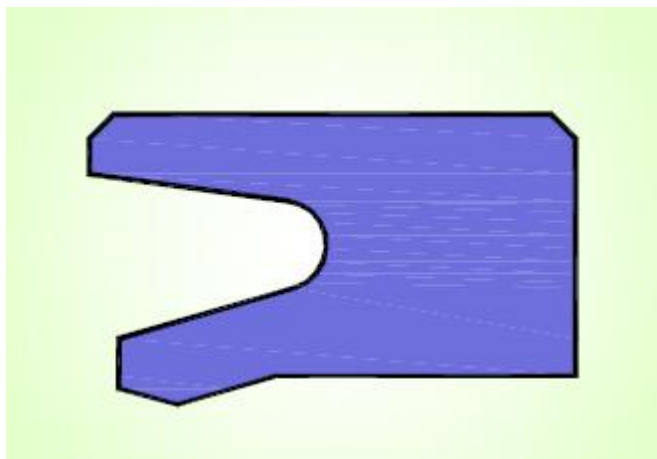


S16 活塞杆密封



单向活塞杆密封



S16 活塞杆密封

1.说明

S16 型活塞杆密封是由聚氨酯材料制成的单作用单唇口 U 形密封圈。低压时主要通过 U 形密封圈的预压缩产生密封力，高压时 U 形密封圈被系统流体挤压，推着密封环靠紧密封面而增加密封力。不对称的唇口设计保证了密封圈在沟槽底部的静态和滑动表面的动态密封效果。

2.应用

作为活塞杆用的单向作用密封圈，广泛应用于往复运动的液压油缸中，如行走机械、注塑机、林业机械、采矿机械、工程机械和工业液压油缸等。在恶劣的工作条件下， also 具有良好的机械特性。在中载或重载场合，与 S33 活塞杆密封联合使用效果非常好。

3.优点

- 密封效果好
- 耐磨性好，寿命长
- 很高的抗挤出能力
- 沟槽结构简单，易于安装

4.标准材料

聚氨酯 P520，硬度 Shore A 93

5.安装倒角

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，应该在活塞杆上加工安装倒角，倒角角度 β 为 15° ~ 20° ，倒角长度尺寸 C 如下：

杆径	<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	0.1-0.4	<2.5	<4.0
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：矿物液压油和其它



8. 径向间隙

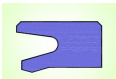
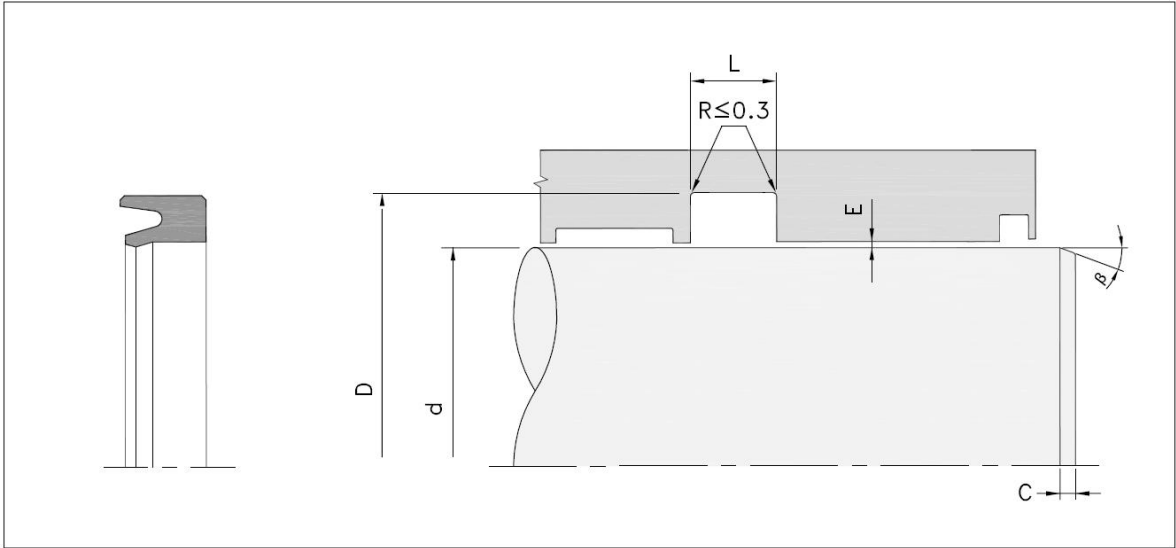
工作压力 MPa	径向间隙 $E_{max.}$	
	$d \leq 60\text{ mm}$	$d > 60\text{ mm}$
5	0.40	0.50
10	0.30	0.40
20	0.20	0.30
30	0.15	0.20
40	0.10	0.15

9. 订货示例

活塞杆直径: 100mm
沟槽尺寸: 100x115x10
密封圈材料: P520
订货号 S16 B 01000 - P520

型号	
系列号	
杆径 X10	
材料	

10. 安装尺寸参数



11.规格尺寸表

订货号	杆径 d f8/h9	沟槽直径 D H9	沟槽宽度 L ^{+0.2}
S16A00040	4.0	8.0	3.5
S16A00060	6.0	11.0	4.5
S16B00060	6.0	11.0	6.0
S16A00080	8.0	16.0	6.3
S16A00100	10.0	18.0	6.3
S16B00100	10.0	20.0	8.0
S16A00110	11.0	17.0	5.0
S16C00120	12.0	17.0	4.0
S16A00120	12.0	20.0	6.3
S16B00120	12.0	22.0	8.0
S16A00140	14.0	22.0	6.3
S16A00150	15.0	23.0	6.3
S16C00160	16.0	20.6	3.6
S16E00160	16.0	22.0	5.5
S16A00160	16.0	24.0	6.3
S16C00180	18.0	24.0	5.2
S16B00180	18.0	28.0	8.0
S16E00200	20.0	26.0	5.5
S16A00200	20.0	28.0	6.3
S16C00200	20.0	28.0	7.0
S16D00200	20.0	28.0	8.0
S16B00200	20.0	30.0	8.0
S16A00220	22.0	30.0	6.3
S16B00220	22.0	32.0	8.0
S16E00240	24.0	30.0	5.0
S16B00240	24.0	34.0	8.0
S16A00250	25.0	33.0	6.3
S16C00250	25.0	33.0	7.0
S16D00250	25.0	33.0	8.0
S16B00250	25.0	35.0	8.0
S16A00270	27.0	35.0	6.3
S16A00280	28.0	36.0	6.3
S16B00280	28.0	38.0	8.0
S16E00280	28.0	40.0	9.5
S16A00300	30.0	38.0	6.3
S16F00300	30.0	38.0	9.0
S16G00300	30.0	40.0	6.3
S16B00300	30.0	40.0	8.0



S16H00300	30.0	40.0	10.5
S16J00300	30.0	43.0	10.0
S16A00320	32.0	40.0	6.3
S16F00320	32.0	40.0	9.0
S16B00320	32.0	42.0	8.0
S16C00320	32.0	42.0	11.0
S16D00320	32.0	45.0	11.0
S16E00320	32.0	47.0	11.0
S16C00330	33.0	43.0	11.0
S16A00350	35.0	43.0	6.3
S16F00350	35.0	43.0	9.0
S16B00350	35.0	45.0	8.0
S16C00350	35.0	45.0	11.0
S16G00350	35.0	46.0	9.0
S16B00360	36.0	46.0	8.0
S16A00360	36.0	48.0	12.0
S16A00380	38.0	44.5	5.3
S16B00380	38.0	45.0	5.5
S16G00400	40.0	48.0	4.5
S16A00400	40.0	48.0	6.3
S16F00400	40.0	48.0	9.0
S16B00400	40.0	50.0	8.0
S16C00400	40.0	50.0	11.0
S16D00400	40.0	52.0	9.0
S16H00400	40.0	60.0	11.0
S16C00420	42.0	50.0	7.0
S16A00450	45.0	53.0	6.3
S16B00450	45.0	55.0	8.0
S16C00450	45.0	55.0	11.0
S16J00450	45.0	58.0	10.0
S16D00450	45.0	60.0	12.5
S16B00460	46.0	56.0	8.0
S16B00500	50.0	60.0	8.0
S16C00500	50.0	60.0	11.0
S16E00500	50.0	65.0	11.0
S16D00500	50.0	65.0	12.5
S16J00500	50.0	68.0	10.0
S16B00550	55.0	65.0	8.0
S16C00550	55.0	65.0	11.0
S16A00550	55.0	65.0	13.0
S16D00550	55.0	70.0	10.5
S16B00560	56.0	66.0	8.0



S16C00560	56.0	66.0	11.0
S16G00600	60.0	65.6	6.3
S16B00600	60.0	70.0	8.0
S16C00600	60.0	70.0	11.0
S16D00600	60.0	72.0	9.0
S16A00600	60.0	72.0	10.0
S16E00600	60.0	75.0	11.0
S16F00600	60.0	75.0	13.0
S16H00600	60.0	80.0	11.0
S16B00700	70.0	80.0	8.0
S16C00700	70.0	80.0	11.0
S16E00700	70.0	85.0	11.0
S16A00700	70.0	85.0	12.0
S16A00730	73.0	82.8	8.0
S16E00750	75.0	90.0	11.0
S16B00800	80.0	90.0	8.0
S16A00800	80.0	90.0	13.0
S16E00800	80.0	95.0	11.0
S16B00850	85.0	95.0	8.2
S16A00850	85.0	95.0	13.0
S16A00900	90.0	100.0	13.0
S16F00900	90.0	105.0	13.0
S16H00900	90.0	110.0	13.0
S16A00950	95.0	105.0	5.7
S16A01000	100.0	109.3	6.2
S16B01000	100.0	115.0	10.0
S16C01000	100.0	115.0	11.5
S16F01000	100.0	115.0	13.0
S16J01000	100.0	120.0	16.0
S16A01050	105.0	115.0	6.2
S16A01100	110.0	120.0	13.0
S16H01100	110.0	130.0	13.0
S16A01150	115.0	130.0	12.0
S16H01250	125.0	145.0	13.0
S16A01300	130.0	145.0	15.0
S16A01400	140.0	150.0	7.0
S16B01400	140.0	150.0	12.5
S16A01600	160.0	185.0	20.0
S16J02380	238.0	258.0	16.0
S16J02400	240.0	260.0	16.0

