

Double Mechanical Seal

For Top / Side Entry Agitators, Vessels and Mixers

Double Acting, Independent of Direction of Rotation

Mechanical Seal

Series 95B/95B/CK & 95B/90B/CK

Standard Style

Face Materials :

Carbon / Ceramic,
Silicon Carbide, Tungsten Carbide, Lecrolloy

Metal Parts :

SS 316, SS 304, Carbon Steel, Hastelloy-B,
Hastelloy-C, Monel, Alloy - 20

Secondary Seals :

95B/95B : PTFE, GFT

95B/90B : Inboard - PTFE, GFT
: Outboard - Elastomers

Applications:

- Petrochemicals and its vapours
- General Chemicals and its vapours
- Light hydrocarbons and its vapours

Seal Characteristics:

- Double acting Back to Back Seals
- Balanced
- Cartridge Unit
- Independent of Direction of Rotation
- Operated with Pressurised Barrier Fluid

Operating Limits:

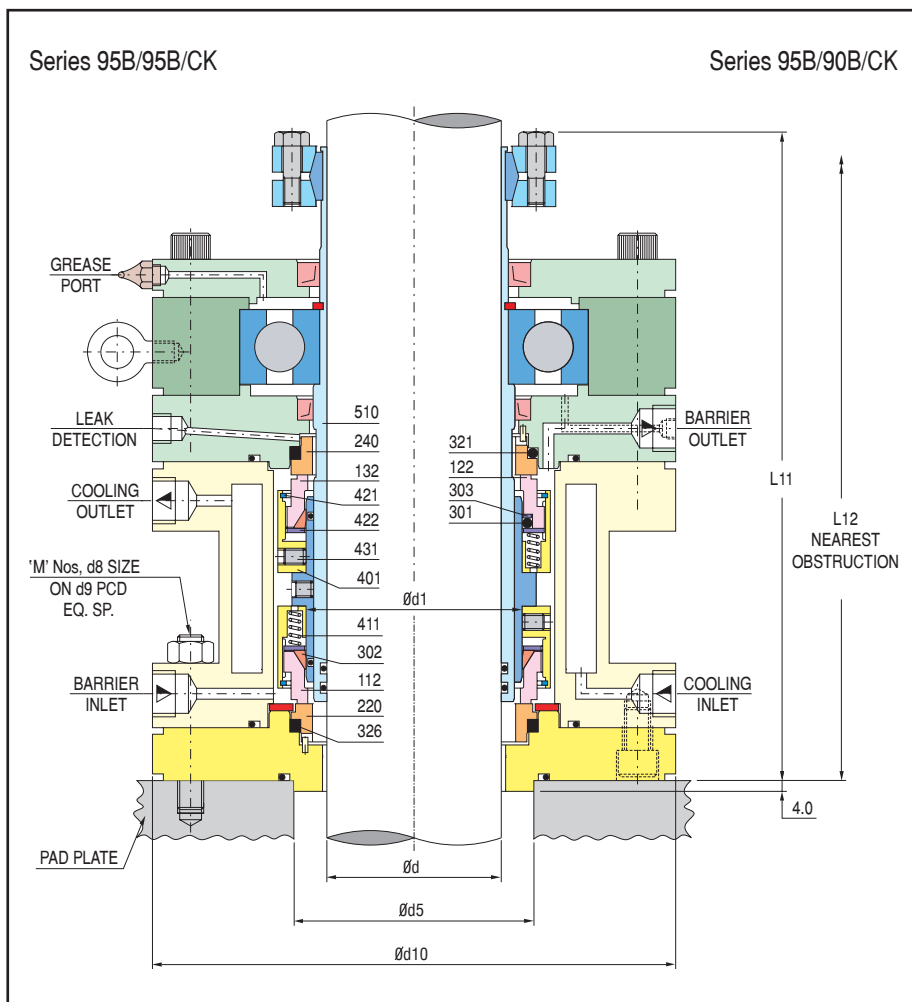
Shaft Diameter d : 25150mm*
Pressure p : Vacuum 35 bar (max)
Temperature t : Amb. ... 200^oc (max)
Shaft speed n : 600 rpm. (max)
Barrier fluid pressure : Vessel pressure + 1.5 bar



Series 95B/95B/CK & 95B/90B/CK are factory assembled cartridge units used on mixtures, agitators and reaction vessels. The seals are designed for handling severe services including products emitting toxic vapours during reaction process. The design incorporates bearing located very close to the seal. This standard feature effectively arrests the shaft whip for smooth and trouble free operation enabling enhanced seal life. The cooling jacket, also a standard feature, helps to maintain cool environment around the seal. Large clearance between rotating shaft/sleeve and mating ring permits higher deflection of the shaft, invariably associated with top entry agitators.

Part No. Description

- 112 Seal Ring
- 122 Seal Ring
- 132 Seal Ring
- 220 Mating Ring
- 240 Mating Ring
- 301 O-Ring
- 302 Wedge
- 303 Back-up Ring
- 321 O-Ring
- 326 M. R. Packing
- 401 Retainer
- 411 Spring
- 421 Snap Ring
- 422 Thrust Ring
- 431 Grub Screw
- 510 Sleeve



SHAFT d ^{g6} mm	SEAL SIZE d1 ^{+0.00/-0.05} inch	d5 ^{H12}	M,d8	d9	d10	L11	L12
25.0	1.625	75.0	4, M10	130.0	150.0	240.0	280.0
30.0	1.875	80.0	4, M10	135.0	155.0	240.0	280.0
35.0	2.000	85.0	4, M10	140.0	160.0	240.0	280.0
40.0	2.250	90.0	4, M10	145.0	165.0	246.0	290.0
45.0	2.500	95.0	4, M10	155.0	175.0	246.0	290.0
50.0	2.625	100.0	4, M10	155.0	175.0	246.0	290.0
55.0	2.875	105.0	6, M12	175.0	200.0	280.0	320.0
60.0	3.125	110.0	6, M12	180.0	205.0	280.0	320.0
65.0	3.375	115.0	6, M12	185.0	210.0	280.0	320.0
70.0	3.500	120.0	6, M12	190.0	215.0	285.0	325.0
75.0	3.750	125.0	6, M12	195.0	220.0	285.0	325.0
80.0	3.875	130.0	6, M12	200.0	225.0	285.0	325.0

SHAFT d ^{g6} mm	SEAL SIZE d1 ^{+0.00/-0.05} inch	d5 ^{H12}	M,d8	d9	d10	L11	L12
85.0	4.250	135.0	8, M16	220.0	250.0	290.0	330.0
90.0	4.500	140.0	8, M16	225.0	255.0	305.0	345.0
95.0	4.875	145.0	8, M16	245.0	275.0	350.0	390.0
100.0	5.000	160.0	8, M16	250.0	280.0	350.0	390.0
105.0	5.250	165.0	8, M16	255.0	285.0	350.0	390.0
110.0	5.375	170.0	8, M16	260.0	290.0	355.0	395.0
115.0	5.625	175.0	8, M16	265.0	300.0	355.0	395.0
120.0	5.750	180.0	8, M16	270.0	300.0	355.0	395.0
125.0	6.000	195.0	8, M16	275.0	320.0	355.0	395.0
130.0	6.250	200.0	8, M16	280.0	320.0	380.0	420.0
140.0	6.625	210.0	8, M16	295.0	345.0	385.0	425.0
150.0	7.000	220.0	8, M16	300.0	365.0	385.0	425.0

*For seal sizes above 150.0 mm consult **Leak-Proof**