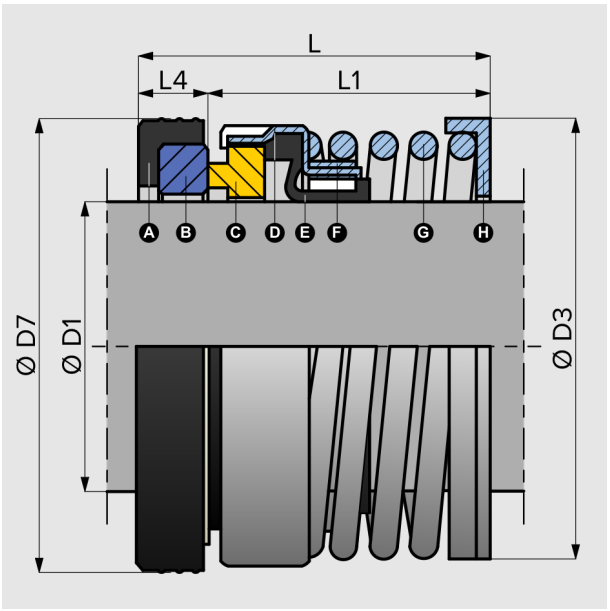
H21

'TYPE 21'
SPECIFICATION SHEET





- **Diaphragm w/ Drive Band**
- **To Imperial Dimensions**
- **General Purpose**
- **Bi-directional**

H21 is a mechanical seal for imperial shafts, based on the industry standard "Type 21" design. It is widely used for its low cost / high efficiency ratio.

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, threaded impeller or setting collar (available separately)

Operating conditions[1]

Temperature:	-30°C to +200°C
Pressure:	< 10 bar, 145 psi, 1 MPa
Speed:	< 13m/s, 2500 fpm
	rpm < 780000/(79.8 x D1)

Material Options

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

PARTS

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

SEAT OPTIONS

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

EQUIVALENT

T21
P04
Type 11
Type 31
MG912/d_1-G55
21A
RB821

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
0.375”	21.0	0.875”	22.2	6.3	22.2	28.5
0.500”	23.0	1.000”	25.4	8.0	22.2	30.2
0.625”	27.0	1.250”	31.8	10.3	22.2	32.5
0.750”	31.0	1.375”	34.9	10.3	22.2	32.5
0.875”	34.0	1.500”	38.1	10.3	24.0	34.3
1.000”	40.0	1.625”	41.3	11.0	25.4	36.4
1.125”	45.0	1.750”	44.5	11.0	27.0	38.0
1.250”	47.0	1.875”	47.6	11.0	27.0	38.0
1.375”	52.0	2.000”	50.8	11.0	28.5	39.5
1.500”	54.0	2.125”	54.0	11.0	28.5	39.5
1.625”	58.0	2.375”	60.3	12.7	35.0	47.7
1.750”	62.0	2.500”	63.5	12.7	35.0	47.7
1.875”	66.0	2.625”	66.7	12.7	38.0	50.7
2.000”	71.0	2.750”	69.9	12.7	38.0	50.7
2.125”	75.0	3.000”	76.2	14.3	43.0	57.3
2.250”	79.0	3.125”	79.4	14.3	43.0	57.3
2.375”	82.0	3.250”	82.6	14.3	46.0	60.3
2.500”	85.0	3.375”	85.7	14.3	46.0	60.3
2.625”	92.0	3.375”	85.7	16.0	49.0	65.0
2.750”	92.0	3.500”	88.9	16.0	49.0	65.0
2.875”	99.0	3.750”	95.3	16.0	52.5	68.5
3.000”	99.0	3.875”	98.4	16.0	52.5	68.5
3.125”	106.0	4.000”	101.6	19.8	55.6	75.4
3.250”	110.0	4.125”	104.8	19.8	55.6	75.4
3.375”	111.0	4.250”	108.0	19.8	55.6	75.4
3.500”	117.0	4.375”	111.1	19.8	55.6	75.4
3.625”	122.0	4.500”	114.3	19.8	58.7	78.5
3.750”	122.0	4.625”	117.5	19.8	58.7	78.5
3.875”	128.0	4.750”	120.7	19.8	61.9	81.7
4.000”	129.0	4.875”	123.8	19.8	61.9	81.7

[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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