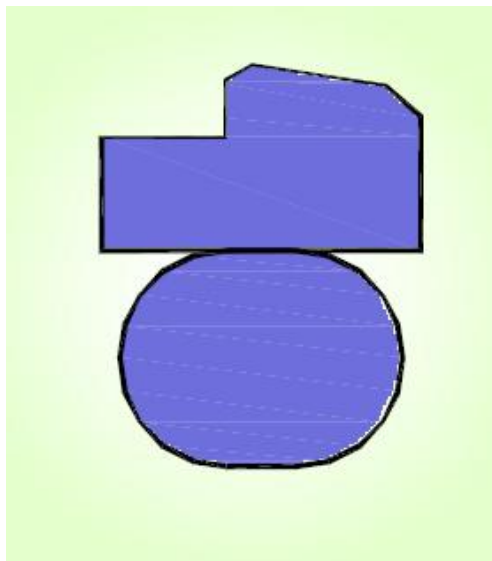
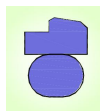


H33 活塞密封



单向活塞密封



H33 活塞密封

1.说明

H33 活塞密封是单向作用的活塞密封，由一个阶梯形的填充聚四氟乙烯密封环和一个 O 形圈组成。O 形圈提供初始密封所需的预紧力，保证在低压时的密封性能，高压时 O 形圈被系统流体挤压，推着密封环靠紧密封面而增加密封力。

2.应用

广泛应用于高压和中压以及重载工况下的液压往复运动系统，适合各种行程以及范围较广的流体和高温场合，可适用较大的活塞间隙。特别推荐用在活塞式蓄能器中作为压力油一侧的第一道密封与 H36 或 H38 型密封圈一起使用。可用于注塑机、叉车、农业机械、推土机、挖掘机、锻压机、陶瓷压砖机、轧钢机、伺服阀及机床等。

3.优点

- 优异的动静密封性能
- 摩擦力小，起动力低，运行平稳，无爬行及粘滞现象
- 可允许较大的挤出间隙，在有污物的介质中可安全使用
- 安装尺寸紧凑，沟槽结构简单，易于安装
- 不会发生困压，可多只串联安装
- 对强冲击压力有优异的缓冲作用
- 可选材料多，可适用于大多数液压介质，以及宽广的温度和压力范围

4.标准材料

密封环：填充聚四氟乙烯 F013

O 形圈：丁腈橡胶 NBR70

5.其它适用材料

详见密封材料一览表。

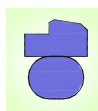
6.安装倒角

活塞密封件通常是过盈配合，因此，为了避免在安装过程中损坏密封件，应该在缸孔上加工安装倒角，倒角角度 β 为 15° – 20° ，倒角长度尺寸 C 如下：

序列号	A	B	C	D	E	F	G	H
C min.	2	3	4	5	7	7	8	12

7.表面粗糙度

表面粗糙度	Ra	Rz	Rmax.
配合表面 μm	0.05-0.3	<1.6	<2.5
沟槽表面 μm	<1.6	<10.0	<16.0



8. 工况要求

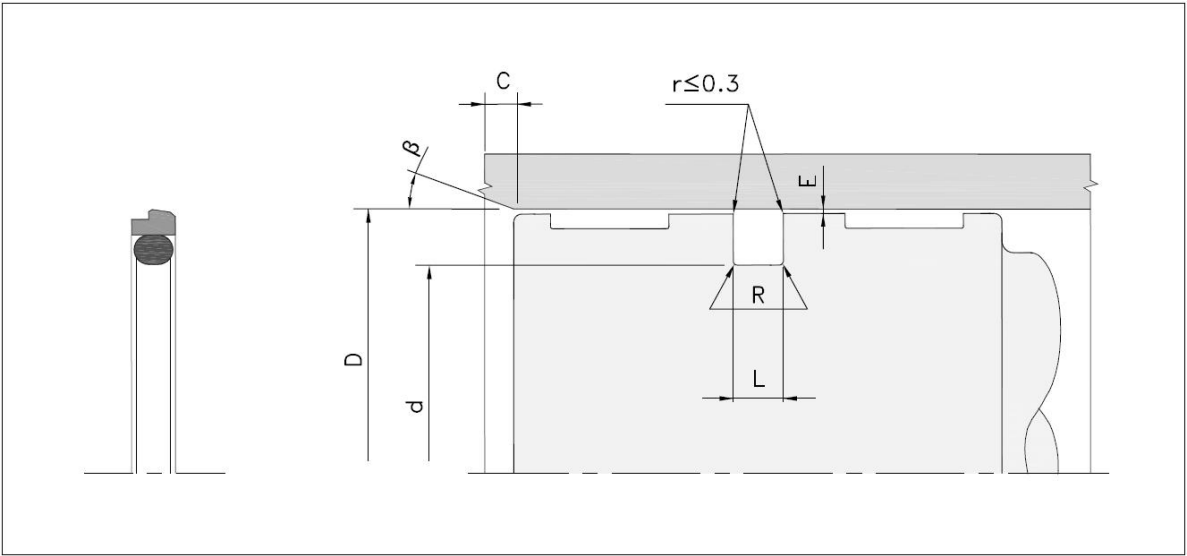
压力：≤60MPa
速度：≤15m/s
温度：-45℃~+200℃（取决于 O 形圈材料）
介质：矿物液压油，抗燃液压油，环保液压油，水、空气和大多数的润滑油、油脂

9. 订货示例

缸筒内径： 100mm
沟槽尺寸： 100x84.9x6.3
密封环材料： F013
O 形圈材料： NBR70
订货号 H33 D 01000 - F013 N

型号				
系列号				
缸筒内径 X10				
材料（密封环）				
材料（O 形圈）				

10. 安装尺寸参数



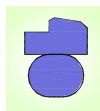
系列号	缸筒内径 D H9	沟槽直径	沟槽宽度	圆角	径向间隙 E max.			O 形圈截面
	推荐标准缸径范围	d h9	L ^{+0.2}	R max.	10MPa	20MPa	40MPa	
A	8.0~16.9	D-4.9	2.2	0.4	0.30	0.20	0.15	1.78
B	16.99~26.9	D-7.3	3.2	0.6	0.40	0.25	0.15	2.62
C	26.99~59.9	D-10.7	4.2	0.8	0.40	0.25	0.20	3.53
D	60.0~199.9	D-15.1	6.3	1.2	0.50	0.30	0.20	5.33
E	200.0~255.9	D-20.5	8.1	1.5	0.60	0.35	0.25	6.99
F	256.0~669.9	D-24.0	8.1	1.5	0.60	0.35	0.25	6.99
G	670.0~999.9	D-27.3	9.5	2.7	0.70	0.50	0.30	8.40
H	≧1000.0	D-38.0	13.8	3.0	1.00	0.70	0.60	12.00

11.规格尺寸表

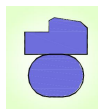
订货号	缸筒内径 D H9	沟槽直径 d h9	沟槽宽度 L ^{+0.2}	O 形圈尺寸
H33A00080	8.0	3.1	2.2	3.68x1.78
H33A00100	10.0	5.1	2.2	4.80x1.80
H33A00120	12.0	7.1	2.2	6.70x1.80
H33A00140	14.0	9.1	2.2	8.75x1.80
H33A00150	15.0	10.1	2.2	9.25x1.78
H33A00160	16.0	11.1	2.2	10.82x1.78
H33B00180	18.0	10.7	3.2	9.19x2.62
H33B00200	20.0	12.7	3.2	12.37x2.62
H33B00220	22.0	14.7	3.2	13.94x2.62
H33B00250	25.0	17.7	3.2	17.12x2.62
H33C00280	28.0	17.3	4.2	15.54x3.53
H33C00300	30.0	19.3	4.2	18.66x3.53
H33C00320	32.0	21.3	4.2	20.22x3.53
H33C00350	35.0	24.3	4.2	23.40x3.53
H33C00400	40.0	29.3	4.2	28.17x3.53
H33C00420	42.0	31.3	4.2	29.75x3.53
H33C00450	45.0	34.3	4.2	32.92x3.53
H33C00480	48.0	37.3	4.2	36.09x3.53
H33C00500	50.0	39.3	4.2	37.70x3.53
H33C00520	52.0	41.3	4.2	40.87x3.53
H33C00550	55.0	44.3	4.2	44.04x3.53
H33D00600	60.0	44.9	6.3	43.82x5.33
H33D00630	63.0	47.9	6.3	46.99x5.33
H33D00650	65.0	49.9	6.3	46.99x5.33
H33D00700	70.0	54.9	6.3	53.34x5.33



H33D00750	75.0	59.9	6.3	56.52x5.33
H33D00800	80.0	64.9	6.3	62.87x5.33
H33D00850	85.0	69.9	6.3	69.22x5.33
H33D00900	90.0	74.9	6.3	72.39x5.33
H33D00950	95.0	79.9	6.3	78.74x5.33
H33D01000	100.0	84.9	6.3	81.92x5.33
H33D01050	105.0	89.9	6.3	88.27x5.33
H33D01100	110.0	94.9	6.3	91.44x5.33
H33D01150	115.0	99.9	6.3	97.79x5.33
H33D01200	120.0	104.9	6.3	104.14x5.33
H33D01250	125.0	109.9	6.3	107.32x5.33
H33D01300	130.0	114.9	6.3	113.67x5.33
H33D01350	135.0	119.9	6.3	120.02x5.33
H33D01400	140.0	124.9	6.3	123.19x5.33
H33D01450	145.0	129.9	6.3	129.54x5.33
H33D01500	150.0	134.9	6.3	132.72x5.33
H33D01550	155.0	139.9	6.3	135.89x5.33
H33D01600	160.0	144.9	6.3	142.24x5.33
H33D01650	165.0	149.9	6.3	148.49x5.33
H33D01700	170.0	154.9	6.3	151.77x5.33
H33D01750	175.0	159.9	6.3	158.12x5.33
H33D01800	180.0	164.9	6.3	164.47x5.33
H33D01900	190.0	174.9	6.3	170.82x5.33
H33E02000	200.0	179.5	8.1	177.17x6.99
H33E02100	210.0	189.5	8.1	183.52x6.99
H33E02200	220.0	199.5	8.1	196.22x6.99
H33E02300	230.0	209.5	8.1	208.92x6.99
H33E02400	240.0	219.5	8.1	215.27x6.99
H33E02500	250.0	229.5	8.1	227.97x6.99
H33F02600	260.0	236.0	8.1	227.97x6.99
H33F002700	270.0	246.0	8.1	240.67x6.99
H33F02800	280.0	256.0	8.1	253.37x6.99
H33F02900	290.0	266.0	8.1	266.07x6.99
H33F03000	300.0	276.0	8.1	266.07x6.99
H33F03100	310.0	286.0	8.1	278.77x6.99
H33F03200	320.0	296.0	8.1	291.47x6.99
H33F03300	330.0	306.0	8.1	304.17x6.99
H33F03400	340.0	316.0	8.1	316.87x6.99
H33F03500	350.0	326.0	8.1	316.87x6.99
H33F03600	360.0	336.0	8.1	329.57x6.99
H33F03700	370.0	346.0	8.1	342.27x6.99



H33F03800	380.0	356.0	8.1	354.97x6.99
H33F03900	390.0	366.0	8.1	367.67x6.99
H33F04000	400.0	376.0	8.1	367.67x6.99
H33F04100	410.0	386.0	8.1	380.37x6.99
H33F04200	420.0	396.0	8.1	393.07x6.99
H33F04300	430.0	406.0	8.1	405.26x6.99
H33F04400	440.0	416.0	8.1	405.26x6.99
H33F04500	450.0	426.0	8.1	417.96x6.99
H33F04600	460.0	436.0	8.1	430.66x6.99
H33F04700	470.0	446.0	8.1	443.36x6.99
H33F04800	480.0	456.0	8.1	456.06x6.99
H33F04900	490.0	466.0	8.1	468.76x6.99
H33F05000	500.0	476.0	8.1	468.76x6.99
H33F05200	520.0	496.0	8.1	494.16x6.99
H33F05400	540.0	516.0	8.1	506.86x6.99
H33F05500	550.0	526.0	8.1	532.26x6.99
H33F05600	560.0	536.0	8.1	532.26x6.99
H33F05800	580.0	556.0	8.1	557.66x6.99
H33F06000	600.0	576.0	8.1	557.66x6.99
H33F06100	610.0	586.0	8.1	582.68x6.99
H33F06200	620.0	596.0	8.1	582.68x6.99
H33F06300	630.0	606.0	8.1	608.08x6.99
H33F06400	640.0	616.0	8.1	608.08x6.99
H33F06500	650.0	626.0	8.1	608.08x6.99
H33F06600	660.0	636.0	8.1	633.48x6.99
H33G06700	670.0	642.7	9.5	633.48x6.99
H33G06800	680.0	652.7	9.5	658.88x6.99
H33G07000	700.0	672.7	9.5	670x8.4
H33G07100	710.0	682.7	9.5	680x8.4
H33G07200	720.0	692.7	9.5	690x8.4
H33G07300	730.0	702.7	9.5	700x8.4
H33G07400	740.0	712.7	9.5	710x8.4
H33G07500	750.0	722.7	9.5	720x8.4
H33G07600	760.0	732.7	9.5	730x8.4
H33G07800	780.0	752.7	9.5	750x8.4
H33G08000	800.0	772.7	9.5	770x8.4
H33G08100	810.0	782.7	9.5	780x8.4
H33G08200	820.0	792.7	9.5	790x8.4
H33G08400	840.0	812.7	9.5	810x8.4
H33G08500	850.0	822.7	9.5	820x8.4
H33G08600	860.0	832.7	9.5	830x8.4



H33G08800	880.0	852.7	9.5	850x8.4
H33G09000	900.0	872.7	9.5	870x8.4
H33G09100	910.0	882.7	9.5	880x8.4
H33G09200	920.0	892.7	9.5	890x8.4
H33G09300	930.0	902.7	9.5	900x8.4
H33G09400	940.0	912.7	9.5	910x8.4
H33G09500	950.0	922.7	9.5	920x8.4
H33G09600	960.0	932.7	9.5	930x8.4
H33G09800	980.0	952.7	9.5	950x8.4
H33G10000	1000.0	972.7	9.5	970x8.4
H33H10000	1000.0	962.0	13.8	960x12.0
H33H10500	1050.0	1012.0	13.8	1010x12.0
H33H11000	1100.0	1062.0	13.8	1060x12.0
H33H11500	1150.0	1112.0	13.8	1110x12.0
H33H12000	1200.0	1162.0	13.8	1160x12.0
H33H12500	1250.0	1212.0	13.8	1210x12.0
H33H13000	1300.0	1262.0	13.8	1260x12.0
H33H13500	1350.0	1312.0	13.8	1310x12.0
H33H14000	1400.0	1362.0	13.8	1360x12.0
H33H14500	1450.0	1412.0	13.8	1410x12.0
H33H15000	1500.0	1462.0	13.8	1460x12.0
H33H16000	1600.0	1562.0	13.8	1560x12.0
H33H17000	1700.0	1662.0	13.8	1660x12.0
H33H18000	1800.0	1762.0	13.8	1760x12.0
H33H19000	1900.0	1862.0	13.8	1860x12.0
H33H20000	2000.0	1962.0	13.8	1960x12.0

注：以上为 H33 标准型的尺寸，轻型和重型及所有直径 2500mm 以内的其它尺寸均可供货。

