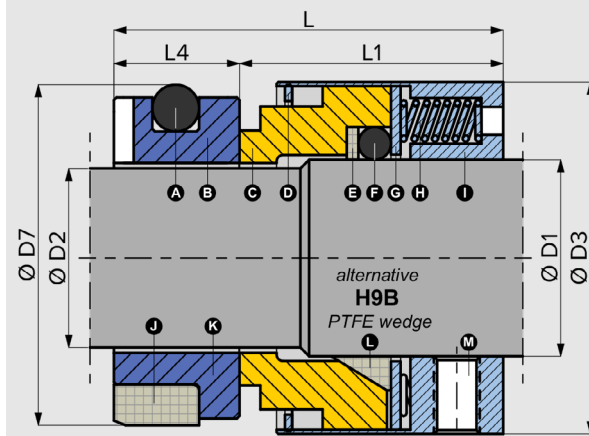


H8B / H9B

'TYPE 8B1 / 9B'

SPECIFICATION SHEET



- **O-ring, Multi-Spring Pusher**
- **To Imperial Dimensions**
- **Balanced**
- **Bi-directional**

H8B is a balanced mechanical seal based on the industry standard "Type 8B1 & 9B" designs for imperial shafts / housings. The multi-spring design ensures even face pressure, minimising face wear whilst also compensating for any shaft misalignment.

Originally designed to use a PTFE wedge (H9B) as the secondary seal, improvements in o-ring materials have made the o-ring version (H8B) more common, due to ease of access and replaceability.

The multi-spring holes are ported to the rear, reducing the risk of spring clogging from product build-up.

An additional rear pin hole allows two units to be mounted back-to-back, forming a double seal.

► Operating conditions¹

Temperature: -40°C to +260°C
 Pressure: < 83 bar, 1200 psi, 8.3 MPa
 Speed: < 25m/s, 5000 fpm
 rpm < 1500000/(79.8 x D1)

► Material Options

Rotary Face: CAB, A1 or SiC
 Stationary Face: 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 Snap Ring
- E Rotary PTFE Spacer Ring
- F Rotary O-ring
- G Rotary Washer
- H Rotary Multi-Springs
- I Rotary Housing
- J Stationary PTFE *optional*
- K H9B - A Seat *optional*
- L H9B - PTFE wedge
- M Rotary Set Screws

SEAT OPTIONS

- OG standard, slot
- A PTFE mounted
- W Euro o-ring

EQUIVALENT

- 8B1 / 9B
- M02SU / M02U
- 1609BS / 1609B
- RB874B / RB875B

DIMENSIONS

D1 / D2 = Shaft Size D3 = Rotary OD D7 = Seat Cavity
 L4 = Seat Height L1 = Rotary W.L. L = Overall W.L.

D1/D2	D3	D7	L4	L1	L
0.625/0.500"	30.8	25.4	8.0	27.0	35.0
0.750/0.625"	34.0	31.8	10.3	30.0	40.3
0.875/0.750"	37.2	35.0	10.3	32.0	42.3
1.000/0.875"	40.3	38.1	10.3	33.0	43.3
1.125/1.000"	43.4	41.3	11.0	35.0	46.0
1.250/1.125"	48.3	44.5	11.0	35.0	46.0
1.375/1.125"	51.3	44.5	11.0	37.0	48.0
1.500/1.250"	54.5	47.7	11.0	37.0	48.0
1.625/1.375"	60.8	50.8	11.0	45.0	56.0
1.750/1.500"	64.0	54.0	11.0	45.0	56.0
1.875/1.625"	67.2	60.3	12.7	45.0	57.7
2.000/1.750"	70.4	63.5	12.7	45.0	57.7
2.125/1.875"	76.7	66.7	12.7	52.0	64.7
2.250/2.000"	79.9	69.9	12.7	52.0	64.7
2.375/2.125"	83.1	76.2	14.3	52.0	66.3
2.500/2.250"	96.2	79.4	14.3	52.0	66.3
2.625/2.375"	89.4	82.6	14.3	52.0	66.3
2.750/2.500"	92.6	85.9	14.3	52.0	66.3
2.875/2.625"	95.8	85.7	16.0	52.0	68.0
3.000/2.750"	97.3	88.9	16.0	52.0	68.0
3.125/2.875"	100.5	95.3	16.0	52.0	68.0
3.250/3.000"	105.3	98.4	16.0	52.0	68.0
3.375/3.125"	108.5	101.6	19.8	52.0	71.8
3.500/3.250"	111.6	104.8	19.8	52.0	71.8
3.625/3.375"	114.8	108.0	19.8	52.0	71.8
3.750/3.500"	118.0	111.2	19.8	52.0	71.8
3.875/3.625"	121.2	114.3	19.8	52.0	71.8
4.000/3.750"	124.3	117.5	19.8	52.0	71.8

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