Sealen ENGINEERING

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ISO 9001 : 2015
CERTIFIED COMPANY

Double Unbalanced Mechanical Seal (DUS 910 Series & DUS 915 Series)

DUS 910

DUS 915

Double Unbalanced Mechanical Seal DUS 910 Series & DUS 915 Series are factory assembled cartridge units used on mixers, agitators & reactors. This seals are designed for handling severe services including roducts emitting toxic vapours during reaction process. The designs 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 the rotating shaft/sleeve and mating ring permits higher deflection of the shaft, invariably associated with top entry agitators.

Applications : Petrochemicals, General Chemicals & Light Hydrocarbons, Emitting Vapour & Pharmaceutical Industries.

Seal Components :

Seal Face :

Carbon / Ceramic
Carbon / Silicon Carbide
Carbon / Tungsten Carbide

Secondary Seal :

DUS 910 Series : PTFE, GFT

DUS 915 Series : Inboard -PTFE, GFT
Outboard-Elastomers

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

Seal Characteristics :

- Double Acting Back to Back
- Unbalanced
- Cartridge Unit
- Independent of Direction of Rotation
- Operated with Pressurised Barrier Fluid

Operating Parameters :

Shaft Dia	: 25 to 150 mm
Pressure	: Vacuum to 10 Bars (max)
Temperature	: Ambient to +200^{o}C
Speed	: Up to 600 rpm
Barrier Fluid Pressure	: Vessel Pressure +1.5 Bar

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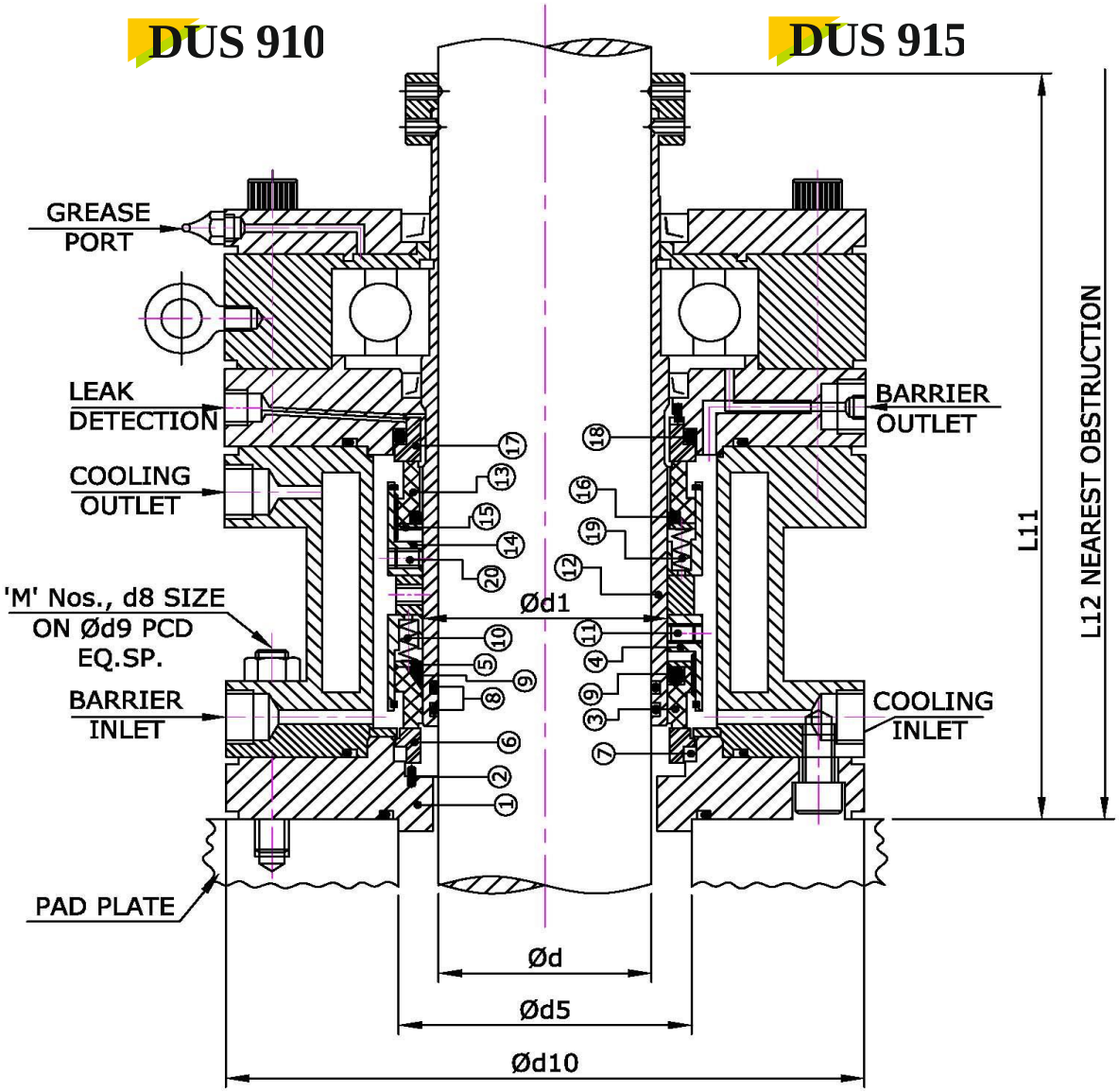
DUS 910

DUS 915



ITEM	DESCRITION	ITEM	DESCRITION
1	GLAND	11	SET SCREW
2	PIN	12	SLEEVE
3	INBOARD SEAL RING	13	OUTBOARD SEAL RING
4	INBOARD RETAINER	14	OUTBOARD RETAINER
5	THRUST RING	15	THRUST RING
6	INBOARD MATING RING	16	WEDGE / O RING
7	PTFE PACKING	17	OUTBOARD MATING RING
8	O RING	18	O RING / PTFE PACKING
9	WEDGE / O RING	19	SPRING
10	SPRING	20	SET SCREW

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DUS 910 & DUS 915 DIMENIONS IN MILLIMETER

SHAFT SIZE d g6	SEAL SIZE d1 +0.00 -0.05	d5 H12	M,d8	d9	d10	L11	L12
25.0	35.0	75.0	4,M10	130.0	150.0	240.0	280.0
30.0	41.5	80.0	4,M10	135.0.	155.0	240.0	280.0
35.0	44.5	85.0	4,M10	140.0	160.0	240.0	280.0
40.0	50.8	90.0	4,M10	145.0	165.0	245.0	290.0
45.0	54.0	95.0	4,M10	155.0	175.0	245.0	290.0
50.0	60.5	100.0	4,M10	155.0	175.0	245.0	290.0
55.0	67.0	105.0	6,M12	175.0	200.0	280.0	320.0
60.0	70.0	110.0	6,M12	180.0	205.0	280.0	320.0
65.0	76.5	115.0	6,M12	185.0	210.0	280.0	320.0
70.0	82.5	120.0	6,M12	190.0	215.0	285.0	325.0
75.0	86.0	125.0	6,M12	195.0	220.0	285.0	325.0
80.0	92.0	130.0	6,M12	200.0	225.0	285.0	325.0
85.0	95.5	135.0	8,M16	220.0	250.0	290.0	330.0
90.0	101.5	140.0	8,M16	225.0	255.0	305.0	345.0
95.0	105.0	145.0	8,M16	245.0	275.0	350.0	390.0
100.0	111.0	160.0	8,M16	250.0	280.0	350.0	390.0
105.0	114.3	165.0	8,M16	255.0	285.0	350.0	390.0
110.0	120.5	170.0	8,M16	260.0	290.0	355.0	395.0
115.0	127.0	175.0	8,M16	265.0	300.0	355.0	395.0
120.0	130.2	180.0	8,M16	270.0	300.0	355.0	395.0
125.0	136.5	195.0	8,M16	275.0	320.0	355.0	420.0
130.0	139.7	200.0	8,M16	280.0	320.0	380.0	425.0
135.0	146.0	205.0	8,M16	290.0	335.0	380.0	425.0
140.0	152.5	210.0	8,M16	295.0	345.0	385.0	425.0
145.0	155.5	215.0	8,M16	300.0	355.0	385.0	425.0
150.0	162.0	220.0	8,M16	300.0	365.0	385.0	425.0