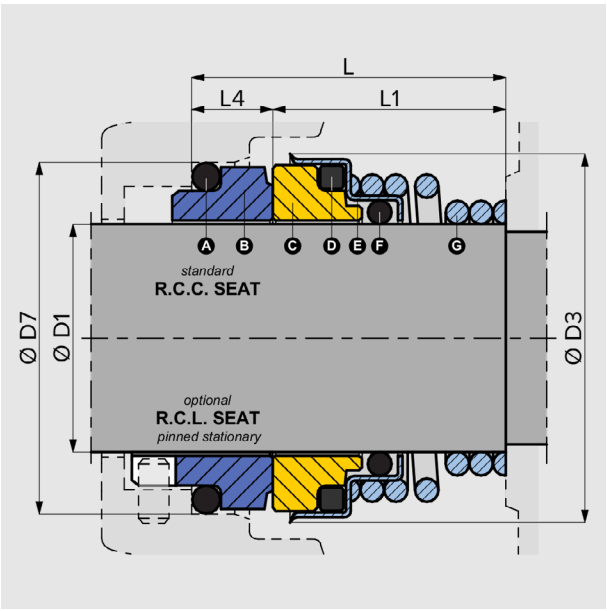
HR3

'TYPE 3 - SIMPLEX'
SPECIFICATION SHEET





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

HR3 is a conical spring-driven mechanical seal for metric shafts, based on the industry standard "Type 3" design. It is commonly found in economical 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.

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:	< 10m/s, 2000 fpm
	rpm < 600000/(3.14 x D1)

- **Material Options**

Rotary Face:	CER or SiC
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 Seal Ring
D Rotary Square-ring
E Rotary Frame
F Rotary O-ring
G Rotary Conical Spring

SEAT OPTIONS

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

EQUIVALENT

Type 3
Simplex
Type 13
T04
BT-FN
43 / P43
SR3
M112K.FR
DIS. A
RB355 / RB355N

DIMENSIONS

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

D1	D3	D7	L4	L1	L
10mm	20.0	18.1	5.5	15.0	20.5
11mm	22.0	20.6	5.5	18.0	23.5
12mm	22.0	20.6	5.5	18.0	23.5
13mm	25.0	23.1	6.0	22.0	28.0
14mm	25.0	23.1	6.0	22.0	28.0
15mm	29.0	26.9	7.0	22.0	29.0
16mm	29.0	26.9	7.0	23.0	30.0
17mm	29.0	26.9	7.0	23.0	30.0
18mm	33.0	30.9	8.0	24.0	32.0
19mm	33.0	30.9	8.0	25.0	33.0
20mm	33.0	30.9	8.0	25.0	33.0
22mm	38.0	35.4	8.0	25.0	33.0
23mm	38.0	35.4	8.0	27.0	35.0
24mm	38.0	35.4	8.0	27.0	35.0
25mm	40.0	38.2	8.5	27.0	35.5
28mm	46.0	43.3	9.0	29.0	38.0
30mm	46.0	43.3	9.0	30.0	39.0
32mm	46.0	43.3	9.0	30.0	39.0
35mm	50.0	53.5	11.5	39.0	50.5
38mm	56.0	60.5	11.5	39.0	50.5
40mm	58.0	60.5	11.5	39.0	50.5

Additional sizes 21mm, 33mm & >40mm not typically stocked, therefore omitted.

[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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