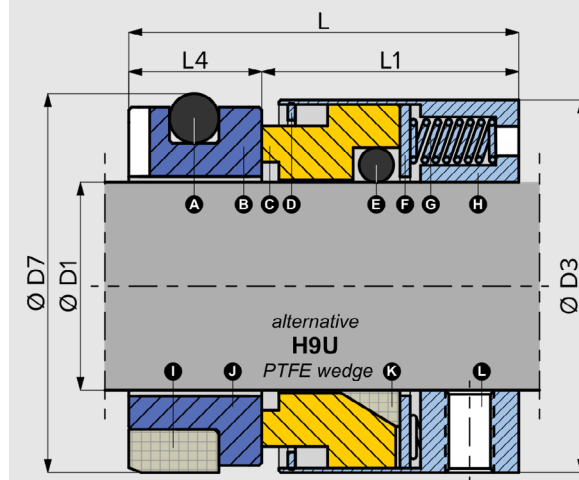


H8U / H9U

'TYPE 8-1 / 9'

SPECIFICATION SHEET



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

H8U is mechanical seal based on the industry standard "Type 8-1 & 9" 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 (H9U) as the secondary seal, improvements in o-ring materials have made the o-ring version (H8U) 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: < 24 bar, 350 psi, 2.4 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 O-ring
- F Rotary Washer
- G Rotary Multi-Springs
- H Rotary Housing
- I Stationary PTFE *optional*
- J H9U - A Seat *optional*
- K H9U - PTFE Wedge
- L Rotary Set Screws

SEAT OPTIONS

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

EQUIVALENT

- 8-1 / 9
- M01SU / M01U
- 1609S / 1609
- RB874 / RB875

DIMENSIONS

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

D1	D3	D7	L4	L1	L
0.500"	26.7	1.000"	25.4	8.0	21.0
0.625"	30.7	1.250"	31.8	10.3	19.0
0.750"	34.0	1.375"	34.9	10.3	22.0
0.875"	37.2	1.500"	38.1	10.3	24.0
1.000"	40.3	1.625"	41.3	11.0	25.0
1.125"	43.5	1.750"	44.5	11.0	27.0
1.250"	48.3	1.875"	47.6	11.0	27.0
1.375"	51.5	2.000"	50.8	11.0	29.0
1.500"	54.6	2.125"	54.0	11.0	29.0
1.625"	61.0	2.375"	60.3	12.7	35.0
1.750"	64.2	2.500"	63.5	12.7	35.0
1.875"	67.3	2.625"	66.7	12.7	35.0
2.000"	70.5	2.750"	69.9	12.7	35.0
2.125"	76.9	3.000"	76.2	14.3	43.0
2.250"	80.0	3.125"	79.4	14.3	43.0
2.375"	83.2	3.250"	82.6	14.3	43.0
2.500"	86.4	3.375"	85.7	14.3	43.0
2.625"	89.6	3.375"	85.7	16.0	43.0
2.750"	92.7	3.500"	88.9	16.0	43.0
2.875"	95.9	3.750"	95.3	16.0	43.0
3.000"	97.5	3.875"	98.4	16.0	43.0
3.125"	100.7	4.000"	101.6	19.8	43.0
3.250"	105.4	4.125"	104.8	19.8	43.0
3.375"	108.6	4.250"	108.0	19.8	43.0
3.500"	111.8	4.375"	111.1	19.8	43.0
3.625"	115.0	4.500"	114.3	19.8	43.0
3.750"	118.1	4.625"	117.5	19.8	43.0
3.875"	121.3	4.750"	120.7	19.8	43.0
4.000"	124.5	4.875"	123.8	19.8	43.0

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