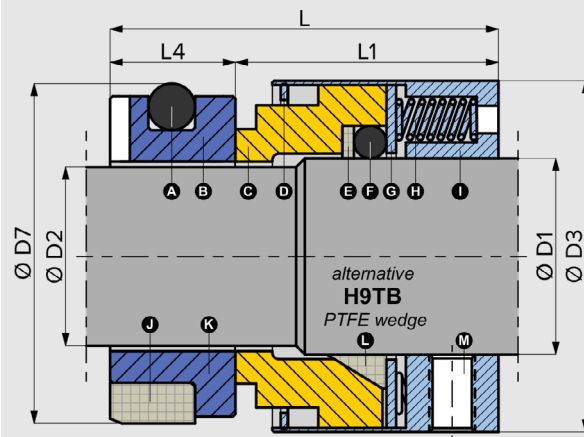


H8TB / H9TB

'TYPE 8B1T / 9BT'

SPECIFICATION SHEET



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

H8TB is a balanced mechanical seal based on the industry standard "Type 8B1T & 9BT" designs for imperial shafts and narrow 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 (H9TB) as the secondary seal, improvements in o-ring materials have made the o-ring version (H8TB) 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: < 35 bar, 500 psi, 3.5 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 H9TB - A Seat *optional*
- L H9TB - PTFE wedge
- M Rotary Set Screws

SEAT OPTIONS

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

EQUIVALENT

- 8B1T / 9BT
- M06SU / M06U
- 1645BS / 1645B
- RB878B / RB879B

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"					
0.750/0.625"	30.2	31.8	10.3	31.7	42.0
0.875/0.750"	33.4	35.0	10.3	31.7	42.0
1.000/0.875"	36.5	38.1	10.3	33.3	43.6
1.125/1.000"	39.7	41.3	11.0	34.9	45.9
1.250/1.125"	42.8	44.5	11.0	34.9	45.9
1.375/1.125"	49.2	44.5	11.0	42.8	53.8
1.500/1.250"	49.2	47.7	11.0	36.5	47.5
1.625/1.375"	57.2	50.8	11.0	40.5	51.5
1.750/1.500"	58.7	54.0	11.0	44.5	55.5
1.875/1.625"	63.5	60.3	12.7	44.5	57.2
2.000/1.750"	66.7	63.5	12.7	44.5	57.2
2.125/1.875"	71.4	66.7	12.7	52.4	65.1
2.250/2.000"	72.2	69.9	12.7	44.5	57.2
2.375/2.125"	76.2	76.2	14.3	52.4	66.7
2.500/2.250"	79.4	79.4	14.3	44.5	58.8
2.625/2.375"	82.6	82.6	14.3	52.4	66.7
2.750/2.500"	85.7	85.9	14.3	52.4	66.7
2.875/2.625"	88.9	85.7	16.0	52.4	68.4
3.000/2.750"	92.1	88.9	16.0	52.4	68.4
3.125/2.875"	95.3	95.3	16.0	52.4	68.4
3.250/3.000"	98.4	98.4	16.0	52.4	68.4
3.375/3.125"	101.6	101.6	19.8	52.4	72.2
3.500/3.250"	104.8	104.8	19.8	52.4	72.2
3.625/3.375"	108.0	108.0	19.8	52.4	72.2
3.750/3.500"	111.1	111.2	19.8	52.4	72.2
3.875/3.625"	114.3	114.3	19.8	52.4	72.2
4.000/3.750"	117.5	117.5	19.8	52.4	72.2

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