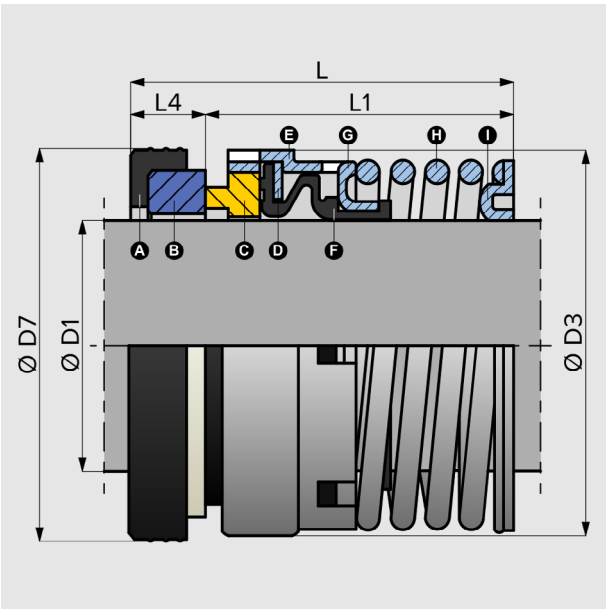
H1US

'TYPE 1'
SPECIFICATION SHEET





- **Diaphragm w/ Drive Band**
- **To US Imperial Dimensions**
- **Long Working Length**
- **Bi-directional**

H1US is a mechanical seal for imperial shafts, based on the historical industry "Type 1" design. It's narrower profile and longer working length suited narrower stuffing boxes originally for gland packing.

A rubber diaphragm is secured to the shaft with a drive band, which serves as both a secondary seal and positive torque transmission.

Mechanical compression on the spring-cap is typically delivered by a shoulder in the shaft / sleeve or setting collar (available separately)

- **Operating conditions[1]**

Temperature: -40°C to +200°C
Pressure: < 12.5 bar, 180 psi, 1.2 MPa
Speed: < 18m/s, 3500 fpm
rpm < 1080000/(79.8 x D1)

- **Material Options**

Rotary Face: CAB or SiC
Stationary Face: CER, SiC or TC
Elastomer: N or V
Metal Parts: 304S.S.

PARTS

A Stationary Cup
B Stationary Face / Ring
C Rotary Face / Ring
D Rotary Disk
E Rotary Retainer
F Rotary Diaphragm
G Rotary Drive Band
H Spring
I Spring Cap

SEAT OPTIONS

CM	standard
OG	o-ring
N (G50)	Euro cup
W	Euro o-ring

EQUIVALENT

Type 1
43 CU Long
P05U
MG901/d_1-G55
220 / P220
P350
RB801

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
0.500"	23.8	1.000"	25.4	8.0	30.2	38.2
0.625"	27.8	1.250"	31.8	10.3	33.3	43.6
0.750"	30.9	1.375"	34.9	10.3	33.3	43.6
0.875"	35.7	1.500"	38.1	10.3	34.9	45.2
1.000"	38.1	1.625"	41.3	11.0	39.7	50.7
1.125"	41.3	1.750"	44.5	11.0	41.3	52.3
1.250"	46.0	1.875"	47.6	11.0	41.3	52.3
1.375"	47.6	2.000"	50.8	11.0	43.1	54.1
1.500"	50.8	2.125"	54.0	11.0	42.8	53.8
1.625"	57.2	2.375"	60.3	12.7	50.8	63.5
1.750"	60.3	2.500"	63.5	12.7	50.8	63.5
1.875"	63.5	2.625"	66.7	12.7	54.0	66.7
2.000"	66.7	2.750"	69.9	12.7	54.0	66.7
2.125"	71.4	3.000"	76.2	14.3	60.3	74.6
2.250"	74.6	3.125"	79.4	14.3	60.3	74.6
2.375"	77.9	3.250"	82.6	14.3	63.5	77.8
2.500"	80.9	3.375"	85.7	14.3	63.5	77.8
2.625"	85.7	3.375"	85.7	16.0	69.9	85.9
2.750"	88.9	3.500"	88.9	16.0	69.9	85.9
2.875"	92.1	3.750"	95.3	16.0	73.0	89.0
3.000"	95.3	3.875"	98.4	16.0	73.0	89.0
3.125"	101.6	4.000"	101.6	19.8	79.4	99.2
3.250"	104.8	4.125"	104.8	19.8	79.4	99.2
3.375"	108.0	4.250"	108.0	19.8	79.4	99.2
3.500"	111.1	4.375"	111.1	19.8	79.4	99.2
3.625"	114.3	4.500"	114.3	19.8	82.6	102.4
3.750"	117.5	4.625"	117.5	19.8	82.6	102.4
3.875"	120.7	4.750"	120.7	19.8	85.7	105.5
4.000"	123.8	4.875"	123.8	19.8	85.7	105.5

[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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