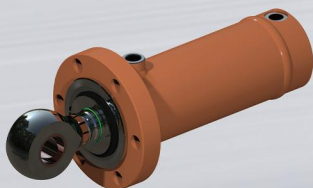


让中国装备用上油威缸

# Engineering hydraulic cylinder 工程液压缸

YMHSG

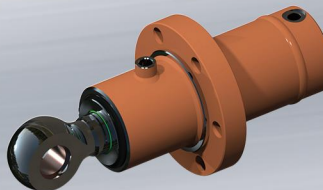
公称压力 250 bar(25 MPa)



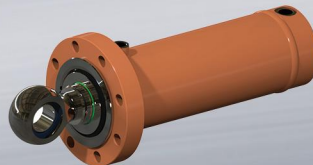
前部法兰前耳环带衬套 N



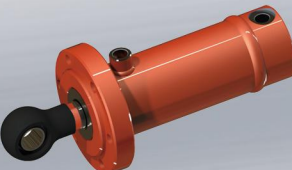
前部法兰前耳环带衬套 N



中间法兰前耳环带衬套 H



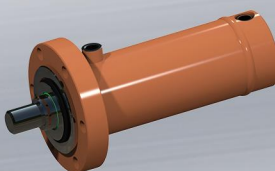
前部法兰前耳环带关节轴承 P



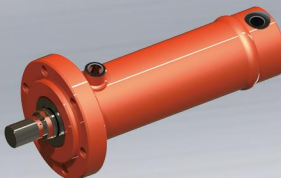
前部法兰前耳环带关节轴承 P



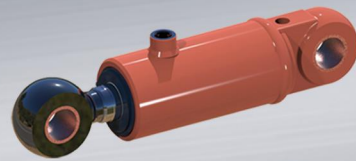
杆端螺纹后耳环带关节轴承 D



前部法兰杆端螺纹 Q



前部法兰杆端螺纹 Q



前后耳环带衬套 A



【官网下载3D产品模型】 【3D模型离线软件下载】



【上海油威YWCDH1重载油缸样本】



【上海油威YWCD拉杆油缸样本】



【上海油威YWCH紧凑薄型油缸样本】



【上海油威YWCSH1伺服油缸样本】

YOWEE 上海油威机械有限公司  
Shanghai Yowee Machinery Engineering Co., Ltd.

地址：上海市奉贤区永扬路88号

网址：www.yowee.cn

电话：021-33656071

邮箱：yhao@yowee.cn



# 好油缸油威造！

Great Cylinders, Made by Yowee!



## CATALOGUE

### 目录

#### 企业概况

|    |      |    |
|----|------|----|
| 01 | 公司介绍 | 03 |
| 02 | 公司优势 | 05 |
| 03 | 产品优势 | 06 |

#### 产品介绍

|    |                                           |    |
|----|-------------------------------------------|----|
| 01 | 液压油缸品牌型号对照表&执行标准                          | 07 |
| 02 | 密封件的选型标准                                  | 08 |
| 03 | 工程液压缸特点、技术数据                              | 09 |
| 04 | 推拉力核算表                                    | 10 |
| 05 | 压力行程一览表                                   | 11 |
| 06 | 产品代码与HSGK系列安装方式                           | 13 |
| 07 | HSGK - A & HSGK - B & HSGK - C & HSGK - D | 15 |
| 08 | HSGK - E & HSGK - F & HSGK - G            | 17 |

|    |                                       |    |
|----|---------------------------------------|----|
| 09 | HSGK - H & HSGK - I & HSGK - J        | 19 |
| 10 | HSGK- K & HSGK- L & HSGK- M           | 21 |
| 11 | HSGK- N & HSGK- P& HSGK- Q            | 23 |
| 12 | HSGL系列推拉力核算表与安装方式                     | 25 |
| 13 | HSGL- A & HSGL- B & HSGL- C & HSGL- D | 27 |
| 14 | HSGL- E & HSGL- F & HSGL- G           | 29 |
| 15 | HSGL- H & HSGL- I & HSGL- J           | 31 |
| 16 | HSGL- K & HSGL- L & HSGL- M           | 33 |
| 17 | HSGL- N & HSGL- P & HSGL- Q           | 35 |
| 18 | HSG5系列安装方式                            | 37 |
| 19 | HSG5系列螺纹规格、推拉力表与行程表                   | 38 |
| 20 | HSG5-前后耳环带关节轴承 B                      | 39 |
| 21 | HSG5-杆端螺纹后耳环带关节轴承 D                   | 40 |
| 22 | HSG5-中间轴销后耳环带关节轴承 F                   | 41 |
| 23 | HSG5-中间轴销杆端螺纹 G                       | 42 |
| 24 | HSG5-尾部法兰前耳环带关节轴承 L                   | 43 |
| 25 | HSG5-尾部法兰杆端螺纹 M                       | 44 |
| 26 | HSG5-前部法兰前耳环带关节轴承 P                   | 45 |
| 27 | HSG5-前部法兰杆端螺纹 Q                       | 46 |
| 28 | 免维护杆端轴承                               | 47 |
| 29 | 吊环头                                   | 49 |



# 公司简介



上海油威机械工程有限公司于2005年成立于上海，是一家专注于液压油缸、伺服油缸、液压元件以及液压系统等产品的研发设计、生产制造、销售服务一体化的综合性企业。经过20年的发展积淀，上海油威全面掌握了高端液压油缸的核心技术并不断创新发展，其产品已进入先进制造、高端装备、进口产品替代等领域，在工程机械、能源冶金、交通运输、海洋工程、航空航天以及新能源等行业得到广泛应用，“好油缸油威造”已经成为行业应用同仁的共识。



**2005年**  
成立于上海



**10+**  
产品系列



**10000+**  
产品规格



**10000+**  
年产油缸



上海油威坚持以客户需求为中心，以“让中国装备用上油威缸”为使命，整合国内外优质资源，不断进行设计创新和技术迭代，与上海交通大学科研团队开展产学研项目的深度战略合作，在材料开发应用、智能控制以及模块化设计等方面取得了阶段性成果，其产品的整体性能达到甚至超过了国际先进水平。

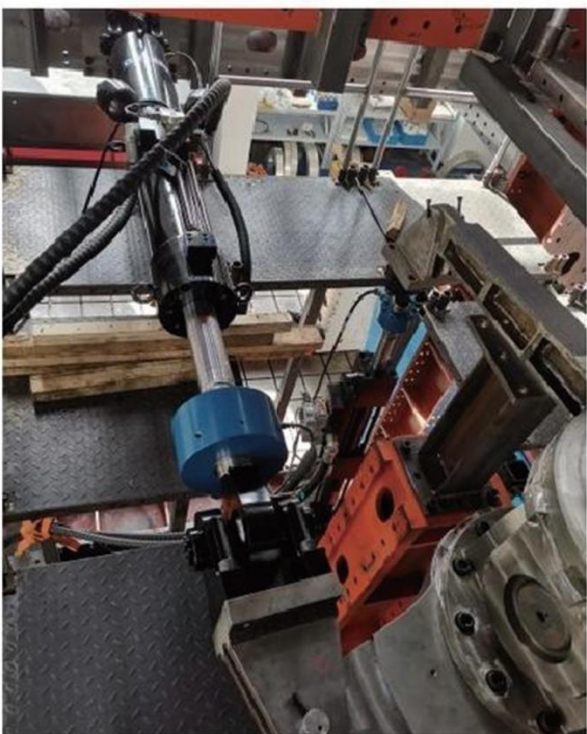
Yowee是上海油威推出的产品品牌，上海油威二十年根植上海，依托上海及长三角区位和高端制造优势，整合国内外先进技术和制造工艺，构建行业一流的技术设计研发平台，全面掌握了高端油缸的核心技术，以产品的全系列、强性能、长寿命、高效率等特点，实现了高端油缸进口产品的国产化替代。



## 自研油缸实验台

由油威公司根据国家油缸测试标准研发的油缸测试台，本试验台不仅能完成国家标准规定的出厂试验和型式试验，且根据客户对油缸在不同场合使用要求，针对特殊性能做特殊测试。

本试验台最高试验压力50Mpa。



**品牌定位：**中国高端油缸制造服务商  
**品牌愿景：**装备中国，制造强国  
**品牌使命：**让中国装备用上油威缸

|                                             |                                                 |                                                 |                                                 |                                                |
|---------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| <b>Yield</b><br><b>结果导向</b><br>以终为始<br>高效执行 | <b>Open-mind</b><br><b>开放包容</b><br>拥抱变化<br>务实创新 | <b>Win-win</b><br><b>协同共赢</b><br>合作中互利<br>利他中利己 | <b>Evolution</b><br><b>持续进化</b><br>主动改善<br>不断迭代 | <b>Excelent</b><br><b>追求卓越</b><br>锐意进取<br>精益求精 |
|---------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|------------------------------------------------|



## 公司优势



### 精细设计

**油威笃信：**好产品是精心设计出来的；设计就是生产力，无损装配，强度优化，减材增效，材料优选，密封强化，批量出图，设计是产品品质的保证，降本增效的首要要素。

### 精密制造

**油威坚信：**好产品是精密制造出来的；先进设备是精密制造的基础，优化的加工工艺是核心，规范操作和系统化的品控是产品品质的关键。

### 精准装配

**油威深信：**好产品是精准装配出来的，油威的精准装配不仅是零部件物理组合，而是对位、紧固、校准、测试完美呈现。优化装配流程，创新装配方式，精准扭矩控制.....所有零部件都是刚刚好。



## 产品优势



### 国产化适应

基于国内外加工设备材料和工艺的差距，对材料密封优化调整，确保产品质量

### 性能好，适应强

25Mpa额定压力  
4倍安全系数设计  
16种安装方式可选  
结构紧凑更灵活

### 自研新型活塞结构

更小的活塞与缸筒间隙设计  
低摩擦无爬行保压性强  
新型活塞密封支撑结构  
密封件使用寿命更长

### 产品全覆盖

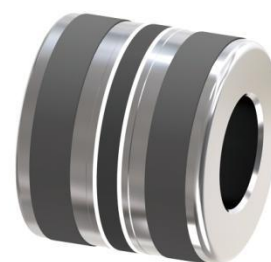
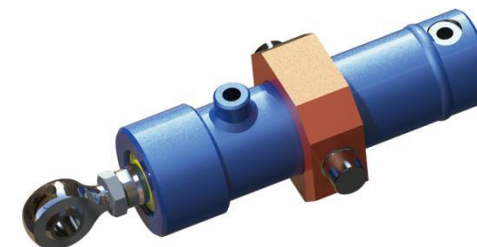
十大系列油缸  
10000+产品型号  
全系列3D模型图  
全系列产品设计图

### 密封好，不漏油

系统性密封结构  
性能和寿命双重考量  
多种工况定制

### 油威标准活塞杆

特有活塞杆预装台设计  
安装方便不损伤密封件  
安装到位密封效果更佳  
油缸使用寿命长不外漏





液压油缸品牌型号对照表

| 品牌             | 拉杆油缸           |        |          | 重型油缸                 |        | 工程油缸           | 紧凑油缸        |
|----------------|----------------|--------|----------|----------------------|--------|----------------|-------------|
|                | 70bar          | 140bar | 210bar   | 国际                   | 美标     | 国标             |             |
| 上海油威           | YWCD70         |        | YWCD210  | YWCDH1               | YWCDH2 | YWHSG          | YWCHE       |
|                | YWCG70         |        | YWCG210  | YWCGH1               | YWCGH2 |                | YWCHD       |
|                | YWCS70         |        | YWCS210  | YWCSH1               | YWCSH2 |                | YWCHS       |
| 力士乐<br>Rexroth | CD70           |        | CD210    | CDH1                 | CDH2   | -              | -           |
|                | CG70           |        | CG210    | CGH1                 | CGH2   |                |             |
|                |                |        | CS210    | CSH1                 | CSH2   |                |             |
| 派克<br>Parker   | 3L (70)        |        | 2H(210)  | MA3                  |        | -              | CHE         |
|                |                |        | HMD/ HMI | MMA/MMB<br>RDH       |        |                | CHD<br>160S |
| 油研<br>YUKEN    | CJT35<br>CJT70 | CJT140 | CJT210   | -                    |        | -              | CBY14       |
| 恒力             | MOB            | HOB    | YGC      | HLSL<br>HLSS<br>HLSG |        | HA250<br>HA350 | -           |
| 国产             | MOB            | HOB    | YGC      | -                    |        | HSG            | CX          |

备注：1.拉杆油缸中210bar产品也称为重载油缸；  
2.重载油缸也称冶金油缸，如派克重载系列MMA液压缸就简称冶金缸；  
3.紧凑油缸又称薄型油缸，就其材质分为铝制、钢制和不锈钢制。

液压油缸执行标准

| 品牌   | 国际标准      | 国家标准      | 德国标准      | 美国标准       | 法国标准      | 日本标准      |
|------|-----------|-----------|-----------|------------|-----------|-----------|
|      | ISO6020/2 | GB/T15622 | DIN24 554 | ANSI B9315 | NF E48016 | JIS-B8367 |
| 上海油威 | ☑         | ☑         | ☑         | ☑          |           | ☑         |
| 力士乐  | ☑         |           | ☑         | ☑          | ☑         |           |
| 派克   | ☑         |           |           | ☑          |           |           |
| 油研   |           |           |           |            |           | ☑         |
| 恒力   | ☑         | ☑         | ☑         |            |           |           |
| 国产   |           | ☑         |           |            |           | ☑         |
| 中国台湾 |           | ☑         |           |            |           | ☑         |

备注：表中品牌的执行标准符合是指品牌下产品有符合此标准的产品，并非指全部产品均符合此类标准

密封件的选型标准

| 对于矿物油HL、HLP和HFA |             | 对于矿物油HL、HLP、HFA和水乙二醇HFC |           | 对于磷酸酯HFD-R和脂肪酸酯HFD-U |           |
|-----------------|-------------|-------------------------|-----------|----------------------|-----------|
| M               | 标准密封系统      | G                       | 标准密封系统HFC | V                    | 标准密封系统KFM |
| L               | 带导向环的标准密封系统 | T                       | 伺服性能/低摩擦  | S                    | 伺服性能/低摩擦  |
| R               | 重型低摩擦       | A                       | V型组合密封    | B                    | V型组合密封    |

|              | 工作和环境条件                                 | 密封件型号 |     |     |     |     |     |    |     |     |
|--------------|-----------------------------------------|-------|-----|-----|-----|-----|-----|----|-----|-----|
|              |                                         | M     | G   | V   | L   | A   | B   | T  | R   | S   |
| 介质 / 温度      | 介质HL, HLP/ 工作温度-20℃至+80℃                | ++    | ++  | ++  | ++  | ++  | ++  | ++ | ++  | ++  |
|              | 介质HFA/ 工作温度+5℃至+55℃                     | +/-   | +/- | +/- | +/- | +   | +/- | ++ | +/- | +/- |
|              | 介质HFC/ 工作温度-20℃至+60℃                    |       | ++  | —   | —   | +/- | —   | ++ |     |     |
|              | 介质HFD-R/ 工作温度-15℃至+80℃                  |       |     | ++  |     | —   | ++  | —  | —   | ++  |
|              | 介质HFD-U/ 工作温度-15℃至+80℃                  |       |     | ++  | —   | —   | ++  | —  |     | ++  |
|              | 活塞杆的环境温度和介质温度从-20℃到+80℃ <sup>1)</sup>   | ++    | +   | +2) | ++  | ++  | +2) | +  | ++  | +2  |
|              | 活塞杆的环境温度和介质温度从+80℃扩展至+120℃              |       | —   | ++  |     | —   | +   |    | —   | ++  |
| 功能 / 速率<br>… | 静态保持功能超过10分钟： 注意!取决于应用和温度               | ++    | +   | +   | +   | ++  | ++  | +  | +   | +   |
|              | 短期静态保持功能小于1分钟                           | ++    | ++  | ++  | ++  | ++  | ++  | ++ | ++  | ++  |
|              | 恶劣的应用条件： 钢厂， 矿山， 冰雪环境                   | ++    | ++  | ++  | ++  | ++  | ++  | —  | ++  |     |
|              | 零点控制， 短振幅， 频率最大5Hz, 不超过5分钟              |       |     |     | +/- |     | —   | ++ | +   | ++  |
|              | 液压缸速率最小0.001 m/s, 爬行现象                  | ++    | +   | +   | ++  | —   | —   | ++ | ++  | ++  |
|              | 液压缸速率从0.01 m/s到0.5m/s <sup>3)</sup>     | ++    | +   | +   | ++  | +   | +   | ++ | ++  | ++  |
|              | 液压缸速率>0.5 m/s, 至最大0.8 m/s <sup>3)</sup> |       | +/- | +/- | ++  | —   | —   | ++ | +   | ++  |
|              | 行程>1.0 m                                | +/-   | ++  | ++  | ++  | ++  | ++  | ++ | ++  | ++  |
|              | 耐磨性                                     | ++    | +/- | +/- | ++  | +/- | —   | ++ | ++  | ++  |
|              | 油中有不溶解的空气 <sup>4)</sup>                 |       | +   | +   | +   |     | —   | +  | +   | +   |

++ = 非常好          + = 好          +/- = 根据情况确定，取决于应用参数          - = 不适用

相应样本中的一般技术数据仍然有效!

- 1) 此外，请遵守相应的介质温度范围
- 2) 温度下限 -15℃
- 3) 标准油口连接不用于该速率
- 4) — 密封件会损毁 / + 密封件未被直接损毁，可能发生泄漏

一般情况下建议采用大约 40℃ 的介质温度。指定的值被视为准则；根据应用情况，可能需要检查密封系统的适用性。



工程液压缸

HSG工程液压缸是中国标准化的、双作用单活塞杆结构的通用型工程液压执行元件,以结构成熟可靠、规格齐全、易于采购和维护而著称，是支撑中国工程机械和工业装备发展的关键基础元件之一。主要面向工程机械（如挖掘机、装载机、推土机、起重机、压路机等）以及工业设备（如机床、冶金设备、压力机、注塑机等）中的重载、高可靠性应用场景。

特点

- 结构成熟可靠，轻量化设计
  - GB/T15622中国标准化产品
  - 额定压力最高可达25Mpa
- 16种安装方式
  - 活塞直径：25-320mm,
  - 活塞杆直径：14-220mm

技术数据（对于这些参数之外的应用，请咨询我们）

- 公称压力：25Mpa;
  - 静态测试压力：允许公称压力的1.3倍
  - 最大工作压力： 25Mpa
  - 安装位置：可选
- 液压油：矿物油DIN 51524 (HL,HLP)

  - 液压油温度范围：-20℃—+80 ℃
  - 环境温度范围：-20℃—+80 ℃
  - 最佳粘度范围：20-100mm²/s
  - 最小粘度：12mm²/s
  - 最大粘度：380mm²/s
  - ISO清洁度等级

液压油的最大允许污染度符合ISO 4406©等级 20/18/15

在液压系统中必须满足指定组建清洁度等级。有效的过滤可防止发生故障，延长组件的使用寿命。
- 行程速度：高达0.5m/s（实际取决于管路连接）
  - 底漆涂层：  
默认情况下会为液压缸涂上厚度最小 40 μm 的底漆涂层，颜色标准为天蓝色。  
对于液压缸和连接部件，以下表面不上底漆或油漆：  
-客户端所有安装端面  
-油口连接的密封表面  
-法兰连接的密封表面  
-阀安装的连接面  
-感应接近开关  
未上油漆的面通过防腐剂（MULTICOR LF80）保护
  - 验收：每个油缸符合ISO/DIN/GB标准检测予以出厂。

► 注意事项

安全注意事项：对于液压缸的安装、调试和维护须由上海油威或经过专业培训的人员进行。未经授权不得自行拆装油缸，以免发生危险。

选型注意事项：油缸选型请参考油威油缸选型表，与标准数据有差异的可联系我们定制。

推力核算表

| 活塞直径 | 活塞杆直径 | 工作压力   |        |         |        |         |        |         |        |         |         |
|------|-------|--------|--------|---------|--------|---------|--------|---------|--------|---------|---------|
|      |       | 70 bar |        | 100 bar |        | 160 bar |        | 200 bar |        | 250 bar |         |
|      |       | 推力(t)  | 拉力(t)  | 推力(t)   | 拉力(t)  | 推力(t)   | 拉力(t)  | 推力(t)   | 拉力(t)  | 推力(t)   | 拉力(t)   |
| ΦAL  | ΦMM   |        |        |         |        |         |        |         |        |         |         |
| 25   | 14    | 0.343  | 0.236  | 0.491   | 0.337  | 0.766   | 0.520  | 0.981   | 0.498  | 1.227   | 0.842   |
| 32   | 18    | 0.563  | 0.385  | 0.804   | 0.550  | 1.255   | 0.848  | 1.608   | 0.820  | 2.010   | 1.374   |
| 40   | 20    | 0.879  | 0.659  | 1.256   | 0.942  | 1.961   | 1.458  | 2.512   | 1.427  | 3.140   | 2.355   |
| 40   | 22    | 0.879  | 0.613  | 1.256   | 0.876  | 1.961   | 1.353  | 2.512   | 1.318  | 3.140   | 2.190   |
| 40   | 25    | 0.879  | 0.536  | 1.256   | 0.765  | 1.961   | 1.176  | 2.512   | 1.136  | 3.140   | 1.913   |
| 50   | 25    | 1.374  | 1.030  | 1.963   | 1.472  | 3.063   | 2.278  | 3.925   | 2.239  | 4.906   | 3.680   |
| 50   | 28    | 1.374  | 0.943  | 1.963   | 1.347  | 3.063   | 2.079  | 3.925   | 2.035  | 4.906   | 3.368   |
| 50   | 32    | 1.374  | 0.811  | 1.963   | 1.159  | 3.063   | 1.777  | 3.925   | 1.727  | 4.906   | 2.897   |
| 63   | 32    | 2.181  | 1.618  | 3.116   | 2.312  | 4.863   | 3.577  | 6.231   | 3.527  | 7.789   | 5.780   |
| 63   | 36    | 2.181  | 1.469  | 3.116   | 2.098  | 4.863   | 3.236  | 6.231   | 3.179  | 7.789   | 5.246   |
| 63   | 45    | 2.181  | 1.068  | 3.116   | 1.526  | 4.863   | 2.320  | 6.231   | 2.249  | 7.789   | 3.815   |
| 80   | 36    | 3.517  | 2.805  | 5.024   | 4.007  | 7.842   | 6.215  | 10.048  | 6.158  | 12.560  | 10.017  |
| 80   | 45    | 3.517  | 2.404  | 5.024   | 3.434  | 7.842   | 5.299  | 10.048  | 5.228  | 12.560  | 8.586   |
| 80   | 56    | 3.517  | 1.794  | 5.024   | 2.562  | 7.842   | 3.904  | 10.048  | 3.816  | 12.560  | 6.406   |
| 90   | 45    | 4.451  | 3.338  | 6.359   | 4.769  | 9.925   | 7.382  | 12.717  | 7.311  | 15.896  | 11.922  |
| 90   | 50    | 4.451  | 3.077  | 6.359   | 4.396  | 9.925   | 6.785  | 12.717  | 6.707  | 15.896  | 10.990  |
| 90   | 63    | 4.451  | 2.270  | 6.359   | 3.243  | 9.925   | 4.940  | 12.717  | 4.841  | 15.896  | 8.107   |
| 100  | 45    | 5.495  | 4.382  | 7.850   | 6.260  | 12.254  | 9.710  | 15.700  | 9.640  | 19.625  | 15.651  |
| 100  | 56    | 5.495  | 3.772  | 7.850   | 5.388  | 12.254  | 8.315  | 15.700  | 8.227  | 19.625  | 13.471  |
| 100  | 70    | 5.495  | 2.802  | 7.850   | 4.004  | 12.254  | 6.099  | 15.700  | 5.989  | 19.625  | 10.009  |
| 110  | 56    | 6.649  | 4.926  | 9.499   | 7.037  | 14.827  | 10.888 | 18.997  | 10.800 | 23.746  | 17.592  |
| 110  | 63    | 6.649  | 4.468  | 9.499   | 6.383  | 14.827  | 9.842  | 18.997  | 9.743  | 23.746  | 15.957  |
| 110  | 80    | 6.649  | 3.132  | 9.499   | 4.475  | 14.827  | 6.789  | 18.997  | 6.663  | 23.746  | 11.186  |
| 125  | 56    | 8.586  | 6.863  | 12.266  | 9.804  | 19.146  | 15.208 | 24.531  | 15.120 | 30.664  | 24.510  |
| 125  | 70    | 8.586  | 5.893  | 12.266  | 8.419  | 19.146  | 12.992 | 24.531  | 12.882 | 30.664  | 21.048  |
| 125  | 80    | 8.586  | 5.069  | 12.266  | 7.242  | 19.146  | 11.108 | 24.531  | 10.982 | 30.664  | 18.104  |
| 140  | 70    | 10.770 | 8.078  | 15.386  | 11.540 | 24.017  | 17.863 | 30.772  | 17.753 | 38.465  | 28.849  |
| 140  | 80    | 10.770 | 7.253  | 15.386  | 10.362 | 24.017  | 15.979 | 30.772  | 15.853 | 38.465  | 25.905  |
| 140  | 90    | 10.770 | 6.319  | 15.386  | 9.028  | 24.017  | 13.844 | 30.772  | 13.702 | 38.465  | 22.569  |
| 150  | 85    | 12.364 | 8.394  | 17.663  | 11.991 | 27.571  | 18.496 | 35.325  | 18.363 | 44.156  | 29.977  |
| 150  | 95    | 12.364 | 7.405  | 17.663  | 10.578 | 27.571  | 16.235 | 35.325  | 16.086 | 44.156  | 26.445  |
| 150  | 105   | 12.364 | 6.306  | 17.663  | 9.008  | 27.571  | 13.723 | 35.325  | 13.558 | 44.156  | 22.520  |
| 160  | 80    | 14.067 | 10.550 | 20.096  | 15.072 | 31.369  | 23.331 | 40.192  | 23.205 | 50.240  | 37.680  |
| 160  | 90    | 14.067 | 9.616  | 20.096  | 13.738 | 31.369  | 21.196 | 40.192  | 21.054 | 50.240  | 34.344  |
| 160  | 110   | 14.067 | 7.418  | 20.096  | 10.598 | 31.369  | 16.172 | 40.192  | 15.999 | 50.240  | 26.494  |
| 180  | 90    | 17.804 | 13.353 | 25.434  | 19.076 | 39.702  | 29.528 | 50.868  | 29.387 | 63.585  | 47.689  |
| 180  | 110   | 17.804 | 11.155 | 25.434  | 15.936 | 39.702  | 24.504 | 50.868  | 24.332 | 63.585  | 39.839  |
| 180  | 125   | 17.804 | 9.218  | 25.434  | 13.168 | 39.702  | 20.077 | 50.868  | 19.881 | 63.585  | 32.921  |
| 200  | 110   | 21.980 | 15.331 | 31.400  | 21.902 | 49.015  | 33.817 | 62.800  | 33.644 | 78.500  | 54.754  |
| 200  | 125   | 21.980 | 13.394 | 31.400  | 19.134 | 49.015  | 29.390 | 62.800  | 29.193 | 78.500  | 47.836  |
| 200  | 140   | 21.980 | 11.210 | 31.400  | 16.014 | 49.015  | 24.397 | 62.800  | 24.177 | 78.500  | 40.035  |
| 220  | 110   | 26.596 | 19.947 | 37.994  | 28.496 | 59.308  | 44.110 | 75.988  | 43.937 | 94.985  | 71.239  |
| 220  | 125   | 26.596 | 18.010 | 37.994  | 25.728 | 59.308  | 39.683 | 75.988  | 39.486 | 94.985  | 64.321  |
| 220  | 160   | 26.596 | 12.529 | 37.994  | 17.898 | 59.308  | 27.154 | 75.988  | 26.903 | 94.985  | 44.745  |
| 250  | 125   | 34.344 | 25.758 | 49.063  | 36.797 | 76.585  | 56.960 | 98.125  | 56.764 | 122.656 | 91.992  |
| 250  | 160   | 34.344 | 20.277 | 49.063  | 28.967 | 76.585  | 44.432 | 98.125  | 44.181 | 122.656 | 72.416  |
| 250  | 180   | 34.344 | 16.540 | 49.063  | 23.629 | 76.585  | 35.891 | 98.125  | 35.608 | 122.656 | 59.071  |
| 320  | 180   | 56.269 | 38.465 | 80.384  | 54.950 | 125.477 | 84.783 | 160.768 | 84.500 | 200.960 | 137.375 |
| 320  | 200   | 56.269 | 34.289 | 80.384  | 48.984 | 125.477 | 75.237 | 160.768 | 74.923 | 200.960 | 122.460 |
| 320  | 220   | 56.269 | 29.673 | 80.384  | 42.390 | 125.477 | 64.687 | 160.768 | 64.342 | 200.960 | 105.975 |



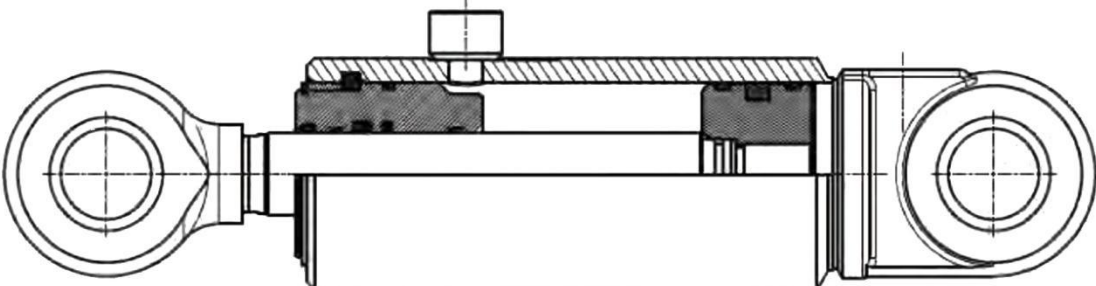
压力行程一览表



| 活塞直径 | 活塞杆直径 | 速比   | 最大行程一览表 |       |       |       |       |         |       |       |       |       |         |       |       |       |       |         |       |       |       |       |         |       |       |       |       |
|------|-------|------|---------|-------|-------|-------|-------|---------|-------|-------|-------|-------|---------|-------|-------|-------|-------|---------|-------|-------|-------|-------|---------|-------|-------|-------|-------|
|      |       |      | 70 bar  |       |       |       |       | 100 bar |       |       |       |       | 160 bar |       |       |       |       | 200 bar |       |       |       |       | 250 bar |       |       |       |       |
|      |       |      | A-B-C-D | E-F-G | H-I-J | K-L-M | N-P-Q | A-B-C-D | E-F-G | H-I-J | K-L-M | N-P-Q | A-B-C-D | E-F-G | H-I-J | K-L-M | N-P-Q | A-B-C-D | E-F-G | H-I-J | K-L-M | N-P-Q | A-B-C-D | E-F-G | H-I-J | K-L-M | N-P-Q |
| 25   | 14    | 1.46 | 200     | 280   | 320   | 252   | 400   | 150     | 263   | 300   | 236   | 375   | 118     | 236   | 270   | 213   | 338   | 92      | 236   | 270   | 213   | 308   | 68      | 215   | 246   | 213   | 270   |
| 32   | 18    | 1.46 | 256     | 358   | 410   | 323   | 512   | 192     | 336   | 384   | 302   | 480   | 151     | 302   | 346   | 272   | 432   | 118     | 302   | 346   | 272   | 394   | 86      | 276   | 315   | 272   | 346   |
| 40   | 20    | 1.33 | 300     | 420   | 480   | 378   | 600   | 224     | 392   | 448   | 353   | 560   | 175     | 350   | 400   | 315   | 500   | 136     | 350   | 400   | 315   | 452   | 98      | 316   | 362   | 315   | 392   |
|      | 22    | 1.43 | 320     | 448   | 512   | 403   | 640   | 300     | 420   | 480   | 378   | 600   | 270     | 378   | 432   | 340   | 540   | 246     | 378   | 432   | 340   | 492   | 216     | 344   | 394   | 340   | 432   |
|      | 25    | 1.64 | 340     | 476   | 544   | 428   | 680   | 320     | 448   | 512   | 403   | 640   | 290     | 406   | 464   | 365   | 580   | 266     | 406   | 464   | 365   | 532   | 236     | 372   | 426   | 365   | 472   |
| 50   | 25    | 1.33 | 375     | 525   | 600   | 473   | 750   | 350     | 490   | 560   | 441   | 700   | 313     | 438   | 500   | 394   | 625   | 283     | 438   | 500   | 394   | 565   | 245     | 396   | 452   | 394   | 490   |
|      | 28    | 1.46 | 400     | 560   | 640   | 504   | 800   | 375     | 525   | 600   | 473   | 750   | 338     | 473   | 540   | 425   | 675   | 308     | 473   | 540   | 425   | 615   | 270     | 431   | 492   | 425   | 540   |
|      | 32    | 1.69 | 425     | 595   | 680   | 536   | 850   | 400     | 560   | 640   | 504   | 800   | 363     | 508   | 580   | 457   | 725   | 333     | 508   | 580   | 457   | 665   | 295     | 466   | 532   | 457   | 590   |
| 63   | 32    | 1.35 | 473     | 662   | 756   | 595   | 945   | 441     | 617   | 706   | 556   | 882   | 394     | 551   | 630   | 496   | 788   | 356     | 551   | 630   | 496   | 712   | 309     | 498   | 570   | 496   | 617   |
|      | 36    | 1.48 | 504     | 706   | 806   | 635   | 1008  | 473     | 662   | 756   | 595   | 945   | 425     | 595   | 680   | 536   | 851   | 387     | 595   | 680   | 536   | 775   | 340     | 542   | 620   | 536   | 680   |
|      | 45    | 2.04 | 567     | 794   | 907   | 714   | 1134  | 536     | 750   | 857   | 675   | 1071  | 488     | 684   | 781   | 615   | 977   | 450     | 684   | 781   | 615   | 901   | 403     | 631   | 721   | 615   | 806   |
| 80   | 36    | 1.25 | 560     | 784   | 896   | 706   | 1120  | 520     | 728   | 832   | 655   | 1040  | 460     | 644   | 736   | 580   | 920   | 412     | 644   | 736   | 580   | 824   | 352     | 577   | 659   | 580   | 704   |
|      | 45    | 1.46 | 640     | 896   | 1024  | 806   | 1280  | 600     | 840   | 960   | 756   | 1200  | 540     | 756   | 864   | 680   | 1080  | 492     | 756   | 864   | 680   | 984   | 432     | 689   | 787   | 680   | 864   |
|      | 56    | 1.96 | 680     | 952   | 1088  | 857   | 1360  | 640     | 896   | 1024  | 806   | 1280  | 580     | 812   | 928   | 731   | 1160  | 532     | 812   | 928   | 731   | 1064  | 472     | 745   | 851   | 731   | 944   |
| 90   | 45    | 1.33 | 675     | 945   | 1080  | 851   | 1350  | 630     | 882   | 1008  | 794   | 1260  | 563     | 788   | 900   | 709   | 1125  | 509     | 788   | 900   | 709   | 1017  | 441     | 712   | 814   | 709   | 882   |
|      | 50    | 1.45 | 720     | 1008  | 1152  | 907   | 1440  | 675     | 945   | 1080  | 851   | 1350  | 608     | 851   | 972   | 765   | 1215  | 554     | 851   | 972   | 765   | 1107  | 486     | 775   | 886   | 765   | 972   |
|      | 63    | 1.96 | 810     | 1134  | 1296  | 1021  | 1620  | 765     | 1071  | 1224  | 964   | 1530  | 698     | 977   | 1116  | 879   | 1395  | 644     | 977   | 1116  | 879   | 1287  | 576     | 901   | 1030  | 879   | 1152  |
| 100  | 45    | 1.25 | 700     | 980   | 1120  | 882   | 1400  | 650     | 910   | 1040  | 819   | 1300  | 575     | 805   | 920   | 725   | 1150  | 515     | 805   | 920   | 725   | 1030  | 440     | 721   | 824   | 725   | 880   |
|      | 56    | 1.46 | 800     | 1120  | 1280  | 1008  | 1600  | 750     | 1050  | 1200  | 945   | 1500  | 675     | 945   | 1080  | 851   | 1350  | 615     | 945   | 1080  | 851   | 1230  | 540     | 861   | 984   | 851   | 1080  |
|      | 70    | 1.96 | 900     | 1260  | 1440  | 1134  | 1800  | 850     | 1190  | 1360  | 1071  | 1700  | 775     | 1085  | 1240  | 977   | 1550  | 715     | 1085  | 1240  | 977   | 1430  | 640     | 1001  | 1144  | 977   | 1280  |
| 110  | 56    | 1.35 | 825     | 1155  | 1320  | 1040  | 1650  | 770     | 1078  | 1232  | 970   | 1540  | 688     | 963   | 1100  | 866   | 1375  | 622     | 963   | 1100  | 866   | 1243  | 539     | 870   | 994   | 866   | 1078  |
|      | 63    | 1.49 | 880     | 1232  | 1408  | 1109  | 1760  | 825     | 1155  | 1320  | 1040  | 1650  | 743     | 1040  | 1188  | 936   | 1485  | 677     | 1040  | 1188  | 936   | 1353  | 594     | 947   | 1082  | 936   | 1188  |
|      | 80    | 2.12 | 990     | 1386  | 1584  | 1247  | 1980  | 935     | 1309  | 1496  | 1178  | 1870  | 853     | 1194  | 1364  | 1074  | 1705  | 787     | 1194  | 1364  | 1074  | 1573  | 704     | 1101  | 1258  | 1074  | 1408  |
| 125  | 56    | 1.25 | 875     | 1225  | 1400  | 1103  | 1750  | 813     | 1138  | 1300  | 1024  | 1625  | 719     | 1006  | 1150  | 906   | 1438  | 644     | 1006  | 1150  | 906   | 1288  | 550     | 901   | 1030  | 906   | 1100  |
|      | 70    | 1.46 | 1000    | 1400  | 1600  | 1260  | 2000  | 938     | 1313  | 1500  | 1181  | 1875  | 844     | 1181  | 1350  | 1063  | 1688  | 769     | 1181  | 1350  | 1063  | 1538  | 675     | 1076  | 1230  | 1063  | 1350  |
|      | 80    | 1.69 | 1063    | 1488  | 1700  | 1339  | 2125  | 1000    | 1400  | 1600  | 1260  | 2000  | 906     | 1269  | 1450  | 1142  | 1813  | 831     | 1269  | 1450  | 1142  | 1663  | 738     | 1164  | 1330  | 1142  | 1475  |
| 140  | 70    | 1.33 | 1050    | 1470  | 1680  | 1323  | 2100  | 980     | 1372  | 1568  | 1235  | 1960  | 875     | 1225  | 1400  | 1103  | 1750  | 791     | 1225  | 1400  | 1103  | 1582  | 686     | 1107  | 1266  | 1103  | 1372  |
|      | 80    | 1.48 | 1120    | 1568  | 1792  | 1411  | 2240  | 1050    | 1470  | 1680  | 1323  | 2100  | 945     | 1323  | 1512  | 1191  | 1890  | 861     | 1323  | 1512  | 1191  | 1722  | 756     | 1205  | 1378  | 1191  | 1512  |
|      | 90    | 1.70 | 1190    | 1666  | 1904  | 1499  | 2380  | 1120    | 1568  | 1792  | 1411  | 2240  | 1015    | 1421  | 1624  | 1279  | 2030  | 931     | 1421  | 1624  | 1279  | 1862  | 826     | 1303  | 1490  | 1279  | 1652  |
| 150  | 85    | 1.47 | 1200    | 1680  | 1920  | 1512  | 2400  | 1125    | 1575  | 1800  | 1418  | 2250  | 1013    | 1418  | 1620  | 1276  | 2025  | 923     | 1418  | 1620  | 1276  | 1845  | 810     | 1292  | 1476  | 1276  | 1620  |
|      | 95    | 1.67 | 1275    | 1785  | 2040  | 1607  | 2550  | 1200    | 1680  | 1920  | 1512  | 2400  | 1088    | 1523  | 1740  | 1370  | 2175  | 998     | 1523  | 1740  | 1370  | 1995  | 885     | 1397  | 1596  | 1370  | 1770  |
|      | 105   | 1.96 | 1350    | 1890  | 2160  | 1701  | 2700  | 1275    | 1785  | 2040  | 1607  | 2550  | 1163    | 1628  | 1860  | 1465  | 2325  | 1073    | 1628  | 1860  | 1465  | 2145  | 960     | 1502  | 1716  | 1465  | 1920  |
| 160  | 80    | 1.33 | 1120    | 1568  | 1792  | 1411  | 2240  | 1040    | 1456  | 1664  | 1310  | 2080  | 920     | 1288  | 1472  | 1159  | 1840  | 824     | 1288  | 1472  | 1159  | 1648  | 704     | 1154  | 1318  | 1159  | 1408  |
|      | 90    | 1.46 | 1280    | 1792  | 2048  | 1613  | 2560  | 1200    | 1680  | 1920  | 1512  | 2400  | 1080    | 1512  | 1728  | 1361  | 2160  | 984     | 1512  | 1728  | 1361  | 1968  | 864     | 1378  | 1574  | 1361  | 1728  |
|      | 110   | 1.90 | 1440    | 2016  | 2304  | 1814  | 2880  | 1360    | 1904  | 2176  | 1714  | 2720  | 1240    | 1736  | 1984  | 1562  | 2480  | 1144    | 1736  | 1984  | 1562  | 2288  | 1024    | 1602  | 1830  | 1562  | 2048  |
| 180  | 90    | 1.33 | 1260    | 1764  | 2016  | 1588  | 2520  | 1170    | 1638  | 1872  | 1474  | 23403 |         |       |       |       |       |         |       |       |       |       |         |       |       |       |       |



产品代码



|       |     |     |   |   |   |   |   |  |   |
|-------|-----|-----|---|---|---|---|---|--|---|
| YWHSG | 250 | D/d | S | A | 0 | 1 | C |  | 1 |
|-------|-----|-----|---|---|---|---|---|--|---|

产品系列

额定压力

D——缸径 (mm)

d——杆径 (mm)

S——行程 (mm)

安装方式

A=前后耳环带衬套

B=前后耳环带关节轴承

C=杆端螺纹, 后耳环带衬套

D =杆端螺纹, 后耳环带关节轴承

E=中间轴销, 前耳环带衬套

G=中间轴销, 前耳环带关节轴承

F=中间轴销, 杆端螺纹

H=中间法兰, 前耳环带衬套

I=中间法兰, 前耳环带关节轴承

J=中间法兰, 杆端螺纹

K=尾部法兰, 前耳环带衬套

L=尾部法兰, 前耳环带关节轴承

M=尾部法兰, 杆端螺纹

N =前部法兰, 前耳环带衬套

P=前部法兰, 前耳环带关节轴承

Q =前部法兰, 杆端螺纹

密封款式  
(见表1)

杆端螺纹

B= 标准螺纹

C= 标准外螺纹

E= 内螺纹

F= 加长螺纹

活塞杆处理方式

C= 镀硬铬

H= 淬火+镀硬铬

N= 镍化+镀硬铬

油口代号

1=公制油口(M)

2=英制油口(G)

缓冲

0= 前后不带缓冲

1= 两端缓冲

2= 后缸头端带缓冲

3= 杆端带缓冲

密封款式表

| 组别 | 类型         | 密封材料组合                      | 油液介质按ISO 6743/4-1982                               | 温度范围        |
|----|------------|-----------------------------|----------------------------------------------------|-------------|
| 1  | 标准         | 丁腈橡胶(NBR)、聚四氟乙烯、增强聚氨酯(AU)   | 矿物油HH、HL、HLP、HLP-D、HM、HV、MIL-H-5606油, 空气、氨气        | -20°C~ 80°C |
| 2  | 同1, 不包含聚氨酯 | 丁腈橡胶(NBR)、聚四氟乙烯             | 水、乙二醇                                              | -20°C ~60°C |
| 3  | 高温         | 氟橡胶(FPM)、聚四氟乙烯              | 基于磷酸酯的难燃液(HF-R)还适用于高温环境下液压油。但不适于Skvdrol合用。见油液制造商建议 | -20°C~150°C |
| 4  | 水基液        | 各种材料, 包括丁腈橡胶增强聚氨酯、氟橡胶和聚四氟乙烯 | 水、水包油乳化液95/5(HFA)                                  | 5°C~55°C    |
| 5  |            |                             | 油包水乳化液60/40(HFB)                                   | 5°C-60°C    |
| 6  | 其他         | -                           | -                                                  | -           |

HSGK系列安装方式

前后耳环带衬套  
A



前后耳环带关节轴承  
B



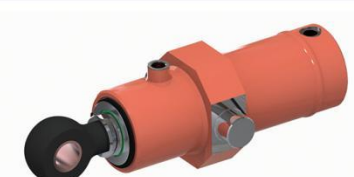
杆端螺纹后耳环带衬套  
C



杆端螺纹后耳环带关节轴承  
D



中间轴销前耳环带衬套  
E



中间轴销后耳环带关节轴承  
F



中间轴销杆端螺纹  
G



中间法兰前耳环带衬套  
H



中间法兰前耳环带关节轴承  
I



中间法兰杆端螺纹  
J



尾部法兰前耳环带衬套  
K



尾部法兰前耳环带关节轴承  
L



尾部法兰杆端螺纹  
M



前部法兰前耳环带衬套  
N



前部法兰前耳环带关节轴承  
P

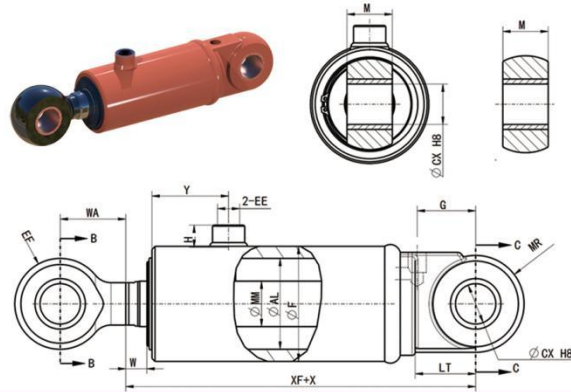


前部法兰杆端螺纹  
Q

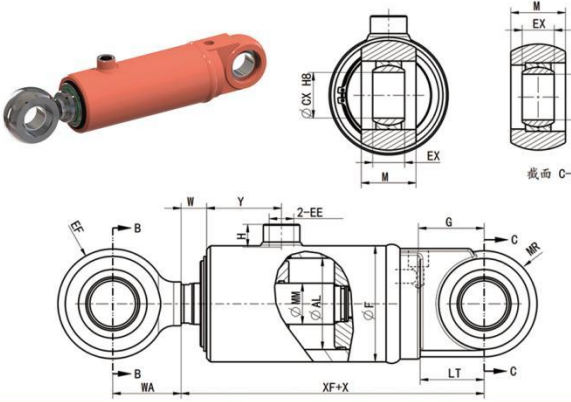




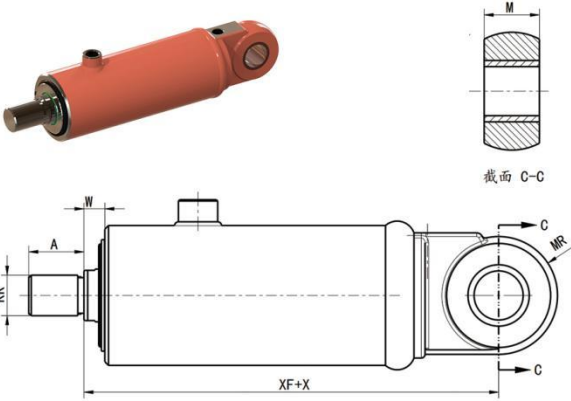
HSGK-前后耳环带衬套 A



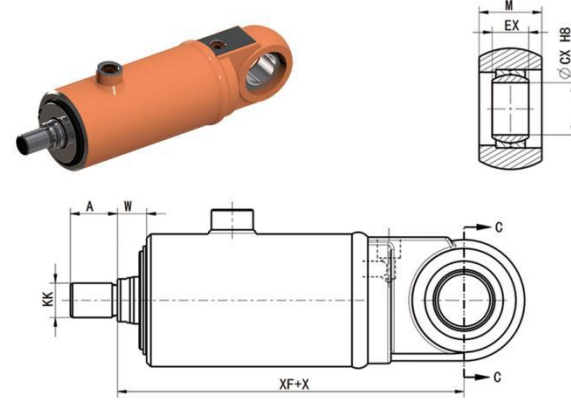
HSGK-前后耳环带关节轴承 B



HSGK-杆端螺纹后耳环带衬套 C



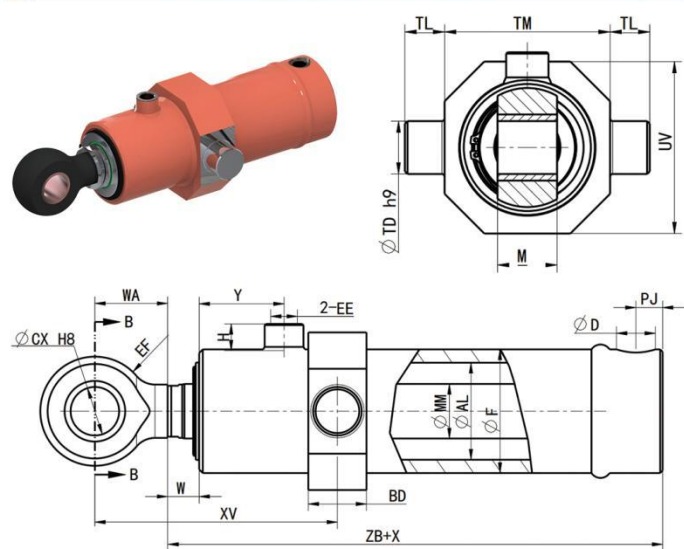
HSGK-杆端螺纹后耳环带关节轴承 D



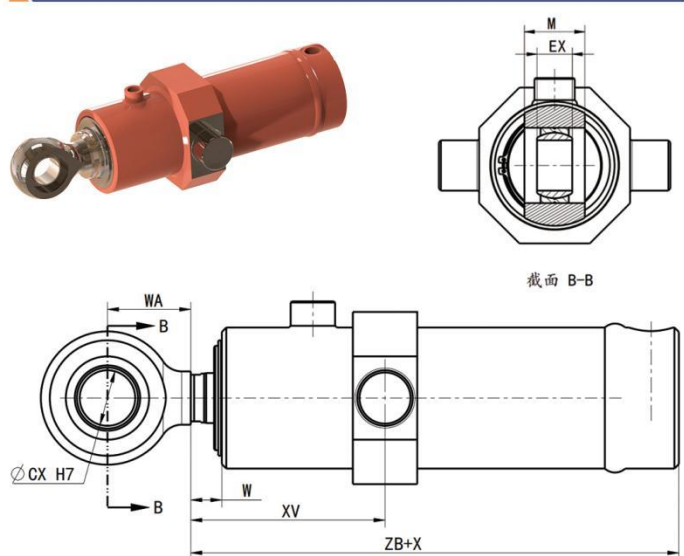
| Φ<br>AL | ΦMM | KK      |        |        | A     |     | EE     |           | Y   | WA  | W  | H  | F   | G   | LT  | ΦCX | MR(R) | M   | EX | XF  |
|---------|-----|---------|--------|--------|-------|-----|--------|-----------|-----|-----|----|----|-----|-----|-----|-----|-------|-----|----|-----|
|         |     | 杆端螺纹    |        |        |       |     | BSPP   | ISO9974-1 |     |     |    |    |     |     |     |     |       |     |    |     |
|         |     | C       | B,E    | F      | C,E,B | F   | 01     | 02        |     |     |    |    |     |     |     |     |       |     |    |     |
| 80      | 36  | M33X1.5 | M27X2  | M27X2  | 45    | 45  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 102 | 58  | 60  | 40  | 48    | 45  | 28 | 252 |
|         | 45  | M33X1.5 | M33X2  | M39X3  | 55    | 60  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 102 | 58  | 60  | 40  | 48    | 45  | 28 | 252 |
|         | 56  | M33X1.5 | M33X2  | M48X2  | 55    | 80  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 102 | 58  | 60  | 40  | 48    | 45  | 28 | 252 |
| 90      | 45  | M36X2   | M33X2  | M39X3  | 55    | 60  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 114 | 58  | 60  | 40  | 48    | 45  | 28 | 252 |
|         | 50  | M36X2   | M33X2  | M42X2  | 55    | 70  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 114 | 58  | 60  | 40  | 48    | 45  | 28 | 252 |
|         | 63  | M36X2   | M42X2  | M48X2  | 65    | 80  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 114 | 58  | 60  | 40  | 48    | 45  | 28 | 252 |
| 100     | 45  | M42X2   | M33X2  | M39X3  | 55    | 60  | G3/4   | M27X2     | 82  | 75  | 28 | 25 | 127 | 63  | 73  | 50  | 58    | 60  | 35 | 285 |
|         | 56  | M42X2   | M33X2  | M48X2  | 55    | 80  | G3/4   | M27X2     | 82  | 75  | 28 | 25 | 127 | 63  | 73  | 50  | 58    | 60  | 35 | 285 |
|         | 70  | M42X2   | M48X2  | M56X2  | 65    | 90  | G3/4   | M27X2     | 82  | 75  | 28 | 25 | 127 | 63  | 73  | 50  | 58    | 60  | 35 | 285 |
| 110     | 56  | M48X2   | M33X2  | M48X2  | 55    | 80  | G3/4   | M27X2     | 87  | 80  | 33 | 25 | 140 | 63  | 73  | 50  | 58    | 60  | 35 | 300 |
|         | 63  | M48X2   | M42X2  | M48X2  | 65    | 80  | G3/4   | M27X2     | 87  | 80  | 33 | 25 | 140 | 63  | 73  | 50  | 58    | 60  | 35 | 300 |
|         | 80  | M48X2   | M56X2  | M64X3  | 80    | 100 | G3/4   | M27X2     | 87  | 80  | 33 | 25 | 140 | 63  | 73  | 50  | 58    | 60  | 35 | 300 |
| 125     | 56  | M52X2   | M33X2  | M48X2  | 55    | 80  | G3/4   | M27X2     | 95  | 90  | 34 | 28 | 152 | 72  | 75  | 50  | 62.5  | 60  | 35 | 330 |
|         | 70  | M52X2   | M48X2  | M56X2  | 65    | 90  | G3/4   | M27X2     | 95  | 90  | 34 | 28 | 152 | 72  | 75  | 50  | 62.5  | 60  | 35 | 330 |
|         | 80  | M52X2   | M56X2  | M64X3  | 80    | 100 | G3/4   | M27X2     | 95  | 90  | 34 | 28 | 152 | 72  | 75  | 50  | 62.5  | 60  | 35 | 330 |
| 140     | 70  | M60X2   | M48X2  | M56X2  | 65    | 90  | G3/4   | M27X2     | 100 | 90  | 37 | 25 | 168 | 72  | 75  | 60  | 70    | 70  | 44 | 346 |
|         | 80  | M60X2   | M56X2  | M64X3  | 80    | 100 | G3/4   | M27X2     | 100 | 90  | 37 | 25 | 168 | 72  | 75  | 60  | 70    | 70  | 44 | 346 |
|         | 90  | M60X2   | M56X2  | M80X3  | 80    | 100 | G3/4   | M27X2     | 100 | 90  | 37 | 25 | 168 | 72  | 75  | 60  | 70    | 70  | 44 | 346 |
| 150     | 85  | M64X2   | M56X2  | M64X3  | 80    | 100 | G 1    | M33X2     | 112 | 95  | 38 | 35 | 182 | 100 | 75  | 60  | 70    | 70  | 44 | 434 |
|         | 95  | M64X2   | M56X2  | M80X3  | 80    | 100 | G 1    | M33X2     | 112 | 95  | 38 | 35 | 182 | 100 | 75  | 60  | 70    | 70  | 44 | 434 |
|         | 105 | M64X2   | M64X3  | M90X3  | 100   | 120 | G 1    | M33X2     | 112 | 95  | 38 | 35 | 182 | 100 | 75  | 60  | 70    | 70  | 44 | 434 |
| 160     | 80  | M68X2   | M56X2  | M64X3  | 80    | 100 | G 1    | M33X2     | 115 | 105 | 30 | 35 | 194 | 75  | 75  | 60  | 70    | 70  | 44 | 365 |
|         | 90  | M68X2   | M56X2  | M80X3  | 80    | 100 | G 1    | M33X2     | 115 | 105 | 30 | 35 | 194 | 75  | 75  | 60  | 70    | 70  | 44 | 365 |
|         | 110 | M68X2   | M64X3  | M90X3  | 100   | 120 | G 1    | M33X2     | 115 | 105 | 30 | 35 | 194 | 75  | 75  | 60  | 70    | 70  | 44 | 365 |
| 180     | 90  | M76X3   | M56X2  | M80X3  | 80    | 100 | G 1    | M33X2     | 117 | 110 | 34 | 35 | 219 | 120 | 85  | 70  | 80    | 80  | 49 | 447 |
|         | 110 | M76X3   | M64X3  | M90X3  | 100   | 120 | G 1    | M33X2     | 117 | 110 | 34 | 35 | 219 | 120 | 85  | 70  | 80    | 80  | 49 | 447 |
|         | 125 | M76X3   | M80X3  | M100X3 | 100   | 150 | G 1    | M33X2     | 117 | 110 | 34 | 35 | 219 | 120 | 85  | 70  | 80    | 80  | 49 | 447 |
| 200     | 110 | M85X3   | M72X3  | M90X3  | 100   | 120 | G1-1/4 | M42X2     | 125 | 120 | 35 | 45 | 245 | 135 | 95  | 80  | 95    | 95  | 55 | 475 |
|         | 125 | M85X3   | M80X3  | M100X3 | 120   | 150 | G1-1/4 | M42X2     | 125 | 120 | 35 | 45 | 245 | 135 | 95  | 80  | 95    | 95  | 55 | 475 |
|         | 140 | M85X3   | M90X3  | M110X4 | 120   | 150 | G1-1/4 | M42X2     | 125 | 120 | 35 | 45 | 245 | 135 | 95  | 80  | 95    | 95  | 55 | 475 |
| 220     | 110 | M95X3   | M64X3  | M90X3  | 100   | 140 | G1-1/4 | M42X2     | 130 | 140 | 35 | 45 | 273 | 145 | 105 | 90  | 105   | 105 | 60 | 503 |
|         | 125 | M95X3   | M80X3  | M100X3 | 120   | 150 | G1-1/4 | M42X2     | 130 | 140 | 35 | 45 | 273 | 145 | 105 | 90  | 105   | 105 | 60 | 503 |
|         | 160 | M95X3   | M100X3 | M120X4 | 120   | 160 | G1-1/4 | M42X2     | 130 | 140 | 35 | 45 | 273 | 145 | 105 | 90  | 105   | 105 | 60 | 503 |
| 250     | 125 | M105X3  | M80X3  | M100X3 | 120   | 150 | G1-1/4 | M42X2     | 140 | 170 | 35 | 45 | 299 | 155 | 115 | 100 | 120   | 115 | 70 | 541 |
|         | 160 | M105X3  | M100X3 | M120X4 | 130   | 160 | G1-1/4 | M42X2     | 140 | 170 | 35 | 45 | 299 | 155 | 115 | 100 | 120   | 115 | 70 | 541 |
|         | 180 | M105X3  | M110X4 | M150X4 | 130   | 200 | G1-1/4 | M42X2     | 140 | 170 | 35 | 45 | 299 | 155 | 115 | 100 | 120   | 115 | 70 | 541 |
| 320     | 180 | M160X4  | M125X4 | M150X4 | 140   | 180 | G1-1/4 | M42X2     | 170 | 170 | 40 | 45 | 377 | 240 | 200 | 140 | 160   | 150 | 90 | 706 |
|         | 200 | M160X4  | M125X4 | M160X4 | 140   | 230 | G1-1/4 | M42X2     | 170 | 170 | 40 | 45 | 377 | 240 | 200 | 140 | 160   | 150 | 90 | 706 |
|         | 220 | M160X4  | M125X4 | M160X4 | 140   | 230 | G1-1/4 | M42X2     | 170 | 170 | 40 | 45 | 377 | 240 | 200 | 140 | 160   | 150 | 90 | 706 |



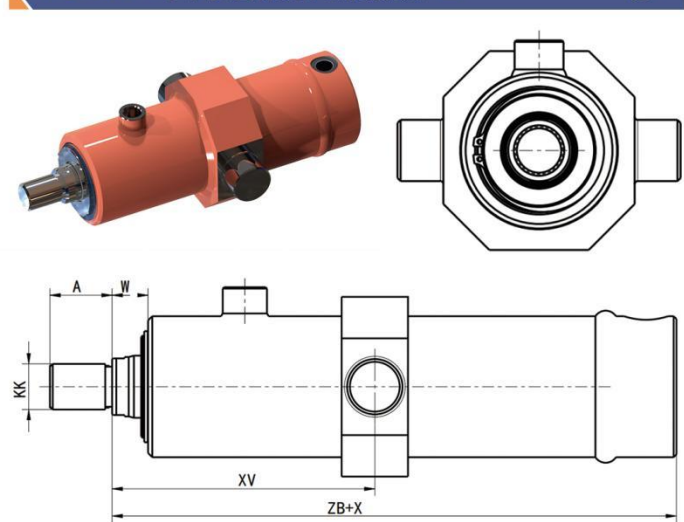
HSGK-中间轴销前耳环带衬套 E



HSGK-中间轴销后耳环带关节轴承 F



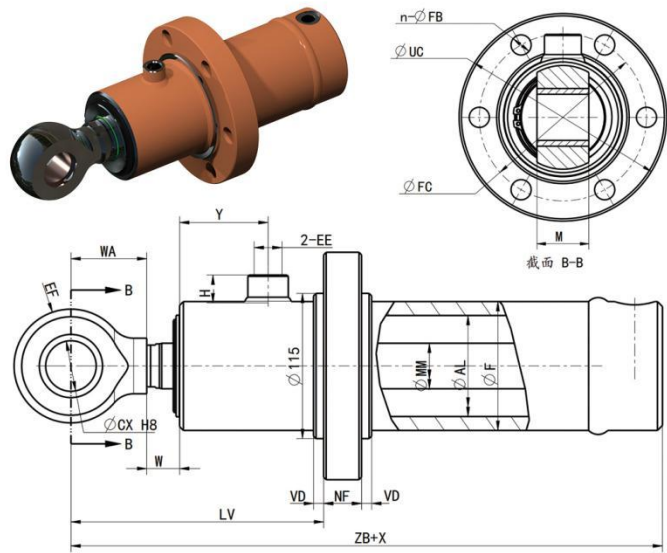
HSGK-中间轴销杆端螺纹 G



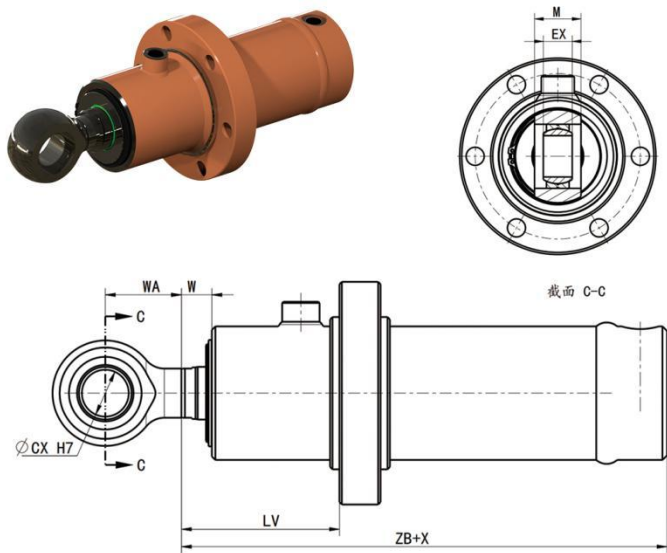
| Φ<br>AL | Φ<br>MM | KK      |        |        | A     |     | EE     |           | Y   | WA  | W  | H  | F   | PJ | TD<br>h8 | TL | TM  | BD  | XVmin | XV | UV  | ZB  |
|---------|---------|---------|--------|--------|-------|-----|--------|-----------|-----|-----|----|----|-----|----|----------|----|-----|-----|-------|----|-----|-----|
|         |         | 杆端螺纹    |        |        |       |     | BSPP   | ISO9974-1 |     |     |    |    |     |    |          |    |     |     |       |    |     |     |
|         |         | C       | B,E    | F      | C,E,B | F   | 01     | 02        |     |     |    |    |     |    |          |    |     |     |       |    |     |     |
| 80      | 36      | M33X1.5 | M27X2  | M27X2  | 45    | 45  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 102 | 22 | 40       | 30 | 125 | 48  | 158   |    | 130 | 208 |
|         | 45      | M33X1.5 | M33X2  | M39X3  | 55    | 60  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 102 | 22 | 40       | 30 | 125 | 48  | 158   |    | 130 | 208 |
|         | 56      | M33X1.5 | M33X2  | M48X2  | 55    | 80  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 102 | 22 | 40       | 30 | 125 | 48  | 158   |    | 130 | 208 |
| 90      | 45      | M36X2   | M33X2  | M39X3  | 55    | 60  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 114 | 23 | 45       | 35 | 145 | 58  | 163   |    | 155 | 215 |
|         | 50      | M36X2   | M33X2  | M42X2  | 55    | 70  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 114 | 23 | 45       | 35 | 145 | 58  | 163   |    | 155 | 215 |
|         | 63      | M36X2   | M42X2  | M48X2  | 65    | 80  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 114 | 23 | 45       | 35 | 145 | 58  | 163   |    | 155 | 215 |
| 100     | 45      | M42X2   | M33X2  | M39X3  | 55    | 60  | G3/4   | M27X2     | 82  | 75  | 28 | 25 | 127 | 25 | 50       | 40 | 150 | 58  | 176   |    | 155 | 240 |
|         | 56      | M42X2   | M33X2  | M48X2  | 55    | 80  | G3/4   | M27X2     | 82  | 75  | 28 | 25 | 127 | 25 | 50       | 40 | 150 | 58  | 176   |    | 155 | 240 |
|         | 70      | M42X2   | M48X2  | M56X2  | 65    | 90  | G3/4   | M27X2     | 82  | 75  | 28 | 25 | 127 | 25 | 50       | 40 | 150 | 58  | 176   |    | 155 | 240 |
| 110     | 56      | M48X2   | M33X2  | M48X2  | 55    | 80  | G3/4   | M27X2     | 87  | 80  | 33 | 25 | 140 | 25 | 60       | 40 | 170 | 73  | 193.5 |    | 180 | 253 |
|         | 63      | M48X2   | M42X2  | M48X2  | 65    | 80  | G3/4   | M27X2     | 87  | 80  | 33 | 25 | 140 | 25 | 60       | 40 | 170 | 73  | 193.5 |    | 180 | 253 |
|         | 80      | M48X2   | M56X2  | M64X3  | 80    | 100 | G3/4   | M27X2     | 87  | 80  | 33 | 25 | 140 | 25 | 60       | 40 | 170 | 73  | 193.5 |    | 180 | 253 |
| 125     | 56      | M52X2   | M33X2  | M48X2  | 55    | 80  | G3/4   | M27X2     | 95  | 85  | 34 | 28 | 152 | 30 | 60       | 40 | 185 | 73  | 202.5 |    | 195 | 281 |
|         | 70      | M52X2   | M48X2  | M56X2  | 65    | 90  | G3/4   | M27X2     | 95  | 90  | 34 | 28 | 152 | 30 | 60       | 40 | 185 | 73  | 202.5 |    | 195 | 281 |
|         | 80      | M52X2   | M56X2  | M64X3  | 80    | 100 | G3/4   | M27X2     | 95  | 90  | 34 | 28 | 152 | 30 | 60       | 40 | 185 | 73  | 202.5 |    | 195 | 281 |
| 140     | 70      | M60X2   | M48X2  | M56X2  | 65    | 90  | G3/4   | M27X2     | 100 | 90  | 37 | 25 | 168 | 28 | 70       | 50 | 200 | 78  | 213   |    | 210 | 294 |
|         | 80      | M60X2   | M56X2  | M64X3  | 80    | 100 | G3/4   | M27X2     | 100 | 90  | 37 | 25 | 168 | 28 | 70       | 50 | 200 | 78  | 213   |    | 210 | 294 |
|         | 90      | M60X2   | M56X2  | M80X3  | 80    | 100 | G3/4   | M27X2     | 100 | 90  | 37 | 25 | 168 | 28 | 70       | 50 | 200 | 78  | 213   |    | 210 | 294 |
| 150     | 85      | M64X2   | M56X2  | M64X3  | 80    | 100 | G 1    | M33X2     | 112 | 95  | 38 | 35 | 182 | 25 | 80       | 50 | 215 | 88  | 237   |    | 230 | 315 |
|         | 95      | M64X2   | M56X2  | M80X3  | 80    | 100 | G 1    | M33X2     | 112 | 95  | 38 | 35 | 182 | 25 | 80       | 50 | 215 | 88  | 237   |    | 230 | 315 |
|         | 105     | M64X2   | M64X3  | M90X3  | 100   | 120 | G 1    | M33X2     | 112 | 95  | 38 | 35 | 182 | 25 | 80       | 50 | 215 | 88  | 237   |    | 230 | 315 |
| 160     | 80      | M68X2   | M56X2  | M64X3  | 80    | 100 | G 1    | M33X2     | 115 | 105 | 30 | 35 | 194 | 35 | 80       | 50 | 235 | 88  | 232   |    | 250 | 329 |
|         | 90      | M68X2   | M56X2  | M80X3  | 80    | 100 | G 1    | M33X2     | 115 | 105 | 30 | 35 | 194 | 35 | 80       | 50 | 235 | 88  | 232   |    | 250 | 329 |
|         | 110     | M68X2   | M64X3  | M90X3  | 100   | 120 | G 1    | M33X2     | 115 | 105 | 30 | 35 | 194 | 35 | 80       | 50 | 235 | 88  | 232   |    | 250 | 329 |
| 180     | 90      | M76X3   | M56X2  | M80X3  | 80    | 100 | G 1    | M33X2     | 117 | 110 | 34 | 35 | 219 | 35 | 90       | 55 | 255 | 98  | 243   |    | 270 | 349 |
|         | 110     | M76X3   | M64X3  | M90X3  | 100   | 120 | G 1    | M33X2     | 117 | 110 | 34 | 35 | 219 | 35 | 90       | 55 | 255 | 98  | 243   |    | 270 | 349 |
|         | 125     | M76X3   | M80X3  | M100X3 | 100   | 150 | G 1    | M33X2     | 117 | 110 | 34 | 35 | 219 | 35 | 90       | 55 | 255 | 98  | 243   |    | 270 | 349 |
| 200     | 110     | M85X3   | M72X3  | M90X3  | 100   | 120 | G1-1/4 | M42X2     | 125 | 120 | 35 | 45 | 245 | 40 | 100      | 60 | 285 | 108 | 266   |    | 305 | 377 |
|         | 125     | M85X3   | M80X3  | M100X3 | 120   | 150 | G1-1/4 | M42X2     | 125 | 120 | 35 | 45 | 245 | 40 | 100      | 60 | 285 | 108 | 266   |    | 305 | 377 |
|         | 140     | M85X3   | M90X3  | M110X4 | 120   | 150 | G1-1/4 | M42X2     | 125 | 120 | 35 | 45 | 245 | 40 | 100      | 60 | 285 | 108 | 266   |    | 305 | 377 |
| 220     | 110     | M95X3   | M64X3  | M90X3  | 100   | 140 | G1-1/4 | M42X2     | 130 | 140 | 35 | 45 | 273 | 40 | 110      | 60 | 320 | 118 | 276   |    | 340 | 395 |
|         | 125     | M95X3   | M80X3  | M100X3 | 120   | 150 | G1-1/4 | M42X2     | 130 | 140 | 35 | 45 | 273 | 40 | 110      | 60 | 320 | 118 | 276   |    | 340 | 395 |
|         | 160     | M95X3   | M100X3 | M120X4 | 120   | 160 | G1-1/4 | M42X2     | 130 | 140 | 35 | 45 | 273 | 40 | 110      | 60 | 320 | 118 | 276   |    | 340 | 395 |
| 250     | 125     | M105X3  | M80X3  | M100X3 | 120   | 150 | G1-1/4 | M42X2     | 140 | 170 | 35 | 45 | 299 | 40 | 120      | 70 | 350 | 133 | 293.5 |    | 370 | 423 |
|         | 160     | M105X3  | M100X3 | M120X4 | 130   | 160 | G1-1/4 | M42X2     | 140 | 170 | 35 | 45 | 299 | 40 | 120      | 70 | 350 | 133 | 293.5 |    | 370 | 423 |
|         | 180     | M105X3  | M110X4 | M150X4 | 130   | 200 | G1-1/4 | M42X2     | 140 | 170 | 35 | 45 | 299 | 40 | 120      | 70 | 350 | 133 | 293.5 |    | 370 | 423 |
| 320     | 180     | M160X4  | M125X4 | M150X4 | 140   | 180 | G1-1/4 | M42X2     | 170 | 170 | 40 | 45 | 377 | 45 | 150      | 90 | 450 | 165 | 344.5 |    | 460 | 493 |
|         | 200     | M160X4  | M125X4 | M160X4 | 140   | 230 | G1-1/4 | M42X2     | 170 | 170 | 40 | 45 | 377 | 45 | 150      | 90 | 450 | 165 | 344.5 |    | 460 | 493 |
|         | 220     | M160X4  | M125X4 | M160X4 | 140   | 230 | G1-1/4 | M42X2     | 170 | 170 | 40 | 45 | 377 | 45 | 150      | 90 | 450 | 165 | 344.5 |    | 460 | 493 |



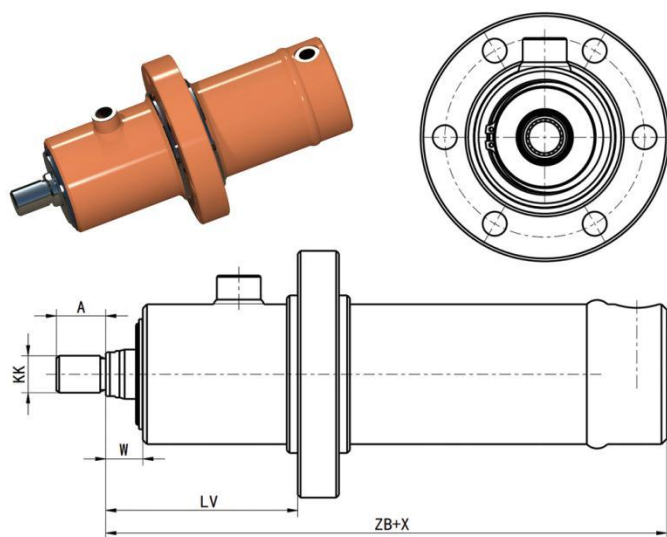
HSGK-中间法兰前耳环带衬套 H



HSGK-中间法兰前耳环带关节轴承 I



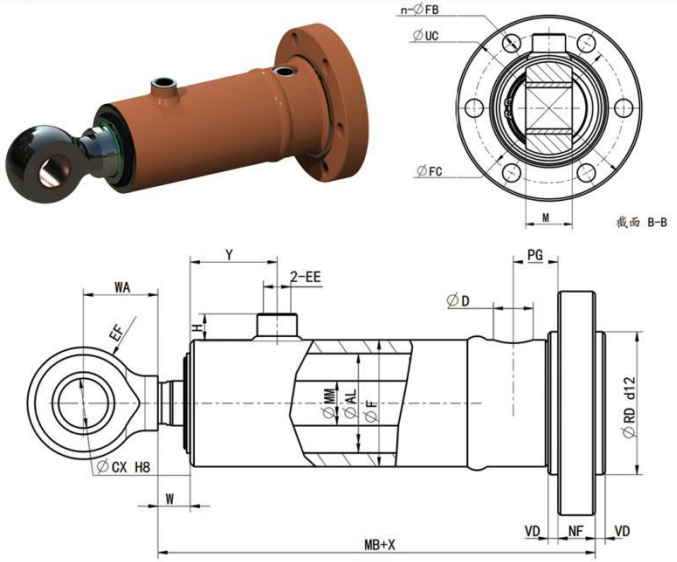
HSGK-中间法兰杆端螺纹 J



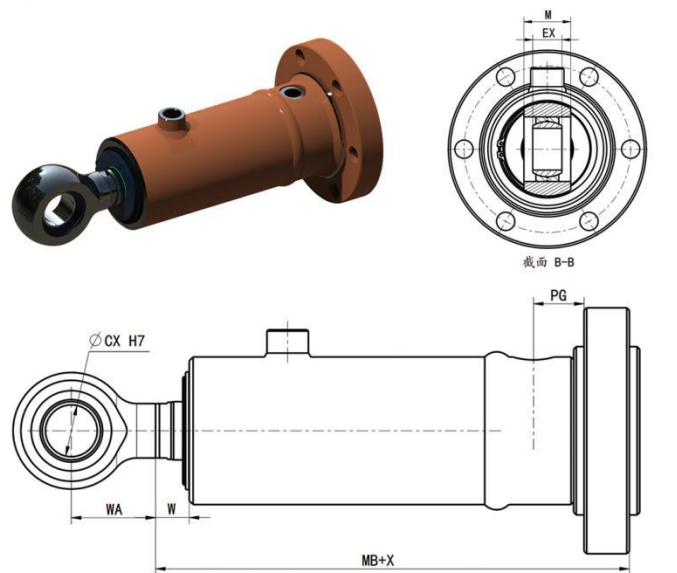
| Φ<br>AL | Φ<br>MM | KK      |        |        | A     |     | EE     |           | Y   | WA  | W  | H  | F   | PJ | Φ<br>UC | Φ<br>FC | n  | ΦFB  | RD  | NF  | VD | LVmin | MV  | ZB  |
|---------|---------|---------|--------|--------|-------|-----|--------|-----------|-----|-----|----|----|-----|----|---------|---------|----|------|-----|-----|----|-------|-----|-----|
|         |         | 杆端螺纹    |        |        |       |     | BSPB   | ISO9974-1 |     |     |    |    |     |    |         |         |    |      |     |     |    |       |     |     |
|         |         | C       | B,E    | F      | C,E,B | F   | 01     | 02        |     |     |    |    |     |    |         |         |    |      |     |     |    |       |     |     |
| 80      | 36      | M33X1.5 | M27X2  | M27X2  | 45    | 45  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 102 | 22 | 180     | 145     | 6  | 17.5 | 115 | 30  | 8  | 116   | 249 | 208 |
|         | 45      | M33X1.5 | M33X2  | M39X3  | 55    | 60  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 102 | 22 | 180     | 145     | 6  | 17.5 | 115 | 30  | 8  | 116   | 249 | 208 |
|         | 56      | M33X1.5 | M33X2  | M48X2  | 55    | 80  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 102 | 22 | 180     | 145     | 6  | 17.5 | 115 | 30  | 8  | 116   | 249 | 208 |
| 90      | 45      | M36X2   | M33X2  | M39X3  | 55    | 60  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 114 | 23 | 190     | 160     | 6  | 17.5 | 130 | 35  | 8  | 122   | 249 | 215 |
|         | 50      | M36X2   | M33X2  | M42X2  | 55    | 70  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 114 | 23 | 190     | 160     | 6  | 17.5 | 130 | 35  | 8  | 122   | 249 | 215 |
|         | 63      | M36X2   | M42X2  | M48X2  | 65    | 80  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 114 | 23 | 190     | 160     | 6  | 17.5 | 130 | 35  | 8  | 122   | 249 | 215 |
| 100     | 45      | M42X2   | M33X2  | M39X3  | 55    | 60  | G3/4   | M27X2     | 82  | 75  | 28 | 25 | 127 | 25 | 215     | 180     | 6  | 22   | 145 | 37  | 8  | 148   | 283 | 240 |
|         | 56      | M42X2   | M33X2  | M48X2  | 55    | 80  | G3/4   | M27X2     | 82  | 75  | 28 | 25 | 127 | 25 | 215     | 180     | 6  | 22   | 145 | 37  | 8  | 148   | 283 | 240 |
|         | 70      | M42X2   | M48X2  | M56X2  | 65    | 90  | G3/4   | M27X2     | 82  | 75  | 28 | 25 | 127 | 25 | 215     | 180     | 6  | 22   | 145 | 37  | 8  | 148   | 283 | 240 |
| 110     | 56      | M48X2   | M33X2  | M48X2  | 55    | 80  | G3/4   | M27X2     | 87  | 80  | 33 | 25 | 140 | 25 | 240     | 200     | 6  | 26   | 160 | 40  | 8  | 155   | 303 | 253 |
|         | 63      | M48X2   | M42X2  | M48X2  | 65    | 80  | G3/4   | M27X2     | 87  | 80  | 33 | 25 | 140 | 25 | 240     | 200     | 6  | 26   | 160 | 40  | 8  | 155   | 303 | 253 |
|         | 80      | M48X2   | M56X2  | M64X3  | 80    | 100 | G3/4   | M27X2     | 87  | 80  | 33 | 25 | 140 | 25 | 240     | 200     | 6  | 26   | 160 | 40  | 8  | 155   | 303 | 253 |
| 125     | 56      | M52X2   | M33X2  | M48X2  | 55    | 80  | G3/4   | M27X2     | 95  | 85  | 34 | 28 | 152 | 30 | 260     | 220     | 6  | 26   | 175 | 45  | 10 | 167   | 334 | 281 |
|         | 70      | M52X2   | M48X2  | M56X2  | 65    | 90  | G3/4   | M27X2     | 95  | 90  | 34 | 28 | 152 | 30 | 260     | 220     | 6  | 26   | 175 | 45  | 10 | 167   | 334 | 281 |
|         | 80      | M52X2   | M56X2  | M64X3  | 80    | 100 | G3/4   | M27X2     | 95  | 90  | 34 | 28 | 152 | 30 | 260     | 220     | 6  | 26   | 175 | 45  | 10 | 167   | 334 | 281 |
| 140     | 70      | M60X2   | M48X2  | M56X2  | 65    | 90  | G3/4   | M27X2     | 100 | 90  | 37 | 25 | 168 | 28 | 300     | 250     | 6  | 33   | 200 | 50  | 10 | 190   | 350 | 294 |
|         | 80      | M60X2   | M56X2  | M64X3  | 80    | 100 | G3/4   | M27X2     | 100 | 90  | 37 | 25 | 168 | 28 | 300     | 250     | 6  | 33   | 200 | 50  | 10 | 190   | 350 | 294 |
|         | 90      | M60X2   | M56X2  | M80X3  | 80    | 100 | G3/4   | M27X2     | 100 | 90  | 37 | 25 | 168 | 28 | 300     | 250     | 6  | 33   | 200 | 50  | 10 | 190   | 350 | 294 |
| 150     | 85      | M64X2   | M56X2  | M64X3  | 80    | 100 | G 1    | M33X2     | 112 | 95  | 38 | 35 | 182 | 25 | 320     | 260     | 6  | 33   | 205 | 55  | 10 | 195   | 358 | 315 |
|         | 95      | M64X2   | M56X2  | M80X3  | 80    | 100 | G 1    | M33X2     | 112 | 95  | 38 | 35 | 182 | 25 | 320     | 260     | 6  | 33   | 205 | 55  | 10 | 195   | 358 | 315 |
|         | 105     | M64X2   | M64X3  | M90X3  | 100   | 120 | G 1    | M33X2     | 112 | 95  | 38 | 35 | 182 | 25 | 320     | 260     | 6  | 33   | 205 | 55  | 10 | 195   | 358 | 315 |
| 160     | 80      | M68X2   | M56X2  | M64X3  | 80    | 100 | G 1    | M33X2     | 115 | 105 | 30 | 35 | 194 | 35 | 330     | 275     | 6  | 33   | 220 | 57  | 10 | 205   | 390 | 329 |
|         | 90      | M68X2   | M56X2  | M80X3  | 80    | 100 | G 1    | M33X2     | 115 | 105 | 30 | 35 | 194 | 35 | 330     | 275     | 6  | 33   | 220 | 57  | 10 | 205   | 390 | 329 |
|         | 110     | M68X2   | M64X3  | M90X3  | 100   | 120 | G 1    | M33X2     | 115 | 105 | 30 | 35 | 194 | 35 | 330     | 275     | 6  | 33   | 220 | 57  | 10 | 205   | 390 | 329 |
| 180     | 90      | M76X3   | M56X2  | M80X3  | 80    | 100 | G 1    | M33X2     | 117 | 110 | 34 | 35 | 219 | 35 | 355     | 300     | 8  | 33   | 245 | 60  | 10 | 220   | 415 | 349 |
|         | 110     | M76X3   | M64X3  | M90X3  | 100   | 120 | G 1    | M33X2     | 117 | 110 | 34 | 35 | 219 | 35 | 355     | 300     | 8  | 33   | 245 | 60  | 10 | 220   | 415 | 349 |
|         | 125     | M76X3   | M80X3  | M100X3 | 100   | 150 | G 1    | M33X2     | 117 | 110 | 34 | 35 | 219 | 35 | 355     | 300     | 8  | 33   | 245 | 60  | 10 | 220   | 415 | 349 |
| 200     | 110     | M85X3   | M72X3  | M90X3  | 100   | 120 | G1-1/4 | M42X2     | 125 | 120 | 35 | 45 | 245 | 40 | 390     | 330     | 8  | 33   | 275 | 60  | 10 | 240   | 448 | 377 |
|         | 125     | M85X3   | M80X3  | M100X3 | 120   | 150 | G1-1/4 | M42X2     | 125 | 120 | 35 | 45 | 245 | 40 | 390     | 330     | 8  | 33   | 275 | 60  | 10 | 240   | 448 | 377 |
|         | 140     | M85X3   | M90X3  | M110X4 | 120   | 150 | G1-1/4 | M42X2     | 125 | 120 | 35 | 45 | 245 | 40 | 390     | 330     | 8  | 33   | 275 | 60  | 10 | 240   | 448 | 377 |
| 220     | 110     | M95X3   | M64X3  | M90X3  | 100   | 140 | G1-1/4 | M42X2     | 130 | 140 | 35 | 45 | 273 | 40 | 440     | 370     | 8  | 39   | 305 | 65  | 10 | 250   | 484 | 395 |
|         | 125     | M95X3   | M80X3  | M100X3 | 120   | 150 | G1-1/4 | M42X2     | 130 | 140 | 35 | 45 | 273 | 40 | 440     | 370     | 8  | 39   | 305 | 65  | 10 | 250   | 484 | 395 |
|         | 160     | M95X3   | M100X3 | M120X4 | 120   | 160 | G1-1/4 | M42X2     | 130 | 140 | 35 | 45 | 273 | 40 | 440     | 370     | 8  | 39   | 305 | 65  | 10 | 250   | 484 | 395 |
| 250     | 125     | M105X3  | M80X3  | M100X3 | 120   | 150 | G1-1/4 | M42X2     | 140 | 170 | 35 | 45 | 299 | 40 | 470     | 400     | 10 | 39   | 330 | 70  | 13 | 280   | 517 | 423 |
|         | 160     | M105X3  | M100X3 | M120X4 | 130   | 160 | G1-1/4 | M42X2     | 140 | 170 | 35 | 45 | 299 | 40 | 470     | 400     | 10 | 39   | 330 | 70  | 13 | 280   | 517 | 423 |
|         | 180     | M105X3  | M110X4 | M150X4 | 130   | 200 | G1-1/4 | M42X2     | 140 | 170 | 35 | 45 | 299 | 40 | 470     | 400     | 10 | 39   | 330 | 70  | 13 | 280   | 517 | 423 |
| 320     | 180     | M160X4  | M125X4 | M150X4 | 140   | 180 | G1-1/4 | M42X2     | 170 | 170 | 40 | 45 | 377 | 45 | 550     | 480     | 10 | 39   | 420 | 100 | 13 | 300   | 552 | 493 |
|         | 200     | M160X4  | M125X4 | M160X4 | 140   | 230 | G1-1/4 | M42X2     | 170 | 170 | 40 | 45 | 377 | 45 | 550     | 480     | 10 | 39   | 420 | 100 | 13 | 300   | 552 | 493 |
|         | 220     | M160X4  | M125X4 | M160X4 | 140   | 230 | G1-1/4 | M42X2     | 170 | 170 | 40 | 45 | 377 | 45 | 550     | 480     | 10 | 39   | 420 | 100 | 13 | 300   | 552 | 493 |



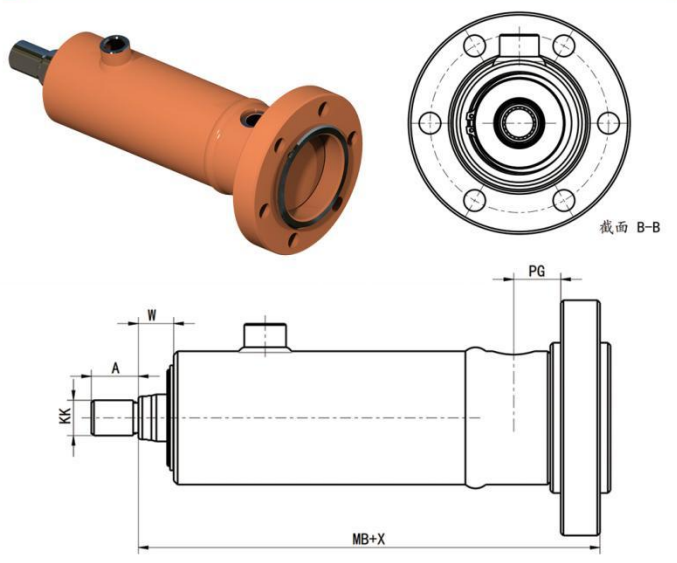
HSGK-尾部法兰前耳环带衬套 K



HSGK-尾部法兰前耳环带关节轴承 L



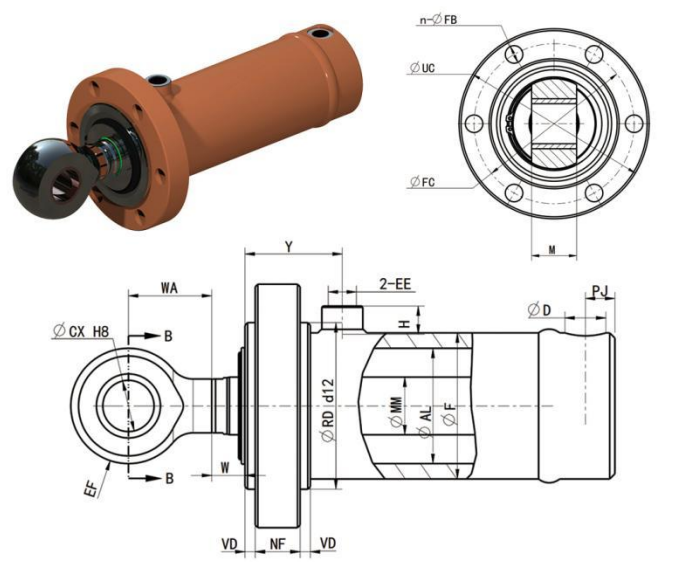
HSGK-尾部法兰杆端螺纹 M



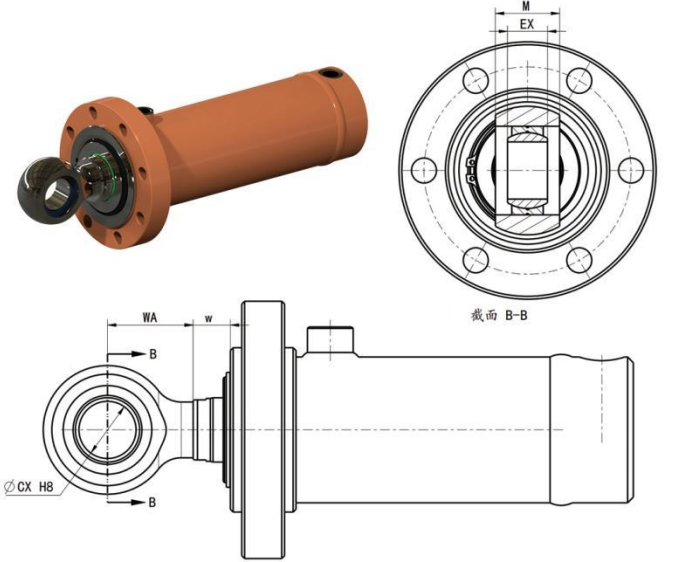
| Φ<br>AL | Φ<br>MM | KK      |        |        | A     |     | EE     |           | Y   | WA  | W  | H  | F   | PG | ΦUC | ΦFC | n  | ΦFB  | RD  | NF  | VD | MV  | MB  |
|---------|---------|---------|--------|--------|-------|-----|--------|-----------|-----|-----|----|----|-----|----|-----|-----|----|------|-----|-----|----|-----|-----|
|         |         | 杆端螺纹    |        |        |       |     | BSPP   | ISO9974-1 |     |     |    |    |     |    |     |     |    |      |     |     |    |     |     |
|         |         | C       | B,E    | F      | C,E,B | F   | 01     | 02        |     |     |    |    |     |    |     |     |    |      |     |     |    |     |     |
| 80      | 36      | M33X1.5 | M27X2  | M27X2  | 45    | 45  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 102 | 36 | 180 | 145 | 6  | 17.5 | 115 | 30  | 8  | 249 | 251 |
|         | 45      | M33X1.5 | M33X2  | M39X3  | 55    | 60  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 102 | 36 | 180 | 145 | 6  | 17.5 | 115 | 30  | 8  | 249 | 251 |
|         | 56      | M33X1.5 | M33X2  | M48X2  | 55    | 80  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 102 | 36 | 180 | 145 | 6  | 17.5 | 115 | 30  | 8  | 249 | 251 |
| 90      | 45      | M36X2   | M33X2  | M39X3  | 55    | 60  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 114 | 39 | 190 | 160 | 6  | 17.5 | 130 | 35  | 8  | 249 | 266 |
|         | 50      | M36X2   | M33X2  | M42X2  | 55    | 70  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 114 | 39 | 190 | 160 | 6  | 17.5 | 130 | 35  | 8  | 249 | 266 |
|         | 63      | M36X2   | M42X2  | M48X2  | 65    | 80  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 114 | 39 | 190 | 160 | 6  | 17.5 | 130 | 35  | 8  | 249 | 266 |
| 100     | 45      | M42X2   | M33X2  | M39X3  | 55    | 60  | G3/4   | M27X2     | 82  | 75  | 28 | 25 | 127 | 43 | 215 | 180 | 6  | 22   | 145 | 37  | 8  | 283 | 295 |
|         | 56      | M42X2   | M33X2  | M48X2  | 55    | 80  | G3/4   | M27X2     | 82  | 75  | 28 | 25 | 127 | 43 | 215 | 180 | 6  | 22   | 145 | 37  | 8  | 283 | 295 |
|         | 70      | M42X2   | M48X2  | M56X2  | 65    | 90  | G3/4   | M27X2     | 82  | 75  | 28 | 25 | 127 | 43 | 215 | 180 | 6  | 22   | 145 | 37  | 8  | 283 | 295 |
| 110     | 56      | M48X2   | M33X2  | M48X2  | 55    | 80  | G3/4   | M27X2     | 87  | 80  | 33 | 25 | 140 | 43 | 240 | 200 | 6  | 26   | 160 | 40  | 8  | 303 | 311 |
|         | 63      | M48X2   | M42X2  | M48X2  | 65    | 80  | G3/4   | M27X2     | 87  | 80  | 33 | 25 | 140 | 43 | 240 | 200 | 6  | 26   | 160 | 40  | 8  | 303 | 311 |
|         | 80      | M48X2   | M56X2  | M64X3  | 80    | 100 | G3/4   | M27X2     | 87  | 80  | 33 | 25 | 140 | 43 | 240 | 200 | 6  | 26   | 160 | 40  | 8  | 303 | 311 |
| 125     | 56      | M52X2   | M33X2  | M48X2  | 55    | 80  | G3/4   | M27X2     | 95  | 90  | 34 | 28 | 152 | 52 | 260 | 220 | 6  | 26   | 175 | 45  | 10 | 334 | 348 |
|         | 70      | M52X2   | M48X2  | M56X2  | 65    | 90  | G3/4   | M27X2     | 95  | 90  | 34 | 28 | 152 | 52 | 260 | 220 | 6  | 26   | 175 | 45  | 10 | 334 | 348 |
|         | 80      | M52X2   | M56X2  | M64X3  | 80    | 100 | G3/4   | M27X2     | 95  | 90  | 34 | 28 | 152 | 52 | 260 | 220 | 6  | 26   | 175 | 45  | 10 | 334 | 348 |
| 140     | 70      | M60X2   | M48X2  | M56X2  | 65    | 90  | G3/4   | M27X2     | 100 | 90  | 37 | 25 | 168 | 50 | 300 | 250 | 6  | 33   | 200 | 50  | 10 | 350 | 366 |
|         | 80      | M60X2   | M56X2  | M64X3  | 80    | 100 | G3/4   | M27X2     | 100 | 90  | 37 | 25 | 168 | 50 | 300 | 250 | 6  | 33   | 200 | 50  | 10 | 350 | 366 |
|         | 90      | M60X2   | M56X2  | M80X3  | 80    | 100 | G3/4   | M27X2     | 100 | 90  | 37 | 25 | 168 | 50 | 300 | 250 | 6  | 33   | 200 | 50  | 10 | 350 | 366 |
| 150     | 85      | M64X2   | M56X2  | M64X3  | 80    | 100 | G 1    | M33X2     | 112 | 95  | 38 | 35 | 182 | 47 | 320 | 260 | 6  | 33   | 205 | 55  | 10 | 358 | 387 |
|         | 95      | M64X2   | M56X2  | M80X3  | 80    | 100 | G 1    | M33X2     | 112 | 95  | 38 | 35 | 182 | 47 | 320 | 260 | 6  | 33   | 205 | 55  | 10 | 358 | 387 |
|         | 105     | M64X2   | M64X3  | M90X3  | 100   | 120 | G 1    | M33X2     | 112 | 95  | 38 | 35 | 182 | 47 | 320 | 260 | 6  | 33   | 205 | 55  | 10 | 358 | 387 |
| 160     | 80      | M68X2   | M56X2  | M64X3  | 80    | 100 | G 1    | M33X2     | 115 | 105 | 30 | 35 | 194 | 57 | 330 | 275 | 6  | 33   | 220 | 57  | 10 | 390 | 400 |
|         | 90      | M68X2   | M56X2  | M80X3  | 80    | 100 | G 1    | M33X2     | 115 | 105 | 30 | 35 | 194 | 57 | 330 | 275 | 6  | 33   | 220 | 57  | 10 | 390 | 400 |
|         | 110     | M68X2   | M64X3  | M90X3  | 100   | 120 | G 1    | M33X2     | 115 | 105 | 30 | 35 | 194 | 57 | 330 | 275 | 6  | 33   | 220 | 57  | 10 | 390 | 400 |
| 180     | 90      | M76X3   | M56X2  | M80X3  | 80    | 100 | G 1    | M33X2     | 117 | 110 | 34 | 35 | 219 | 57 | 355 | 300 | 8  | 33   | 245 | 60  | 10 | 415 | 424 |
|         | 110     | M76X3   | M64X3  | M90X3  | 100   | 120 | G 1    | M33X2     | 117 | 110 | 34 | 35 | 219 | 57 | 355 | 300 | 8  | 33   | 245 | 60  | 10 | 415 | 424 |
|         | 125     | M76X3   | M80X3  | M100X3 | 100   | 150 | G 1    | M33X2     | 117 | 110 | 34 | 35 | 219 | 57 | 355 | 300 | 8  | 33   | 245 | 60  | 10 | 415 | 424 |
| 200     | 110     | M85X3   | M72X3  | M90X3  | 100   | 120 | G1-1/4 | M42X2     | 125 | 120 | 35 | 45 | 245 | 62 | 390 | 330 | 8  | 33   | 275 | 60  | 10 | 448 | 451 |
|         | 125     | M85X3   | M80X3  | M100X3 | 120   | 150 | G1-1/4 | M42X2     | 125 | 120 | 35 | 45 | 245 | 62 | 390 | 330 | 8  | 33   | 275 | 60  | 10 | 448 | 451 |
|         | 140     | M85X3   | M90X3  | M110X4 | 120   | 150 | G1-1/4 | M42X2     | 125 | 120 | 35 | 45 | 245 | 62 | 390 | 330 | 8  | 33   | 275 | 60  | 10 | 448 | 451 |
| 220     | 110     | M95X3   | M64X3  | M90X3  | 100   | 140 | G1-1/4 | M42X2     | 130 | 140 | 35 | 45 | 273 | 62 | 440 | 370 | 8  | 39   | 305 | 65  | 10 | 484 | 473 |
|         | 125     | M95X3   | M80X3  | M100X3 | 120   | 150 | G1-1/4 | M42X2     | 130 | 140 | 35 | 45 | 273 | 62 | 440 | 370 | 8  | 39   | 305 | 65  | 10 | 484 | 473 |
|         | 160     | M95X3   | M100X3 | M120X4 | 120   | 160 | G1-1/4 | M42X2     | 130 | 140 | 35 | 45 | 273 | 62 | 440 | 370 | 8  | 39   | 305 | 65  | 10 | 484 | 473 |
| 250     | 125     | M105X3  | M80X3  | M100X3 | 120   | 150 | G1-1/4 | M42X2     | 140 | 170 | 35 | 45 | 299 | 65 | 470 | 400 | 10 | 39   | 330 | 70  | 13 | 517 | 508 |
|         | 160     | M105X3  | M100X3 | M120X4 | 130   | 160 | G1-1/4 | M42X2     | 140 | 170 | 35 | 45 | 299 | 65 | 470 | 400 | 10 | 39   | 330 | 70  | 13 | 517 | 508 |
|         | 180     | M105X3  | M110X4 | M150X4 | 130   | 200 | G1-1/4 | M42X2     | 140 | 170 | 35 | 45 | 299 | 65 | 470 | 400 | 10 | 39   | 330 | 70  | 13 | 517 | 508 |
| 320     | 180     | M160X4  | M125X4 | M150X4 | 140   | 180 | G1-1/4 | M42X2     | 170 | 170 | 40 | 45 | 377 | 70 | 550 | 480 | 10 | 39   | 420 | 100 | 13 | 552 | 610 |
|         | 200     | M160X4  | M125X4 | M160X4 | 140   | 230 | G1-1/4 | M42X2     | 170 | 170 | 40 | 45 | 377 | 70 | 550 | 480 | 10 | 39   | 420 | 100 | 13 | 552 | 610 |
|         | 220     | M160X4  | M125X4 | M160X4 | 140   | 230 | G1-1/4 | M42X2     | 170 | 170 | 40 | 45 | 377 | 70 | 550 | 480 | 10 | 39   | 420 | 100 | 13 | 552 | 610 |



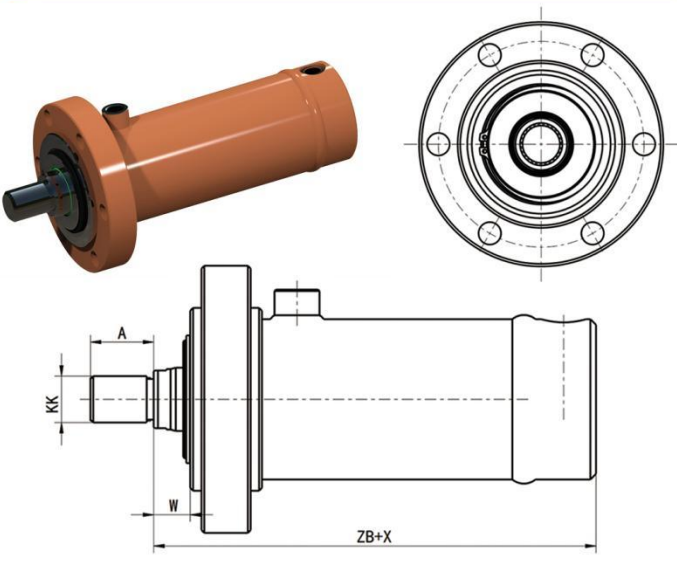
HSGK-前部法兰前耳环带衬套 N



HSGK-前部法兰前耳环带关节轴承 P



HSGK-前部法兰杆端螺纹 Q



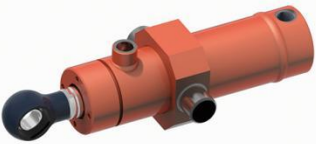
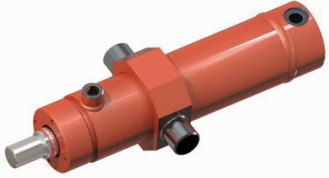
| Φ<br>AL | Φ<br>MM | KK      |        |        | A     |     | EE     |           | Y   | WA  | W  | H  | F   | PJ | ΦUC | ΦFC | n  | ΦFB  | RD  | NF  | VD | MV  | ZB  |
|---------|---------|---------|--------|--------|-------|-----|--------|-----------|-----|-----|----|----|-----|----|-----|-----|----|------|-----|-----|----|-----|-----|
|         |         | 杆端螺纹    |        |        |       |     | BSPP   | ISO9974-1 |     |     |    |    |     |    |     |     |    |      |     |     |    |     |     |
|         |         | C       | B,E    | F      | C,E,B | F   | 01     | 02        |     |     |    |    |     |    |     |     |    |      |     |     |    |     |     |
| 80      | 36      | M33X1.5 | M27X2  | M27X2  | 45    | 45  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 102 | 22 | 180 | 145 | 6  | 17.5 | 115 | 30  | 8  | 249 | 208 |
|         | 45      | M33X1.5 | M33X2  | M39X3  | 55    | 60  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 102 | 22 | 180 | 145 | 6  | 17.5 | 115 | 30  | 8  | 249 | 208 |
|         | 56      | M33X1.5 | M33X2  | M48X2  | 55    | 80  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 102 | 22 | 180 | 145 | 6  | 17.5 | 115 | 30  | 8  | 249 | 208 |
| 90      | 45      | M36X2   | M33X2  | M39X3  | 55    | 60  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 114 | 23 | 190 | 160 | 6  | 17.5 | 130 | 35  | 8  | 249 | 215 |
|         | 50      | M36X2   | M33X2  | M42X2  | 55    | 70  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 114 | 23 | 190 | 160 | 6  | 17.5 | 130 | 35  | 8  | 249 | 215 |
|         | 63      | M36X2   | M42X2  | M48X2  | 65    | 80  | G1/2   | M22X1.5   | 76  | 65  | 26 | 22 | 114 | 23 | 190 | 160 | 6  | 17.5 | 130 | 35  | 8  | 249 | 215 |
| 100     | 45      | M42X2   | M33X2  | M39X3  | 55    | 60  | G3/4   | M27X2     | 82  | 75  | 28 | 25 | 127 | 25 | 215 | 180 | 6  | 22   | 145 | 37  | 8  | 283 | 240 |
|         | 56      | M42X2   | M33X2  | M48X2  | 55    | 80  | G3/4   | M27X2     | 82  | 75  | 28 | 25 | 127 | 25 | 215 | 180 | 6  | 22   | 145 | 37  | 8  | 283 | 240 |
|         | 70      | M42X2   | M48X2  | M56X2  | 65    | 90  | G3/4   | M27X2     | 82  | 75  | 28 | 25 | 127 | 25 | 215 | 180 | 6  | 22   | 145 | 37  | 8  | 283 | 240 |
| 110     | 56      | M48X2   | M33X2  | M48X2  | 55    | 80  | G3/4   | M27X2     | 87  | 80  | 33 | 25 | 140 | 25 | 240 | 200 | 6  | 26   | 160 | 40  | 8  | 303 | 253 |
|         | 63      | M48X2   | M42X2  | M48X2  | 65    | 80  | G3/4   | M27X2     | 87  | 80  | 33 | 25 | 140 | 25 | 240 | 200 | 6  | 26   | 160 | 40  | 8  | 303 | 253 |
|         | 80      | M48X2   | M56X2  | M64X3  | 80    | 100 | G3/4   | M27X2     | 87  | 80  | 33 | 25 | 140 | 25 | 240 | 200 | 6  | 26   | 160 | 40  | 8  | 303 | 253 |
| 125     | 56      | M52X2   | M33X2  | M48X2  | 55    | 80  | G3/4   | M27X2     | 95  | 85  | 34 | 28 | 152 | 30 | 260 | 220 | 6  | 26   | 175 | 45  | 10 | 334 | 281 |
|         | 70      | M52X2   | M48X2  | M56X2  | 65    | 90  | G3/4   | M27X2     | 95  | 90  | 34 | 28 | 152 | 30 | 260 | 220 | 6  | 26   | 175 | 45  | 10 | 334 | 281 |
|         | 80      | M52X2   | M56X2  | M64X3  | 80    | 100 | G3/4   | M27X2     | 95  | 90  | 34 | 28 | 152 | 30 | 260 | 220 | 6  | 26   | 175 | 45  | 10 | 334 | 281 |
| 140     | 70      | M60X2   | M48X2  | M56X2  | 65    | 90  | G3/4   | M27X2     | 100 | 90  | 37 | 25 | 168 | 28 | 300 | 250 | 6  | 33   | 200 | 50  | 10 | 350 | 294 |
|         | 80      | M60X2   | M56X2  | M64X3  | 80    | 100 | G3/4   | M27X2     | 100 | 90  | 37 | 25 | 168 | 28 | 300 | 250 | 6  | 33   | 200 | 50  | 10 | 350 | 294 |
|         | 90      | M60X2   | M56X2  | M80X3  | 80    | 100 | G3/4   | M27X2     | 100 | 90  | 37 | 25 | 168 | 28 | 300 | 250 | 6  | 33   | 200 | 50  | 10 | 350 | 294 |
| 150     | 85      | M64X2   | M56X2  | M64X3  | 80    | 100 | G 1    | M33X2     | 112 | 95  | 38 | 35 | 182 | 25 | 320 | 260 | 6  | 33   | 205 | 55  | 10 | 358 | 315 |
|         | 95      | M64X2   | M56X2  | M80X3  | 80    | 100 | G 1    | M33X2     | 112 | 95  | 38 | 35 | 182 | 25 | 320 | 260 | 6  | 33   | 205 | 55  | 10 | 358 | 315 |
|         | 105     | M64X2   | M64X3  | M90X3  | 100   | 120 | G 1    | M33X2     | 112 | 95  | 38 | 35 | 182 | 25 | 320 | 260 | 6  | 33   | 205 | 55  | 10 | 358 | 315 |
| 160     | 80      | M68X2   | M56X2  | M64X3  | 80    | 100 | G 1    | M33X2     | 115 | 105 | 30 | 35 | 194 | 35 | 330 | 275 | 6  | 33   | 220 | 57  | 10 | 390 | 329 |
|         | 90      | M68X2   | M56X2  | M80X3  | 80    | 100 | G 1    | M33X2     | 115 | 105 | 30 | 35 | 194 | 35 | 330 | 275 | 6  | 33   | 220 | 57  | 10 | 390 | 329 |
|         | 110     | M68X2   | M64X3  | M90X3  | 100   | 120 | G 1    | M33X2     | 115 | 105 | 30 | 35 | 194 | 35 | 330 | 275 | 6  | 33   | 220 | 57  | 10 | 390 | 329 |
| 180     | 90      | M76X3   | M56X2  | M80X3  | 80    | 100 | G 1    | M33X2     | 117 | 110 | 34 | 35 | 219 | 35 | 355 | 300 | 8  | 33   | 245 | 60  | 10 | 415 | 349 |
|         | 110     | M76X3   | M64X3  | M90X3  | 100   | 120 | G 1    | M33X2     | 117 | 110 | 34 | 35 | 219 | 35 | 355 | 300 | 8  | 33   | 245 | 60  | 10 | 415 | 349 |
|         | 125     | M76X3   | M80X3  | M100X3 | 100   | 150 | G 1    | M33X2     | 117 | 110 | 34 | 35 | 219 | 35 | 355 | 300 | 8  | 33   | 245 | 60  | 10 | 415 | 349 |
| 200     | 110     | M85X3   | M72X3  | M90X3  | 100   | 120 | G1-1/4 | M42X2     | 125 | 120 | 35 | 45 | 245 | 40 | 390 | 330 | 8  | 33   | 275 | 60  | 10 | 448 | 377 |
|         | 125     | M85X3   | M80X3  | M100X3 | 120   | 150 | G1-1/4 | M42X2     | 125 | 120 | 35 | 45 | 245 | 40 | 390 | 330 | 8  | 33   | 275 | 60  | 10 | 448 | 377 |
|         | 140     | M85X3   | M90X3  | M110X4 | 120   | 150 | G1-1/4 | M42X2     | 125 | 120 | 35 | 45 | 245 | 40 | 390 | 330 | 8  | 33   | 275 | 60  | 10 | 448 | 377 |
| 220     | 110     | M95X3   | M64X3  | M90X3  | 100   | 140 | G1-1/4 | M42X2     | 130 | 140 | 35 | 45 | 273 | 40 | 440 | 370 | 8  | 39   | 305 | 65  | 10 | 484 | 395 |
|         | 125     | M95X3   | M80X3  | M100X3 | 120   | 150 | G1-1/4 | M42X2     | 130 | 140 | 35 | 45 | 273 | 40 | 440 | 370 | 8  | 39   | 305 | 65  | 10 | 484 | 395 |
|         | 160     | M95X3   | M100X3 | M120X4 | 120   | 160 | G1-1/4 | M42X2     | 130 | 140 | 35 | 45 | 273 | 40 | 440 | 370 | 8  | 39   | 305 | 65  | 10 | 484 | 395 |
| 250     | 125     | M105X3  | M80X3  | M100X3 | 120   | 150 | G1-1/4 | M42X2     | 140 | 170 | 35 | 45 | 299 | 40 | 470 | 400 | 10 | 39   | 330 | 70  | 13 | 517 | 423 |
|         | 160     | M105X3  | M100X3 | M120X4 | 130   | 160 | G1-1/4 | M42X2     | 140 | 170 | 35 | 45 | 299 | 40 | 470 | 400 | 10 | 39   | 330 | 70  | 13 | 517 | 423 |
|         | 180     | M105X3  | M110X4 | M150X4 | 130   | 200 | G1-1/4 | M42X2     | 140 | 170 | 35 | 45 | 299 | 40 | 470 | 400 | 10 | 39   | 330 | 70  | 13 | 517 | 423 |
| 320     | 180     | M160X4  | M125X4 | M150X4 | 140   | 180 | G1-1/4 | M42X2     | 170 | 170 | 40 | 45 | 377 | 45 | 550 | 480 | 10 | 39   | 420 | 100 | 13 | 552 | 493 |
|         | 200     | M160X4  | M125X4 | M160X4 | 140   | 230 | G1-1/4 | M42X2     | 170 | 170 | 40 | 45 | 377 | 45 | 550 | 480 | 10 | 39   | 420 | 100 | 13 | 552 | 493 |
|         | 220     | M160X4  | M125X4 | M160X4 | 140   | 230 | G1-1/4 | M42X2     | 170 | 170 | 40 | 45 | 377 | 45 | 550 | 480 | 10 | 39   | 420 | 100 | 13 | 552 | 493 |



HSGL推拉力核算表

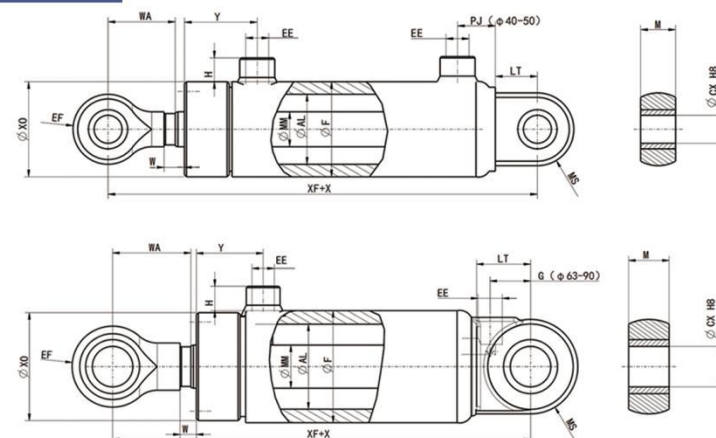
| 活塞直径<br>ΦAL | 活塞杆直径<br>ΦMM | 工作压力   |        |         |        |         |        |         |        |         |         |
|-------------|--------------|--------|--------|---------|--------|---------|--------|---------|--------|---------|---------|
|             |              | 70 bar |        | 100 bar |        | 160 bar |        | 200 bar |        | 250 bar |         |
|             |              | 推力(t)  | 拉力(t)  | 推力(t)   | 拉力(t)  | 推力(t)   | 拉力(t)  | 推力(t)   | 拉力(t)  | 推力(t)   | 拉力(t)   |
| 25          | 14           | 0.343  | 0.236  | 0.491   | 0.337  | 0.766   | 0.520  | 0.981   | 0.498  | 1.227   | 0.842   |
| 32          | 18           | 0.563  | 0.385  | 0.804   | 0.550  | 1.255   | 0.848  | 1.608   | 0.820  | 2.010   | 1.374   |
| 40          | 20           | 0.879  | 0.659  | 1.256   | 0.942  | 1.961   | 1.458  | 2.512   | 1.427  | 3.140   | 2.355   |
| 40          | 22           | 0.879  | 0.613  | 1.256   | 0.876  | 1.961   | 1.353  | 2.512   | 1.318  | 3.140   | 2.190   |
| 40          | 25           | 0.879  | 0.536  | 1.256   | 0.765  | 1.961   | 1.176  | 2.512   | 1.136  | 3.140   | 1.913   |
| 50          | 25           | 1.374  | 1.030  | 1.963   | 1.472  | 3.063   | 2.278  | 3.925   | 2.239  | 4.906   | 3.680   |
| 50          | 28           | 1.374  | 0.943  | 1.963   | 1.347  | 3.063   | 2.079  | 3.925   | 2.035  | 4.906   | 3.368   |
| 50          | 32           | 1.374  | 0.811  | 1.963   | 1.159  | 3.063   | 1.777  | 3.925   | 1.727  | 4.906   | 2.897   |
| 63          | 32           | 2.181  | 1.618  | 3.116   | 2.312  | 4.863   | 3.577  | 6.231   | 3.527  | 7.789   | 5.780   |
| 63          | 36           | 2.181  | 1.469  | 3.116   | 2.098  | 4.863   | 3.236  | 6.231   | 3.179  | 7.789   | 5.246   |
| 63          | 45           | 2.181  | 1.068  | 3.116   | 1.526  | 4.863   | 2.320  | 6.231   | 2.249  | 7.789   | 3.815   |
| 80          | 36           | 3.517  | 2.805  | 5.024   | 4.007  | 7.842   | 6.215  | 10.048  | 6.158  | 12.560  | 10.017  |
| 80          | 45           | 3.517  | 2.404  | 5.024   | 3.434  | 7.842   | 5.299  | 10.048  | 5.228  | 12.560  | 8.586   |
| 80          | 56           | 3.517  | 1.794  | 5.024   | 2.562  | 7.842   | 3.904  | 10.048  | 3.816  | 12.560  | 6.406   |
| 90          | 45           | 4.451  | 3.338  | 6.359   | 4.769  | 9.925   | 7.382  | 12.717  | 7.311  | 15.896  | 11.922  |
| 90          | 50           | 4.451  | 3.077  | 6.359   | 4.396  | 9.925   | 6.785  | 12.717  | 6.707  | 15.896  | 10.990  |
| 90          | 63           | 4.451  | 2.270  | 6.359   | 3.243  | 9.925   | 4.940  | 12.717  | 4.841  | 15.896  | 8.107   |
| 100         | 45           | 5.495  | 4.382  | 7.850   | 6.260  | 12.254  | 9.710  | 15.700  | 9.640  | 19.625  | 15.651  |
| 100         | 56           | 5.495  | 3.772  | 7.850   | 5.388  | 12.254  | 8.315  | 15.700  | 8.227  | 19.625  | 13.471  |
| 100         | 70           | 5.495  | 2.802  | 7.850   | 4.004  | 12.254  | 6.099  | 15.700  | 5.989  | 19.625  | 10.009  |
| 110         | 56           | 6.649  | 4.926  | 9.499   | 7.037  | 14.827  | 10.888 | 18.997  | 10.800 | 23.746  | 17.592  |
| 110         | 63           | 6.649  | 4.468  | 9.499   | 6.383  | 14.827  | 9.842  | 18.997  | 9.743  | 23.746  | 15.957  |
| 110         | 80           | 6.649  | 3.132  | 9.499   | 4.475  | 14.827  | 6.789  | 18.997  | 6.663  | 23.746  | 11.186  |
| 125         | 56           | 8.586  | 6.863  | 12.266  | 9.804  | 19.146  | 15.208 | 24.531  | 15.120 | 30.664  | 24.510  |
| 125         | 70           | 8.586  | 5.893  | 12.266  | 8.419  | 19.146  | 12.992 | 24.531  | 12.882 | 30.664  | 21.048  |
| 125         | 80           | 8.586  | 5.069  | 12.266  | 7.242  | 19.146  | 11.108 | 24.531  | 10.982 | 30.664  | 18.104  |
| 140         | 70           | 10.770 | 8.078  | 15.386  | 11.540 | 24.017  | 17.863 | 30.772  | 17.753 | 38.465  | 28.849  |
| 140         | 80           | 10.770 | 7.253  | 15.386  | 10.362 | 24.017  | 15.979 | 30.772  | 15.853 | 38.465  | 25.905  |
| 140         | 90           | 10.770 | 6.319  | 15.386  | 9.028  | 24.017  | 13.844 | 30.772  | 13.702 | 38.465  | 22.569  |
| 150         | 85           | 12.364 | 8.394  | 17.663  | 11.991 | 27.571  | 18.496 | 35.325  | 18.363 | 44.156  | 29.977  |
| 150         | 95           | 12.364 | 7.405  | 17.663  | 10.578 | 27.571  | 16.235 | 35.325  | 16.086 | 44.156  | 26.445  |
| 150         | 105          | 12.364 | 6.306  | 17.663  | 9.008  | 27.571  | 13.723 | 35.325  | 13.558 | 44.156  | 22.520  |
| 160         | 80           | 14.067 | 10.550 | 20.096  | 15.072 | 31.369  | 23.331 | 40.192  | 23.205 | 50.240  | 37.680  |
| 160         | 90           | 14.067 | 9.616  | 20.096  | 13.738 | 31.369  | 21.196 | 40.192  | 21.054 | 50.240  | 34.344  |
| 160         | 110          | 14.067 | 7.418  | 20.096  | 10.598 | 31.369  | 16.172 | 40.192  | 15.999 | 50.240  | 26.494  |
| 180         | 90           | 17.804 | 13.353 | 25.434  | 19.076 | 39.702  | 29.528 | 50.868  | 29.387 | 63.585  | 47.689  |
| 180         | 110          | 17.804 | 11.155 | 25.434  | 15.936 | 39.702  | 24.504 | 50.868  | 24.332 | 63.585  | 39.839  |
| 180         | 125          | 17.804 | 9.218  | 25.434  | 13.168 | 39.702  | 20.077 | 50.868  | 19.881 | 63.585  | 32.921  |
| 200         | 110          | 21.980 | 15.331 | 31.400  | 21.902 | 49.015  | 33.817 | 62.800  | 33.644 | 78.500  | 54.754  |
| 200         | 125          | 21.980 | 13.394 | 31.400  | 19.134 | 49.015  | 29.390 | 62.800  | 29.193 | 78.500  | 47.836  |
| 200         | 140          | 21.980 | 11.210 | 31.400  | 16.014 | 49.015  | 24.397 | 62.800  | 24.177 | 78.500  | 40.035  |
| 220         | 110          | 26.596 | 19.947 | 37.994  | 28.496 | 59.308  | 44.110 | 75.988  | 43.937 | 94.985  | 71.239  |
| 220         | 125          | 26.596 | 18.010 | 37.994  | 25.728 | 59.308  | 39.683 | 75.988  | 39.486 | 94.985  | 64.321  |
| 220         | 160          | 26.596 | 12.529 | 37.994  | 17.898 | 59.308  | 27.154 | 75.988  | 26.903 | 94.985  | 44.745  |
| 250         | 125          | 34.344 | 25.758 | 49.063  | 36.797 | 76.585  | 56.960 | 98.125  | 56.764 | 122.656 | 91.992  |
| 250         | 160          | 34.344 | 20.277 | 49.063  | 28.967 | 76.585  | 44.432 | 98.125  | 44.181 | 122.656 | 72.416  |
| 250         | 180          | 34.344 | 16.540 | 49.063  | 23.629 | 76.585  | 35.891 | 98.125  | 35.608 | 122.656 | 59.071  |
| 320         | 180          | 56.269 | 38.465 | 80.384  | 54.950 | 125.477 | 84.783 | 160.768 | 84.500 | 200.960 | 137.375 |
| 320         | 200          | 56.269 | 34.289 | 80.384  | 48.984 | 125.477 | 75.237 | 160.768 | 74.923 | 200.960 | 122.460 |
| 320         | 220          | 56.269 | 29.673 | 80.384  | 42.390 | 125.477 | 64.687 | 160.768 | 64.342 | 200.960 | 105.975 |

HSGL系列安装方式

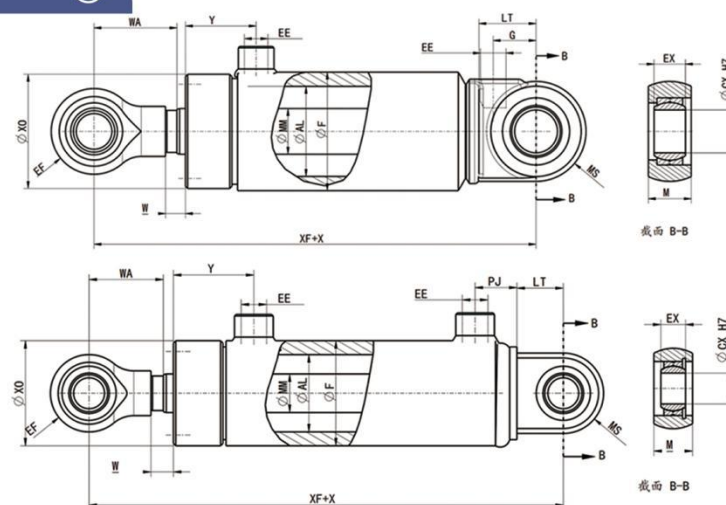
|                                    |                                                                                       |                                    |                                                                                       |
|------------------------------------|---------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| <div>前后耳环<br/>带衬套<br/>A</div>      |    | <div>中间法兰<br/>前耳环带关节轴承<br/>I</div> |    |
| <div>前后耳环<br/>带关节轴承<br/>B</div>    |    | <div>中间法兰<br/>杆端螺纹<br/>J</div>     |    |
| <div>杆端螺纹<br/>后耳环带衬套<br/>C</div>   |    | <div>尾部法兰<br/>前耳环带衬套<br/>K</div>   |    |
| <div>杆端螺纹<br/>后耳环带关节轴承<br/>D</div> |   | <div>尾部法兰<br/>前耳环带关节轴承<br/>L</div> |   |
| <div>中间轴销<br/>前耳环带衬套<br/>E</div>   |  | <div>尾部法兰<br/>杆端螺纹<br/>M</div>     |  |
| <div>中间轴销<br/>后耳环带关节轴承<br/>F</div> |  | <div>前部法兰<br/>前耳环带衬套<br/>N</div>   |  |
| <div>中间轴销<br/>杆端螺纹<br/>G</div>     |  | <div>前部法兰<br/>前耳环带关节轴承<br/>P</div> |  |
| <div>中间法兰<br/>前耳环带衬套<br/>H</div>   |  | <div>前部法兰<br/>杆端螺纹<br/>Q</div>     |  |



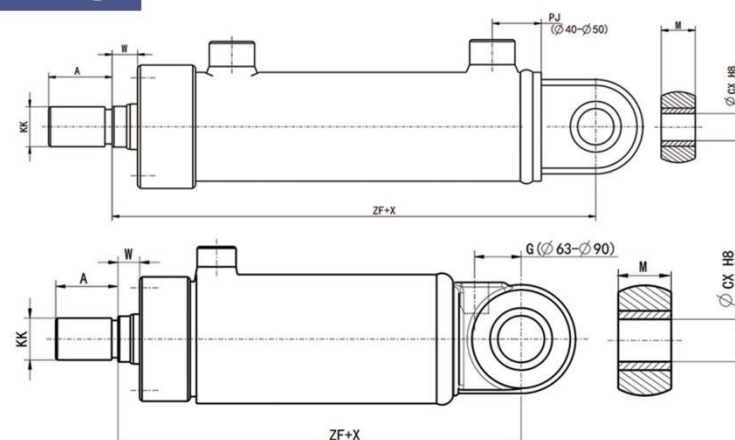
HSGL-前后耳环带衬套 A



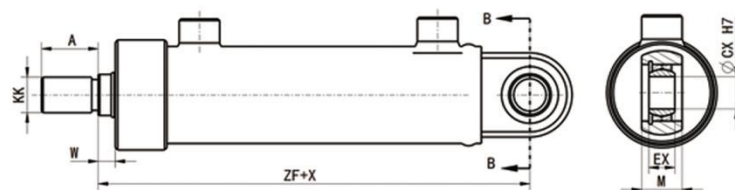
HSGL-前后耳环带关节轴承 B



HSGL-杆端螺纹后耳环带衬套 C



HSGL-杆端螺纹后耳环带关节轴承 D

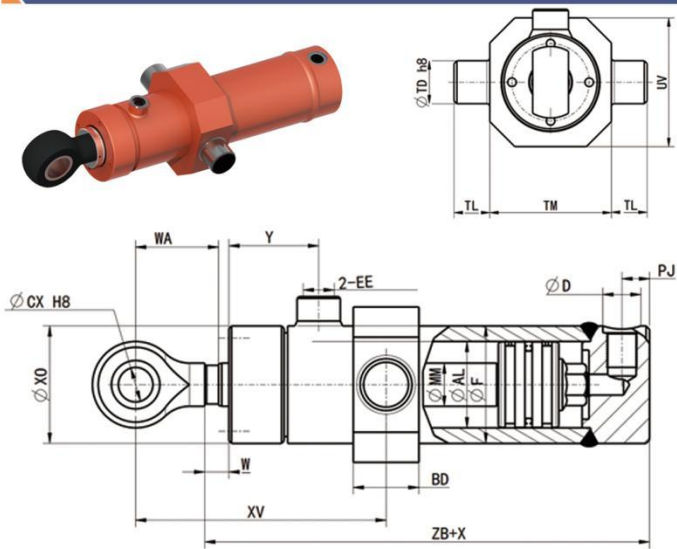


| Φ<br>AL | Φ<br>M<br>M | KK      |         |         | A     |    | EE   |           | F   | Y    |
|---------|-------------|---------|---------|---------|-------|----|------|-----------|-----|------|
|         |             | 杆端螺纹    |         |         |       |    | BSPP | ISO9974-1 |     |      |
|         |             | C       | B,E     | F       | C,E,B | F  | 01   | 02        |     |      |
| 40      | 20          | M16X1.5 | M14X1.5 | M16X1,5 | 30    | 30 | G1/4 | M14X1.5   | 57  | 48   |
|         | 22          | M16X1.5 | M16X1,5 | M20X1.5 | 30    | 30 | G1/4 | M14X1.5   | 57  | 48   |
|         | 25          | M16X1.5 | M16X1,5 | M20X1.5 | 30    | 30 | G1/4 | M14X1.5   | 57  | 48   |
| 50      | 25          | M22X1.5 | M16X1.5 | M22X1,5 | 40    | 40 | G3/8 | M18X1.5   | 68  | 52   |
|         | 28          | M22X1.5 | M20X1.5 | M22X1.5 | 40    | 40 | G3/8 | M18X1.5   | 68  | 52   |
|         | 32          | M22X1.5 | M22X1.5 | M28X1.5 | 40    | 45 | G3/8 | M18X1.5   | 68  | 52   |
| 63      | 32          | M27X1.5 | M22X1.5 | M28X1.5 | 40    | 45 | G3/8 | M18X1.5   | 83  | 51.5 |
|         | 36          | M27X1.5 | M27X2   | M33X2   | 40    | 50 | G3/8 | M18X1.5   | 83  | 51.5 |
|         | 45          | M27X1.5 | M33X2   | M42X2   | 40    | 65 | G3/8 | M18X1.5   | 83  | 51.5 |
| 80      | 40          | M33X1.5 | M27X2   | M35X1.5 | 50    | 55 | G1/2 | M22X1.5   | 102 | 67   |
|         | 45          | M33X1.5 | M33X2   | M42X2   | 40    | 65 | G1/2 | M22X1.5   | 102 | 67   |
|         | 56          | M33X1.5 | M42X2   | M50X3   | 50    | 75 | G1/2 | M22X1.5   | 102 | 67   |
| 90      | 45          | M36X2   | M33X2   | M42X2   | 40    | 65 | G1/2 | M22X1.5   | 108 | 67   |
|         | 50          | M36X2   | M33X2   | M45X1.5 | 40    | 70 | G1/2 | M22X1.5   | 108 | 67   |
|         | 63          | M36X2   | M48X2   | M56X2   | 50    | 85 | G1/2 | M22X1.5   | 108 | 67   |

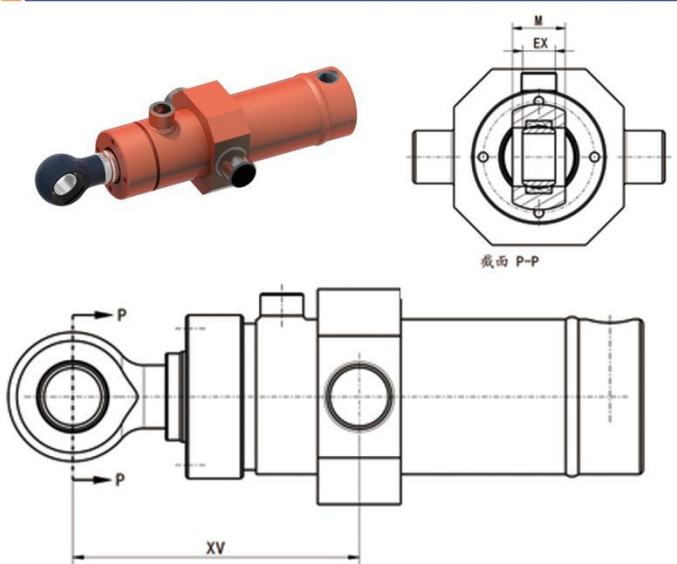
| Φ<br>AL | Φ<br>M<br>M | WA | W  | H  | EF | XO  | PJ | G  | LT | Φ<br>CX | MS<br>(R) | M  | EX | XF    | ZF    |
|---------|-------------|----|----|----|----|-----|----|----|----|---------|-----------|----|----|-------|-------|
| 40      | 20          | 48 | 14 | 14 | 25 | 61  | 26 |    | 33 | 20      | 25        | 20 | 16 | 190   | 142   |
|         | 22          | 48 | 14 | 14 | 25 | 61  | 26 |    | 33 | 20      | 25        | 20 | 16 | 193   | 145   |
|         | 25          | 48 | 14 | 14 | 25 | 61  | 26 |    | 33 | 20      | 25        | 20 | 16 | 193   | 145   |
| 50      | 25          | 48 | 14 | 17 | 25 | 68  | 27 |    | 30 | 20      | 26        | 25 | 16 | 207   | 159   |
|         | 28          | 48 | 14 | 17 | 25 | 68  | 27 |    | 30 | 20      | 26        | 25 | 16 | 207   | 159   |
|         | 32          | 48 | 14 | 17 | 25 | 68  | 27 |    | 30 | 20      | 26        | 25 | 16 | 210   | 162   |
| 63      | 32          | 58 | 14 | 18 | 30 | 83  |    | 30 | 40 | 30      | 35        | 30 | 22 | 209.5 | 151.5 |
|         | 36          | 58 | 14 | 18 | 30 | 83  |    | 30 | 40 | 30      | 35        | 30 | 22 | 212.5 | 154.5 |
|         | 45          | 58 | 14 | 18 | 30 | 83  |    | 30 | 40 | 30      | 35        | 30 | 22 | 211.5 | 153.5 |
| 80      | 40          | 68 | 14 | 18 | 45 | 105 |    | 40 | 55 | 40      | 45        | 45 | 28 | 268   | 200   |
|         | 45          | 68 | 14 | 18 | 45 | 105 |    | 40 | 55 | 40      | 45        | 45 | 28 | 268   | 200   |
|         | 56          | 68 | 14 | 18 | 45 | 105 |    | 40 | 55 | 40      | 45        | 45 | 28 | 268   | 200   |
| 90      | 45          | 75 | 14 | 18 | 45 | 114 |    | 58 | 60 | 40      | 48        | 45 | 28 | 282   | 207   |
|         | 50          | 75 | 14 | 18 | 45 | 114 |    | 58 | 60 | 40      | 48        | 45 | 28 | 282   | 207   |
|         | 63          | 75 | 14 | 18 | 45 | 114 |    | 58 | 60 | 40      | 48        | 45 | 28 | 282   | 207   |



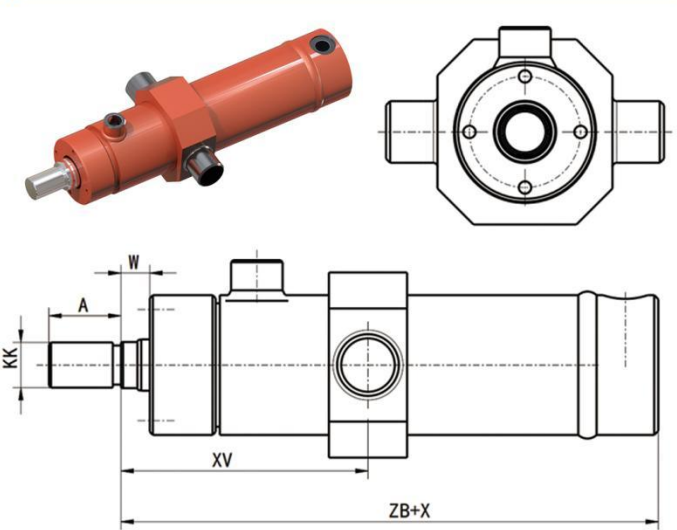
HSGL-中间轴销前耳环带衬套 E



HSGL-中间轴销后耳环带关节轴承 F



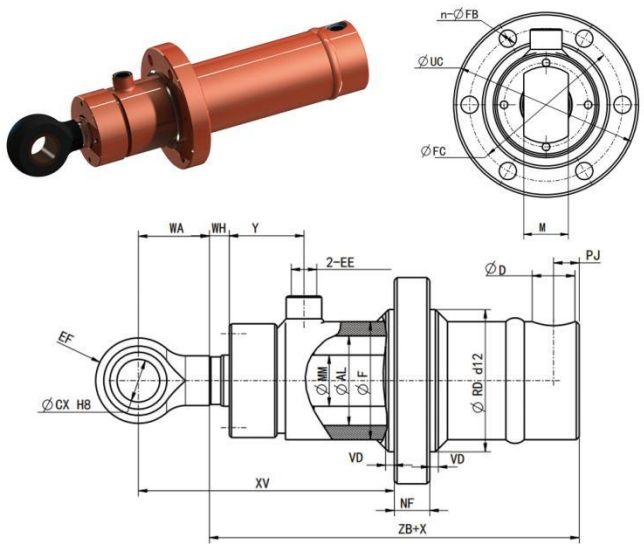
HSGL-中间轴销杆端螺纹 G



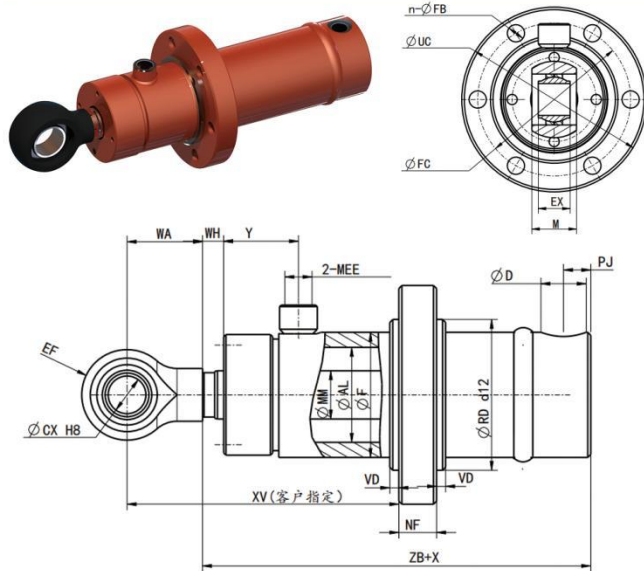
| Φ<br>AL | Φ<br>MM | KK      |         |         | A     |    | EE   |           | F   | Y    | WA | W  | H  | EF | XO  | PJ | TD<br>h8 | TL | TM  | BD | XV<br>mm | XS<br>mm | UV  | ZB  |
|---------|---------|---------|---------|---------|-------|----|------|-----------|-----|------|----|----|----|----|-----|----|----------|----|-----|----|----------|----------|-----|-----|
|         |         | 杆端螺纹    |         |         |       |    | BSPP | ISO9974-1 |     |      |    |    |    |    |     |    |          |    |     |    |          |          |     |     |
|         |         | C       | B,E     | F       | C,E,B | F  | 01   | 02        |     |      |    |    |    |    |     |    |          |    |     |    |          |          |     |     |
| 40      | 20      | M16X1.5 | M14X1.5 | M16X1,5 | 30    | 30 | G1/4 | M14X1.5   | 57  | 48   | 48 | 14 | 14 | 25 | 61  | 18 | 25       | 20 | 70  | 35 |          |          | 75  | 144 |
|         | 22      | M16X1.5 | M16X1,5 | M20X1.5 | 30    | 30 | G1/4 | M14X1.5   | 57  | 48   | 48 | 14 | 14 | 25 | 61  | 18 | 25       | 20 | 70  | 35 |          |          | 75  | 144 |
|         | 25      | M16X1.5 | M16X1,5 | M20X1.5 | 30    | 30 | G1/4 | M14X1.5   | 57  | 48   | 48 | 14 | 14 | 25 | 61  | 18 | 25       | 20 | 70  | 35 |          |          | 75  | 144 |
| 50      | 25      | M22X1.5 | M16X1.5 | M22X1,5 | 40    | 40 | G3/8 | M18X1.5   | 68  | 52   | 48 | 14 | 17 | 25 | 68  | 16 | 30       | 25 | 85  | 38 |          |          | 90  | 158 |
|         | 28      | M22X1.5 | M20X1.5 | M22X1.5 | 40    | 40 | G3/8 | M18X1.5   | 68  | 52   | 48 | 14 | 17 | 25 | 68  | 16 | 30       | 25 | 85  | 38 |          |          | 90  | 158 |
|         | 32      | M22X1.5 | M22X1.5 | M28X1.5 | 40    | 45 | G3/8 | M18X1.5   | 68  | 52   | 48 | 14 | 17 | 25 | 68  | 16 | 30       | 25 | 85  | 38 |          |          | 90  | 158 |
| 63      | 32      | M27X1.5 | M22X1.5 | M28X1.5 | 40    | 45 | G3/8 | M18X1.5   | 83  | 51.5 | 58 | 14 | 18 | 30 | 83  | 18 | 35       | 30 | 100 | 45 |          |          | 105 | 157 |
|         | 36      | M27X1.5 | M27X2   | M33X2   | 40    | 50 | G3/8 | M18X1.5   | 83  | 51.5 | 58 | 14 | 18 | 30 | 83  | 18 | 35       | 30 | 100 | 45 |          |          | 105 | 157 |
|         | 45      | M27X1.5 | M33X2   | M42X2   | 40    | 65 | G3/8 | M18X1.5   | 83  | 51.5 | 58 | 14 | 18 | 30 | 83  | 18 | 35       | 30 | 100 | 45 |          |          | 105 | 157 |
| 80      | 40      | M33X1.5 | M27X2   | M35X1.5 | 50    | 55 | G1/2 | M22X1.5   | 102 | 67   | 68 | 14 | 18 | 45 | 105 | 22 | 40       | 30 | 125 | 48 |          |          | 130 | 184 |
|         | 45      | M33X1.5 | M33X2   | M42X2   | 40    | 65 | G1/2 | M22X1.5   | 102 | 67   | 68 | 14 | 18 | 45 | 105 | 22 | 40       | 30 | 125 | 48 |          |          | 130 | 184 |
|         | 56      | M33X1.5 | M42X2   | M50X3   | 50    | 75 | G1/2 | M22X1.5   | 102 | 67   | 68 | 14 | 18 | 45 | 105 | 22 | 40       | 30 | 125 | 48 |          |          | 130 | 184 |
| 90      | 45      | M36X2   | M33X2   | M42X2   | 40    | 65 | G1/2 | M22X1.5   | 108 | 67   | 75 | 14 | 18 | 45 | 114 | 23 | 45       | 35 | 145 | 58 |          |          | 150 | 188 |
|         | 50      | M36X2   | M33X2   | M45X1.5 | 40    | 70 | G1/2 | M22X1.5   | 108 | 67   | 75 | 14 | 18 | 45 | 114 | 23 | 45       | 35 | 145 | 58 |          |          | 150 | 188 |
|         | 63      | M36X2   | M48X2   | M56X2   | 50    | 85 | G1/2 | M22X1.5   | 108 | 67   | 75 | 14 | 18 | 45 | 114 | 23 | 45       | 35 | 145 | 58 |          |          | 150 | 188 |



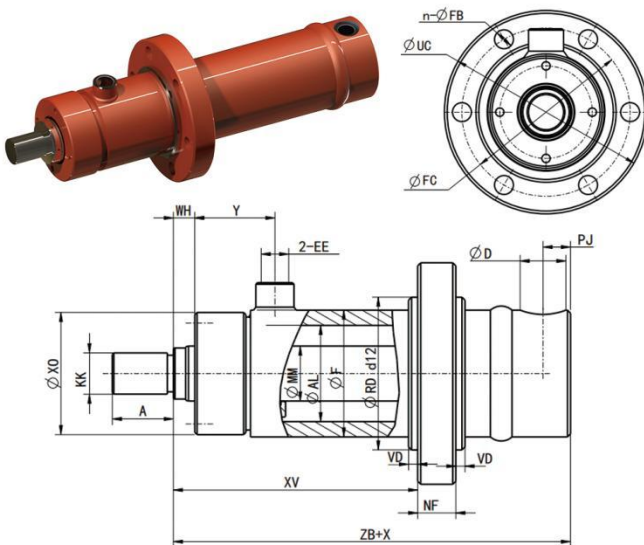
HSGL-中间法兰前耳环带衬套 H



HSGL-中间法兰前耳环带关节轴承 I



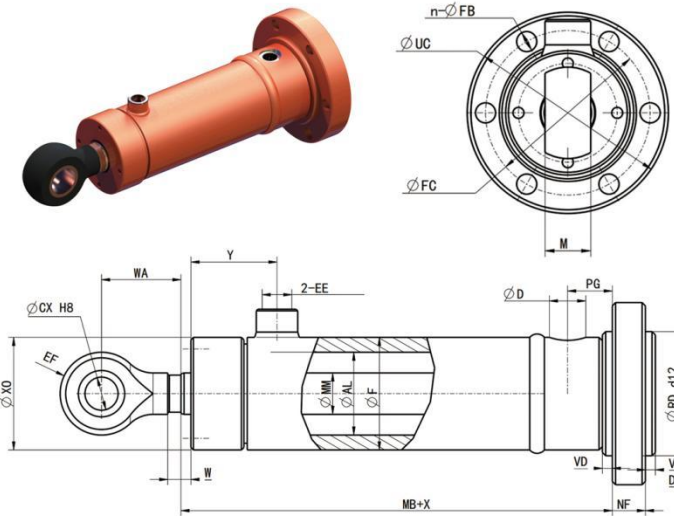
HSGL-中间法兰杆端螺纹 J



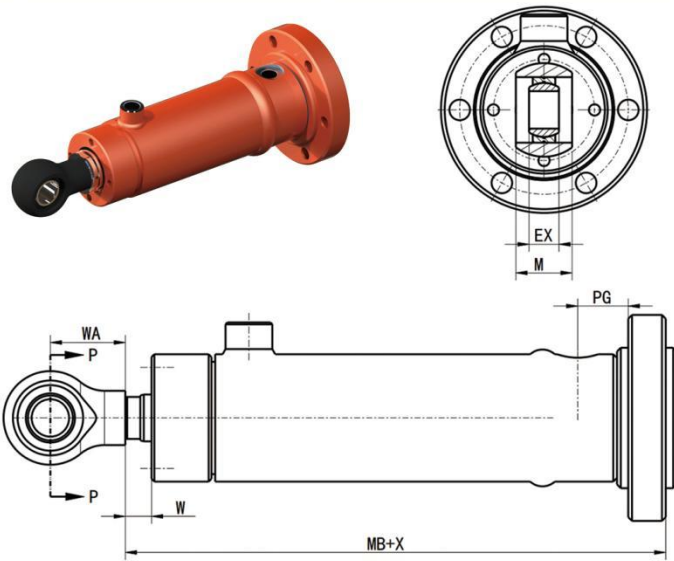
| Φ<br>AL | Φ<br>MM | KK      |         |         | A     |    | EE   |           | F   | Y    | WA | W  | H  | EF | XO  | PJ | n | ΦFB  | NF | Φ<br>UC | Φ<br>FC | RD  | VD | LVmi<br>n | MV | ZB  |
|---------|---------|---------|---------|---------|-------|----|------|-----------|-----|------|----|----|----|----|-----|----|---|------|----|---------|---------|-----|----|-----------|----|-----|
|         |         | 杆端螺纹    |         |         |       |    | BSPP | ISO9974-1 |     |      |    |    |    |    |     |    |   |      |    |         |         |     |    |           |    |     |
|         |         | C       | B,E     | F       | C,E,B | F  | 01   | 02        |     |      |    |    |    |    |     |    |   |      |    |         |         |     |    |           |    |     |
| 40      | 20      | M16X1.5 | M14X1.5 | M16X1,5 | 30    | 30 | G1/4 | M14X1.5   | 57  | 48   | 48 | 14 | 14 | 25 | 61  | 18 | 4 | 9    | 16 | 98      | 80      | 65  | 6  |           |    | 144 |
|         | 22      | M16X1.5 | M16X1,5 | M20X1.5 | 30    | 30 | G1/4 | M14X1.5   | 57  | 48   | 48 | 14 | 14 | 25 | 61  | 18 | 4 | 9    | 16 | 98      | 80      | 65  | 6  |           |    | 144 |
|         | 25      | M16X1.5 | M16X1,5 | M20X1.5 | 30    | 30 | G1/4 | M14X1.5   | 57  | 48   | 48 | 14 | 14 | 25 | 61  | 18 | 4 | 9    | 16 | 98      | 80      | 65  | 6  |           |    | 144 |
| 50      | 25      | M22X1.5 | M16X1.5 | M22X1,5 | 40    | 40 | G3/8 | M18X1.5   | 68  | 52   | 48 | 14 | 17 | 25 | 68  | 16 | 6 | 9    | 20 | 115     | 95      | 75  | 6  |           |    | 158 |
|         | 28      | M22X1.5 | M20X1.5 | M22X1.5 | 40    | 40 | G3/8 | M18X1.5   | 68  | 52   | 48 | 14 | 17 | 25 | 68  | 16 | 6 | 9    | 20 | 115     | 95      | 75  | 6  |           |    | 158 |
|         | 32      | M22X1.5 | M22X1.5 | M28X1.5 | 40    | 45 | G3/8 | M18X1.5   | 68  | 52   | 48 | 14 | 17 | 25 | 68  | 16 | 6 | 9    | 20 | 115     | 95      | 75  | 6  |           |    | 158 |
| 63      | 32      | M27X1.5 | M22X1.5 | M28X1.5 | 40    | 45 | G3/8 | M18X1.5   | 83  | 51.5 | 58 | 14 | 18 | 30 | 83  | 18 | 6 | 13.5 | 25 | 145     | 120     | 100 | 6  |           |    | 157 |
|         | 36      | M27X1.5 | M27X2   | M33X2   | 40    | 50 | G3/8 | M18X1.5   | 83  | 51.5 | 58 | 14 | 18 | 30 | 83  | 18 | 6 | 13.5 | 25 | 145     | 120     | 100 | 6  |           |    | 157 |
|         | 45      | M27X1.5 | M33X2   | M42X2   | 40    | 65 | G3/8 | M18X1.5   | 83  | 51.5 | 58 | 14 | 18 | 30 | 83  | 18 | 6 | 13.5 | 25 | 145     | 120     | 100 | 6  |           |    | 157 |
| 80      | 40      | M33X1.5 | M27X2   | M35X1.5 | 50    | 55 | G1/2 | M22X1.5   | 102 | 67   | 68 | 14 | 18 | 45 | 105 | 22 | 6 | 17.5 | 30 | 180     | 145     | 115 | 8  |           |    | 184 |
|         | 45      | M33X1.5 | M33X2   | M42X2   | 40    | 65 | G1/2 | M22X1.5   | 102 | 67   | 68 | 14 | 18 | 45 | 105 | 22 | 6 | 17.5 | 30 | 180     | 145     | 115 | 8  |           |    | 184 |
|         | 56      | M33X1.5 | M42X2   | M50X3   | 50    | 75 | G1/2 | M22X1.5   | 102 | 67   | 68 | 14 | 18 | 45 | 105 | 22 | 6 | 17.5 | 30 | 180     | 145     | 115 | 8  |           |    | 184 |
| 90      | 45      | M36X2   | M33X2   | M42X2   | 40    | 65 | G1/2 | M22X1.5   | 108 | 67   | 75 | 14 | 18 | 45 | 114 | 23 | 6 | 17.5 | 35 | 190     | 160     | 130 | 8  |           |    | 188 |
|         | 50      | M36X2   | M33X2   | M45X1.5 | 40    | 70 | G1/2 | M22X1.5   | 108 | 67   | 75 | 14 | 18 | 45 | 114 | 23 | 6 | 17.5 | 35 | 190     | 160     | 130 | 8  |           |    | 188 |
|         | 63      | M36X2   | M48X2   | M56X2   | 50    | 85 | G1/2 | M22X1.5   | 108 | 67   | 75 | 14 | 18 | 45 | 114 | 23 | 6 | 17.5 | 35 | 190     | 160     | 130 | 8  |           |    | 188 |



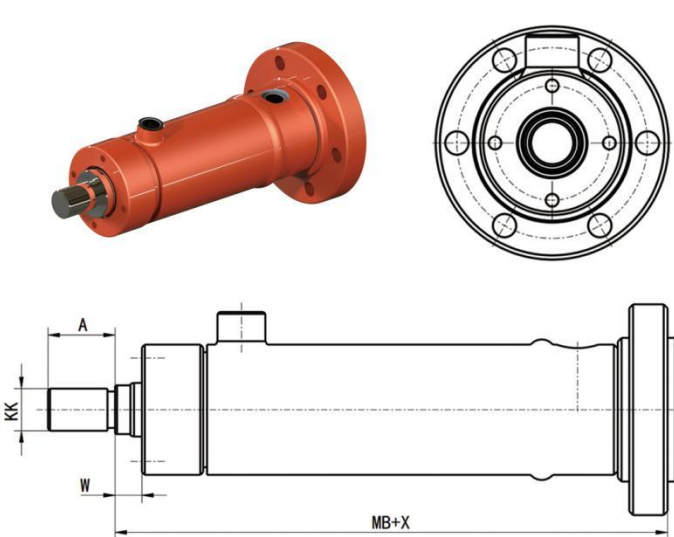
HSGL-尾部法兰前耳环带衬套 K



HSGL-尾部法兰前耳环带关节轴承 L



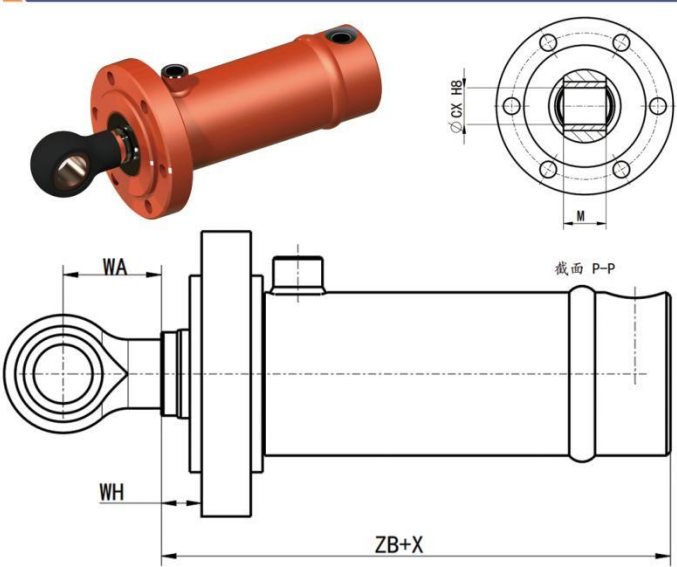
HSGL-尾部法兰杆端螺纹 M



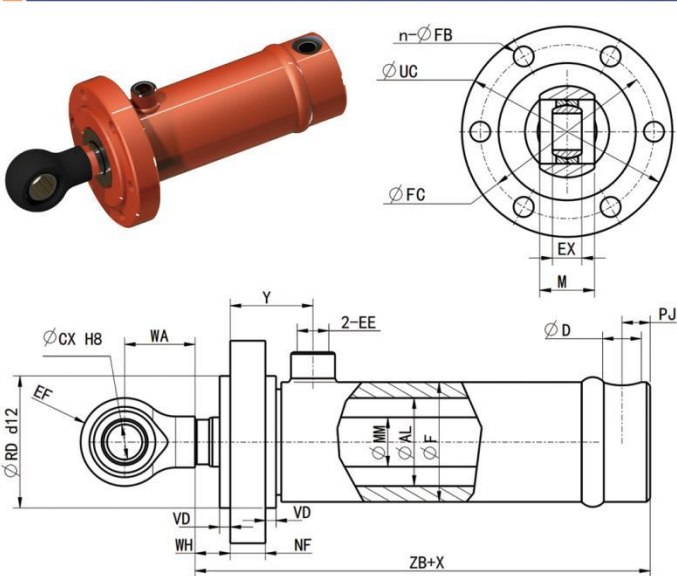
| Φ<br>AL | Φ<br>MM | KK      |         |         | A     |    | EE   |           | F   | Y    | WA | W  | H  | EF | XO  | PG | n | ΦFB  | NF | Φ<br>UC | ΦFC | RD  | VD | MV | MB  |
|---------|---------|---------|---------|---------|-------|----|------|-----------|-----|------|----|----|----|----|-----|----|---|------|----|---------|-----|-----|----|----|-----|
|         |         | 杆端螺纹    |         |         |       |    | BSPP | ISO9974-1 |     |      |    |    |    |    |     |    |   |      |    |         |     |     |    |    |     |
|         |         | C       | B,E     | F       | C,E,B | F  | 01   | 02        |     |      |    |    |    |    |     |    |   |      |    |         |     |     |    |    |     |
| 40      | 20      | M16X1.5 | M14X1.5 | M16X1,5 | 30    | 30 | G1/4 | M14X1.5   | 57  | 48   | 48 | 14 | 14 | 25 | 61  | 27 | 4 | 9    | 16 | 98      | 80  | 65  | 6  |    | 166 |
|         | 22      | M16X1.5 | M16X1,5 | M20X1.5 | 30    | 30 | G1/4 | M14X1.5   | 57  | 48   | 48 | 14 | 14 | 25 | 61  | 27 | 4 | 9    | 16 | 98      | 80  | 65  | 6  |    | 166 |
|         | 25      | M16X1.5 | M16X1,5 | M20X1.5 | 30    | 30 | G1/4 | M14X1.5   | 57  | 48   | 48 | 14 | 14 | 25 | 61  | 27 | 4 | 9    | 16 | 98      | 80  | 65  | 6  |    | 166 |
| 50      | 25      | M22X1.5 | M16X1.5 | M22X1,5 | 40    | 40 | G3/8 | M18X1.5   | 68  | 52   | 48 | 14 | 17 | 25 | 68  | 27 | 6 | 9    | 20 | 115     | 95  | 75  | 6  |    | 181 |
|         | 28      | M22X1.5 | M20X1.5 | M22X1.5 | 40    | 40 | G3/8 | M18X1.5   | 68  | 52   | 48 | 14 | 17 | 25 | 68  | 27 | 6 | 9    | 20 | 115     | 95  | 75  | 6  |    | 181 |
|         | 32      | M22X1.5 | M22X1.5 | M28X1.5 | 40    | 45 | G3/8 | M18X1.5   | 68  | 52   | 48 | 14 | 17 | 25 | 68  | 27 | 6 | 9    | 20 | 115     | 95  | 75  | 6  |    | 181 |
| 63      | 32      | M27X1.5 | M22X1.5 | M28X1.5 | 40    | 45 | G3/8 | M18X1.5   | 83  | 51.5 | 58 | 14 | 18 | 30 | 83  | 27 | 6 | 13.5 | 25 | 145     | 120 | 100 | 6  |    | 188 |
|         | 36      | M27X1.5 | M27X2   | M33X2   | 40    | 50 | G3/8 | M18X1.5   | 83  | 51.5 | 58 | 14 | 18 | 30 | 83  | 27 | 6 | 13.5 | 25 | 145     | 120 | 100 | 6  |    | 188 |
|         | 45      | M27X1.5 | M33X2   | M42X2   | 40    | 65 | G3/8 | M18X1.5   | 83  | 51.5 | 58 | 14 | 18 | 30 | 83  | 27 | 6 | 13.5 | 25 | 145     | 120 | 100 | 6  |    | 188 |
| 80      | 40      | M33X1.5 | M27X2   | M35X1.5 | 50    | 55 | G1/2 | M22X1.5   | 102 | 67   | 68 | 14 | 18 | 45 | 105 | 36 | 6 | 17.5 | 30 | 180     | 145 | 115 | 8  |    | 220 |
|         | 45      | M33X1.5 | M33X2   | M42X2   | 40    | 65 | G1/2 | M22X1.5   | 102 | 67   | 68 | 14 | 18 | 45 | 105 | 36 | 6 | 17.5 | 30 | 180     | 145 | 115 | 8  |    | 220 |
|         | 56      | M33X1.5 | M42X2   | M50X3   | 50    | 75 | G1/2 | M22X1.5   | 102 | 67   | 68 | 14 | 18 | 45 | 105 | 36 | 6 | 17.5 | 30 | 180     | 145 | 115 | 8  |    | 220 |
| 90      | 45      | M36X2   | M33X2   | M42X2   | 40    | 65 | G1/2 | M22X1.5   | 108 | 67   | 75 | 14 | 18 | 45 | 114 | 39 | 6 | 17.5 | 35 | 190     | 160 | 130 | 8  |    | 226 |
|         | 50      | M36X2   | M33X2   | M45X1.5 | 40    | 70 | G1/2 | M22X1.5   | 108 | 67   | 75 | 14 | 18 | 45 | 114 | 39 | 6 | 17.5 | 35 | 190     | 160 | 130 | 8  |    | 226 |
|         | 63      | M36X2   | M48X2   | M56X2   | 50    | 85 | G1/2 | M22X1.5   | 108 | 67   | 75 | 14 | 18 | 45 | 114 | 39 | 6 | 17.5 | 35 | 190     | 160 | 130 | 8  |    | 226 |



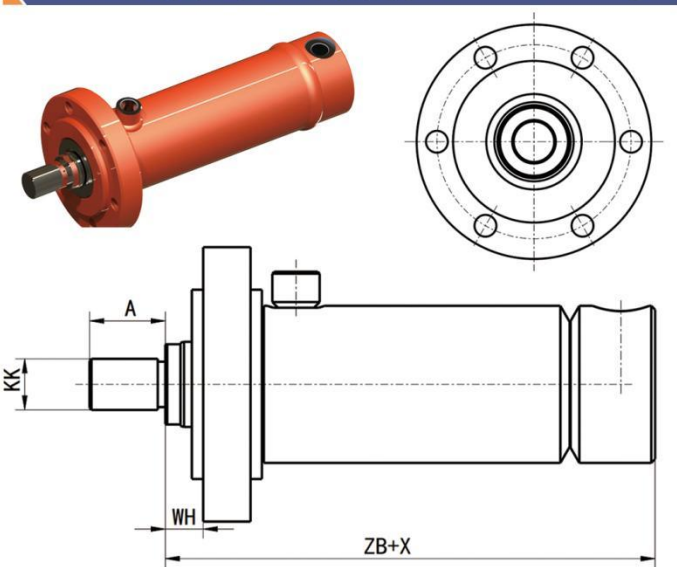
HSGL-前部法兰前耳环带衬套 N



HSGL-前部法兰前耳环带关节轴承 P



HSGL-前部法兰杆端螺纹 Q



| Φ<br>AL | Φ<br>MM | KK      |         |         | A     |    | EE   |           | F  | Y1 | WA | WH | H  | EF | PJ | n | ΦFB  | NF | ΦUC | ΦFC | RD  | VD | MV | ZB  |
|---------|---------|---------|---------|---------|-------|----|------|-----------|----|----|----|----|----|----|----|---|------|----|-----|-----|-----|----|----|-----|
|         |         | 杆端螺纹    |         |         |       |    | BSPP | ISO9974-1 |    |    |    |    |    |    |    |   |      |    |     |     |     |    |    |     |
|         |         | C       | B,E     | F       | C,E,B | F  | 01   | 02        |    |    |    |    |    |    |    |   |      |    |     |     |     |    |    |     |
| 40      | 20      | M16X1.5 | M14X1.5 | M16X1,5 | 30    | 30 | G1/4 | M14X1.5   | 57 | 42 | 48 | 20 | 14 | 25 | 18 | 4 | 9    | 16 | 98  | 80  | 65  | 6  |    | 144 |
|         | 22      | M16X1.5 | M16X1,5 | M20X1.5 | 30    | 30 | G1/4 | M14X1.5   | 57 | 42 | 48 | 20 | 14 | 25 | 18 | 4 | 9    | 16 | 98  | 80  | 65  | 6  |    | 144 |
|         | 25      | M16X1.5 | M16X1,5 | M20X1.5 | 30    | 30 | G1/4 | M14X1.5   | 57 | 42 | 48 | 20 | 14 | 25 | 18 | 4 | 9    | 16 | 98  | 80  | 65  | 6  |    | 144 |
| 50      | 25      | M22X1.5 | M16X1.5 | M22X1,5 | 40    | 40 | G3/8 | M18X1.5   | 68 | 47 | 48 | 20 | 17 | 25 | 16 | 6 | 9    | 20 | 115 | 95  | 75  | 6  |    | 158 |
|         | 28      | M22X1.5 | M20X1.5 | M22X1.5 | 40    | 40 | G3/8 | M18X1.5   | 68 | 47 | 48 | 20 | 17 | 25 | 16 | 6 | 9    | 20 | 115 | 95  | 75  | 6  |    | 158 |
|         | 32      | M22X1.5 | M22X1.5 | M28X1.5 | 40    | 45 | G3/8 | M18X1.5   | 68 | 47 | 48 | 20 | 17 | 25 | 16 | 6 | 9    | 20 | 115 | 95  | 75  | 6  |    | 158 |
| 63      | 32      | M27X1.5 | M22X1.5 | M28X1.5 | 40    | 45 | G3/8 | M18X1.5   | 83 | 49 | 58 | 20 | 18 | 30 | 18 | 6 | 13.5 | 25 | 145 | 120 | 100 | 6  |    | 158 |
|         | 36      | M27X1.5 | M27X2   | M33X2   | 40    | 50 | G3/8 | M18X1.5   | 83 | 49 | 58 | 20 | 18 | 30 | 18 | 6 | 13.5 | 25 | 145 | 120 | 100 | 6  |    | 158 |
|         | 45      | M27X1.5 | M33X2   | M42X2   | 40    | 65 | G3/8 | M18X1.5   | 83 | 49 | 58 | 20 | 18 | 30 | 18 | 6 | 13.5 | 25 | 145 | 120 | 100 | 6  |    | 158 |



HSG5系列安装方式



前后耳环  
带关节轴承  
B



尾部法兰  
前耳环带关节轴承  
L



杆端螺纹  
后耳环带关节轴承  
D



尾部法兰  
杆端螺纹  
M



中间轴销  
后耳环带关节轴承  
F



前部法兰  
前耳环带关节轴承  
P



中间轴销  
杆端螺纹  
G



前部法兰  
杆端螺纹  
Q



HSG5系列杆端螺纹规格



| 缸径  | 杆径  | 杆端螺纹    |         |     |    |
|-----|-----|---------|---------|-----|----|
|     |     | KK      |         | A   |    |
| ΦAL | ΦMM | B,E     | F       | B,E | F  |
| 25  | 14  | M10X1.5 | M12X1.5 | 20  | 25 |
| 32  | 18  | M14X1.5 | M16X1.5 | 25  | 30 |

注: B:标准外螺纹 E:标准内螺纹 F: 最大外螺纹

HSG5系列油缸推拉力表



| 缸径  | 杆径  | 压力     |       |        |       |        |       |
|-----|-----|--------|-------|--------|-------|--------|-------|
|     |     | 50bar  |       | 100bar |       | 160bar |       |
| ΦAL | ΦMM | 推力 (t) | 拉力(t) | 推力 (t) | 拉力(t) | 推力 (t) | 拉力(t) |
| 25  | 14  | 0.245  | 0.168 | 0.491  | 0.337 | 0.785  | 0.539 |
| 32  | 18  | 0.402  | 0.275 | 0.804  | 0.550 | 1.286  | 0.879 |

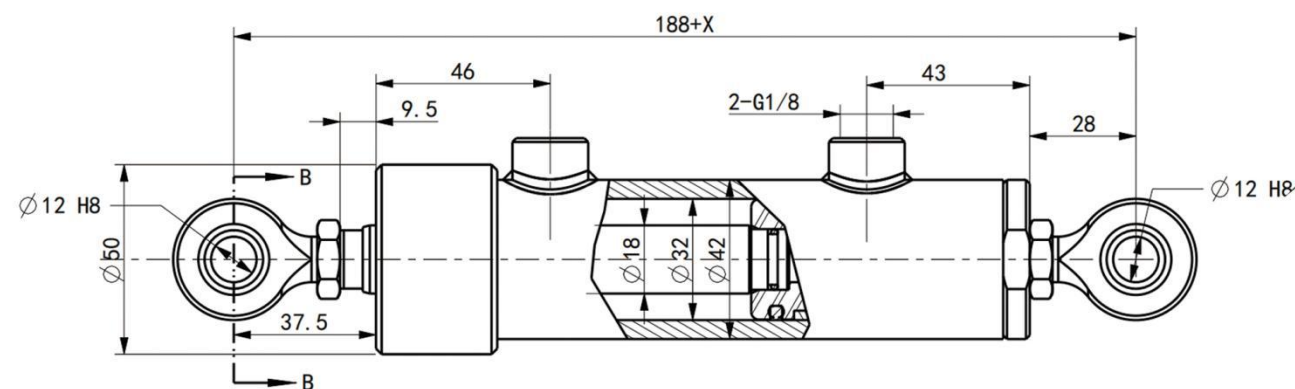
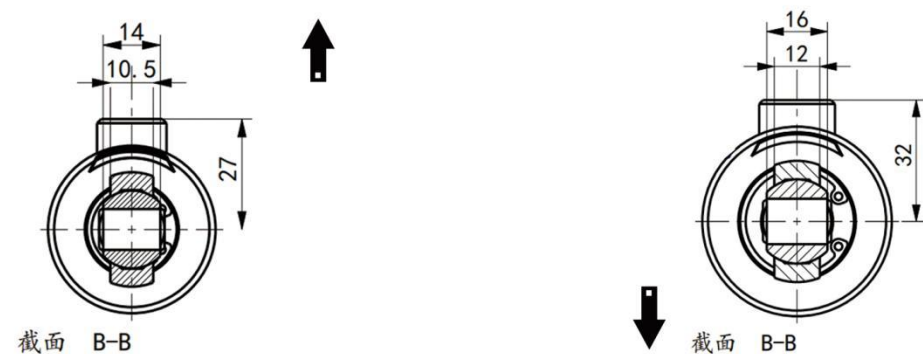
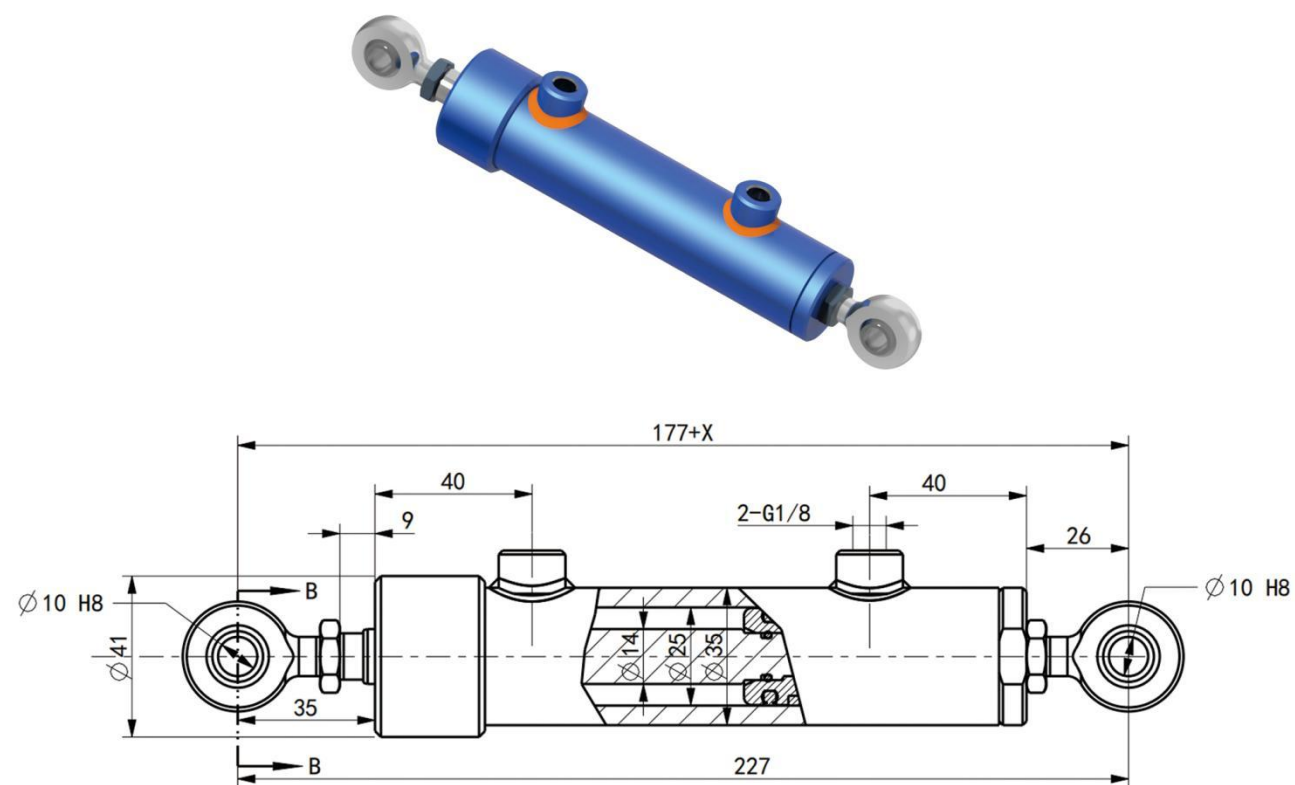
HSG5系列油缸允许行程表



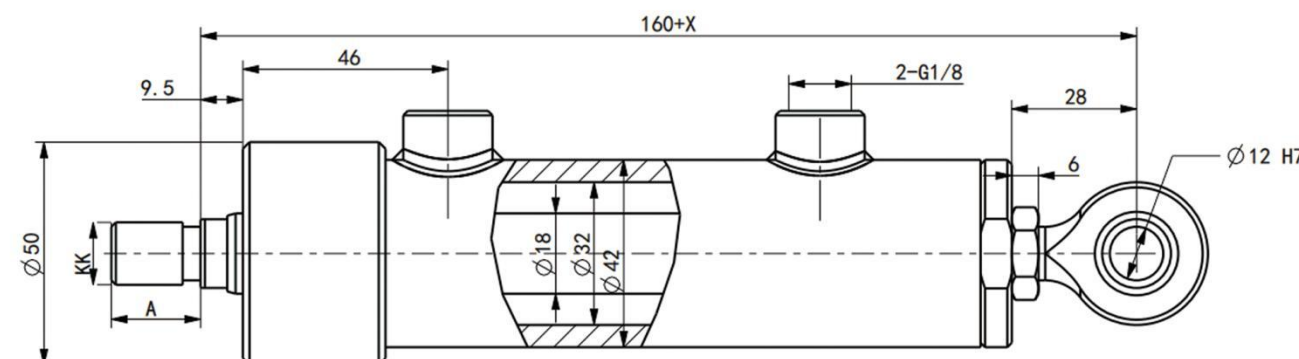
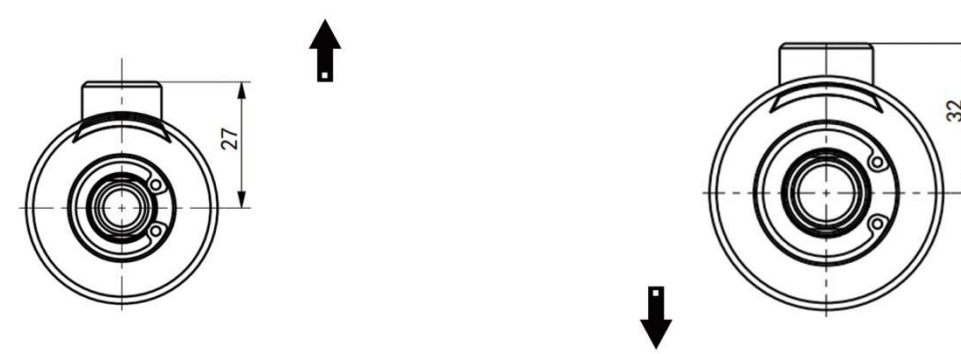
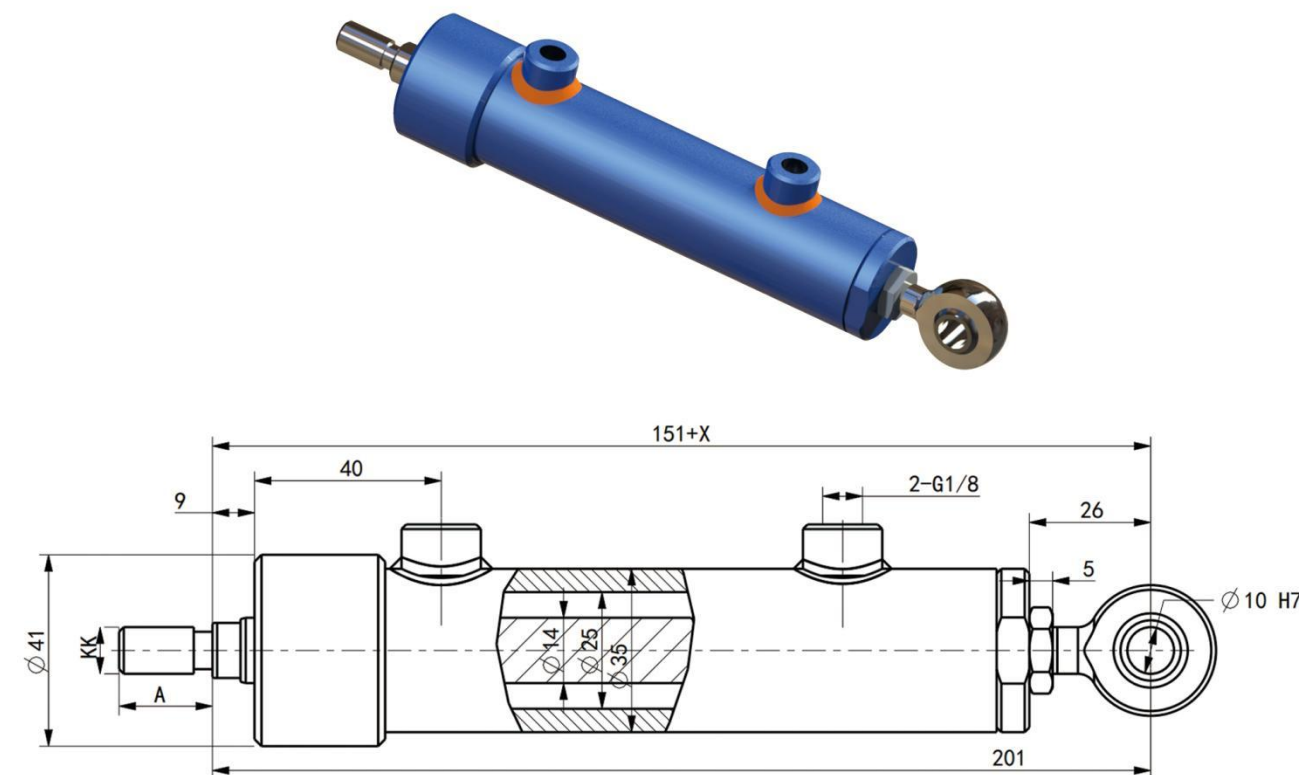
| 缸径  | 杆径  | 安装方式 |     |     |     |     |     |
|-----|-----|------|-----|-----|-----|-----|-----|
|     |     | B,D  |     | P,Q |     | F,G |     |
| ΦAL | ΦMM | 80   | 160 | 80  | 160 | 80  | 160 |
| 25  | 14  | 180  | 110 | 260 | 220 | 270 | 185 |
| 32  | 18  | 250  | 150 | 350 | 270 | 360 | 240 |



# HSG5-前后耳环带关节轴承 B

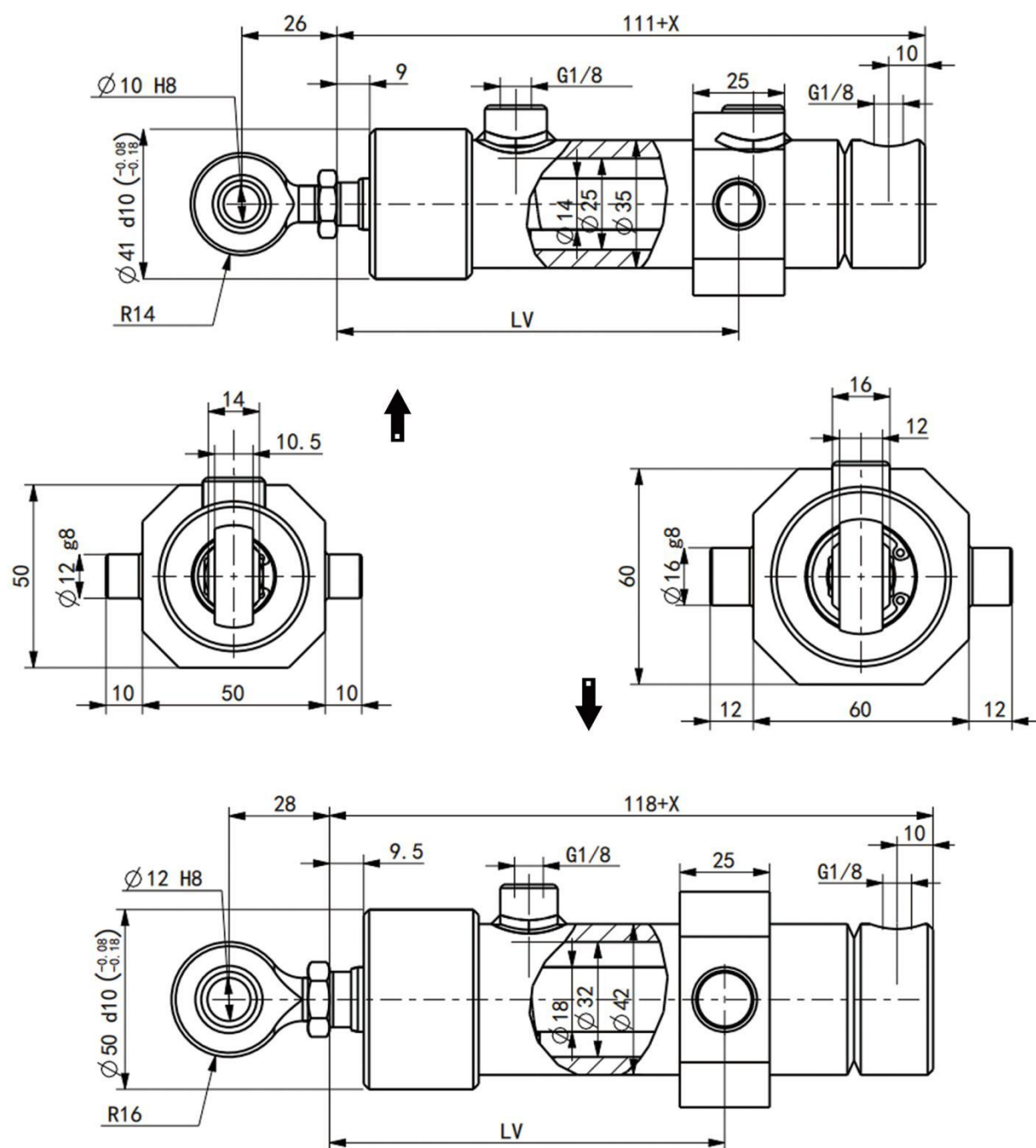
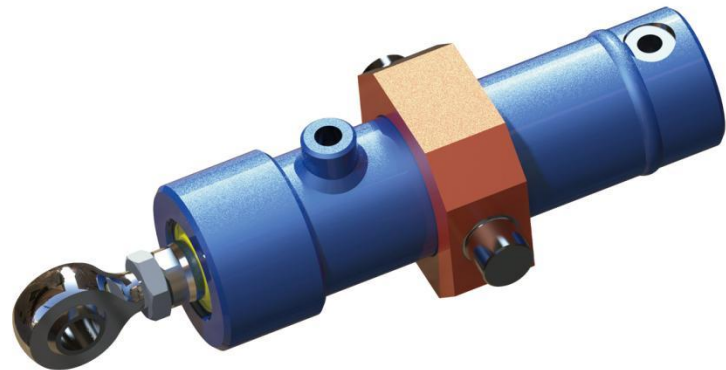


# HSG5-杆端螺纹后耳环带关节轴承 D

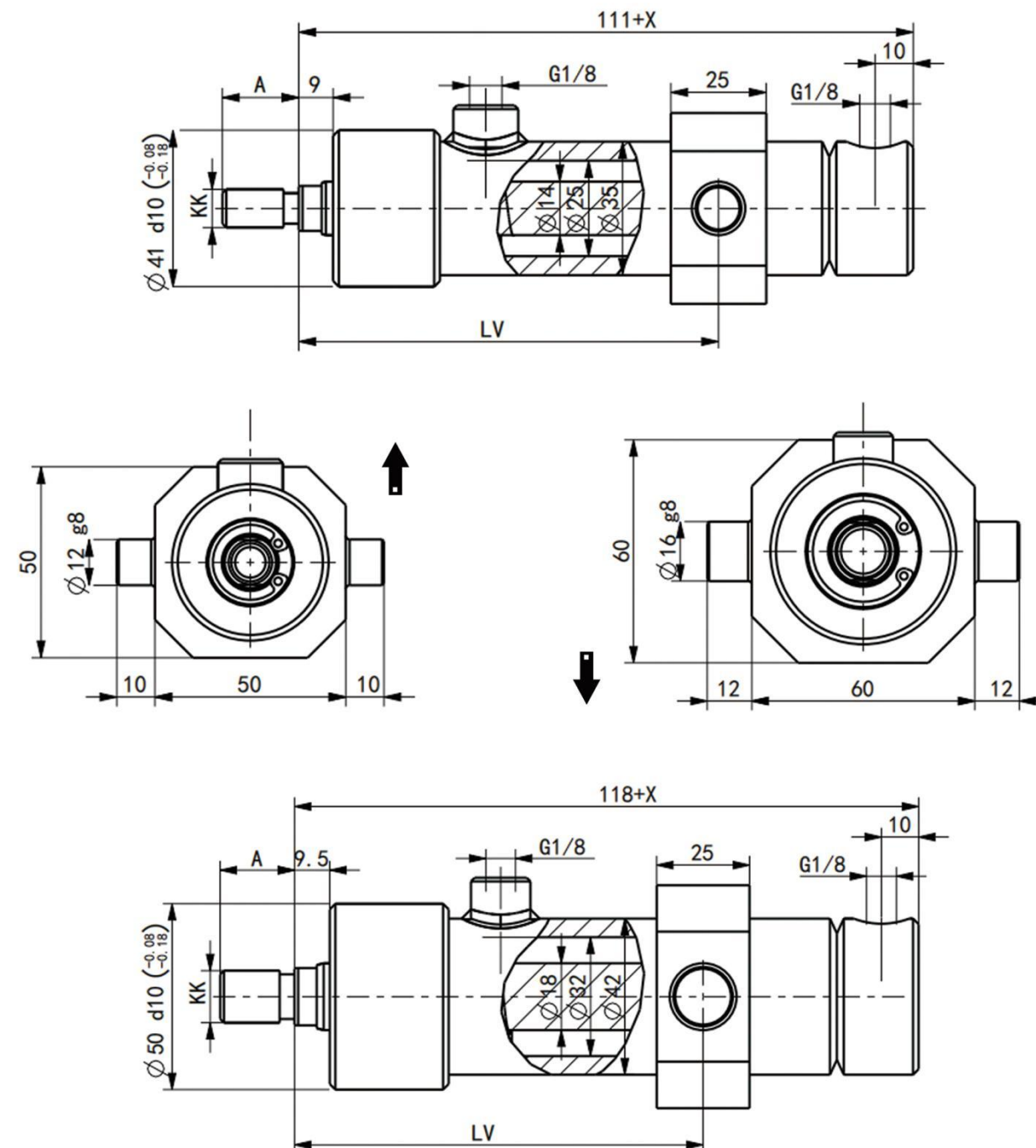
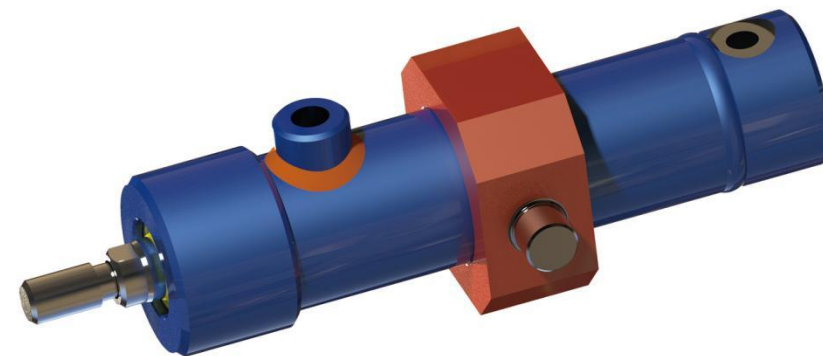




## HSG5-中间轴销后耳环带关节轴承 F

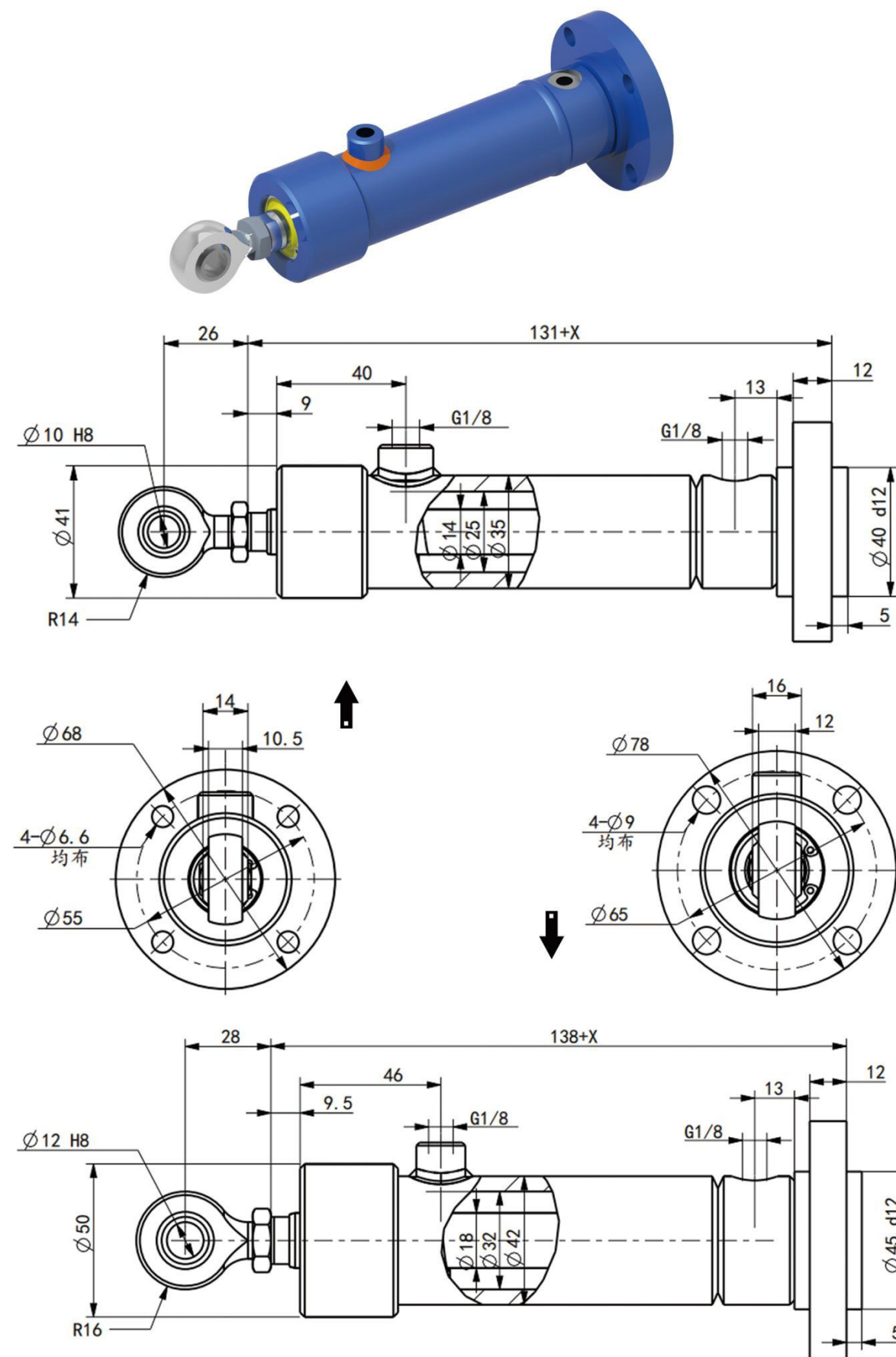


## HSG5-中间轴销杆端螺纹 G

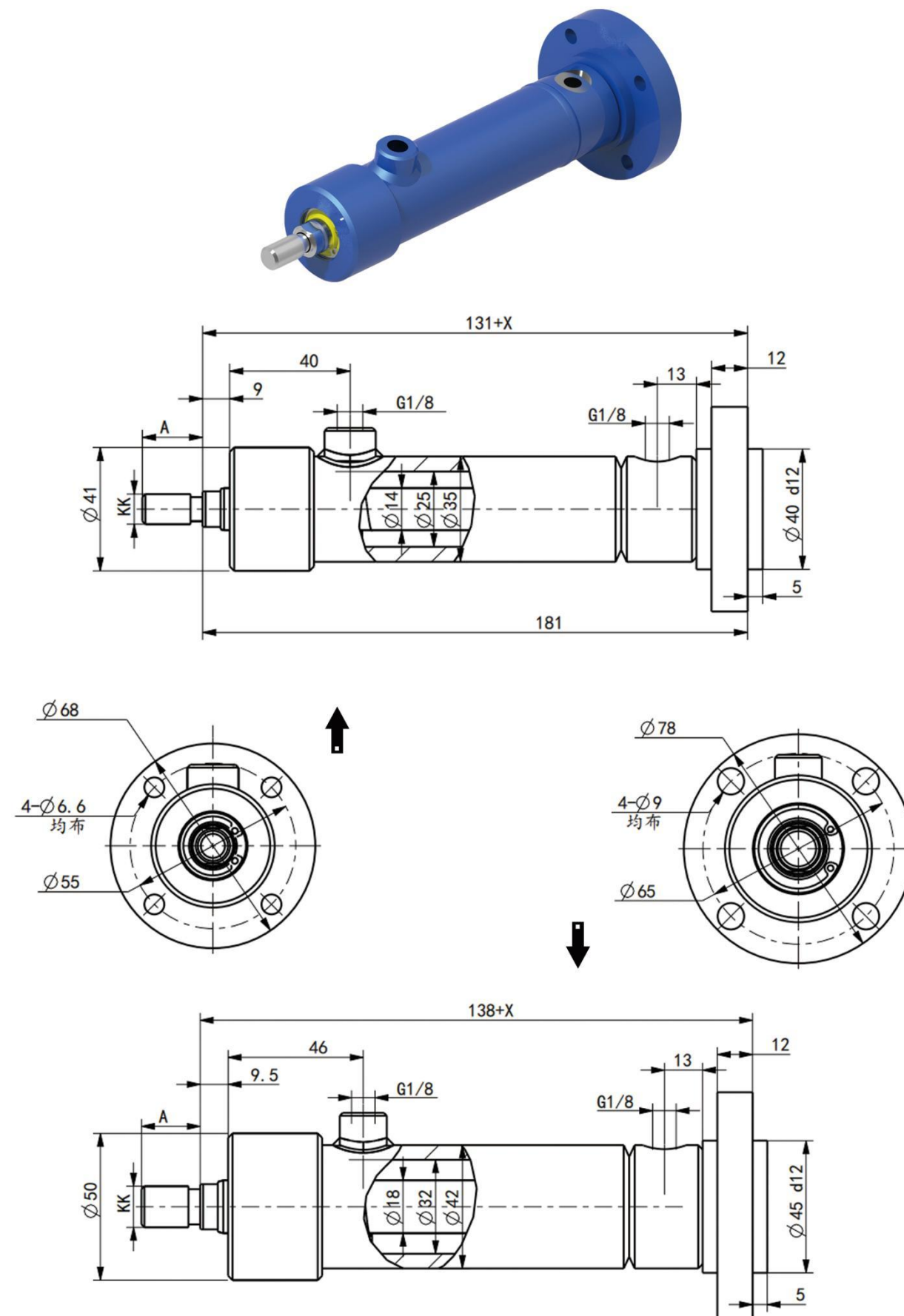




# HSG5-尾部法兰前耳环带关节轴承 L

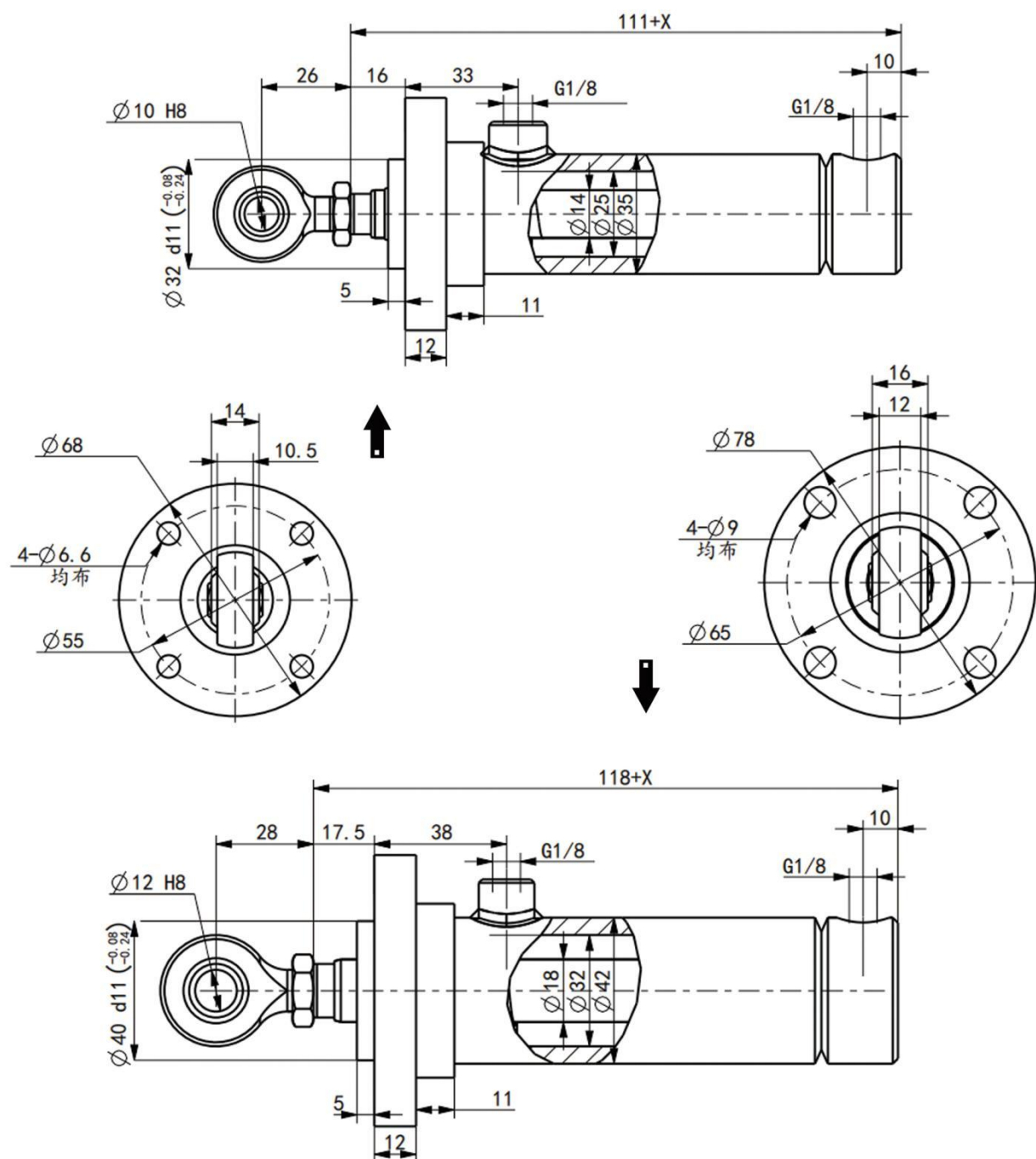


# HSG5-尾部法兰杆端螺纹 M

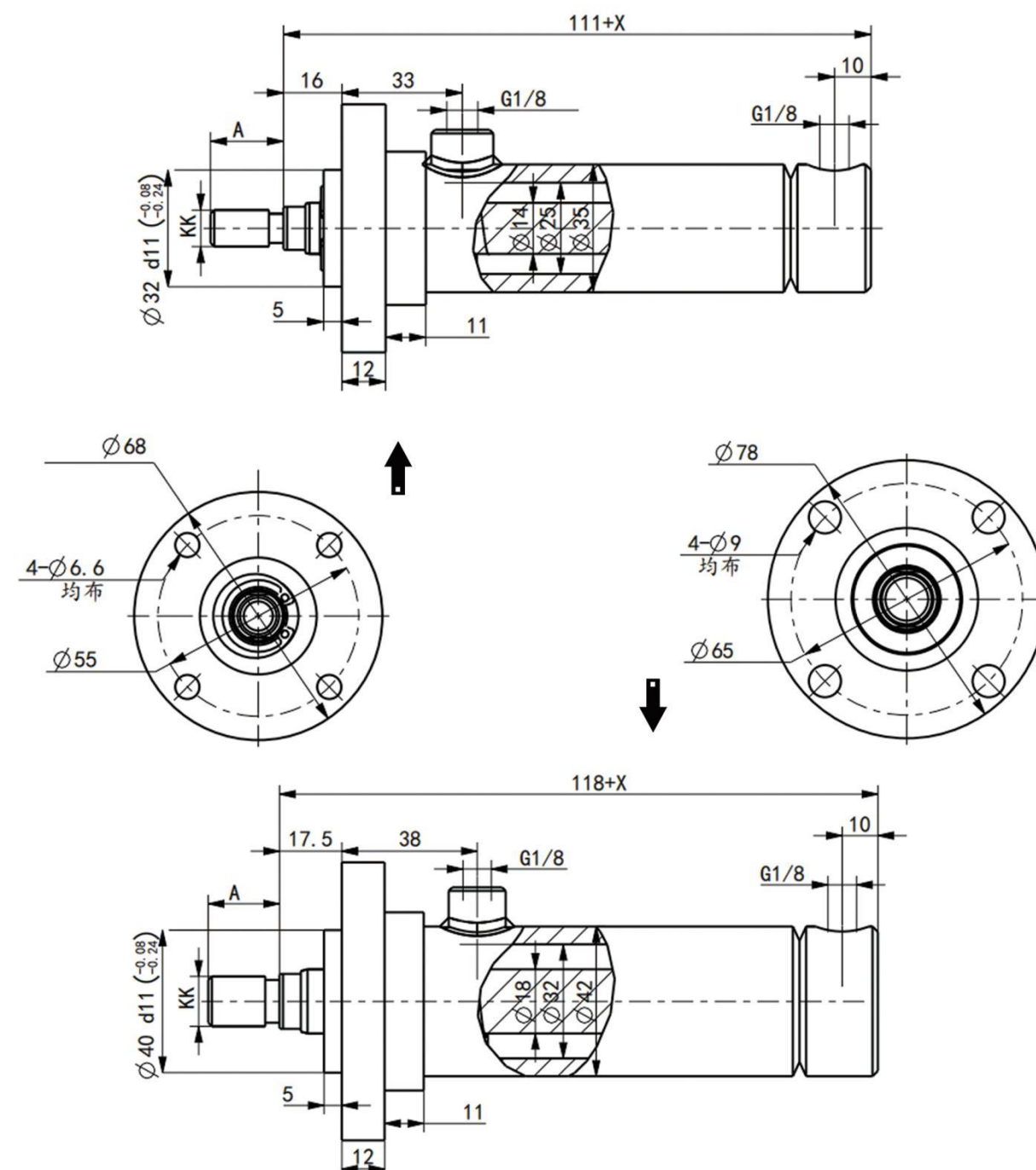




# HSG5-前部法兰前耳环带关节轴承 P

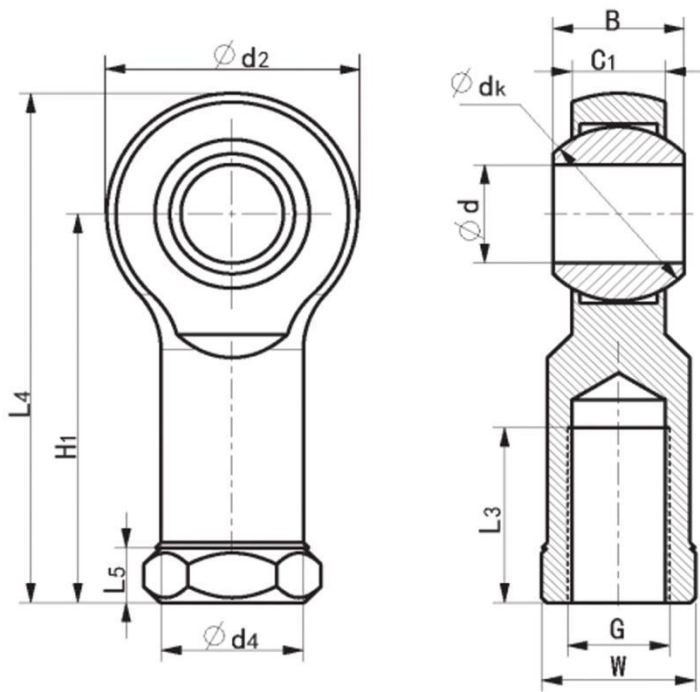


# HSG5-前部法兰杆端螺纹 Q





SI系列免维护杆端轴承



| 名称        | 尺寸 mm         |                                       |       |                    |                    |          |     |                    |                    |     |    |                |                |                    |      | 转动扭力                    | 负荷 KN |      | 重量     | 库存    |
|-----------|---------------|---------------------------------------|-------|--------------------|--------------------|----------|-----|--------------------|--------------------|-----|----|----------------|----------------|--------------------|------|-------------------------|-------|------|--------|-------|
| 型号        | d<br>公差<br>H7 | B <sup>0</sup> <sub>-0.12</sub><br>mm | dk    | c <sub>1</sub> max | d <sub>2</sub> max | G 6H     | h1  | L <sub>3</sub> min | L <sub>4</sub> max | L5  | W  | d <sub>4</sub> | d <sub>5</sub> | r <sub>s</sub> min | a° ≈ | Rotational torqueNm max | 动 KN  | 静 KN | 重量 ≈kg | STOCK |
| SI5T/K    | 5             | 8                                     | 11.12 | 6                  | 18                 | M5       | 27  | 10                 | 36                 | 4   | 9  | 9              | 12             | 0.3                | 13   | 0.2                     | 5.7   | 6    | 0.016  | √     |
| SI5T/K-1  |               |                                       |       |                    |                    | M4       |     |                    |                    |     |    |                |                |                    |      |                         |       |      |        | √     |
| SI6T/K    | 6             | 9                                     | 12.7  | 6.75               | 20                 | M6       | 30  | 12                 | 40                 | 5   | 11 | 10             | 13             | 0.3                | 13   | 0.25                    | 7.2   | 7.65 | 0.022  | √     |
| SI8T/K    | 8             | 12                                    | 15.88 | 9                  | 24                 | M8       | 36  | 16                 | 48                 | 5   | 14 | 12.5           | 16             | 0.3                | 14   | 0.3                     | 11.6  | 12.9 | 0.047  | √     |
| SI10T/K   | 10            | 14                                    | 19.05 | 10.5               | 28                 | M10      | 43  | 20                 | 57                 | 6.5 | 17 | 15             | 19             | 0.6                | 13   | 0.4                     | 14.5  | 18   | 0.077  | √     |
| SI10T/K-1 |               |                                       |       |                    |                    | M10×1.25 |     |                    |                    |     |    |                |                |                    |      |                         |       |      |        | √     |
| SI12T/K   | 12            | 16                                    | 22.23 | 12                 | 32                 | M12      | 50  | 22                 | 66                 | 6.5 | 19 | 17.5           | 22             | 0.6                | 13   | 0.5                     | 17    | 24   | 0.1    | √     |
| SI12T/K-1 |               |                                       |       |                    |                    | M12×1.25 |     |                    |                    |     |    |                |                |                    |      |                         |       |      |        | √     |
| SI14T/K   | 14            | 19                                    | 25.4  | 13.5               | 36                 | M14      | 57  | 25                 | 75                 | 8   | 22 | 20             | 25             | 0.6                | 16   | 0.6                     | 24    | 31   | 0.16   | √     |
| SI14T/K-1 |               |                                       |       |                    |                    | M14×1.5  |     |                    |                    |     |    |                |                |                    |      |                         |       |      |        | √     |
| SI16T/K   | 16            | 21                                    | 28.58 | 15                 | 42                 | M16      | 64  | 28                 | 85                 | 8   | 24 | 22             | 27             | 0.6                | 15   | 0.7                     | 28.5  | 39   | 0.22   | √     |
| SI16T/K-1 |               |                                       |       |                    |                    | M16×1.5  |     |                    |                    |     |    |                |                |                    |      |                         |       |      |        | √     |
| SI18T/K   | 18            | 23                                    | 31.75 | 16.5               | 44                 | M18×1.5  | 71  | 32                 | 93                 | 10  | 27 | 25             | 32             | 0.6                | 15   | 0.8                     | 42.5  | 47.5 | 0.32   | √     |
| SI20T/K   | 20            | 25                                    | 34.93 | 18                 | 50                 | M20×1.5  | 77  | 33                 | 102                | 10  | 30 | 27.5           | 34             | 0.6                | 14   | 1                       | 4.25  | 57   | 0.42   | √     |
| SI22T/K   | 22            | 28                                    | 38.1  | 20                 | 54                 | M22×1.5  | 84  | 37                 | 111                | 12  | 32 | 30             | 37             | 0.6                | 15   | 1.2                     | 57    | 68   | 0.54   | √     |
| SI25T/K   | 25            | 31                                    | 42.86 | 22                 | 60                 | M24×2    | 94  | 42                 | 124                | 12  | 36 | 33.5           | 42             | 0.6                | 15   | 1.2                     | 68    | 85   | 0.72   | √     |
| SI28T/K   | 28            | 35                                    | 47.63 | 24                 | 66                 | M27×2    | 103 | 48                 | 136                | 12  | 41 | 37             | 46             | 0.6                | 15   | 1.2                     | 86    | 107  | 0.82   | √     |
| SI30T/K   | 30            | 37                                    | 50.8  | 25                 | 70                 | M30×2    | 110 | 51                 | 145                | 14  | 41 | 40             | 46             | 0.6                | 17   | 1.2                     | 88    | 114  | 1.1    | √     |
| SI30T/K-1 |               |                                       |       |                    |                    | M27×2    |     |                    |                    |     |    |                |                |                    |      |                         |       |      |        | √     |
| SI35T/K   | 35            | 43                                    | 57.1  | 28                 | 81                 | M36×2    | 125 | 56                 | 165.5              | 17  | 50 | 46             | 58             | 0.6                | 16   | 1.2                     | 101   | 206  | 1.6    | √     |
| SI40T/K   | 40            | 49                                    | 66.6  | 33                 | 91                 | M42×2    | 142 | 60                 | 187.5              | 19  | 55 | 53             | 65             | 0.6                | 17   | 1.2                     | 124   | 286  | 2.4    | √     |
| SI50T/K   | 50            | 60                                    | 82.5  | 45                 | 117                | M48×2    | 160 | 65                 | 218.5              | 23  | 65 | 65             | 75             | 1                  | 12   | 1.2                     | 308   | 485  | 5      | ○     |

尺寸单位为毫米

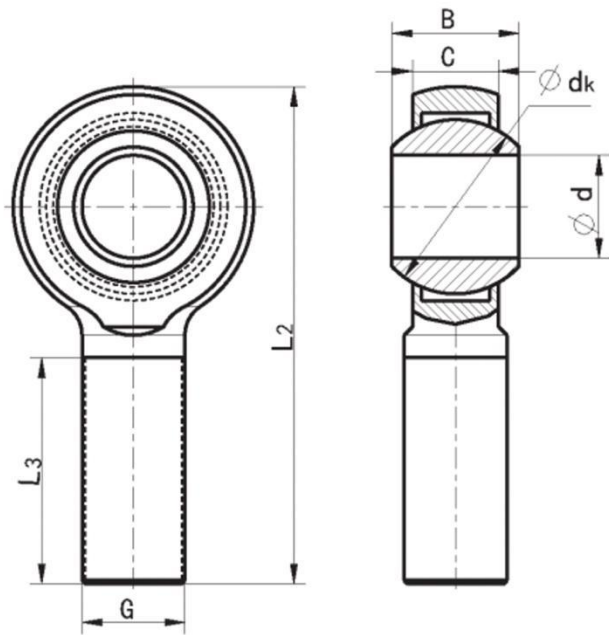
注：如果是左旋螺纹，轴承型号需加“L”，例如：SAL20T/K

滑动磨擦副：钢对PTFE复合材料

设计结构特点：杆端体材料为碳钢，镀环保白锌，垫圈（球）材料为轴承钢，球面镀硬铬

与PHS系列尺寸相近，润滑方式不同，推荐使用。本系列产品可以用不锈钢制造订货时在型号后加“X”

SA系列免维护杆端轴承



| 名称      | 尺寸 mm         |                                       |      |                    |                    |         |     |                    |                    |                    |      | 转动扭力                    | 负荷 KN |      | 径向游隙                | 重量     | 库存    |
|---------|---------------|---------------------------------------|------|--------------------|--------------------|---------|-----|--------------------|--------------------|--------------------|------|-------------------------|-------|------|---------------------|--------|-------|
| 型号      | d<br>公差<br>H7 | B <sup>0</sup> <sub>-0.12</sub><br>mm | dk   | c <sub>1</sub> max | d <sub>2</sub> max | G 6g    | h   | L <sub>1</sub> min | L <sub>2</sub> max | r <sub>s</sub> min | a° ≈ | Rotational torqueNm max | 动 KN  | 静 KN | Radial clearance mm | 重量 ≈kg | STOCK |
| SA5T/K  | 5             | 8                                     | 11.1 | 6                  | 18                 | M5      | 33  | 19                 | 42                 | 0.3                | 13   | 0.2                     | 5.7   | 6    | 0~0.032             | 0.013  | √     |
| SA6T/K  | 6             | 9                                     | 12.7 | 6.75               | 20                 | M6      | 36  | 21                 | 46                 | 0.3                | 13   | 0.25                    | 7.2   | 7.65 | 0~0.032             | 0.015  | √     |
| SA8T/K  | 8             | 12                                    | 15.9 | 9                  | 24                 | M8      | 42  | 25                 | 54                 | 0.3                | 14   | 0.3                     | 11.6  | 12.9 | 0~0.032             | 0.034  | √     |
| SA10T/K | 10            | 14                                    | 19.1 | 10.5               | 28                 | M10     | 48  | 28                 | 62                 | 0.6                | 13   | 0.4                     | 14.5  | 18   | 0~0.032             | 0.071  | √     |
| SA12T/K | 12            | 16                                    | 22.2 | 12                 | 32                 | M12     | 54  | 32                 | 70                 | 0.6                | 13   | 0.5                     | 17    | 24   | 0~0.032             | 0.11   | √     |
| SA14T/K | 14            | 19                                    | 25.4 | 13.5               | 36                 | M14     | 60  | 36                 | 78                 | 0.6                | 16   | 0.6                     | 24    | 31   | 0~0.04              | 0.13   | √     |
| SA16T/K | 16            | 21                                    | 28.6 | 15                 | 42                 | M16     | 66  | 37                 | 87                 | 0.6                | 15   | 0.7                     | 28.5  | 39   | 0~0.04              | 0.22   | √     |
| SA18T/K | 18            | 23                                    | 31.8 | 16.5               | 44                 | M18×1.5 | 72  | 41                 | 94                 | 0.6                | 15   | 0.8                     | 42.5  | 47.5 | 0~0.04              | 0.29   | √     |
| SA20T/K | 20            | 25                                    | 34.9 | 18                 | 50                 | M20×1.5 | 78  | 45                 | 103                | 0.6                | 14   | 1                       | 42.5  | 57   | 0~0.04              | 0.36   | √     |
| SA22T/K | 22            | 28                                    | 38.1 | 20                 | 54                 | M22×1.5 | 84  | 48                 | 111                | 0.6                | 15   | 1.2                     | 57    | 68   | 0~0.05              | 0.49   | √     |
| SA25T/K | 25            | 31                                    | 42.9 | 22                 | 60                 | M24×2   | 94  | 55                 | 124                | 0.6                | 15   | 1.2                     | 68    | 85   | 0~0.05              | 0.65   | √     |
| SA28T/K | 28            | 35                                    | 47.6 | 24                 | 66                 | M27×2   | 103 | 62                 | 136                | 0.6                | 15   | 1.2                     | 86    | 107  | 0~0.05              | 0.87   | √     |
| SA30T/K | 30            | 37                                    | 50.8 | 25                 | 70                 | M30×2   | 110 | 66                 | 145                | 0.6                | 17   | 1.2                     | 88    | 114  | 0~0.05              | 1.1    | √     |
| SA35T/K | 35            | 43                                    | 57.1 | 28                 | 81                 | M36×2   | 140 | 85                 | 181                | 0.6                | 16   | 1.2                     | 101   | 206  | 0~0.05              | 1.64   | √     |
| SA40T/K | 40            | 49                                    | 66.6 | 33                 | 91                 | M42×2   | 150 | 90                 | 196                | 0.6                | 17   | 1.2                     | 124   | 286  | 0~0.05              | 2.4    | √     |
| SA50T/K | 50            | 60                                    | 82.5 | 45                 | 117                | M48×2   | 185 | 105                | 244                | 0.6                | 12   | 1.2                     | 308   | 485  | 0~0.05              | 4.8    | ○     |

尺寸单位为毫米

注：如果是左旋螺纹，轴承型号需加“L”，例如：SAL20T/K

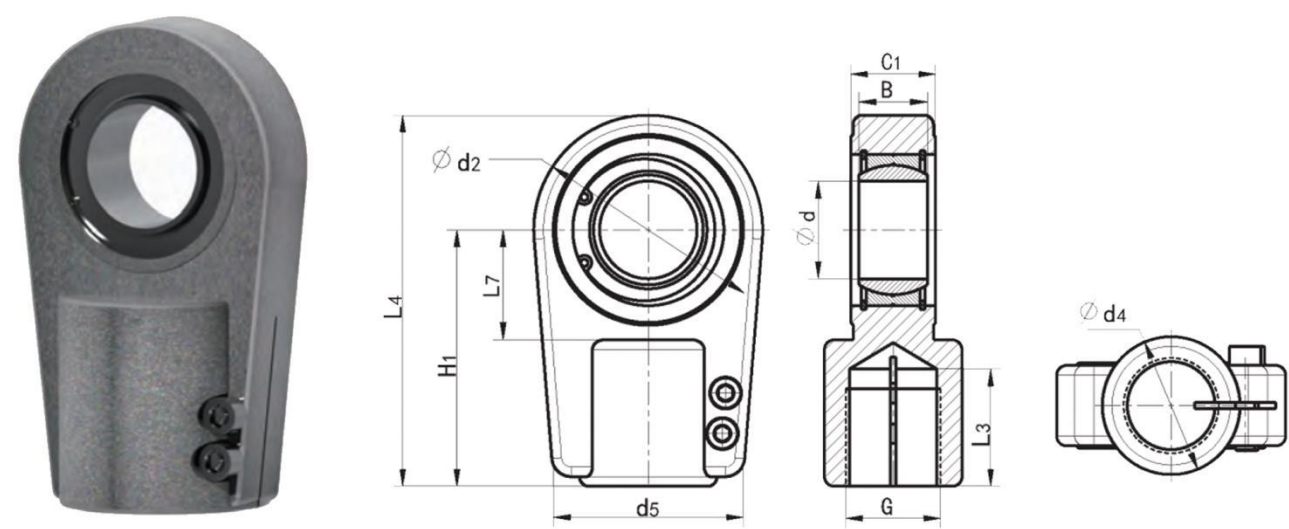
滑动磨擦副：钢对PTFE复合材料

设计结构特点：杆端体材料为碳钢，镀环保白锌，垫圈（球）材料为轴承钢，球面镀硬铬

与PHS系列尺寸相近，润滑方式不同，推荐使用。本系列产品可以用不锈钢制造订货时在型号后加“X”



GAS吊环头



| 名称     | 尺寸 mm |     |                |                |        |                |                |                   |                |                |                | 负荷 KN |      | 重量     | 库存    |
|--------|-------|-----|----------------|----------------|--------|----------------|----------------|-------------------|----------------|----------------|----------------|-------|------|--------|-------|
| 型号     | d     | B   | C <sub>1</sub> | d <sub>2</sub> | G      | d <sub>4</sub> | L <sub>7</sub> | L <sub>3min</sub> | d <sub>5</sub> | h <sub>1</sub> | L <sub>4</sub> | 动 KN  | 静 KN | 重量 ≈kg | STOCK |
| GAS20  | 20    | 16  | 23             | 56             | M18×2  | 28             | 25             | 30                | 48             | 65             | 95             | 48    | 82   | 0.42   | √     |
| AS140  | 25    | 20  | 23             | 56             | M18×2  | 28             | 25             | 30                | 48             | 65             | 95             | 63    | 82   | 0.57   | √     |
| GAS30  | 30    | 22  | 28             | 64             | M24×2  | 34             | 30             | 35                | 56             | 75             | 109            | 82.7  | 122  | 0.91   | √     |
| GAS35  | 35    | 25  | 30             | 78             | M30×2  | 45             | 40             | 40                | 66             | 90             | 132            | 107   | 177  | 1.9    | √     |
| GAS40  | 40    | 28  | 35             | 94             | M39×3  | 56.5           | 45             | 48                | 78             | 105            | 155            | 135   | 287  | 3      | √     |
| GAS50  | 50    | 35  | 40             | 116            | M50×3  | 70             | 55             | 66                | 89             | 135            | 198            | 210   | 422  | 4.9    | √     |
| GAS60  | 60    | 44  | 50             | 130            | M64×3  | 87             | 65             | 84                | 118            | 170            | 240            | 234   | 522  | 7.5    | √     |
| GSA70  | 70    | 49  | 55             | 154            | M80×3  | 110            | 75             | 110               | 128            | 195            | 278            | 431   | 707  | 11.5   | √     |
| GAS80  | 80    | 55  | 60             | 176            | M90×3  | 128            | 80             | 120               | 156            | 210            | 305            | 554   | 870  | 16.5   | √     |
| GSA90  | 90    | 60  | 65             | 210            | M100×3 | 152            | 90             | 140               | 168            | 250            | 365            | 671   | 1284 | 35.5   | √     |
| GAS100 | 100   | 70  | 70             | 230            | M110×4 | 170            | 105            | 150               | 171            | 275            | 400            | 842   | 1460 | 43.5   | √     |
| GAS110 | 110   | 70  | 80             | 264            | M120×4 | 180            | 115            | 160               | 189            | 300            | 442            | 910   | 2024 | 60.5   | √     |
| GSA120 | 120   | 85  | 90             | 340            | M150×4 | 210            | 140            | 190               | 243            | 360            | 540            | 1336  | 2970 | 96.5   | √     |
| GAS140 | 140   | 90  | 110            | 380            | M160×4 | 230            | 185            | 200               | 248            | 420            | 620            | 1665  | 3500 | 138    | ○     |
| GAS160 | 160   | 105 | 110            | 480            | M180×4 | 260            | 200            | 220               | 273            | 460            | 710            | 1935  | 4302 | 209    | ○     |

尺寸单位为毫米

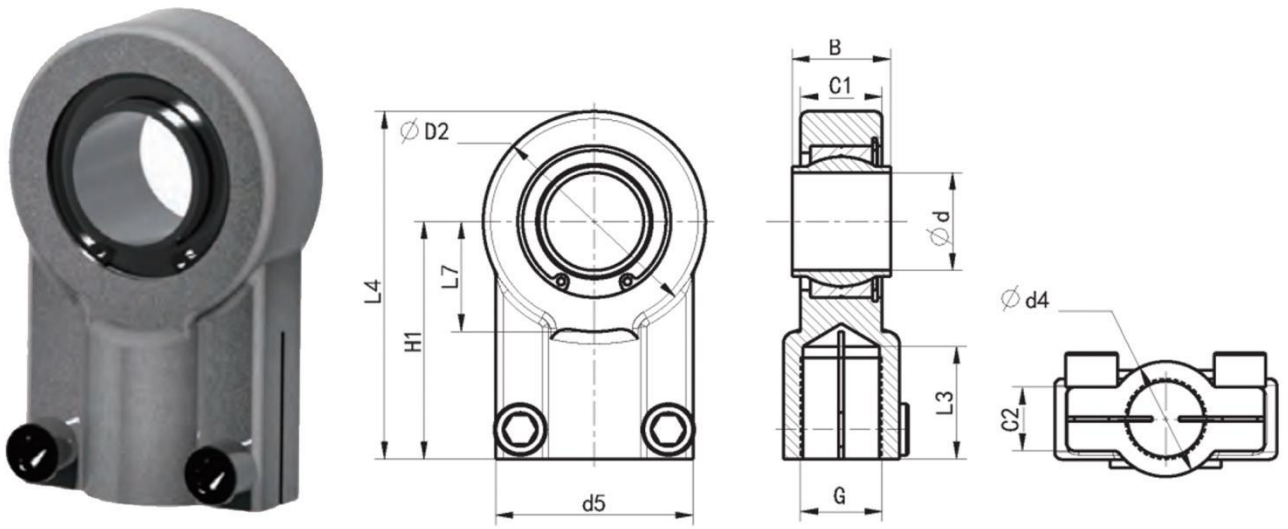
注：如果是左旋螺纹，轴承型号需加“L”，例如:GASL30。

滑动摩擦副:钢/钢

设计结构特点:由杆端体与GE..ES，GE..ES2RS系列向心关节轴承组装而成，用挡圈固定，锻杆端体材料为碳钢（锻造成型d≤70或铸钢d≥80），杆端柄内螺纹部有轴向缝并锁紧装置，可通过螺钉锁紧，可通过油杯润滑。

产品具有很强的承载力常用于液压缸、油缸，又名:油缸耳环。

CIHN吊环头



| 名称          | 尺寸 mm  |     |                |                |                |          |                |                |                |                |                |                |    | 负荷 KN |      | 重量     | 库存    |
|-------------|--------|-----|----------------|----------------|----------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|----|-------|------|--------|-------|
| 型号          | d (H7) | B   | d <sub>k</sub> | C <sub>1</sub> | d <sub>2</sub> | G        | h <sub>1</sub> | L <sub>3</sub> | L <sub>4</sub> | d <sub>4</sub> | d <sub>5</sub> | C <sub>2</sub> | a° | 动 KN  | 静 KN | 重量 ≈kg | STOCK |
| GIHN-K12LO  | 12     | 13  | 18             | 11             | 32             | M12×1.25 | 38             | 17             | 54             | 16             | 32             | 15             | 4  | 10    | 15   | 0.11   | √     |
| GIHN-K16LO  | 16     | 16  | 23             | 14             | 40             | M14×1.5  | 44             | 19             | 64             | 21             | 40             | 19             | 4  | 17    | 24   | 0.21   | √     |
| GIHN-K20LO  | 20     | 20  | 29             | 17             | 47             | M16×1.5  | 52             | 23             | 77             | 25             | 47             | 19             | 4  | 30    | 36   | 0.4    | √     |
| GIHN-K25LO  | 25     | 25  | 35.5           | 22             | 58             | M20×1.5  | 65             | 29             | 96             | 30             | 54             | 19             | 4  | 48    | 57   | 0.66   | √     |
| GIHN-K32LO  | 32     | 32  | 43             | 28             | 71             | M27×2    | 80             | 37             | 118.5          | 38             | 66             | 22             | 4  | 65    | 81   | 1.2    | √     |
| GIHN-K40LO  | 40     | 40  | 53             | 33             | 90             | M33×2    | 97             | 46             | 146            | 47             | 80             | 26             | 4  | 99    | 156  | 2.1    | √     |
| GIHN-K50LO  | 50     | 50  | 66             | 40             | 109            | M42×2    | 120            | 57             | 179.5          | 58             | 96             | 32             | 4  | 156   | 250  | 4.5    | √     |
| GIHN-K63LO  | 63     | 63  | 83             | 53             | 136            | M48×2    | 140            | 64             | 211            | 70             | 114            | 38             | 4  | 253   | 343  | 7.6    | √     |
| GIHN-K70LO  | 70     | 70  | 92             | 57             | 155            | M56×2    | 160            | 76             | 245            | 80             | 135            | 42             | 4  | 315   | 540  | 9.5    | √     |
| GIHN-K80LO  | 80     | 80  | 105            | 67             | 170            | M64×3    | 180            | 86             | 270            | 90             | 148            | 48             | 4  | 400   | 560  | 14     | √     |
| GIHN-K90LO  | 90     | 90  | 115            | 72             | 185            | M72×3    | 195            | 91             | 296            | 100            | 160            | 52             | 4  | 490   | 750  | 17     | √     |
| GIHN-K100LO | 100    | 100 | 130            | 85             | 211            | M80×3    | 210            | 96             | 322            | 110            | 178            | 62             | 4  | 607   | 960  | 28     | √     |
| GIHN-K110LO | 110    | 110 | 140            | 88             | 235            | M90×3    | 235            | 106            | 364            | 125            | 190            | 62             | 4  | 655   | 1200 | 32     | √     |
| GIHN-K125LO | 125    | 125 | 160            | 103            | 265            | M100×3   | 260            | 113            | 405            | 135            | 200            | 72             | 4  | 950   | 1430 | 46     | √     |
| GIHN-K160LO | 160    | 160 | 200            | 130            | 326            | M125×4   | 310            | 126            | 488            | 165            | 250            | 82             | 4  | 1370  | 2200 | 82.5   | √     |
| GIHN-K200LO | 200    | 200 | 250            | 162            | 418            | M160×4   | 390            | 161            | 620            | 215            | 320            | 102            | 4  | 2120  | 3650 | 168    | √     |
| GIHN-K250LO | 250    | 250 | 350            | 192            | 580            | M200×4   | 530            | 205            | 847            | 300            | 420            | 142            | 4  | 3550  | 6400 | 425    | ○     |
| GIHN-K320LO | 320    | 320 | 450            | 260            | 700            | M250×6   | 640            | 260            | 1015           | 360            | 520            | 170            | 4  | 6100  | 8650 | 790    | ○     |

尺寸单位为毫米。

滑动摩擦副：钢 / 钢 \* 此标识的产品无油杯。

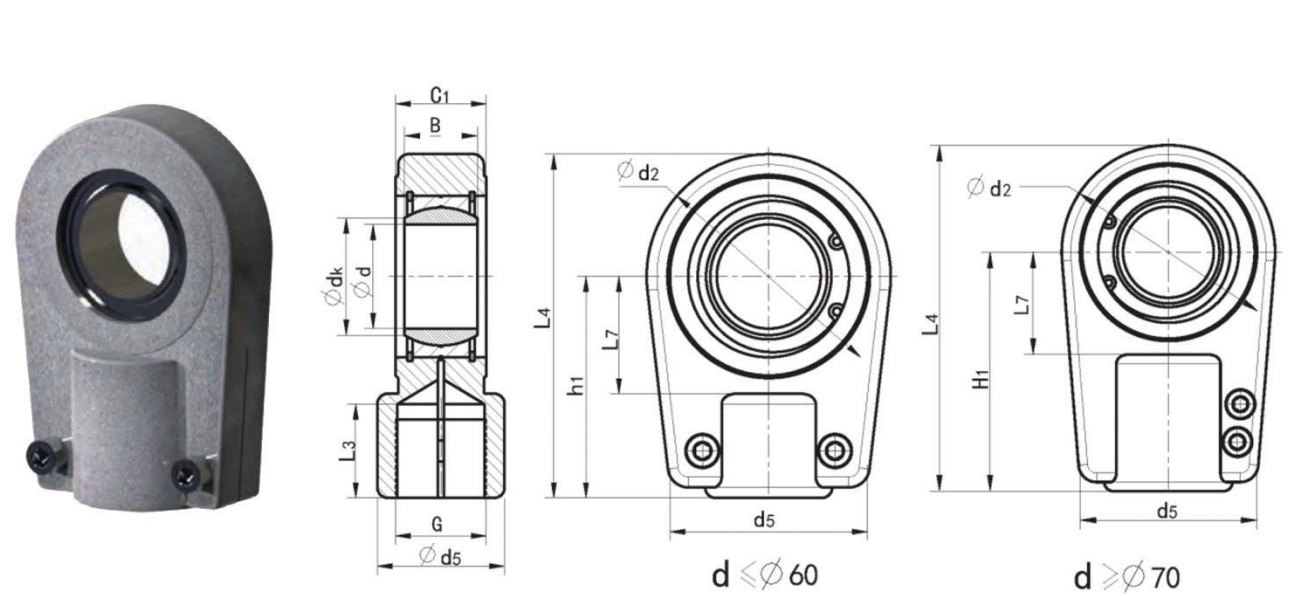
注：如果是左旋螺纹，轴承型号需加“L”，例如：GIHN-KL30LO。

设计结构特点：由杆端体与GEEW...ES系列向心关节轴承组装而成，用挡圈固定，锻杆端体材料为碳钢（锻造成型d≤100或铸钢d≥110），杆端柄内螺纹部有轴向缝并锁紧装置，可通过螺钉锁紧，可通过油杯润滑。

产品具有很强的承载力，常用于液压缸、油缸，又名：杆端轴承。



CIHG吊环头



| 名称           | 尺寸 mm |     |      |     |     |          |     |       |       |     |     |     |     |        |     | 负荷 KN |      | 重量     | 库存    |
|--------------|-------|-----|------|-----|-----|----------|-----|-------|-------|-----|-----|-----|-----|--------|-----|-------|------|--------|-------|
| 型号           | d     | B   | dk   | C1  | d2  | G 6H     | h1  | L3min | L4max | d4  | d5  | d1  | b   | rs min | a°≈ | 动 KN  | 静 KN | 重量 ≈kg | STOCK |
| GIHR-K20 DO  | 20    | 16  | 29   | 19  | 56  | M16×1.25 | 50  | 17    | 80    | 25  | 46  | 24  | 17  | 0.3    | 9   | 30    | 42   | 0.37   | √     |
| GIHR-K25 DO  | 25    | 20  | 35.5 | 23  | 56  | M16×1.5  | 50  | 17    | 80    | 25  | 46  | 29  | 21  | 0.6    | 7   | 48    | 52   | 0.43   | √     |
| GIHR-K30 DO  | 30    | 22  | 40.7 | 28  | 64  | M22×1.5  | 60  | 23    | 94    | 32  | 50  | 34  | 26  | 0.6    | 6   | 62    | 72   | 0.7    | √     |
| GIHR-K35 DO  | 35    | 25  | 47   | 30  | 78  | M28×1.5  | 70  | 29    | 112   | 40  | 66  | 40  | 28  | 0.6    | 6   | 79    | 104  | 1.1    | √     |
| GIHR-K40 DO  | 40    | 28  | 53   | 35  | 94  | M35×1.5  | 85  | 36    | 135   | 49  | 76  | 45  | 33  | 0.6    | 7   | 99    | 173  | 2.1    | √     |
| GIHR-K50 DO  | 50    | 35  | 66   | 40  | 116 | M45×1.5  | 105 | 46    | 168   | 61  | 90  | 56  | 37  | 0.6    | 7   | 156   | 265  | 3.3    | √     |
| GIHR-K60 DO  | 60    | 44  | 80   | 50  | 130 | M58×1.5  | 130 | 59    | 200   | 75  | 120 | 67  | 46  | 1      | 6   | 245   | 320  | 5.5    | √     |
| GIHR-K70 DO  | 70    | 49  | 90   | 55  | 154 | M65×1.5  | 150 | 66    | 232   | 86  | 130 | 78  | 51  | 1      | 6   | 313   | 440  | 8.6    | √     |
| GIHR-K80 DO  | 80    | 55  | 105  | 60  | 176 | M80×2    | 170 | 81    | 265   | 105 | 160 | 89  | 55  | 1      | 6   | 400   | 570  | 12     | √     |
| GIHR-K90 DO  | 90    | 60  | 115  | 65  | 206 | M100×2   | 210 | 101   | 323   | 124 | 180 | 98  | 60  | 1      | 5   | 490   | 980  | 21.5   | √     |
| GIHR-K100 DO | 100   | 70  | 130  | 70  | 230 | M110×2   | 235 | 111   | 360   | 138 | 200 | 110 | 65  | 1      | 7   | 607   | 1120 | 28     | √     |
| GIHR-K110 DO | 110   | 70  | 140  | 80  | 265 | M120×3   | 265 | 125   | 407.5 | 152 | 220 | 120 | 75  | 1      | 6   | 655   | 1700 | 40.5   | √     |
| GIHR-K120 DO | 120   | 85  | 160  | 90  | 340 | M130×3   | 310 | 135   | 490   | 172 | 257 | 130 | 85  | 1      | 6   | 950   | 2900 | 76     | √     |
| GIHR-K140 DO | 140   | 90  | 180  | 100 | 350 | M140×4   | 345 | 145   | 530   | 200 | 290 | 150 | 92  | 1      | 7   | 1080  | 5400 | 102    | ○     |
| GIHR-K160 DO | 160   | 105 | 200  | 110 | 380 | M150×4   | 400 | 165   | 600   | 220 | 300 | 170 | 102 | 1      | 8   | 1370  | 6800 | 170    | ○     |

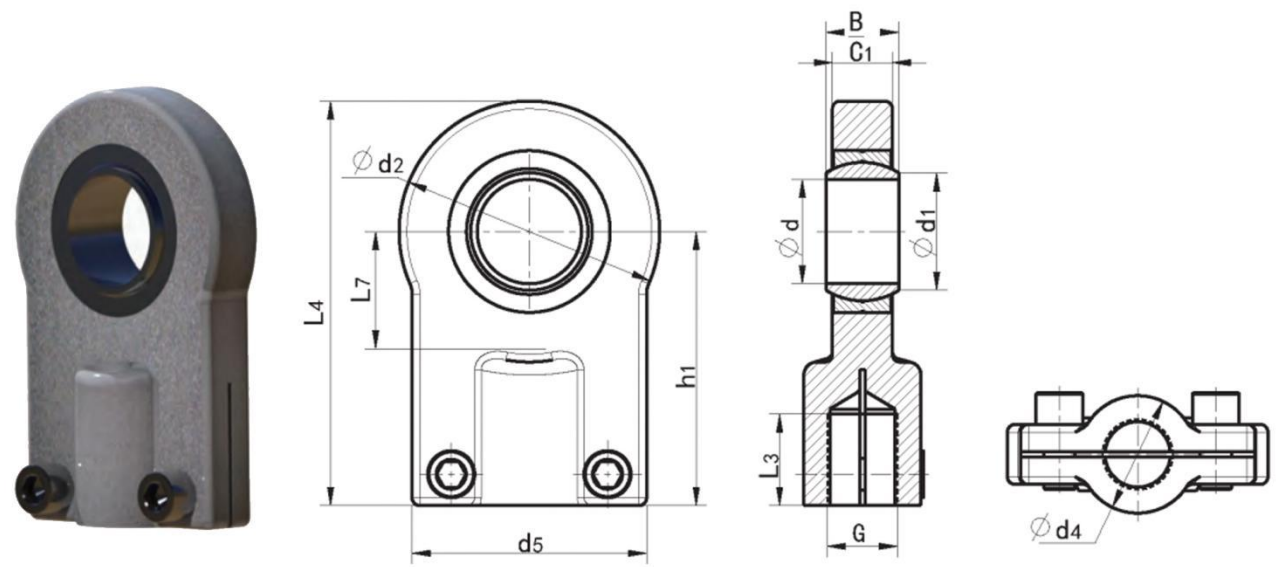
注：如果是左旋螺纹，轴承型号需加“L”，例如：GIHL-K30 D0。

滑动摩擦副：钢 / 钢。

设计结构特点：由杆端体与GE..ES、GE..ES2RS系列向心关节轴承组装而成，用挡圈固定；杆端体材料为碳钢（锻造成型 d≤80）或铸钢（d≥90）。杆端柄内螺纹部有轴向缝并带锁紧装置，可借助螺钉锁紧，并可通过油杯润滑。

产品具有很强的承载力，常用于液压缸、油缸，又名“油缸耳环”。

CIHO吊环头



| 名称           | 尺寸 mm        |    |                |                    |                    |          |                |                    |                    |                |                |                |                |     | 负荷 KN |      | 重量     | 库存    |
|--------------|--------------|----|----------------|--------------------|--------------------|----------|----------------|--------------------|--------------------|----------------|----------------|----------------|----------------|-----|-------|------|--------|-------|
| 型号           | d 公差         |    | d <sub>1</sub> | C <sub>1</sub> max | d <sub>2</sub> max | G 6H     | h <sub>1</sub> | L <sub>3</sub> min | L <sub>4</sub> max | C <sub>2</sub> | d <sub>4</sub> | d <sub>5</sub> | L <sub>7</sub> | a°≈ | 动 KN  | 静 KN | 重量 ≈kg | STOCK |
| GIHO-K12 DO* | 12 (-0.008)  | 10 | 15             | 8                  | 35                 | M10×1.25 | 42             | 15                 | 59.5               | 13             | 17             | 40             | 16             | 11  | 10.8  | 17   | 0.12   | √     |
| GIHO-K16 DO  | 16 (-0.008)  | 14 | 20.7           | 11                 | 45                 | M12×1.25 | 48             | 17                 | 70.5               | 13             | 21             | 45             | 20             | 10  | 21.1  | 28.5 | 0.22   | √     |
| GIHO-K20 DO  | 20 (-0.01)   | 16 | 24.2           | 13                 | 55                 | M14×1.5  | 58             | 19                 | 85.5               | 17             | 25             | 55             | 25             | 9   | 30    | 42.5 | 0.43   | √     |
| GIHO-K25 DO  | 25 (-0.01)   | 20 | 29.3           | 17                 | 65                 | M16×1.5  | 68             | 23                 | 100.5              | 17             | 30             | 62             | 30             | 7   | 48    | 67   | 0.67   | √     |
| GIHO-K30 DO  | 30 (-0.01)   | 22 | 34.2           | 19                 | 80                 | M20×1.5  | 85             | 29                 | 125                | 19             | 36             | 77             | 35             | 6   | 62    | 108  | 1.25   | √     |
| GIHO-K40 DO  | 40 (-0.012)  | 28 | 45             | 23                 | 100                | M27×2.0  | 105            | 37                 | 155                | 23             | 45             | 90             | 45             | 7   | 100   | 156  | 2.16   | √     |
| GIHO-K50 DO  | 50 (-0.012)  | 35 | 55.9           | 30                 | 120                | M33×2.0  | 130            | 46                 | 190                | 30             | 55             | 105            | 58             | 6   | 156   | 245  | 3.9    | √     |
| GIHO-K60 DO  | 60 (-0.015)  | 44 | 66.8           | 38                 | 160                | M42×2.0  | 150            | 57                 | 230                | 38             | 68             | 134            | 68             | 6   | 245   | 380  | 7.15   | √     |
| GIHO-K80 DO  | 80 (-0.015)  | 55 | 89.4           | 47                 | 205                | M48×2.0  | 185            | 64                 | 287.5              | 47             | 90             | 156            | 82             | 6   | 400   | 585  | 15     | √     |
| GIHO-K100 DO | 100 (-0.015) | 70 | 109.5          | 55                 | 240                | M64×3.0  | 240            | 86                 | 360                | 55             | 110            | 190            | 116            | 7   | 610   | 865  | 27.3   | √     |

尺寸单位为毫米。

注：如果是左旋螺纹，轴承型号需加“L”，例如：GIHO-KL50 DO。带“\*”的型号不能润滑。

滑动摩擦副：钢 / 钢。

设计结构特点：杆端座体带有左旋或右旋的内螺纹，由向心关节轴承 GE..ES 或 GE..ES-2RS 和杆端座体组成，带锁紧口和紧定螺栓，杆端座体带有润滑油孔或油杯。

产品具有很强的承载力，常用于液压缸、油缸，又名“油缸耳环”。