 29.5 |
| 0043      | 43.0 | 48.0 | 64.0 | 41.5 | 29.5 |
| 0045      | 45.0 | 50.0 | 66.0 | 41.5 | 29.5 |
| 0048      | 48.0 | 53.0 | 69.0 | 41.5 | 29.5 |
| 0050      | 50.0 | 55.0 | 71.0 | 44.5 | 32.5 |
| 0053      | 53.0 | 58.0 | 78.0 | 44.5 | 32.5 |
| 0055      | 55.0 | 60.0 | 80.0 | 44.5 | 32.5 |
| 0058      | 58.0 | 63.0 | 83.0 | 49.5 | 37.5 |
| 0060      | 60.0 | 65.0 | 85.0 | 49.5 | 37.5 |
| 0063      | 63.0 | 68.0 | 88.0 | 49.5 | 37.5 |
| 0065      | 65.0 | 70.0 | 90.0 | 49.5 | 37.5 |
| 0070      | 70.0 | 75.0 | 99.0 | 54.7 | 42.0 |

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| Seal size | D1    | D2    | D3    | L1   | L2   |
|-----------|-------|-------|-------|------|------|
| 0075      | 75.0  | 80.0  | 104.0 | 54.7 | 42.0 |
| 0080      | 80.0  | 85.0  | 109.0 | 54.7 | 42.0 |
| 0085      | 85.0  | 90.0  | 114.0 | 59.3 | 47.0 |
| 0090      | 90.0  | 95.0  | 119.0 | 59.3 | 47.0 |
| 0095      | 95.0  | 100.0 | 124.0 | 59.3 | 47.0 |
| 0100      | 100.0 | 105.0 | 129.0 | 59.3 | 47.0 |

Metric size