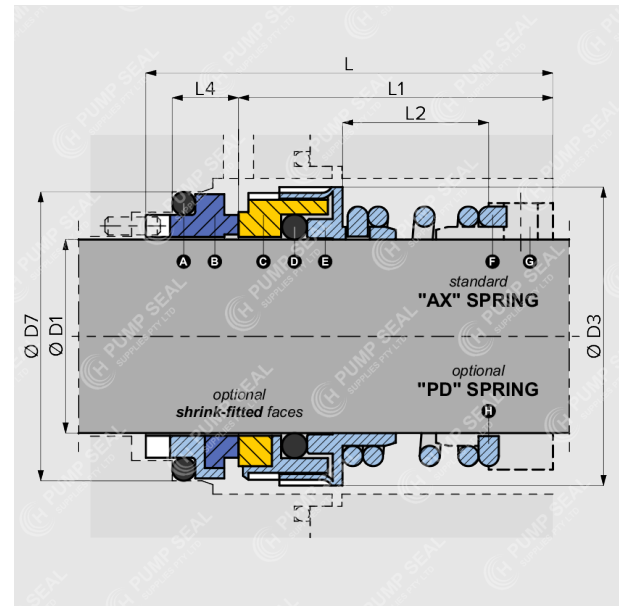


H103U

'TYPE 103'

SPECIFICATION SHEET



- **O-Ring, Parallel-Spring Drive**
- **To PRC JB/T 1472 Standards**
- **Unbalanced**
- **Clockwise Shaft Rotation Only**

H103U is a JB/T 1472 compliant unbalanced mechanical seal for metric shafts, based on the Chinese Machinery Industry Standard "Type 103".

A right-hand wound parallel spring is legged 90° axially at the end coil ("AX" Spring), slotting into a collar which drives the seal (**excluded**). Due to coil direction, it is only usable for clockwise-rotating shafts.

An alternative ("PD" Spring) is available which is legged 90° perpendicularly, for other drive collars.

The seal faces are available standard with solid (monolithic) faces. Alternative shrink-fitted faces are available.

► Operating conditions¹

Temperature: -20°C to +200°C
 Pressure: < 8 bar, 116 psi, 0.8 MPa
 Speed: < 13m/s, 2560 fpm
 rpm < 780000/(3.14 x D1)

► Material Options

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

PARTS

- A Stationary O-ring
- B Stationary Face / Ring
- C Rotary Face / Ring
- D Rotary O-ring
- E Rotary Holder
- F Rotary "AX" Spring
- G **excluded** Drive Collar
- H Rotary "PD" Spring

SEAT

S18 standard

EQUIVALENT

JB/T 1472 - Type 103

DIMENSIONS

D1 = Shaft Size D3 = Rotary OD L2 = Spring W.L.
 D7 = Seat Cavity L4 = Seat Height L1 / L = JB/T 1472 norm.

D1	D3	L2	D7	L4	L1	L
16mm	33.0	12.0	33.0	12.0	40.0	56.0
18mm	35.0	16.0	36.0	12.0	44.0	60.0
20mm	37.0	16.0	40.0	14.0	44.0	63.0
22mm	39.0	20.0	42.0	14.0	48.0	67.0
25mm	42.0	20.0	45.0	14.0	48.0	67.0
28mm	45.0	22.0	48.0	14.0	50.0	69.0
30mm	52.0	22.0	50.0	14.0	56.0	75.0
35mm	57.0	26.0	55.0	14.0	60.0	79.0
40mm	62.0	30.0	60.0	14.0	64.0	83.0
45mm	67.0	36.0	65.0	14.0	71.0	90.0
50mm	72.0	40.0	70.0	14.0	75.0	94.0
55mm	77.0	42.0	75.0	14.0	77.0	96.0
60mm	82.0	42.0	80.0	14.0	77.0	96.0
65mm	92.0	50.0	90.0	17.0	89.0	111.0
70mm	97.0	52.0	97.0	19.0	91.0	116.0
75mm	102.0	52.0	102.0	19.0	91.0	116.0
80mm	107.0	59.0	107.0	19.0	98.0	123.0
85mm	112.0	59.0	112.0	19.0	100.0	125.0
90mm	117.0	60.0	117.0	19.0	101.0	126.0
95mm	122.0	60.0	122.0	19.0	101.0	126.0
100mm	127.0	60.0	127.0	19.0	101.0	126.0
110mm	141.0	80.0	142.0	21.0	126.0	153.0
120mm	151.0	80.0	152.0	21.0	126.0	153.0

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