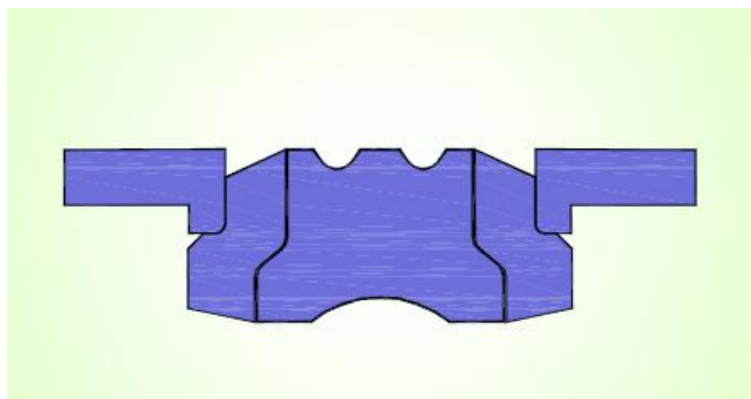


H20 组合式活塞密封



双向活塞密封



H20 组合式活塞密封

1.说明

H20 组合式活塞密封是一种双向作用的活塞密封圈，由一个弹性橡胶密封元件、两个挡圈和两个导向环组成。弹性橡胶密封元件特殊的几何形状保证了优异的高低压密封性能，同时可以防止在安装过程中的扭曲。挡圈用于防止弹性橡胶被挤入密封间隙，而集成的导向环在起导向和吸收侧载的同时，减小了活塞的整体宽度。

2.应用

H20 组合密封作为双作用活塞密封圈，广泛用于低压和中压且速度较慢的往复运动液压系统中，如用于叉车、搬运机械及农业机械等。

3.优点

- 优异的动静密封性能
- 封闭式沟槽，易于安装
- 活塞的总长度较短，生产成本低
- 对间隙的抗挤出能力极强
- 成本较低

4.标准材料

密封体：丁腈橡胶 NBR75
耐磨环：聚甲醛 POM
挡圈： 聚酯弹性体 TPE

5.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：

缸筒内径	<100	100~200	>200
C min.	5	7	10

6.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

7.工况要求

压力： $\leq 40\text{MPa}$
速度： $\leq 0.5\text{m/s}$
温度： $-35^{\circ}\text{C}\sim+110^{\circ}\text{C}$
介质：矿物液压油、难燃液压油

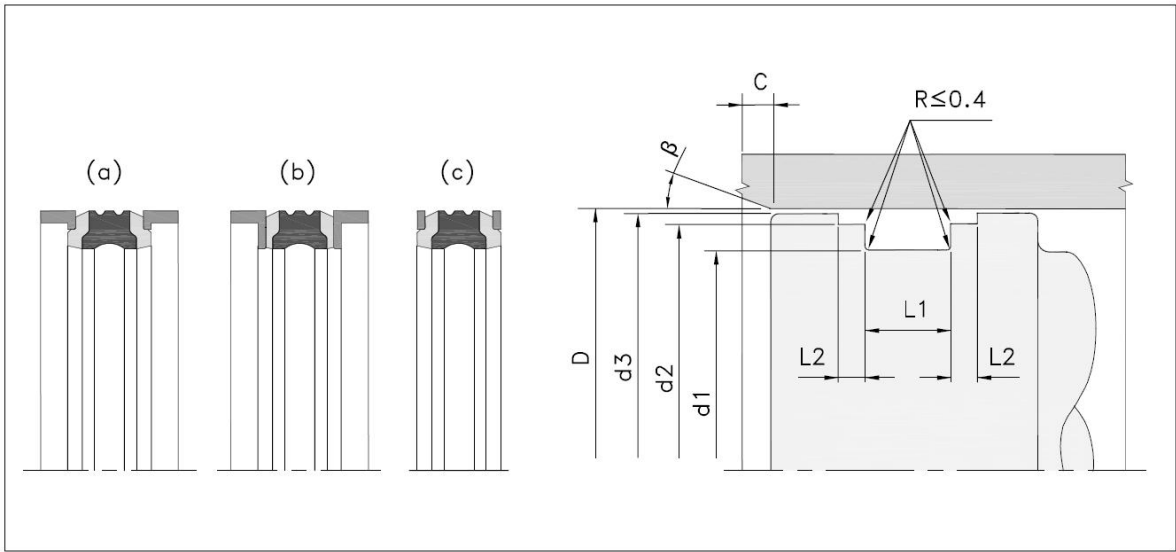


8. 订货示例

缸筒内径：100mm
沟槽尺寸：100x75x22.4
订货号 H20 3A 1000 – N5D5

型号
系列号
缸筒内径 X10
材料

9. 安装尺寸参数



10. 规格尺寸表

订货号	沟槽尺寸						类型
	D H9	d1 h9	d2 h9	d3 h11	L1 ^{+0.2}	L2 ^{+0.1}	
H200A0200	20.0	11.0	17.00	19.00	13.5	2.10	a
H201A0250	25.0	15.0	21.45	23.50	16.4	6.35	a
H202A0250	25.0	15.0	21.00	23.00	12.0	4.00	a
H203A0250	25.0	15.0	22.00	24.00	12.5	4.00	a
H200A0250	25.0	16.0	22.00	24.00	13.5	2.10	a
H204A0250	25.0	17.0	22.00	24.00	10.0	4.00	a
H205A0300	30.0	17.0	26.50	29.00	15.4	6.35	a
H200A0300	30.0	21.0	27.00	29.00	13.5	2.10	a
H201A0320	32.0	22.0	28.50	30.50	16.4	6.35	a
H206A0320	32.0	22.0	28.00	31.00	15.5	2.60	a
H203A0320	32.0	22.0	29.00	31.00	12.5	4.00	a
H200B0320	32.0	24.0	28.00	31.40	15.5	3.20	b
H204A0320	32.0	24.0	29.00	31.00	10.0	4.00	a



H201A0350	35.0	25.0	31.40	33.50	16.4	6.35	a
H206A0350	35.0	25.0	31.00	34.00	15.5	2.60	a
H207A0400	40.0	24.0	35.40	38.50	18.4	6.35	a
H206A0400	40.0	26.0	36.00	39.00	15.5	2.60	a
H201A0400	40.0	30.0	35.40	38.50	16.4	6.35	a
H203A0400	40.0	30.0	36.00	38.00	12.5	4.00	a
H200C0400	40.0	30.0		38.50	16.4		c
H208A0400	40.0	30.0	37.00	39.00	12.5	4.00	a
H200B0400	40.0	32.0	36.00	39.40	15.5	3.20	b
H204A0400	40.0	32.0	37.00	39.00	10.0	4.00	a
H209A0400	40.0	32.0	36.00	39.40	15.5	3.20	a
H207A0450	45.0	29.0	40.40	43.70	18.4	6.35	a
H201C0450	45.0	29.0		43.70	18.4		c
H206A0450	45.0	31.0	41.00	44.00	15.5	2.60	a
H201A0450	45.0	35.0	40.40	43.50	16.4	6.35	a
H200C0450	45.0	35.0		43.50	16.4		c
H207A0500	50.0	34.0	45.40	48.50	18.4	6.35	a
H200A0500	50.0	34.0	46.00	49.00	20.5	3.10	a
H201C0500	50.0	34.0		48.50	18.4		c
H202A0500	50.0	35.0	46.00	48.50	20.0	5.00	a
H201B0500	50.0	38.0	46.00	49.40	20.5	4.20	b
H201A0500	50.0	38.0	46.00	49.40	20.5	4.20	a
H203A0500	50.0	40.0	47.00	49.00	12.5	4.00	a
H202C0500	50.0	40.0		49.00	12.5		c
H207A0550	55.0	39.0	50.36	53.50	18.4	6.35	a
H200A0550	55.0	39.0	51.00	54.00	20.5	3.10	a
H201B0550	55.0	43.0	51.00	54.40	20.5	4.20	b
H203A0550	55.0	45.0	52.00	54.00	12.5	4.00	a
H207A0600	60.0	44.0	55.40	58.50	18.4	6.35	a
H200A0600	60.0	44.0	56.00	59.00	20.5	3.10	a
H201B0600	60.0	48.0	56.00	59.40	20.5	4.20	b
H207A0630	63.0	47.0	58.40	61.50	18.4	6.35	a
H200A0630	63.0	47.0	59.00	62.00	20.5	3.10	a
H209A0630	63.0	47.0	58.40	61.50	19.4	6.35	a
H202A0630	63.0	48.0	59.00	61.50	20.0	5.00	a
H201B0630	63.0	51.0	59.00	62.40	20.50	4.20	b
H201A0630	63.0	51.0	59.00	62.40	20.50	4.20	a
H203A0630	63.0	53.0	60.00	62.00	12.5	4.00	a
H200A0650	65.0	49.0	61.00	64.00	20.5	3.10	a
H207A0650	65.0	50.0	60.40	63.50	18.4	6.35	a
H203A0700	70.0	50.0	64.20	68.30	22.4	6.35	a
H203C0700	70.0	50.0		68.30	22.4		c



H200A0700	70.0	54.0	66.00	69.00	20.5	3.10	a
H202A0700	70.0	55.0	66.00	68.50	20.0	5.00	a
H201B0700	70.0	58.0	66.00	69.40	20.5	4.20	b
H201A0700	70.0	58.0	66.00	69.40	20.5	4.20	a
H203A0750	75.0	55.0	69.20	73.30	22.4	6.35	a
H203C0750	75.0	55.0		73.30	22.4		c
H200A0750	75.0	59.0	71.00	74.00	20.5	3.10	a
H203A0800	80.0	60.0	74.15	78.30	22.4	6.35	a
H203C0800	80.0	60.0		78.30	22.4		c
H204A0800	80.0	60.0	75.00	78.00	25.0	6.35	a
H205A0800	80.0	62.0	76.00	79.00	22.5	3.60	a
H202A0800	80.0	65.0	76.00	78.50	20.0	5.00	a
H206B0800	80.0	66.0	76.00	79.40	22.5	5.20	b
H203A0850	85.0	65.0	79.15	83.30	22.4	6.35	a
H203C0800	85.0	65.0		83.30	22.4		c
H203A0900	90.0	70.0	84.15	88.30	22.4	6.35	a
H205A0900	90.0	72.0	86.00	89.00	22.5	3.60	a
H202A0900	90.0	75.0	86.00	88.50	20.0	5.00	a
H206B0900	90.0	76.0	86.00	89.40	22.5	5.20	b
H203A0950	95.0	75.0	89.15	93.30	22.4	6.35	a
H203A1000	100.0	75.0	93.15	98.00	22.4	6.35	a
H207A1000	100.0	80.0	94.15	98.30	25.4	6.35	a
H204A1000	100.0	80.0	95.00	98.00	25.0	6.35	a
H205A1000	100.0	82.0	96.00	99.00	22.5	3.60	a
H202A1000	100.0	85.0	96.00	98.50	20.0	5.00	a
H206B1000	100.0	86.0	96.00	99.40	22.5	5.20	b
H206A1000	100.0	86.0	96.00	99.40	22.5	5.20	a
H203A1050	105.0	80.0	98.10	103.00	22.4	6.35	a
H203A1100	110.0	85.0	103.10	108.00	22.4	6.35	a
H207A1100	110.0	85.0	103.10	108.00	25.4	6.35	a
H205A1100	110.0	92.0	106.00	109.00	22.5	3.60	a
H202A1100	110.0	95.0	105.00	108.50	20.0	5.00	a
H206B1100	110.0	96.0	106.00	109.40	22.5	5.20	b
H203A1150	115.0	90.0	108.10	113.00	22.4	6.35	a
H203A1200	120.0	95.0	113.10	118.10	22.4	6.35	a
H206B1200	120.0	106.0	116.00	119.40	22.5	5.20	b
H207A1250	125.0	100.0	118.10	123.00	25.4	6.35	a
H209A1250	125.0	100.0	119.00	123.00	32.0	10.00	a
H200A1250	125.0	103.0	121.00	124.00	26.5	5.10	a
H204A1250	125.0	105.0	120.00	123.00	25.0	6.35	a
H208A1250	125.0	105.0	119.10	123.30	25.4	6.35	a
H202B1250	125.0	108.0	121.00	124.40	26.5	7.20	b



H208A1300	130.0	105.0	122.60	127.50	25.4	9.50	a
H207A1300	130.0	105.0	123.10	128.00	25.4	6.35	a
H208A1350	135.0	110.0	127.60	132.50	25.4	9.50	a
H207A1350	135.0	110.0	128.10	133.00	25.4	6.35	a
H208A1400	140.0	115.0	132.60	137.50	25.4	9.50	a
H207A1400	140.0	115.0	133.00	138.00	25.4	6.35	a
H200A1400	140.0	118.0	136.00	139.00	26.5	5.10	a
H204A1400	140.0	120.0	135.00	138.00	25.0	6.35	a
H202B1400	140.0	123.0	136.00	139.40	26.5	7.20	b
H208A1450	145.0	120.0	137.60	142.50	25.4	9.50	a
H207A1450	145.0	120.0	138.30	142.95	25.4	6.35	a
H208A1500	150.0	125.0	142.60	147.50	25.4	9.50	a
H207A1500	150.0	125.0	143.00	148.00	25.4	6.35	a
H201A1500	150.0	128.0	146.00	149.00	25.4	5.10	a
H200A1500	150.0	128.0	146.00	149.00	26.5	5.10	a
H207A1600	160.0	130.0	153.00	157.50	25.4	6.35	a
H208A1600	160.0	130.0	152.60	157.50	25.4	9.50	a
H209A1600	160.0	135.0	152.60	157.50	25.4	9.50	a
H204A1600	160.0	140.0	155.00	158.00	25.0	6.35	a
H208A1650	165.0	140.0	157.60	162.50	25.4	9.50	a
H202A1700	170.0	145.0	161.70	167.10	25.4	12.70	a
H202A1750	175.0	150.0	166.70	172.10	25.4	12.70	a
H203A1800	180.0	150.0	172.90	177.90	35.4	6.35	a
H202A1800	180.0	155.0	171.70	177.10	25.4	12.70	a
H202A1850	185.0	160.0	176.70	182.10	25.4	12.70	a
H202A1900	190.0	165.0	181.70	187.00	25.4	12.70	a
H204A2000	200.0	170.0	192.00	197.00	36.0	12.50	a
H203A2000	200.0	170.0	193.00	198.00	35.4	6.35	a
H202A2000	200.0	175.0	191.60	197.00	25.4	12.70	a
H203A2200	220.0	190.0	212.70	217.90	35.4	6.35	a
H202A2200	220.0	195.0	211.60	217.00	25.4	12.70	a
H202A2250	225.0	200.0	216.60	222.00	25.4	12.70	a
H202A2300	230.0	205.0	221.60	227.00	25.4	12.70	a
H202A2400	240.0	215.0	231.60	237.00	25.4	12.70	a
H203A2500	250.0	220.0	242.90	247.90	35.4	6.35	a
H202A2500	250.0	225.0	241.60	247.00	25.4	12.70	a

