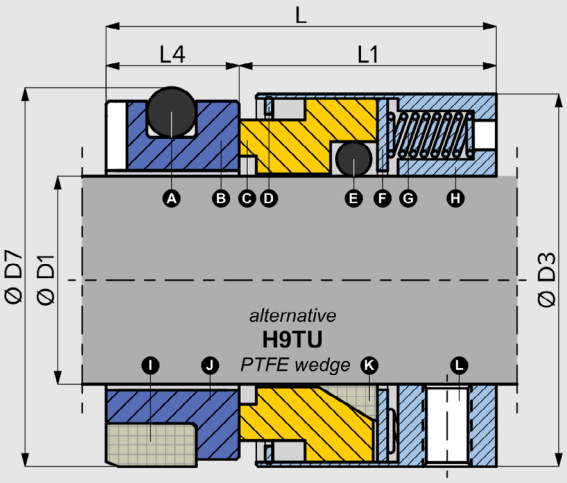
H8TU / H9TU

'TYPE 8-1T / 9T'
SPECIFICATION SHEET



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

H8TU is mechanical seal based on the industry standard "Type 8-1T & 9T" 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 (H9TU) as the secondary seal, improvements in o-ring materials have made the o-ring version (H8TU) 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 conditions[1]

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 H9TU - A Seat *optional*
K H9TU - PTFE Wedge
L Rotary Set Screws

SEAT OPTIONS

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

EQUIVALENT

8-1T / 9T
M05SU / M05U
1645S / 1645
RB878 / RB879

DIMENSIONS

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

D1	D3	D7		L4	L1	L
0.500"	23.8	1.000"	25.4	8.0	23.8	31.8
0.625"	27.0	1.250"	31.8	10.3	23.8	34.1
0.750"	30.1	1.375"	34.9	10.3	23.8	34.1
0.875"	33.3	1.500"	38.1	10.3	23.8	34.1
1.000"	36.5	1.625"	41.3	11.0	25.4	36.4
1.125"	39.7	1.750"	44.5	11.0	25.4	36.4
1.250"	42.8	1.875"	47.6	11.0	25.4	36.4
1.375"	49.2	2.000"	50.8	11.0	34.9	45.9
1.500"	49.2	2.125"	54.0	11.0	28.6	39.6
1.625"	57.2	2.375"	60.3	12.7	29.4	42.1
1.750"	58.7	2.500"	63.5	12.7	34.9	47.6
1.875"	63.5	2.625"	66.7	12.7	34.9	47.6
2.000"	66.7	2.750"	69.9	12.7	34.9	47.6
2.125"	71.4	3.000"	76.2	14.3	42.8	57.1
2.250"	72.2	3.125"	79.4	14.3	34.9	49.2
2.375"	76.2	3.250"	82.6	14.3	42.8	57.1
2.500"	79.4	3.375"	85.7	14.3	34.9	49.2
2.625"	82.6	3.375"	85.7	16.0	42.8	58.8
2.750"	85.7	3.500"	88.9	16.0	42.8	58.8
2.875"	88.9	3.750"	95.3	16.0	42.8	58.8
3.000"	92.1	3.875"	98.4	16.0	42.8	58.8
3.125"	95.3	4.000"	101.6	19.8	42.8	62.6
3.250"	98.4	4.125"	104.8	19.8	42.8	62.6
3.375"	101.6	4.250"	108.0	19.8	42.8	62.6
3.500"	104.8	4.375"	111.1	19.8	42.8	62.6
3.625"	108.0	4.500"	114.3	19.8	42.8	62.6
3.750"	111.1	4.625"	117.5	19.8	42.8	62.6
3.875"	114.3	4.750"	120.7	19.8	42.8	62.6
4.000"	117.5	4.875"	123.8	19.8	42.8	62.6

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