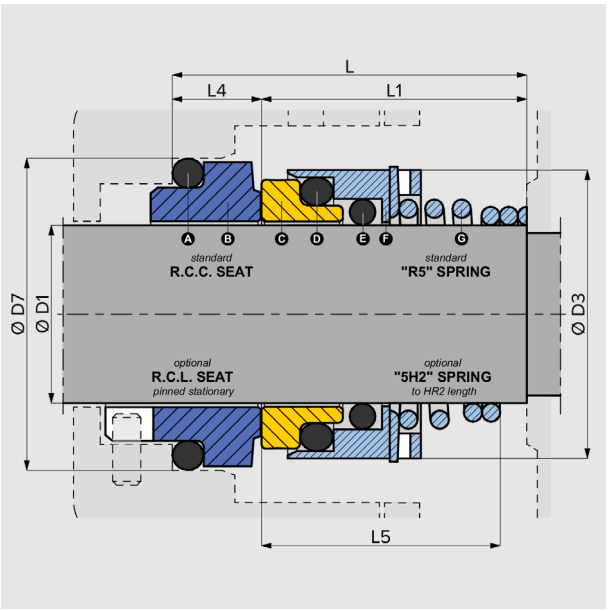
# HR5

'TYPE 5'
## SPECIFICATION SHEET






- **O-ring, Conical-Spring Drive**
- **Shaft Rotation Dependant**
- **Metric Sizes - Italian**

HR5 is a conical spring-driven mechanical seal for metric shafts, based on the industry standard "Type 5" design. It is commonly found in heavy-duty pumps of Italian origin.

The spring provides both axial and rotational force being tightly wound in the direction of the rotating shaft. Left or right-hand winding springs must be specified.

A optional shorter "5H2" spring is available to match working length of HR2, useful when interchanging seals.

An optional "R.C.L." seat is available with an extended tail and anti-rotation pin slot.

- **Operating conditions**[1]

Temperature: -30°C to +200°C
Pressure: < 10 bar, 145 psi, 1 MPa
Speed: < 15m/s, 3000 fpm
rpm < 900000/(3.14 x D1)

- **Material Options**

Rotary Face: SiC or TC
Stationary Face: CAB or SiC
Elastomer: N, V or EP
Metal Parts: 304S.S.

## PARTS

**A** Stationary O-ring
**B** Stationary Face / Ring
**C** Rotary Face / Ring
**D** Rotary O-ring
**E** Rotary O-ring
**F** Rotary Frame
**G** Rotary Conical Spring

## SEAT OPTIONS

R.C.C.: standard, no slot
R.C.L.: extended tail w/ slot

## EQUIVALENT

Type 5 / 5H2
RB305 / RB305N
RB306 / RB306N

## DIMENSIONS

D1 = Shaft Size
L1 / L5 = Rotary W.L.
D7 = Seat Cavity
L4 = Seat Height
D3 = Rotary OD
L = Overall W.L.

| D1 | D3 | D7 | L4 | L1 | L5 | L |
|---|---|---|---|---|---|---|
| **12mm** | 22.0 | 20.6 | 5.5 | 22.0 | 18.0 | 27.5 |
| **16mm** | 28.5 | 26.9 | 7.0 | 28.0 | 23.0 | 35.0 |
| **18mm** | 32.5 | 30.9 | 8.0 | 30.0 | 24.0 | 38.0 |
| **20mm** | 32.5 | 30.9 | 8.0 | 30.0 | 25.0 | 38.0 |
| **22mm** | 37.0 | 35.4 | 8.0 | 30.0 | 25.0 | 38.0 |
| **25mm** | 40.5 | 38.2 | 8.5 | 33.0 | 27.0 | 41.5 |
| **28mm** | 46.5 | 43.3 | 9.0 | 36.0 | 29.0 | 45.0 |
| **33mm** | 56.5 | 53.5 | 11.5 | 48.0 | 39.0 | 59.5 |
| **55mm** | 75.0 | 72.5 | 11.5 | 57.0 | 47.0 | 68.5 |

*Additional sizes not typically stocked, therefore omitted. Contact us for more info.*

[1] Guide-values only (due to diversity of possible applications). Enquire for specific-use cases. Maximum values of each parameter cannot be applied together.


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