



High Pressure Balanced Cartridge Seal (HPB/C 280 Series)

HPB/C 280



Cartridge Balanced Seal HPB/C 280 Series is a specially designed cartridge seal for pumps handling oil, water and other fluids which are being pumped at very high pressure. These seals are widely used in pipeline pumps and boiler feed water pumps. Very sturdy design and drive arrangement makes the seal suitable for very high pressure. This being a multiple spring seal, it provides uniform face loading.

Applications : Oil Pipeline Pumps and Boiler Feed Water Pumps.

Seal Components :

Seal Face :

Carbon / Silicon Carbide
Carbon / Tungsten Carbide
Silicon Carbide / Silicon Carbide
Tungsten Carbide / Tungsten Carbide

Secondary Seal : Elastomers, TCV

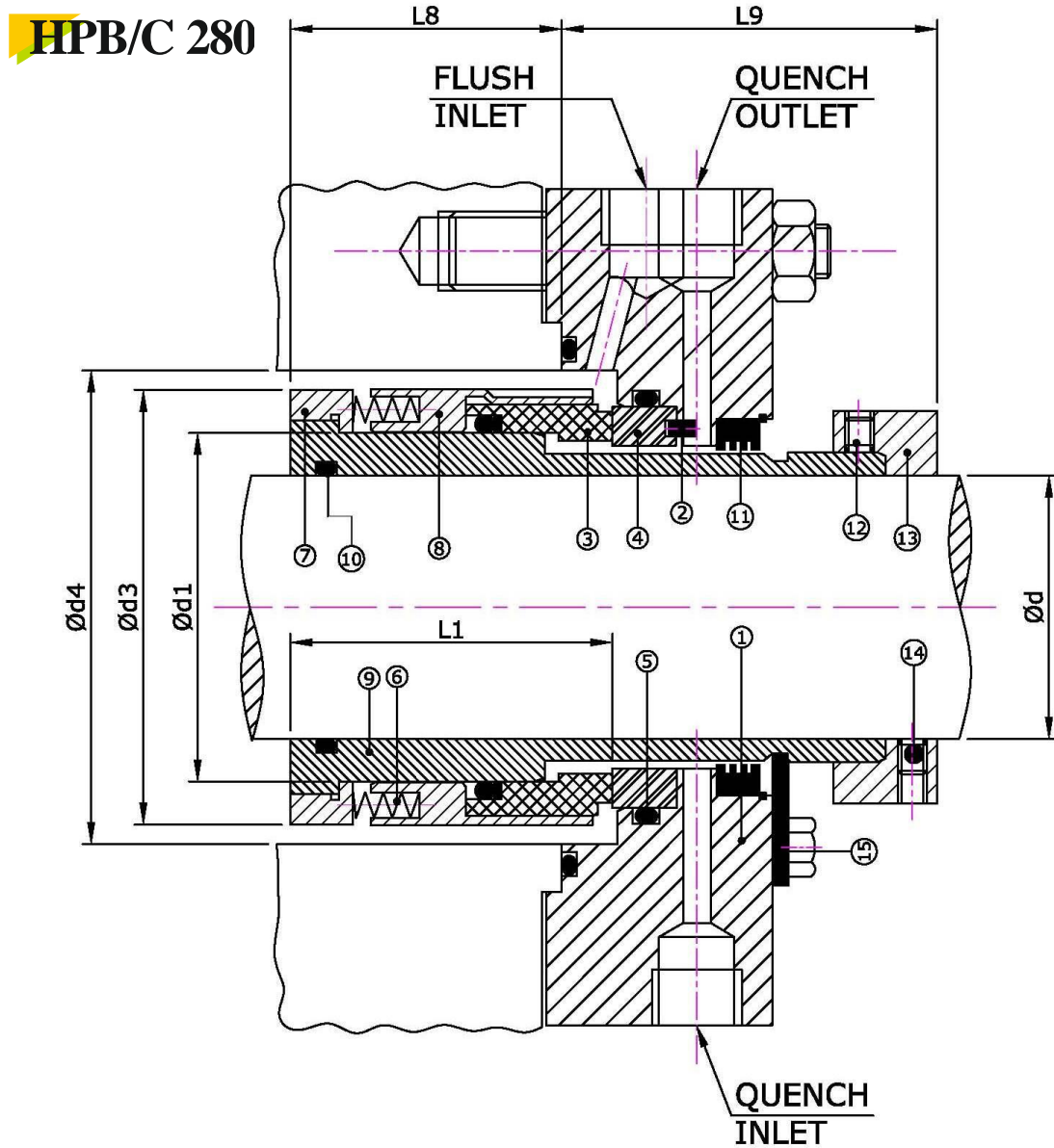
Metal Parts : SS 304, SS 316, Hastelloy-C, Titanium, Monel, Alloy-20

Seal Characteristics :

- Single Acting Balanced
- Inside Mounted
- Independent Of Direction Of Rotation
- Multiple Spring Design
- Sturdy Drive Mechanism

Operating Parameters :

Shaft Dia : 1.000 to 4.500 Inch
Pressure : 25 to 150 Bars (max)
Temperature : -40 to +180°C
Velocity : Up to 20 m/sec



ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	GLAND	9	SLEEVE
2	PIN	10	O RING
3	SEAL RING	11	THROTTLE BUSH
4	MATING RING	12	SET SCREW
5	O RING	13	DRIVE COLLAR
6	SRING	14	SET SCREW
7	SPRING HOLDER	15	LOCATION PLATE
8	RETAINER		



HPB/C 280 DIMENSIONS IN INCH

SHAFT SIZE		SEAL SIZE					
d g ⁶		+0.00 d1 -0.05	d3	d4	L1	L8	L9
Inch	mm						
1.000	25.40	36.50	54.0	58.0	59.5	48.0	75.0
1.125	28.58	41.28	57.5	61.5	59.5	48.0	75.0
1.250	31.75	44.45	60.5	64.5	59.5	48.0	75.0
1.375	34.93	47.62	63.5	67.5	59.5	48.0	75.0
1.500	38.10	50.80	67.0	71.0	59.5	48.0	75.0
1.625	41.28	53.98	70.0	74.0	59.5	48.0	75.0
1.750	44.45	57.15	73.0	77.0	59.5	48.0	75.0
1.875	47.62	60.32	76.5	80.5	59.5	50.0	75.0
2.000	50.80	63.50	79.5	83.5	59.5	50.0	75.0
2.125	53.98	66.68	86.0	90.0	64.5	53.0	79.0
2.250	57.15	69.85	89.0	93.0	64.5	53.0	79.0
2.375	60.32	73.02	92.5	96.5	64.5	53.0	79.0
2.500	63.50	76.20	95.5	99.5	64.5	53.0	79.0
2.625	66.68	79.38	98.5	102.5	64.5	53.0	79.0
2.750	69.85	82.55	102.0	106.0	64.5	53.0	79.0
2.875	73.02	85.72	105.0	109.0	64.5	56.0	79.0
3.000	76.20	88.90	108.0	112.0	64.5	56.0	90.0
3.125	79.37	98.42	116.0	120.0	69.5	56.0	90.0
3.250	82.55	101.60	119.0	123.0	69.5	56.0	90.0
3.375	85.72	104.78	122.5	126.5	69.5	56.0	90.0
3.500	88.90	107.95	125.5	130.5	69.5	56.0	90.0
3.625	92.07	111.13	129.0	134.0	69.5	56.0	90.0
3.750	95.25	114.30	132.0	137.0	69.5	56.0	90.0
3.875	98.42	117.48	135.0	140.0	69.5	56.0	90.0
4.000	101.60	120.65	138.5	143.5	69.5	56.0	90.0
4.125	104.77	123.83	146.5	151.5	74.0	60.5	90.0
4.250	107.95	127.00	149.5	154.5	74.0	60.5	90.0
4.375	111.12	130.18	152.5	157.5	74.0	60.5	90.0
4.500	114.30	133.35	156.0	161.0	74.0	60.5	90.0