

## 角行程驱动器 DFPD

FESTO



Festo 核心产品范围  
涵盖您自动化应用的 80%

全球:  
一流:  
简单:

始终有现货  
Festo 一贯的质量水准，价格优惠  
简化采购和仓储

★ 通常能从工厂快速备货发出  
全球 13 个服务中心备有现货  
2200 多种现货产品

★ 通常能从工厂较快备货发出  
全球 4 个服务中心为您提供装配  
每个产品系列派生型可多达  $6 \times 10^{12}$

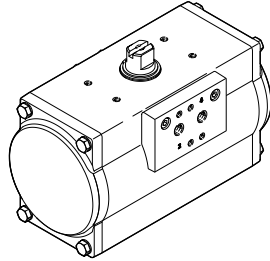
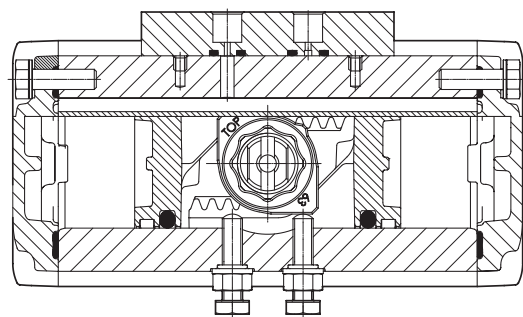
只要找到  
这些星星!

主要特性

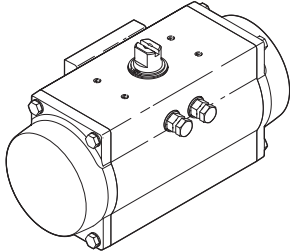
功能

DFPD 系列为齿轮齿条结构，整个摆角范围内扭矩恒定。扭矩范围从 10 ... 2300。角行程驱动器 DFPD 适用于蝶阀、球阀和风门的自动化工作。

还适用于水处理/污水处理、饮料、制药和过程自动化。其模块化紧凑的结构可实现不同的弹簧配置，为不同的应用场合提供合适的解决方案。



DFPD-...-D  
双作用



DFPD-...-S  
单作用

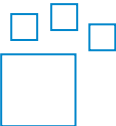
接口类型

- 孔型符合 NAMUR VDI/VDE 3845，用于安装电磁阀、位置传感器和定位器
- 标准接口，符合 ISO 5211

派生型

| 高温<br>DFPD-...-T4                                                                                                                                                       | 低温<br>DFPD-...-T6                                                                                                                                 | 向左和右关闭<br>DFPD-...-R/L                                                 | 弹簧配置<br>DFPD-...-S                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>密封件材质为 FKM 而滑动轴承材质为 PPS</li><li>用于应用温度高达 +150 °C</li><li>II 2G c T3 X</li><li>II 2D c 175°C X</li><li>0°C ≤ Ta ≤ +150°C</li></ul> | <ul style="list-style-type: none"><li>密封件材质为 FVMQ，用于应用温度低至 -50°C</li><li>II 2G c T6 X</li><li>II 2D c 85°C X</li><li>-50°C ≤ Ta ≤ +60°C</li></ul> | <ul style="list-style-type: none"><li>模块化系统可选向左关闭。通过旋转活塞就可完成</li></ul> | <ul style="list-style-type: none"><li>通过自由选择弹簧筒的数量（4 ... 12），根据系统的进气压力，以 0.5 bar 的增量调整弹簧指数</li></ul> |
| 环氧树脂涂层<br>DFPD-...-EP                                                                                                                                                   | 不锈钢阀杆<br>DFPD-...-R3                                                                                                                              | NPT 派生型<br>DFPD-...-N                                                  | 180° 派生型<br>DFPD-...-180                                                                             |
| <ul style="list-style-type: none"><li>带环氧树脂涂层</li></ul>                                                                                                                 | <ul style="list-style-type: none"><li>不锈钢阀杆</li></ul>                                                                                             | <ul style="list-style-type: none"><li>气接口带 NPT 螺纹</li></ul>            | <ul style="list-style-type: none"><li>规格 40, 120, 240, 480 双作用还可选 180° 摆角</li></ul>                  |

订货数据 - 产品选项



可配置产品  
该产品和所有相关的产品选项可用配置程序订购。

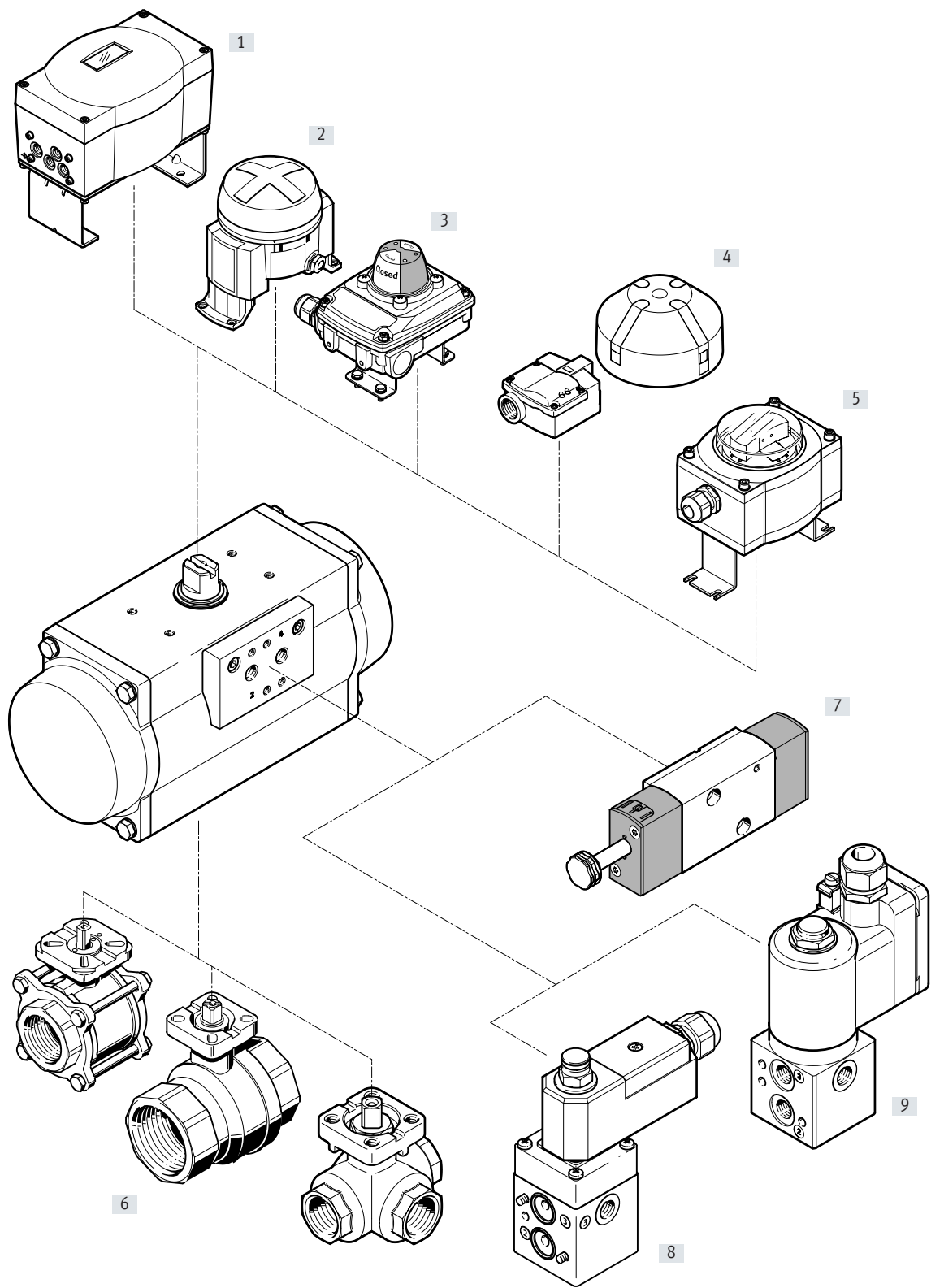
配置程序可在电子样本中找到或访问  
→ [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...)

| 订货号     | 型号        |
|---------|-----------|
| 8042184 | DFPD-10   |
| 8042185 | DFPD-20   |
| 8042186 | DFPD-40   |
| 8042187 | DFPD-80   |
| 8042188 | DFPD-120  |
| 8042189 | DFPD-160  |
| 8042190 | DFPD-240  |
| 8042191 | DFPD-300  |
| 8042192 | DFPD-480  |
| 8042193 | DFPD-700  |
| 8042194 | DFPD-900  |
| 8042195 | DFPD-1200 |
| 8042196 | DFPD-2300 |

## 主要特性

| 规格   | 法兰孔型   | 阀杆接口 | 阀杆接口深度<br>[mm] | 气接口             |
|------|--------|------|----------------|-----------------|
| 10   | F03    | T9   | 10             | G1/8<br>1/8 NPT |
|      | F04    |      |                |                 |
| 20   | F03    | T9   | 10             | G1/8            |
|      | F04    | T11  | 12             | 1/8 NPT         |
|      | F05    |      |                |                 |
| 40   | F04    | T11  | 12             | G1/8            |
|      | F05F07 | T14  | 16             | 1/8 NPT         |
| 80   | F05F07 | T17  | 19             | G1/8            |
|      | F07    |      |                | 1/8 NPT         |
| 120  | F05F07 | T17  | 19             | G1/8            |
|      | F07    |      |                | 1/4 NPT         |
| 160  | F07F10 | T22  | 24             | G1/4            |
|      | F07    |      |                | 1/4 NPT         |
| 240  | F07F10 | T22  | 24             | G1/4            |
|      | F10    |      |                | 1/4 NPT         |
| 300  | F07F10 | T22  | 24             | G1/4            |
|      | F10    |      |                | 1/4 NPT         |
| 480  | F10F12 | T27  | 29             | G1/4            |
|      | F12    |      |                | 1/4 NPT         |
| 700  | F10F12 | T27  | 29             | G1/4            |
|      | F12    |      |                | 1/4 NPT         |
| 900  | F10F12 | T27  | 29             | G1/4            |
|      | F14    | T36  | 38             | 1/4 NPT         |
| 1200 | F10F12 | T27  | 29             | G1/4            |
|      | F14    | T36  | 38             | 1/4 NPT         |
| 2300 | F12F16 | T46  | 48             | G1/4            |
|      | F14    | T36  | 38             | 1/4 NPT         |

外围元件一览



## 外围元件一览

| 安装元件和附件              | 简要说明                           | → 页码/Internet |
|----------------------|--------------------------------|---------------|
| [1] 定位器<br>CMSX      | 用于控制过程自动化系统中角行程气缸的位置           | cmsx          |
| [2] 传感器盒<br>DAPZ     | 圆形, 派生型AR, 电控、电感或电感防爆感测        | dapz          |
| [3] 传感器盒<br>SRBC     | 用于位置的电信号反馈以及监控用角行程气缸驱动的过程阀的位置  | srbc          |
| [4] 传感器盒<br>SRBG     | 用于位置的电信号反馈以及监控用角行程气缸驱动的过程阀的位置  | srbg          |
| [5] 传感器盒<br>SRAP     | 模拟量传感器盒持续感测整个摆角, 并反馈回控制器       | srp           |
| [6] 球阀<br>VAPB, VZBA | 两通黄铜或不锈钢, 耐腐蚀; 三通不锈钢, 耐腐蚀      | vapb          |
| [7] 电磁阀<br>VSNC      | 用于单和双作用行程气缸, 孔型符合 VDI/VDE 3845 | vsnc          |
| [8] 电磁阀<br>VOFC      | 电磁阀, 带电磁线圈, 孔型符合 NAMUR         | vofc          |
| [9] 电磁阀<br>VOFD      | 电磁阀, 带电磁线圈, 孔型符合 NAMUR         | vofd          |

## 型号代码

|      |        |  |
|------|--------|--|
| 001  | 系列     |  |
| DFPD | 角行程驱动器 |  |

|     |     |  |
|-----|-----|--|
| 002 | 单位制 |  |
|     | 公制  |  |
| N   | 英制  |  |

|     |    |  |
|-----|----|--|
| 003 | 类型 |  |
|     | 标准 |  |

|      |      |  |
|------|------|--|
| 004  | 规格   |  |
| 10   | 10   |  |
| 20   | 20   |  |
| 40   | 40   |  |
| 80   | 80   |  |
| 120  | 120  |  |
| 160  | 160  |  |
| 240  | 240  |  |
| 300  | 300  |  |
| 480  | 480  |  |
| 700  | 700  |  |
| 900  | 900  |  |
| 1200 | 1200 |  |
| 2300 | 2300 |  |

|     |      |  |
|-----|------|--|
| 005 | 结构特点 |  |
| RP  | 齿轮齿条 |  |

|     |     |  |
|-----|-----|--|
| 006 | 摆角  |  |
| 90  | 90  |  |
| 120 | 120 |  |
| 135 | 135 |  |
| 180 | 180 |  |

|     |      |  |
|-----|------|--|
| 007 | 摆动方向 |  |
| L   | 左    |  |
| R   | 右    |  |

|     |     |  |
|-----|-----|--|
| 008 | 功能  |  |
| D   | 双作用 |  |
| S   | 单作用 |  |

|     |                |  |
|-----|----------------|--|
| 009 | 弹簧力            |  |
|     | 无              |  |
| 20  | 用于连接压力 2 bar   |  |
| 25  | 用于连接压力 2.5 bar |  |
| 30  | 用于连接压力 3 bar   |  |
| 35  | 用于连接压力 3.5 bar |  |
| 40  | 用于连接压力 4 bar   |  |
| 45  | 用于连接压力 4.5 bar |  |
| 50  | 用于连接压力 5 bar   |  |
| 55  | 用于连接压力 5.5 bar |  |
| 60  | 用于连接压力 6 bar   |  |

|     |        |  |
|-----|--------|--|
| 010 | 法兰孔型 1 |  |
| F03 | 孔型 F03 |  |
| F04 | 孔型 F04 |  |
| F05 | 孔型 F05 |  |
| F07 | 孔型 F07 |  |
| F10 | 孔型 F10 |  |
| F12 | 孔型 F12 |  |
| F14 | 孔型 F14 |  |

|     |        |  |
|-----|--------|--|
| 011 | 法兰孔型 2 |  |
|     | 无      |  |
| 07  | 孔型 F07 |  |
| 10  | 孔型 F10 |  |
| 12  | 孔型 F12 |  |
| 16  | 孔型 F16 |  |

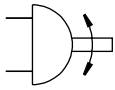
|     |               |  |
|-----|---------------|--|
| 012 | 温度范围          |  |
|     | 标准            |  |
| T4  | 0 ... +150°C  |  |
| T6  | -50 ... +60°C |  |

|     |      |  |
|-----|------|--|
| 013 | 阀杆材料 |  |
|     | 标准   |  |
| R3  | 不锈钢  |  |

|     |        |  |
|-----|--------|--|
| 014 | 壳体表面处理 |  |
|     | 无      |  |
| EP  | 环氧树脂涂层 |  |

## 技术参数

功能



-  - 规格  
10 ... 2300
-  - 摆角  
0 ... 180°



| 主要技术参数            |                      |     |     |     |     |     |           |         |           |     |  |
|-------------------|----------------------|-----|-----|-----|-----|-----|-----------|---------|-----------|-----|--|
| 规格                | 10                   |     | 20  |     | 40  |     | 80        | 120     | 160       |     |  |
| 工作方式              | 双作用                  |     |     |     |     |     |           |         |           |     |  |
| 结构特点              | 齿轮齿条                 |     |     |     |     |     |           |         |           |     |  |
| 缓冲形式              | 无缓冲                  |     |     |     |     |     |           |         |           |     |  |
| 安装位置              | 任意                   |     |     |     |     |     |           |         |           |     |  |
| 气接口               | G1/8                 |     |     |     |     |     |           | G1/4    |           |     |  |
|                   | 1/8 NPT              |     |     |     |     |     |           | 1/4 NPT |           |     |  |
| 过程阀接口, 符合标准       | ISO 5211             |     |     |     |     |     |           |         |           |     |  |
| 阀接口, 符合标准         | VDI/VDE 3845 (NAMUR) |     |     |     |     |     |           |         |           |     |  |
| 定位器和位置传感器接口, 符合标准 | VDI/VDE 3845 (NAMUR) |     |     |     |     |     |           |         |           |     |  |
| 安全整体性等级 (SIL)     | 最高可达 SIL 2 高需求模式     |     |     |     |     |     |           |         |           |     |  |
| 规格                | AA 1                 |     |     |     |     |     |           |         |           |     |  |
| 法兰孔型 1            | F03                  | F04 | F03 | F04 | F05 | F04 | F05       | F05     | F05       | F07 |  |
| 法兰孔型 2            | –                    | –   | –   | –   | –   | F07 | F07       | F07     | F07       | F10 |  |
| 摆角 [°]            | 90                   |     |     |     |     |     |           |         |           |     |  |
|                   | –                    |     |     |     |     |     | 120       | –       | 120       | –   |  |
|                   | –                    |     |     |     |     |     | 135       | –       | 135       | –   |  |
|                   | –                    |     |     |     |     |     | 180       | –       | 180       | –   |  |
| 终端位置调节范围, 0° [°]  | –5 ... +5            |     |     |     |     |     |           |         |           |     |  |
| 终端位置调节范围, 90° [°] | –5 ... +5            |     |     |     |     |     |           |         |           |     |  |
| 终端位置调节范围, 180°    | –                    |     |     |     |     |     | –5 ... +5 | –       | –5 ... +5 | –   |  |
| 位置感测              | 光学                   |     |     |     |     |     |           |         |           |     |  |
| 关闭方向              | 向右关闭                 |     |     |     |     |     |           |         |           |     |  |

## 技术参数

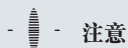
| 主要技术参数           |                      |     |           |     |      |      |      |
|------------------|----------------------|-----|-----------|-----|------|------|------|
| 规格               | 240                  | 300 | 480       | 700 | 900  | 1200 | 2300 |
| 工作方式             | 双作用                  |     |           |     |      |      |      |
| 结构特点             | 齿轮齿条                 |     |           |     |      |      |      |
| 缓冲形式             | 无缓冲                  |     |           |     |      |      |      |
| 安装位置             | 任意                   |     |           |     |      |      |      |
| 气接口              | G1/4                 |     |           |     |      |      |      |
|                  | 1/4 NPT              |     |           |     |      |      |      |
| 过程阀接口，符合标准       | ISO 5211             |     |           |     |      |      |      |
| 阀接口，符合标准         | VDI/VDE 3845 (NAMUR) |     |           |     |      |      |      |
| 定位器和位置传感器接口，符合标准 | VDI/VDE 3845 (NAMUR) |     |           |     |      |      |      |
| 安全整体性等级 (SIL)    | 最高可达 SIL 2 高需求模式     |     |           |     |      |      |      |
| 规格               | AA 2                 |     |           |     | AA 3 |      |      |
| 法兰孔型 1           | F07                  | F07 | F10       | F10 | F10  | F10  | F12  |
|                  |                      |     |           |     | F14  | F14  | F14  |
| 法兰孔型 2           | F10                  | F10 | F12       | F12 | F12  | F12  | F16  |
| 摆角 [°]           | 90                   |     |           |     |      |      |      |
|                  | 120                  | –   | 120       | –   |      |      |      |
|                  | 135                  | –   | 135       | –   |      |      |      |
|                  | 180                  | –   | 180       | –   |      |      |      |
| 终端位置调节范围，0° [°]  | –5 ... +5            |     |           |     |      |      |      |
| 终端位置调节范围，90° [°] | –5 ... +5            |     |           |     |      |      |      |
| 终端位置调节范围，180°    | –5 ... +5            | –   | –5 ... +5 | –   |      |      |      |
| 位置感测             | 光学                   |     |           |     |      |      |      |
| 关闭方向             | 向右关闭                 |     |           |     |      |      |      |

| 工作和环境条件      |                                             |  |
|--------------|---------------------------------------------|--|
| 工作压力 [bar]   | 2 ... 8                                     |  |
| 额定工作压力 [bar] | 5.5                                         |  |
| 工作介质         | 压缩空气, 符合 ISO 8573-1:2010 [7:4:4]            |  |
| 工作/先导介质注意事项  | 压力露点环境温度 and 介质温度低 10°C<br>可润滑工作(今后须始终润滑工作) |  |
| 环境温度 [°C]    | –20 ... +80                                 |  |
| 贮存温度 [°C]    | –20 ... +60                                 |  |
| 证书签发机构       | 德国技术监督委员会 (TÜV) Rheinland                   |  |

| ATEX            |                       |
|-----------------|-----------------------|
| ATEX 防爆类别, 用于气体 | II 2G                 |
| 防爆型式, 用于气体      | Ex h IIC T4 Gb X      |
| ATEX 防爆类别, 用于粉尘 | II 2D                 |
| 防爆型式, 用于粉尘      | Ex h IIIC T105°C Db X |
| 防爆环境温度 [°C]     | –20 ≤ Ta ≤ +80        |
| CE 标记 (见合格声明)   | 符合欧盟防爆指令 (ATEX)       |

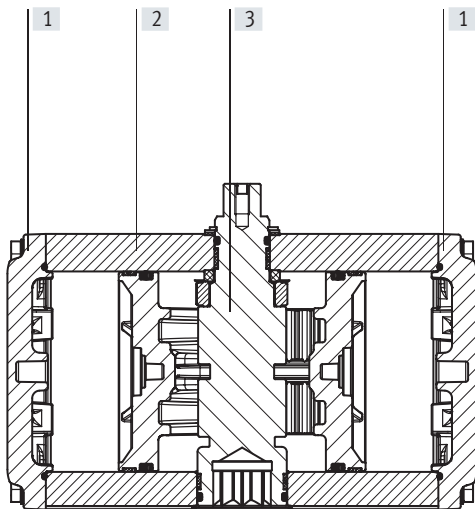
## 技术参数

| 扭矩理论值 [Nm] 与工作压力的关系 |            |        |        |        |        |        |        |               |        |        |        |
|---------------------|------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|
| 规格                  | 工作压力 [bar] |        |        |        |        |        |        |               |        |        |        |
|                     | 2          | 2.5    | 3      | 3.5    | 4      | 4.5    | 5      | 5.5           | 6      | 7      | 8      |
| 10                  | 3.7        | 4.7    | 5.6    | 6.6    | 7.5    | 8.4    | 9.4    | <b>10.3</b>   | 11.2   | 13.1   | 15.0   |
| 20                  | 7.3        | 9.1    | 11.0   | 12.8   | 14.6   | 16.4   | 18.3   | <b>20.1</b>   | 21.9   | 25.6   | 29.2   |
| 40                  | 13.9       | 17.4   | 20.9   | 24.4   | 27.9   | 31.3   | 34.8   | <b>38.3</b>   | 41.8   | 48.7   | 55.7   |
| 80                  | 30.0       | 37.5   | 44.9   | 52.4   | 59.9   | 67.4   | 74.9   | <b>82.4</b>   | 89.9   | 104.9  | 119.9  |
| 120                 | 42.7       | 53.4   | 64.0   | 74.7   | 85.4   | 96.1   | 106.7  | <b>117.4</b>  | 128.1  | 149.4  | 170.8  |
| 160                 | 58.5       | 73.2   | 87.8   | 102.5  | 117.1  | 131.7  | 146.4  | <b>161.0</b>  | 175.6  | 204.9  | 234.2  |
| 240                 | 85.2       | 106.5  | 127.8  | 149.1  | 170.4  | 191.7  | 213.0  | <b>234.3</b>  | 255.6  | 298.2  | 340.8  |
| 300                 | 109.8      | 137.2  | 164.7  | 192.1  | 219.6  | 247.0  | 274.5  | <b>301.9</b>  | 329.3  | 384.2  | 439.1  |
| 480                 | 172.4      | 215.5  | 258.5  | 301.6  | 344.7  | 387.8  | 430.9  | <b>474.0</b>  | 517.1  | 603.3  | 689.5  |
| 700                 | 241.2      | 301.5  | 361.8  | 422.1  | 482.4  | 542.7  | 603.0  | <b>663.3</b>  | 723.6  | 844.2  | 964.8  |
| 900                 | 306.2      | 382.7  | 459.3  | 535.8  | 612.4  | 688.9  | 765.4  | <b>842.0</b>  | 918.5  | 1071.6 | 1224.7 |
| 1200                | 425.2      | 531.6  | 637.9  | 744.2  | 850.5  | 956.8  | 1063.1 | <b>1169.4</b> | 1275.7 | 1488.4 | 1701.0 |
| 2300                | 812.1      | 1015.1 | 1218.2 | 1421.2 | 1624.2 | 1827.2 | 2030.3 | <b>2233.3</b> | 2436.3 | 2842.4 | 3248.4 |



## 注意

气缸的工作扭矩不得高于ISO 5211所列最大许用扭矩，以安装法兰和联轴器的规格为参考系。



## 材料

## 剖面

## 角行程驱动器

|        |                                                 |
|--------|-------------------------------------------------|
| [1] 端盖 | 涂层压铸铝                                           |
| [2] 壳体 | 阳极氧化精制铝合金                                       |
| [3] 阀杆 | 镀镍钢                                             |
|        | R3 高合金不锈钢                                       |
| - 连接板  | 阳极氧化精制铝合金                                       |
| 活塞/活塞杆 | 压铸铝                                             |
| 密封件    | NBR                                             |
| 轴承     | POM                                             |
| 凸轮     | 铸造不锈钢                                           |
|        | (DFPD-10, 20, 40, 80, 120, 160-90)              |
|        | 钢 (DFPD-240, 300, 480, 700, 900, 1200, 2300-90) |
| 螺丝     | 高合金不锈钢                                          |
| 材料注意事项 | RoHS 合规                                         |

## 6 bar 时耗气量 [l/cycle]

## 型号

|                   |      |
|-------------------|------|
| DFPD-10-RP-90-D   | 1    |
| DFPD-20-RP-90-D   | 1.8  |
| DFPD-40-RP-90-D   | 3.4  |
| DFPD-40-RP-120-D  | 4.2  |
| DFPD-40-RP-135-D  | 5.6  |
| DFPD-40-RP-180-D  | 5.2  |
| DFPD-80-RP-90-D   | 7.4  |
| DFPD-120-RP-90-D  | 10.4 |
| DFPD-120-RP-120-D | 11.9 |
| DFPD-120-RP-135-D | 12.6 |
| DFPD-120-RP-180-D | 12.8 |
| DFPD-160-RP-90-D  | 14   |
| DFPD-240-RP-90-D  | 20.3 |

## 型号

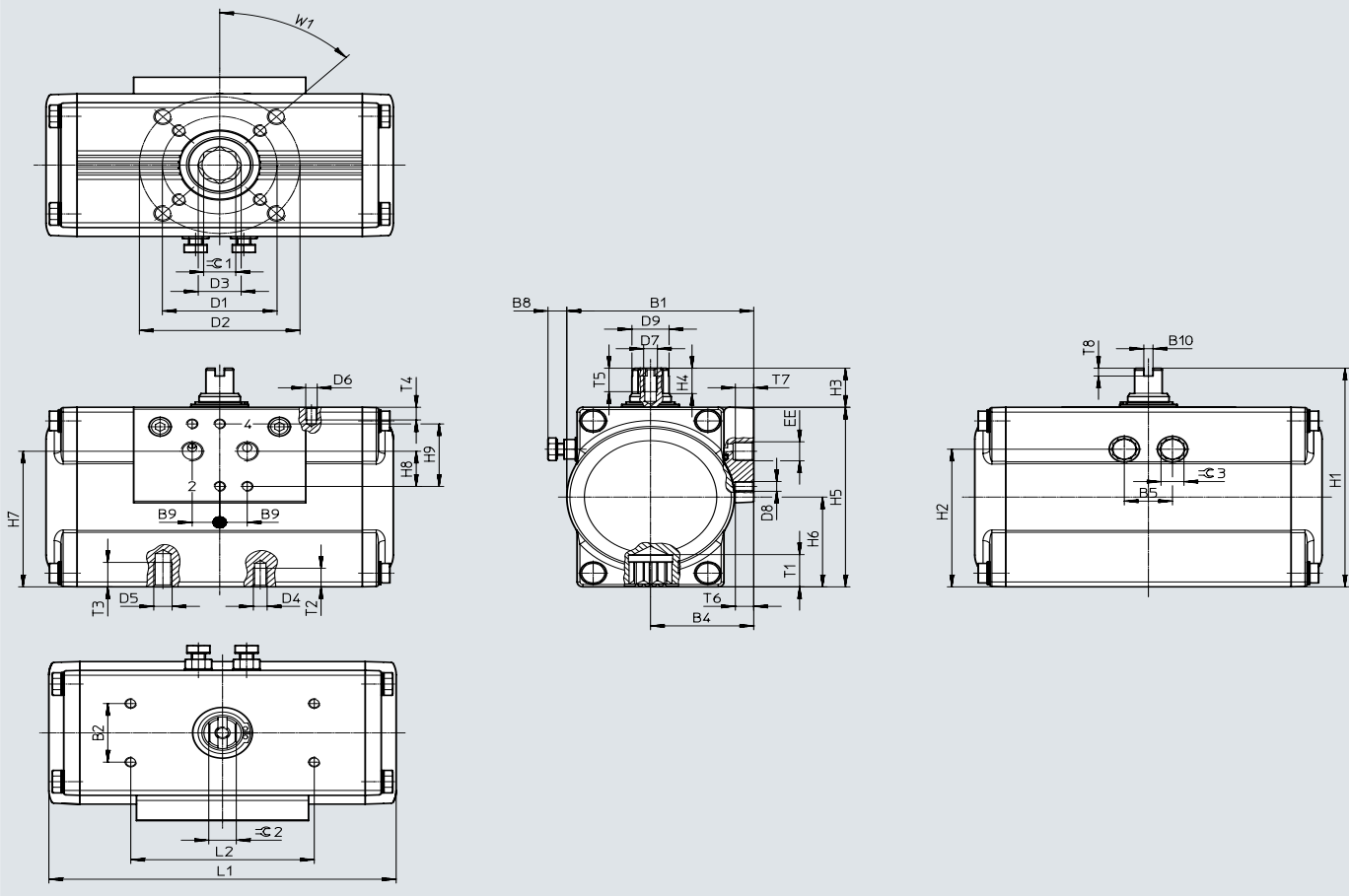
|                   |      |
|-------------------|------|
| DFPD-240-RP-120-D | 24.5 |
| DFPD-240-RP-135-D | 26.6 |
| DFPD-240-RP-180-D | 25.7 |
| DFPD-300-RP-90-D  | 26.4 |
| DFPD-480-RP-90-D  | 40.5 |
| DFPD-480-RP-120-D | 48.3 |
| DFPD-480-RP-135-D | 51.8 |
| DFPD-480-RP-180-D | 61.4 |
| DFPD-700-RP-90-D  | 58.8 |
| DFPD-900-RP-90-D  | 75.9 |
| DFPD-1200-RP-90-D | 105  |
| DFPD-2300-RP-90-D | 204  |

技术参数

尺寸

规格: 10 ... 80

CAD 相关数据 → [www.festo.com](http://www.festo.com)



## 技术参数

| 型号          | B1   | B2   | B4   | B5 | B8   | B9 | B10 | D1<br>∅<br>±0.1 | D2<br>∅<br>±0.1 | D3<br>∅ | D4 | D5 | D6 |
|-------------|------|------|------|----|------|----|-----|-----------------|-----------------|---------|----|----|----|
|             |      | ±0.1 |      |    | max. |    |     |                 |                 |         |    |    |    |
| DFPD-10-F03 | 59.5 | 30   | 35   | 16 | 10.7 | 12 | 4   | 36              | -               | 12      | M5 | -  | M5 |
| DFPD-10-F04 |      |      |      |    |      |    |     | 42              |                 |         |    |    |    |
| DFPD-20-F04 | 68.5 |      | 38.5 | 19 | 9.2  |    |     | -               | 14.6            | M5      | -  |    |    |
| DFPD-20-F05 |      |      |      |    |      |    |     |                 |                 | M6      |    |    |    |
| DFPD-40     | 81.5 |      | 45   | 21 | 8.2  |    |     | 70              | 18.7            | M6      | M8 |    |    |
| DFPD-40-180 |      |      |      |    |      |    |     |                 |                 |         |    |    |    |
| DFPD-80     |      |      |      |    |      |    |     |                 |                 | 99      |    | 53 |    |

| 型号          | D7 | D8 | D9<br>∅<br>±0.1 | EE                 | H1  | H2    | H3   | H4   | H5  | H6   | H7   | H8   | H9 |
|-------------|----|----|-----------------|--------------------|-----|-------|------|------|-----|------|------|------|----|
|             |    |    |                 |                    |     |       | -0.5 | +0.1 |     | ±0.2 | ±0.3 | ±0.1 |    |
| DFPD-10-F03 | M6 | M5 | 10.9            | G1/8 or<br>1/8 NPT | 90  | 51    | 20   | 10   | 70  | 35   | 47   | 16   | 32 |
| DFPD-10-F04 |    |    |                 |                    |     |       |      |      |     |      |      |      |    |
| DFPD-20-F04 |    |    | 12.7            |                    | 100 | 59.75 |      | 10   | 80  | 40   | 57.5 |      |    |
| DFPD-20-F05 |    |    |                 |                    |     |       |      |      |     |      |      |      |    |
| DFPD-40     |    |    | 16.2            |                    | 112 | 70.5  |      | 13   | 92  | 46   | 67.5 |      |    |
| DFPD-40-180 |    |    |                 |                    |     |       |      |      |     |      |      |      |    |
| DFPD-80     |    |    | 20.2            |                    | 130 | 86    |      | 13   | 110 | 55   | 86.5 |      |    |

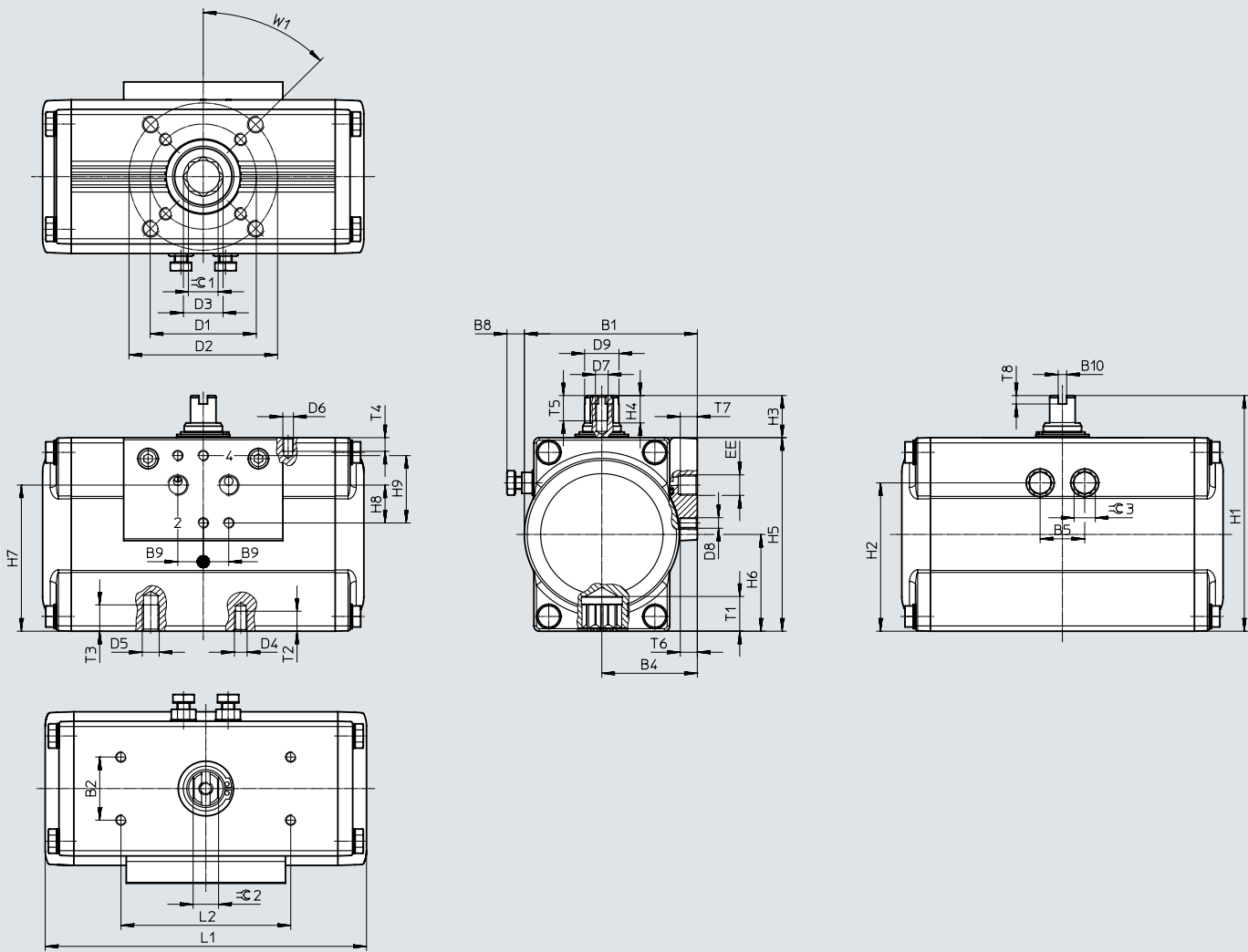
| 型号          | L1    | L2   | T1   | T2 | T3 | T4 | T5 | T6 | T7 | T8   | ≈C 1 | ≈C 2 | ≈C 3 | W1  |
|-------------|-------|------|------|----|----|----|----|----|----|------|------|------|------|-----|
|             |       | ±0.1 | ±0.4 |    |    |    |    |    |    | +0.5 | H11  | h11  |      |     |
| DFPD-10-F03 | 124.7 | 80   | 10.7 | 8  | -  | 8  | 12 | 8  | 8  | 4    | 9    | 9    | 10   | 45° |
| DFPD-10-F04 |       |      |      |    |    |    |    |    |    |      |      |      |      |     |
| DFPD-20-F04 | 133.3 |      | 13.2 | 8  | -  |    |    |    |    |      | 11   | 9    | 10   |     |
| DFPD-20-F05 |       |      |      |    |    |    |    |    |    |      |      |      |      |     |
| DFPD-40     | 151.4 |      | 16.5 | 9  | 12 |    |    |    |    |      | 14   | 12   | 10   |     |
| DFPD-40-180 | 227   |      |      |    |    |    |    |    |    |      |      |      |      |     |
| DFPD-80     | 189.3 |      |      |    |    |    |    |    |    |      |      |      |      |     |

技术参数

尺寸

规格: 120 ... 480

CAD 相关数据 → [www.festo.com](http://www.festo.com)



## 技术参数

| 型号           | B1    | B2   | B4   | B5 | B8   | B9 | B10 | D1<br>∅<br>±0.1 | D2<br>∅<br>±0.1 | D3<br>∅ | D4  | D5  | D6 |
|--------------|-------|------|------|----|------|----|-----|-----------------|-----------------|---------|-----|-----|----|
|              |       | ±0.1 |      |    | max. |    |     |                 |                 |         |     |     |    |
| DFPD-120     | 111.5 | 30   | 60.5 | 32 | 12.3 | 12 | 4   | 50              | 70              | 23.3    | M6  | M8  | M5 |
| DFPD-120-180 |       |      |      |    |      |    |     |                 |                 | 23.2    |     |     |    |
| DFPD-160     | 120   |      | 63.5 | 36 | 13.4 |    |     | 70              | 102             | 23.2    | M8  | M10 |    |
| DFPD-240     | 135.5 |      | 71.5 | 41 | 18.5 |    |     |                 |                 | 30      |     |     |    |
| DFPD-240-180 |       |      |      |    |      |    |     |                 |                 | 30.3    |     |     |    |
| DFPD-300     |       |      |      |    |      |    |     |                 |                 | 144     |     |     |    |
| DFPD-480     | 163   |      | 83   | 52 | 19.3 |    |     | 102             | 125             | 37.4    | M10 | M12 |    |
| DFPD-480-180 |       |      |      |    |      |    |     |                 |                 |         |     |     |    |

| 型号           | D7 | D8 | D9<br>∅<br>±0.1 | EE                 | H1  | H2     | H3   | H4    | H5  | H6                   | H7   | H8   | H9 |     |                    |       |                    |       |    |     |       |     |                    |       |
|--------------|----|----|-----------------|--------------------|-----|--------|------|-------|-----|----------------------|------|------|----|-----|--------------------|-------|--------------------|-------|----|-----|-------|-----|--------------------|-------|
|              |    |    |                 |                    |     |        | -0.5 | +0.1  |     |                      | ±0.3 | ±0.1 |    |     |                    |       |                    |       |    |     |       |     |                    |       |
| DFPD-120     | M6 | M5 | 22.5            | G1/4 or<br>1/4 NPT | 143 | 97.75  | 20   | 13    | 123 | 61.5 <sub>±0.2</sub> | 98.4 | 16   | 32 |     |                    |       |                    |       |    |     |       |     |                    |       |
| DFPD-120-180 |    |    | 25.5            |                    | 154 | 106.25 |      |       |     |                      |      |      |    | 134 | 67 <sub>±0.2</sub> | 109.4 |                    |       |    |     |       |     |                    |       |
| DFPD-160     |    |    |                 |                    |     | 31.8   | 180  | 120.5 | 30  | 19.5                 | 150  |      |    |     | 75 <sub>±0.2</sub> | 120.2 |                    |       |    |     |       |     |                    |       |
| DFPD-240     |    |    | 192             |                    | 131 |        |      |       |     |                      |      |      |    | 162 |                    |       | 81 <sub>±0.3</sub> | 132.1 |    |     |       |     |                    |       |
| DFPD-240-180 |    |    |                 |                    |     |        |      |       |     |                      |      |      |    |     |                    |       |                    |       | 38 | 214 | 149.5 | 184 | 92 <sub>±0.4</sub> | 152.5 |
| DFPD-300     |    |    |                 |                    |     |        |      |       |     |                      |      |      |    |     |                    |       |                    |       |    |     |       |     |                    |       |
| DFPD-480     |    |    |                 |                    |     |        |      |       |     |                      |      |      |    |     |                    |       |                    |       |    |     |       |     |                    |       |
| DFPD-480-180 |    |    |                 |                    |     |        |      |       |     |                      |      |      |    |     |                    |       |                    |       |    |     |       |     |                    |       |

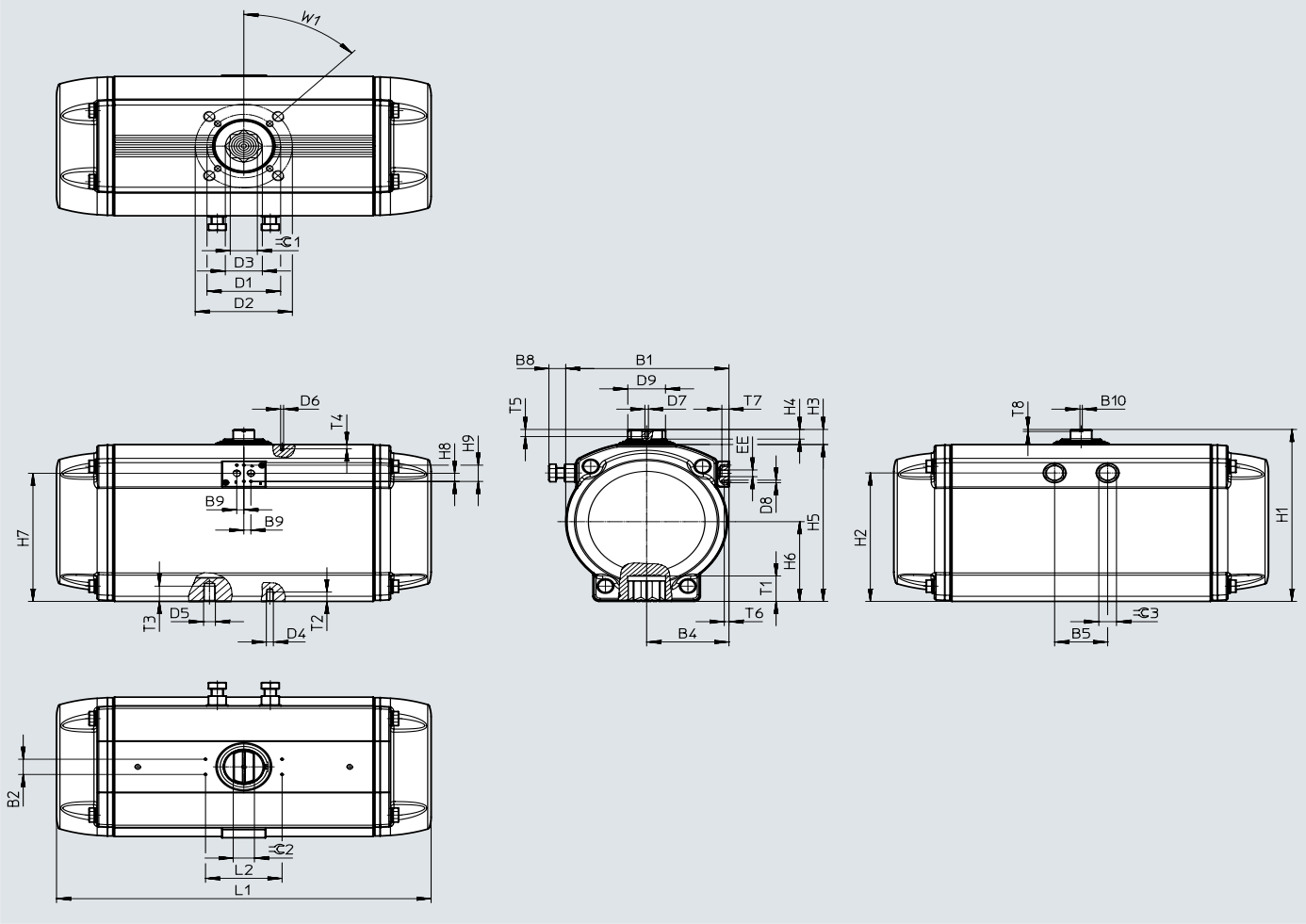
| 型号           | L1    | L2   | T1   | T2 | T3 | T4 | T5 | T6 | T7 | T8   | ≈C 1 | ≈C 2 | ≈C 3 | W1  |
|--------------|-------|------|------|----|----|----|----|----|----|------|------|------|------|-----|
|              |       | ±0.1 | ±0.4 |    |    |    |    |    |    | +0.5 | H11  | h11  |      |     |
| DFPD-120     | 213.7 | 80   | 19.3 | 9  | 12 | 8  | 14 | 8  | 12 | 4    | 17   | 15   | 13   | 45° |
| DFPD-120-180 | 326.8 |      |      |    |    |    |    |    |    |      |      |      |      |     |
| DFPD-160     | 230.9 |      | 24.3 | 12 | 15 |    |    |    |    |      | 22   | 22   | 18   |     |
| DFPD-240     | 257   |      |      |    |    |    |    |    |    |      |      |      |      |     |
| DFPD-240-180 | 395.5 |      |      |    |    |    |    |    |    |      |      |      |      |     |
| DFPD-300     | 334.4 |      |      |    |    |    |    |    |    |      |      |      |      |     |
| DFPD-480     | 374.2 |      | 29.5 | 15 | 18 |    |    |    |    |      | 27   | 27   | 21   |     |
| DFPD-480-180 | 550.3 |      |      |    |    |    |    |    |    |      |      |      |      |     |

技术参数

尺寸

规格: 700 ... 2300

CAD 相关数据 → [www.festo.com](http://www.festo.com)



## 技术参数

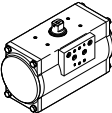
| 型号                     | B1    | B2   | B4    | B5   | B8   | B9 | B10  | D1<br>∅ | D2<br>∅ | D3<br>∅ | D4  | D5  | D6 |
|------------------------|-------|------|-------|------|------|----|------|---------|---------|---------|-----|-----|----|
|                        |       | ±0.1 |       |      | max. |    | ±0.1 |         |         |         |     |     |    |
| DFPD-700- ... -F10/12  | 184   | 30   | 93    | 57.6 | 17.5 | 12 | 4    | 102     | 125     | 37.4    | M10 | M12 | M5 |
| DFPD-900- ... -F10/12  | 202   |      | 102   | 64.8 | 28.6 |    |      | 140     | —       | 50.1    | M16 | —   |    |
| DFPD-900- ... -F14     |       |      |       |      |      |    |      | 102     | 125     | 37.4    | M10 | M12 |    |
| DFPD-1200- ... -F10/12 | 221.5 |      | 111.5 | 72   | 24   |    |      | 140     | —       | 50.1    | M16 | —   |    |
| DFPD-1200- ... -F14    |       |      |       |      |      |    |      | 125     | 165     | 62.9    | M12 | M20 |    |
| DFPD-2300- ... -F12/16 | 277   |      | 139.8 | 90   | 33   |    |      | 140     | —       | 50.1    | M16 | —   |    |
| DFPD-2300- ... -F14    |       |      |       |      |      |    |      |         |         |         |     |     |    |

| 型号                     | D7 | D8 | D9   | EE                 | H1    | H2  | H3   | H4  | H5  | H6    | H7    | H8   | H9 |  |  |
|------------------------|----|----|------|--------------------|-------|-----|------|-----|-----|-------|-------|------|----|--|--|
|                        |    |    | ±0.1 |                    |       |     |      |     |     |       |       | ±0.1 |    |  |  |
| DFPD-700- ... -F10/12  | M6 | M5 | 41   | G1/4 or<br>1/4 NPT | 232.7 | 168 | 29.7 | 21  | 203 | 103   | 164.9 | 16   | 32 |  |  |
| DFPD-900- ... -F10/12  |    |    | 44   |                    | 252.7 | 182 |      |     | 223 | 113   | 178.3 |      |    |  |  |
| DFPD-900- ... -F14     |    |    |      |                    |       |     |      |     |     |       |       |      |    |  |  |
| DFPD-1200- ... -F10/12 |    |    | 50   |                    | 275.7 | 204 |      | 246 | 125 | 199.6 |       |      |    |  |  |
| DFPD-1200- ... -F14    |    |    |      |                    |       |     |      |     |     |       |       |      |    |  |  |
| DFPD-2300- ... -F12/16 |    |    | 64   |                    | 338.7 | 253 |      | 19  | 309 | 157   | 252.3 |      |    |  |  |
| DFPD-2300- ... -F14    |    |    |      |                    |       |     |      |     |     |       |       |      |    |  |  |

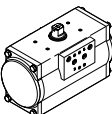
| 型号                     | L1    | L2   | T1   | T2   | T3   | T4  | T5 | T6 | T7 | T8   | ≈G 1 | ≈G 2 | ≈G 3 | W1  |    |    |
|------------------------|-------|------|------|------|------|-----|----|----|----|------|------|------|------|-----|----|----|
|                        |       | ±0.1 | min. |      |      |     |    |    |    | +0.5 | H11  | h11  |      |     |    |    |
| DFPD-700- ... -F10/12  | 428.2 | 80   | 29.7 | 15   | 18   | 8   | 14 | 8  | 12 | 4    | 27   | 30   | 21   | 45° |    |    |
| DFPD-900- ... -F10/12  | 469.6 | 130  | 30.2 | 15.5 | 18.5 | 8.5 |    |    |    |      | 36   | 32   | 24   |     |    |    |
| DFPD-900- ... -F14     |       |      | 40.2 | 24.5 | —    |     |    |    |    |      |      |      |      |     | 27 |    |
| DFPD-1200- ... -F10/12 | 519.3 |      | 31   | 15.5 | 18.5 |     |    |    |    |      |      |      |      |     |    | 36 |
| DFPD-1200- ... -F14    |       |      | 40   | 24.5 | —    |     |    |    |    |      |      |      | 46   |     |    |    |
| DFPD-2300- ... -F12/16 |       |      | 50   | 18.5 | 30   |     |    |    |    |      |      |      |      |     | 36 |    |
| DFPD-2300- ... -F14    | 636   |      | 40   | 24.5 | —    |     |    |    |    |      |      |      |      |     |    |    |

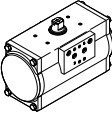
## 技术参数

## ★ 核心产品范围

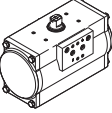
| 订货数据                                                                             |     |             |           |                         |
|----------------------------------------------------------------------------------|-----|-------------|-----------|-------------------------|
| 型号                                                                               | 规格  | 产品重量<br>[g] | 订货号       | 型号                      |
|  | 10  | 965         | ★ 8047613 | DFPD-10-RP-90-RD-F03    |
|                                                                                  | 20  | 1275        | ★ 8047614 | DFPD-20-RP-90-RD-F04    |
|                                                                                  | 40  | 1882        | ★ 8047615 | DFPD-40-RP-90-RD-F0507  |
|                                                                                  | 80  | 3308        | ★ 8047616 | DFPD-80-RP-90-RD-F0507  |
|                                                                                  | 120 | 4872        | ★ 8048123 | DFPD-120-RP-90-RD-F0507 |

## ★ 核心产品范围

| 订货数据                                                                             |     |             |           |                         |
|----------------------------------------------------------------------------------|-----|-------------|-----------|-------------------------|
| 型号                                                                               | 规格  | 产品重量<br>[g] | 订货号       | 型号                      |
|  | 160 | 6082        | ☆ 8048124 | DFPD-160-RP-90-RD-F0710 |
|                                                                                  | 240 | 8594        | ☆ 8048125 | DFPD-240-RP-90-RD-F0710 |
|                                                                                  | 300 | 11224       | ☆ 8048126 | DFPD-300-RP-90-RD-F0710 |
|                                                                                  | 480 | 16025       | ☆ 8048127 | DFPD-480-RP-90-RD-F1012 |

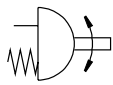
| 订货数据                                                                              |      |             |         |                          |
|-----------------------------------------------------------------------------------|------|-------------|---------|--------------------------|
| 型号                                                                                | 规格   | 产品重量<br>[g] | 订货号     | 型号                       |
|  | 10   | 965         | 8048010 | DFPD-10-RP-90-RD-F04     |
|                                                                                   | 20   | 1275        | 8048011 | DFPD-20-RP-90-RD-F05     |
|                                                                                   | 40   | 2608        | 8065336 | DFPD-40-RP-180-RD-F0507  |
|                                                                                   | 40   | 2467        | 8065337 | DFPD-40-RP-135-RD-F0507  |
|                                                                                   | 40   | 2419        | 8065338 | DFPD-40-RP-120-RD-F0507  |
|                                                                                   | 120  | 7122        | 8065339 | DFPD-120-RP-180-RD-F0507 |
|                                                                                   | 120  | 6363        | 8065340 | DFPD-120-RP-135-RD-F0507 |
|                                                                                   | 120  | 6250        | 8065341 | DFPD-120-RP-120-RD-F0507 |
|                                                                                   | 240  | 12549       | 8065342 | DFPD-240-RP-180-RD-F0710 |
|                                                                                   | 240  | 11139       | 8065343 | DFPD-240-RP-135-RD-F0710 |
|                                                                                   | 240  | 10939       | 8065344 | DFPD-240-RP-120-RD-F0710 |
|                                                                                   | 480  | 23456       | 8065345 | DFPD-480-RP-180-RD-F1012 |
|                                                                                   | 480  | 21013       | 8065346 | DFPD-480-RP-135-RD-F1012 |
|                                                                                   | 480  | 20653       | 8065347 | DFPD-480-RP-120-RD-F1012 |
|                                                                                   | 700  | 22464       | 8065261 | DFPD-700-RP-90-RD-F1012  |
|                                                                                   | 900  | 25574       | 8065265 | DFPD-900-RP-90-RD-F14    |
|                                                                                   | 1200 | 35834       | 8065269 | DFPD-1200-RP-90-RD-F14   |
|                                                                                   | 2300 | 64900       | 8065273 | DFPD-2300-RP-90-RD-F1216 |

## 技术参数

| 订货数据                                                                              |      |             |         |                                |
|-----------------------------------------------------------------------------------|------|-------------|---------|--------------------------------|
| 型号                                                                                | 规格   | 产品重量<br>[g] | 订货号     | 型号                             |
| 派生型 R3-EP, 环氧树脂涂层                                                                 |      |             |         |                                |
|  | 10   | 965         | 8047617 | DFPD-10-RP-90-RD-F03-R3-EP     |
|                                                                                   |      |             | 8048012 | DFPD-10-RP-90-RD-F04-R3-EP     |
|                                                                                   | 20   | 1275        | 8047618 | DFPD-20-RP-90-RD-F04-R3-EP     |
|                                                                                   |      |             | 8048013 | DFPD-20-RP-90-RD-F05-R3-EP     |
|                                                                                   | 40   | 1882        | 8047619 | DFPD-40-RP-90-RD-F0507-R3-EP   |
|                                                                                   | 80   | 3308        | 8047620 | DFPD-80-RP-90-RD-F0507-R3-EP   |
|                                                                                   | 120  | 4872        | 8048128 | DFPD-120-RP-90-RD-F0507-R3-EP  |
|                                                                                   | 160  | 6082        | 8048129 | DFPD-160-RP-90-RD-F0710-R3-EP  |
|                                                                                   | 240  | 8594        | 8048130 | DFPD-240-RP-90-RD-F0710-R3-EP  |
|                                                                                   | 300  | 11224       | 8048131 | DFPD-300-RP-90-RD-F0710-R3-EP  |
|                                                                                   | 480  | 16025       | 8048132 | DFPD-480-RP-90-RD-F1012-R3-EP  |
|                                                                                   | 700  | 22464       | 8065263 | DFPD-700-RP-90-RD-F1012-R3-EP  |
|                                                                                   | 900  | 25574       | 8065267 | DFPD-900-RP-90-RD-F14-R3-EP    |
|                                                                                   | 1200 | 35834       | 8065271 | DFPD-1200-RP-90-RD-F14-R3-EP   |
|                                                                                   | 2300 | 64900       | 8065275 | DFPD-2300-RP-90-RD-F1216-R3-EP |

技术参数

功能



- | - 规格  
20 ... 2300
- ⤿ - 摆角  
0 ... 90°

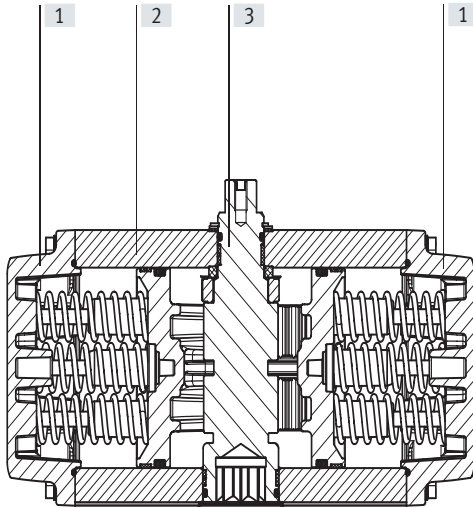


| 主要技术参数           |                      |           |     |     |     |     |     |         |      |     |     |     |      |      |     |      |     |     |  |
|------------------|----------------------|-----------|-----|-----|-----|-----|-----|---------|------|-----|-----|-----|------|------|-----|------|-----|-----|--|
| 规格               | 20                   |           | 40  |     | 80  | 120 | 160 | 240     | 300  | 480 | 700 | 900 |      | 1200 |     | 2300 |     |     |  |
| 工作方式             | 单作用                  |           |     |     |     |     |     |         |      |     |     |     |      |      |     |      |     |     |  |
| 结构特点             | 齿轮齿条                 |           |     |     |     |     |     |         |      |     |     |     |      |      |     |      |     |     |  |
| 缓冲形式             | 无缓冲                  |           |     |     |     |     |     |         |      |     |     |     |      |      |     |      |     |     |  |
| 安装位置             | 任意                   |           |     |     |     |     |     |         |      |     |     |     |      |      |     |      |     |     |  |
| 气接口              | G1/8                 |           |     |     |     |     |     | G1/4    |      |     |     |     |      |      |     |      |     |     |  |
|                  | 1/8 NPT              |           |     |     |     |     |     | 1/4 NPT |      |     |     |     |      |      |     |      |     |     |  |
| 过程阀接口，符合标准       | ISO 5211             |           |     |     |     |     |     |         |      |     |     |     |      |      |     |      |     |     |  |
| 阀接口，符合标准         | VDI/VDE 3845 (NAMUR) |           |     |     |     |     |     |         |      |     |     |     |      |      |     |      |     |     |  |
| 定位器和位置传感器接口，符合标准 | VDI/VDE 3845 (NAMUR) |           |     |     |     |     |     |         |      |     |     |     |      |      |     |      |     |     |  |
| 安全整体性等级 (SIL)    | 最高可达 SIL 2 高需求模式     |           |     |     |     |     |     |         |      |     |     |     |      |      |     |      |     |     |  |
| 规格               | AA 1                 |           |     |     |     |     |     |         | AA 2 |     |     |     | AA 3 |      |     |      |     |     |  |
| 法兰孔型 1           | F03                  | F04       | F05 | F04 | F05 | F05 | F05 | F07     | F07  | F07 | F10 | F10 | F10  | F14  | F10 | F14  | F12 | F14 |  |
| 法兰孔型 2           | —                    | —         | —   | F07 | F07 | F07 | F07 | F10     | F10  | F10 | F12 | F12 | F12  | F12  | F12 | F12  | F16 | F16 |  |
| 摆角               | [°]                  | 90        |     |     |     |     |     |         |      |     |     |     |      |      |     |      |     |     |  |
| 终端位置调节范围，0°      | [°]                  | -5 ... +5 |     |     |     |     |     |         |      |     |     |     |      |      |     |      |     |     |  |
| 终端位置调节范围，90°     | [°]                  | -5 ... +5 |     |     |     |     |     |         |      |     |     |     |      |      |     |      |     |     |  |
| 位置感测             | 光学                   |           |     |     |     |     |     |         |      |     |     |     |      |      |     |      |     |     |  |
| 关闭方向             | 向右关闭                 |           |     |     |     |     |     |         |      |     |     |     |      |      |     |      |     |     |  |

| 工作和环境条件      |                                 |      |
|--------------|---------------------------------|------|
| 派生型          | RS30                            | RS60 |
| 工作压力 [bar]   | 2 ... 8                         |      |
| 额定工作压力 [bar] | 3                               | 6    |
| 工作介质         | 压缩空气，符合 ISO 8573-1:2010 [7:4:4] |      |
| 工作/先导介质注意事项  | 压力露点环境温度 和 介质温度 低 10°C          |      |
|              | 可润滑工作(今后须始终润滑工作)                |      |
| 环境温度 [°C]    | -20 ... +80                     |      |
| 贮存温度         | -20 ... +60                     |      |
| 证书签发机构       | 德国技术监督委员会 (TÜV) Rheinland       |      |

## 技术参数

| ATEX            |                       |
|-----------------|-----------------------|
| ATEX 防爆类别, 用于气体 | II 2G                 |
| 防爆型式, 用于气体      | Ex h IIC T4 Gb X      |
| ATEX 防爆类别, 用于粉尘 | II 2D                 |
| 防爆型式, 用于粉尘      | Ex h IIIC T105°C Db X |
| 防爆环境温度 [°C]     | -20 ≤ Ta ≤ +80        |
| CE 标记 (见合格声明)   | 符合欧盟防爆指令 (ATEX)       |



| 材料     |                             |
|--------|-----------------------------|
| 剖面     |                             |
| 角行程驱动器 |                             |
| [1] 端盖 | 涂层压铸铝                       |
| [2] 壳体 | 阳极氧化精制铝合金                   |
| [3] 阀杆 | 镀镍钢                         |
|        | R3 高合金不锈钢                   |
| - 连接板  | 阳极氧化精制铝合金                   |
| 活塞杆    | 压铸铝                         |
| 密封件    | NBR                         |
| 弹簧     | 弹簧钢                         |
| 轴承     | POM                         |
| 凸轮     | 铸造不锈钢 (DFPD-20...160...-RS) |
|        | 钢 (DFPD-240 ... 2300...-RS) |
| 螺丝     | 高合金不锈钢                      |
| 材料注意事项 | RoHS 合规                     |

## 时耗气量 [l/cycle] at 6 bar

## 型号

|                  |      |
|------------------|------|
| DFPD-20-RP-90-S  | 0.8  |
| DFPD-40-RP-90-S  | 1.5  |
| DFPD-80-RP-90-S  | 3.1  |
| DFPD-120-RP-90-S | 4.3  |
| DFPD-160-RP-90-S | 5.9  |
| DFPD-240-RP-90-S | 8.6  |
| DFPD-300-RP-90-S | 11.0 |
| DFPD-480-RP-90-S | 17.2 |

## 型号

|                   |      |
|-------------------|------|
| DFPD-700-RP-90-S  | 24.5 |
| DFPD-900-RP-90-S  | 31.5 |
| DFPD-1200-RP-90-S | 43.5 |
| DFPD-2300-RP-90-S | 84.4 |

## 技术参数

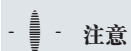
| 扭矩理论值 [Nm] 与工作压力 [bar] 和摆角 [°] 的关系 |      |      |            |             |             |             |             |             |             |             |             |      |      |
|------------------------------------|------|------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|
| 弹簧配置                               | 额定摆角 | 弹簧扭矩 | 工作压力 [bar] |             |             |             |             |             |             |             |             |      |      |
|                                    | [°]  | [Nm] | 2          | 2.5         | 3           | 3.5         | 4           | 4.5         | 5           | 5.5         | 6           | 7    | 8    |
| <b>规格 DFPD-20</b>                  |      |      |            |             |             |             |             |             |             |             |             |      |      |
| 20                                 | 0    | 2.4  | <b>4.9</b> | 6.7         | 8.6         | 10.4        | 12.2        | 14.0        | 15.9        | 17.7        | 19.5        | 23.2 | 26.8 |
|                                    | 90   | 4.8  | <b>2.5</b> | 4.4         | 6.2         | 8.0         | 9.9         | 11.7        | 13.5        | 15.3        | 17.2        | 20.8 | 24.5 |
| 25                                 | 0    | 3.0  | 4.3        | <b>6.1</b>  | 8.0         | 9.8         | 11.6        | 13.4        | 15.3        | 17.1        | 18.9        | 22.6 | 26.2 |
|                                    | 90   | 6.0  | 1.4        | <b>3.2</b>  | 5.0         | 6.8         | 8.7         | 10.5        | 12.3        | 14.2        | 16.0        | 19.6 | 23.3 |
| 30                                 | 0    | 3.6  |            | 5.5         | <b>7.4</b>  | 9.2         | 11.0        | 12.8        | 14.7        | 16.5        | 18.3        | 22.0 | 25.6 |
|                                    | 90   | 7.1  |            | 2.0         | <b>3.8</b>  | 5.7         | 7.5         | 9.3         | 11.1        | 13.0        | 14.8        | 18.4 | 22.1 |
| 35                                 | 0    | 4.2  |            |             | 6.8         | <b>8.6</b>  | 10.4        | 12.2        | 14.1        | 15.9        | 17.7        | 21.4 | 25.0 |
|                                    | 90   | 8.3  |            |             | 2.6         | <b>4.5</b>  | 6.3         | 8.1         | 9.9         | 11.8        | 13.6        | 17.3 | 20.9 |
| 40                                 | 0    | 4.8  |            |             |             | 8.0         | <b>9.8</b>  | 11.6        | 13.5        | 15.3        | 17.1        | 20.8 | 24.4 |
|                                    | 90   | 9.5  |            |             |             | 3.3         | <b>5.1</b>  | 6.9         | 8.8         | 10.6        | 12.4        | 16.1 | 19.7 |
| 45                                 | 0    | 5.4  |            |             |             |             | 9.2         | <b>11.0</b> | 12.9        | 14.7        | 16.5        | 20.2 | 23.8 |
|                                    | 90   | 10.7 |            |             |             |             | 3.9         | <b>5.7</b>  | 7.6         | 9.4         | 11.2        | 14.9 | 18.5 |
| 50                                 | 0    | 6.0  |            |             |             |             |             | 10.4        | <b>12.3</b> | 14.1        | 15.9        | 19.6 | 23.2 |
|                                    | 90   | 11.9 |            |             |             |             |             | 4.5         | <b>6.4</b>  | 8.2         | 10.0        | 13.7 | 17.3 |
| 55                                 | 0    | 6.6  |            |             |             |             |             |             | 11.7        | <b>13.5</b> | 15.3        | 19.0 | 22.6 |
|                                    | 90   | 13.1 |            |             |             |             |             |             | 5.2         | <b>7.0</b>  | 8.8         | 12.5 | 16.1 |
| 60                                 | 0    | 7.2  |            |             |             |             |             |             |             | 12.9        | <b>14.7</b> | 18.4 | 22.0 |
|                                    | 90   | 14.3 |            |             |             |             |             |             |             | 5.8         | <b>7.6</b>  | 11.3 | 15.0 |
| <b>规格 DFPD-40</b>                  |      |      |            |             |             |             |             |             |             |             |             |      |      |
| 20                                 | 0    | 4.6  | <b>9.3</b> | 12.8        | 16.3        | 19.8        | 23.3        | 26.7        | 30.2        | 33.7        | 37.2        | 44.1 | 51.1 |
|                                    | 90   | 9.1  | <b>4.8</b> | 8.3         | 11.8        | 15.3        | 18.8        | 22.3        | 25.7        | 29.2        | 32.7        | 39.7 | 46.6 |
| 25                                 | 0    | 5.8  | 8.2        | <b>11.7</b> | 15.1        | 18.6        | 22.1        | 25.6        | 29.1        | 32.6        | 36.0        | 43.0 | 50.0 |
|                                    | 90   | 11.4 | 2.6        | <b>6.1</b>  | 9.5         | 13.0        | 16.5        | 20.0        | 23.5        | 27.0        | 30.4        | 37.4 | 44.4 |
| 30                                 | 0    | 6.9  |            | 10.5        | <b>14.0</b> | 17.5        | 21.0        | 24.4        | 27.9        | 31.4        | 34.9        | 41.8 | 48.8 |
|                                    | 90   | 13.6 |            | 3.8         | <b>7.3</b>  | 10.8        | 14.2        | 17.7        | 21.2        | 24.7        | 28.2        | 35.1 | 42.1 |
| 35                                 | 0    | 8.1  |            |             | 12.8        | <b>16.3</b> | 19.8        | 23.3        | 26.8        | 30.3        | 33.7        | 40.7 | 47.7 |
|                                    | 90   | 15.9 |            |             | 5.0         | <b>8.5</b>  | 12.0        | 15.4        | 18.9        | 22.4        | 25.9        | 32.9 | 39.8 |
| 40                                 | 0    | 9.2  |            |             |             | 15.2        | <b>18.7</b> | 22.1        | 25.6        | 29.1        | 32.6        | 39.5 | 46.5 |
|                                    | 90   | 18.2 |            |             |             | 6.2         | <b>9.7</b>  | 13.2        | 16.7        | 20.1        | 23.6        | 30.6 | 37.5 |
| 45                                 | 0    | 10.4 |            |             |             |             | 17.5        | <b>21.0</b> | 24.5        | 28.0        | 31.4        | 38.4 | 45.4 |
|                                    | 90   | 20.4 |            |             |             |             | 7.4         | <b>10.9</b> | 14.4        | 17.9        | 21.4        | 28.3 | 35.3 |
| 50                                 | 0    | 11.5 |            |             |             |             |             | 19.8        | <b>23.3</b> | 26.8        | 30.3        | 37.2 | 44.2 |
|                                    | 90   | 22.7 |            |             |             |             |             | 8.6         | <b>12.1</b> | 15.6        | 19.1        | 26.0 | 33.0 |
| 55                                 | 0    | 12.7 |            |             |             |             |             |             | 22.2        | <b>25.7</b> | 29.1        | 36.1 | 43.1 |
|                                    | 90   | 25.0 |            |             |             |             |             |             | 9.8         | <b>13.3</b> | 16.8        | 23.8 | 30.7 |
| 60                                 | 0    | 13.8 |            |             |             |             |             |             |             | 24.5        | <b>28.0</b> | 34.9 | 41.9 |
|                                    | 90   | 27.2 |            |             |             |             |             |             |             | 11.1        | <b>14.5</b> | 21.5 | 28.5 |

 注意

气缸的工作扭矩不得高于ISO 5211所列最大许用扭矩，以安装法兰和联轴器的规格为参考系。

## 技术参数

| 扭矩理论值 [Nm] 与工作压力 [bar] 和摆角 [°] 的关系 |      |      |             |             |             |             |             |             |             |             |             |       |       |
|------------------------------------|------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|-------|
| 弹簧配置                               | 额定摆角 | 弹簧扭矩 | 工作压力 [bar]  |             |             |             |             |             |             |             |             |       |       |
|                                    | [°]  | [Nm] | 2           | 2.5         | 3           | 3.5         | 4           | 4.5         | 5           | 5.5         | 6           | 7     | 8     |
| <b>规格 DFPD-80</b>                  |      |      |             |             |             |             |             |             |             |             |             |       |       |
| 20                                 | 0    | 9.9  | <b>20.1</b> | 27.6        | 35.1        | 42.6        | 50.0        | 57.5        | 65.0        | 72.5        | 80.0        | 95.0  | 110.0 |
|                                    | 90   | 19.5 | <b>10.5</b> | 18.0        | 25.5        | 33.0        | 40.4        | 47.9        | 55.4        | 62.9        | 70.4        | 85.4  | 100.4 |
| 25                                 | 0    | 12.4 | 17.6        | <b>25.1</b> | 32.6        | 40.1        | 47.6        | 55.1        | 62.6        | 70.1        | 77.5        | 92.5  | 107.5 |
|                                    | 90   | 24.4 | 5.6         | <b>13.1</b> | 20.6        | 28.1        | 35.6        | 43.1        | 50.6        | 58.1        | 65.5        | 80.5  | 95.5  |
| 30                                 | 0    | 14.8 |             | 22.6        | <b>30.1</b> | 37.6        | 45.1        | 52.6        | 60.1        | 67.6        | 75.1        | 90.1  | 105.0 |
|                                    | 90   | 29.2 |             | 8.2         | <b>15.7</b> | 23.2        | 30.7        | 38.2        | 45.7        | 53.2        | 60.7        | 75.5  | 90.6  |
| 35                                 | 0    | 17.3 |             |             | 27.7        | <b>35.1</b> | 42.6        | 50.1        | 57.6        | 65.1        | 72.6        | 87.6  | 102.6 |
|                                    | 90   | 34.1 |             |             | 10.9        | <b>18.3</b> | 25.8        | 33.3        | 40.8        | 48.3        | 55.8        | 70.8  | 85.8  |
| 40                                 | 0    | 19.8 |             |             |             | 32.7        | <b>40.2</b> | 47.7        | 55.1        | 62.6        | 70.1        | 85.1  | 100.1 |
|                                    | 90   | 39.0 |             |             |             | 13.5        | <b>21.0</b> | 28.5        | 35.9        | 43.4        | 50.9        | 65.9  | 80.9  |
| 45                                 | 0    | 22.2 |             |             |             |             | 37.7        | <b>45.2</b> | 52.7        | 60.2        | 67.7        | 82.6  | 97.6  |
|                                    | 90   | 43.8 |             |             |             |             | 16.1        | <b>23.6</b> | 31.1        | 38.6        | 46.1        | 61.0  | 76.0  |
| 50                                 | 0    | 24.7 |             |             |             |             |             | 42.7        | <b>50.2</b> | 57.7        | 65.2        | 80.2  | 95.2  |
|                                    | 90   | 48.7 |             |             |             |             |             | 18.7        | <b>26.2</b> | 33.7        | 41.2        | 56.2  | 71.2  |
| 55                                 | 0    | 27.2 |             |             |             |             |             |             | 47.7        | <b>55.2</b> | 62.7        | 77.7  | 92.7  |
|                                    | 90   | 53.6 |             |             |             |             |             |             | 21.3        | <b>28.8</b> | 36.3        | 51.3  | 66.3  |
| 60                                 | 0    | 29.6 |             |             |             |             |             |             |             | 52.8        | <b>60.3</b> | 75.2  | 90.2  |
|                                    | 90   | 58.4 |             |             |             |             |             |             |             | 24.0        | <b>31.5</b> | 46.4  | 61.4  |
| <b>规格 DFPD-120</b>                 |      |      |             |             |             |             |             |             |             |             |             |       |       |
| 20                                 | 0    | 14.0 | <b>28.7</b> | 39.3        | 50.0        | 60.7        | 71.3        | 82.0        | 92.7        | 103.4       | 114.0       | 135.4 | 156.7 |
|                                    | 90   | 27.8 | <b>14.9</b> | 25.6        | 36.3        | 46.9        | 57.6        | 68.3        | 79.0        | 89.6        | 100.3       | 121.7 | 143.0 |
| 25                                 | 0    | 17.6 | 25.1        | <b>35.8</b> | 46.5        | 57.2        | 67.8        | 78.5        | 89.2        | 99.9        | 110.5       | 131.9 | 153.2 |
|                                    | 90   | 34.7 | 8.0         | <b>18.7</b> | 29.3        | 40.0        | 50.7        | 61.4        | 72.0        | 82.7        | 93.4        | 114.7 | 136.1 |
| 30                                 | 0    | 21.1 |             | 32.3        | <b>43.0</b> | 53.6        | 64.3        | 75.0        | 85.7        | 96.3        | 107.0       | 128.4 | 149.7 |
|                                    | 90   | 41.6 |             | 11.7        | <b>22.4</b> | 33.1        | 43.7        | 54.4        | 65.1        | 75.8        | 86.4        | 107.8 | 129.1 |
| 35                                 | 0    | 24.6 |             |             | 39.5        | <b>50.1</b> | 60.8        | 71.5        | 82.2        | 92.8        | 103.5       | 124.8 | 146.2 |
|                                    | 90   | 48.6 |             |             | 15.5        | <b>26.1</b> | 36.8        | 47.5        | 58.1        | 68.8        | 79.5        | 100.8 | 122.2 |
| 40                                 | 0    | 28.1 |             |             |             | 46.6        | <b>57.3</b> | 68.0        | 78.6        | 89.3        | 100.0       | 121.3 | 142.7 |
|                                    | 90   | 55.5 |             |             |             | 19.2        | <b>29.9</b> | 40.5        | 51.2        | 61.9        | 72.6        | 93.9  | 115.2 |
| 45                                 | 0    | 31.6 |             |             |             |             | 53.8        | <b>64.5</b> | 75.1        | 85.8        | 96.5        | 117.8 | 139.2 |
|                                    | 90   | 62.5 |             |             |             |             | 22.9        | <b>33.6</b> | 44.3        | 54.9        | 65.6        | 87.0  | 108.3 |
| 50                                 | 0    | 35.1 |             |             |             |             |             | 61.0        | <b>71.6</b> | 82.3        | 93.0        | 114.3 | 135.7 |
|                                    | 90   | 69.4 |             |             |             |             |             | 26.7        | <b>37.3</b> | 48.0        | 58.7        | 80.0  | 101.4 |
| 55                                 | 0    | 38.6 |             |             |             |             |             |             | 68.1        | <b>78.8</b> | 89.5        | 110.8 | 132.2 |
|                                    | 90   | 76.3 |             |             |             |             |             |             | 30.4        | <b>41.1</b> | 51.7        | 73.1  | 94.4  |
| 60                                 | 0    | 42.1 |             |             |             |             |             |             |             | 75.3        | <b>86.0</b> | 107.3 | 128.6 |
|                                    | 90   | 83.3 |             |             |             |             |             |             |             | 34.1        | <b>44.8</b> | 66.1  | 87.5  |



## 注意

气缸的工作扭矩不得高于ISO 5211所列最大许用扭矩，以安装法兰和联轴器的规格为参考系。

## 技术参数

扭矩理论值 [Nm] 与工作压力 [bar] 和摆角 [°] 的关系

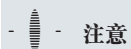
| 弹簧配置               | 额定摆角 | 弹簧扭矩  | 工作压力 [bar]  |             |             |              |              |              |              |              |              |       |       |
|--------------------|------|-------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|-------|-------|
|                    | [°]  | [Nm]  | 2           | 2.5         | 3           | 3.5          | 4            | 4.5          | 5            | 5.5          | 6            | 7     | 8     |
| <b>规格 DFPD-160</b> |      |       |             |             |             |              |              |              |              |              |              |       |       |
| 20                 | 0    | 19.2  | <b>39.3</b> | 53.9        | 68.6        | 83.2         | 97.9         | 112.5        | 127.1        | 141.8        | 156.4        | 185.7 | 214.9 |
|                    | 90   | 38.1  | <b>20.5</b> | 35.1        | 49.7        | 64.4         | 79.0         | 93.6         | 108.3        | 122.9        | 137.6        | 166.8 | 196.1 |
| 25                 | 0    | 24.1  | 34.5        | <b>49.1</b> | 63.8        | 78.4         | 93.0         | 107.7        | 122.3        | 137.0        | 151.6        | 180.9 | 210.1 |
|                    | 90   | 47.6  | 37.6        | <b>25.6</b> | 40.2        | 54.9         | 69.5         | 84.1         | 98.8         | 113.4        | 128.0        | 157.3 | 186.6 |
| 30                 | 0    | 28.9  |             | 44.3        | <b>59.0</b> | 73.6         | 88.2         | 102.9        | 117.5        | 132.1        | 146.8        | 176.0 | 205.3 |
|                    | 90   | 57.1  |             | 16.1        | <b>30.7</b> | 45.3         | 60.0         | 74.6         | 89.2         | 103.9        | 118.5        | 147.8 | 177.1 |
| 35                 | 0    | 33.7  |             |             | 54.1        | <b>68.8</b>  | 83.4         | 98.1         | 112.7        | 127.3        | 142.0        | 171.2 | 200.5 |
|                    | 90   | 66.6  |             |             | 21.2        | <b>35.8</b>  | 50.4         | 65.1         | 79.7         | 94.4         | 109.0        | 138.3 | 167.5 |
| 40                 | 0    | 38.5  |             |             |             | 64.0         | <b>78.6</b>  | 93.2         | 107.9        | 122.5        | 137.2        | 166.4 | 195.7 |
|                    | 90   | 76.2  |             |             |             | 26.3         | <b>40.9</b>  | 55.6         | 70.2         | 84.8         | 99.5         | 128.7 | 158.0 |
| 45                 | 0    | 43.3  |             |             |             |              | 73.8         | <b>88.4</b>  | 103.1        | 117.7        | 132.3        | 161.6 | 190.9 |
|                    | 90   | 85.7  |             |             |             |              | 31.4         | <b>46.0</b>  | 60.7         | 75.3         | 90.0         | 119.2 | 148.5 |
| 50                 | 0    | 48.1  |             |             |             |              |              | 83.6         | <b>98.3</b>  | 112.9        | 127.5        | 156.8 | 186.1 |
|                    | 90   | 95.2  |             |             |             |              |              | 36.5         | <b>51.2</b>  | 65.8         | 80.4         | 109.7 | 139.0 |
| 55                 | 0    | 52.9  |             |             |             |              |              |              | 93.5         | <b>108.1</b> | 122.7        | 152.0 | 181.3 |
|                    | 90   | 104.7 |             |             |             |              |              |              | 41.6         | <b>56.3</b>  | 70.9         | 100.2 | 129.5 |
| 60                 | 0    | 57.7  |             |             |             |              |              |              |              | 103.3        | <b>117.9</b> | 147.2 | 176.5 |
|                    | 90   | 114.2 |             |             |             |              |              |              |              | 46.8         | <b>61.4</b>  | 90.7  | 119.9 |
| <b>规格 DFPD-240</b> |      |       |             |             |             |              |              |              |              |              |              |       |       |
| 20                 | 0    | 28.0  | <b>57.2</b> | 78.5        | 99.8        | 121.1        | 142.4        | 163.7        | 185.0        | 206.3        | 227.6        | 270.2 | 312.8 |
|                    | 90   | 55.4  | <b>29.8</b> | 51.1        | 72.4        | 93.7         | 115.0        | 136.3        | 157.6        | 178.9        | 200.2        | 242.8 | 285.4 |
| 25                 | 0    | 35.0  | 50.2        | <b>71.5</b> | 92.8        | 114.1        | 135.4        | 156.7        | 178.0        | 199.3        | 220.6        | 263.2 | 305.8 |
|                    | 90   | 69.2  | 16.0        | <b>37.3</b> | 58.6        | 79.9         | 101.2        | 122.5        | 143.8        | 165.1        | 186.4        | 229.0 | 271.6 |
| 30                 | 0    | 42.0  |             | 64.5        | <b>85.8</b> | 107.1        | 128.4        | 149.7        | 171.0        | 192.3        | 213.6        | 256.2 | 298.8 |
|                    | 90   | 83.0  |             | 23.5        | <b>44.8</b> | 66.1         | 87.4         | 108.7        | 130.0        | 151.3        | 172.6        | 215.2 | 257.8 |
| 35                 | 0    | 49.0  |             |             | 78.8        | <b>100.1</b> | 121.4        | 142.7        | 164.0        | 185.3        | 206.6        | 249.2 | 291.8 |
|                    | 90   | 96.9  |             |             | 30.9        | <b>52.2</b>  | 73.5         | 94.8         | 116.1        | 137.5        | 158.7        | 201.3 | 243.9 |
| 40                 | 0    | 56.0  |             |             |             | 93.1         | <b>114.4</b> | 135.7        | 157.0        | 178.3        | 199.6        | 242.2 | 284.8 |
|                    | 90   | 110.7 |             |             |             | 38.4         | <b>59.7</b>  | 81.0         | 102.3        | 123.6        | 144.9        | 187.5 | 230.1 |
| 45                 | 0    | 63.0  |             |             |             |              | 107.4        | <b>128.7</b> | 150.0        | 171.3        | 192.6        | 235.2 | 277.8 |
|                    | 90   | 124.6 |             |             |             |              | 45.8         | <b>67.1</b>  | 88.4         | 109.7        | 131.0        | 173.6 | 216.2 |
| 50                 | 0    | 70.0  |             |             |             |              |              | 121.7        | <b>143.0</b> | 164.3        | 185.6        | 228.2 | 270.8 |
|                    | 90   | 138.4 |             |             |             |              |              | 53.3         | <b>74.6</b>  | 95.9         | 117.2        | 159.8 | 202.4 |
| 55                 | 0    | 77.0  |             |             |             |              |              |              | 136.0        | <b>157.3</b> | 178.6        | 221.2 | 263.8 |
|                    | 90   | 152.2 |             |             |             |              |              |              | 60.8         | <b>82.1</b>  | 103.4        | 146.0 | 188.6 |
| 60                 | 0    | 84.0  |             |             |             |              |              |              |              | 150.3        | <b>171.6</b> | 214.2 | 256.8 |
|                    | 90   | 166.1 |             |             |             |              |              |              |              | 68.2         | <b>89.5</b>  | 132.1 | 174.7 |

## - 注意

气缸的工作扭矩不得高于ISO 5211所列最大许用扭矩，以安装法兰和联轴器的规格为参考系。

## 技术参数

| 扭矩理论值 [Nm] 与工作压力 [bar] 和摆角 [°] 的关系 |      |       |              |              |              |              |              |              |              |              |              |       |       |
|------------------------------------|------|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------|-------|
| 弹簧配置                               | 额定摆角 | 弹簧扭矩  | 工作压力 [bar]   |              |              |              |              |              |              |              |              |       |       |
|                                    | [°]  | [Nm]  | 2            | 2.5          | 3            | 3.5          | 4            | 4.5          | 5            | 5.5          | 6            | 7     | 8     |
| <b>规格 DFPD-300</b>                 |      |       |              |              |              |              |              |              |              |              |              |       |       |
| 20                                 | 0    | 36.1  | <b>73.7</b>  | 101.1        | 128.6        | 156.0        | 183.4        | 210.9        | 238.3        | 265.8        | 293.2        | 348.1 | 403.0 |
|                                    | 90   | 71.4  | <b>38.4</b>  | 65.9         | 93.3         | 120.8        | 148.2        | 175.6        | 203.1        | 230.5        | 258.0        | 312.9 | 367.8 |
| 25                                 | 0    | 45.2  | 64.6         | <b>92.1</b>  | 119.5        | 147.0        | 174.4        | 201.9        | 229.3        | 256.8        | 284.2        | 339.1 | 394.0 |
|                                    | 90   | 89.2  | 20.6         | <b>48.0</b>  | 75.5         | 102.9        | 130.4        | 157.8        | 185.3        | 212.7        | 240.1        | 295.0 | 349.9 |
| 30                                 | 0    | 54.2  |              | 83.0         | <b>110.5</b> | 137.9        | 165.4        | 192.8        | 220.3        | 247.7        | 275.2        | 330.1 | 384.9 |
|                                    | 90   | 107.0 |              | 30.2         | <b>57.6</b>  | 85.1         | 112.5        | 140.0        | 167.4        | 194.9        | 222.3        | 277.2 | 332.1 |
| 35                                 | 0    | 63.2  |              |              | 101.5        | <b>128.9</b> | 156.4        | 183.8        | 211.2        | 238.7        | 266.1        | 321.0 | 375.9 |
|                                    | 90   | 124.9 |              |              | 39.8         | <b>67.2</b>  | 94.7         | 122.1        | 149.6        | 177.0        | 204.5        | 259.4 | 314.2 |
| 40                                 | 0    | 72.2  |              |              |              | 119.9        | <b>147.3</b> | 174.8        | 202.2        | 229.7        | 257.1        | 312.0 | 366.9 |
|                                    | 90   | 142.7 |              |              |              | 49.4         | <b>76.8</b>  | 104.3        | 131.7        | 159.2        | 186.6        | 241.5 | 296.4 |
| 45                                 | 0    | 81.3  |              |              |              |              | 138.3        | <b>165.7</b> | 193.2        | 220.6        | 248.1        | 303.0 | 357.9 |
|                                    | 90   | 160.6 |              |              |              |              | 59.0         | <b>86.4</b>  | 113.9        | 141.3        | 168.8        | 223.7 | 278.6 |
| 50                                 | 0    | 90.3  |              |              |              |              |              | 156.7        | <b>184.2</b> | 211.6        | 239.0        | 293.9 | 348.8 |
|                                    | 90   | 178.4 |              |              |              |              |              | 68.6         | <b>96.1</b>  | 123.5        | 150.9        | 205.8 | 260.7 |
| 55                                 | 0    | 99.3  |              |              |              |              |              |              | 175.1        | <b>202.6</b> | 230.0        | 284.9 | 339.8 |
|                                    | 90   | 196.2 |              |              |              |              |              |              | 78.2         | <b>105.7</b> | 133.1        | 188.0 | 242.9 |
| 60                                 | 0    | 108.4 |              |              |              |              |              |              |              | 193.5        | <b>221.0</b> | 275.9 | 330.8 |
|                                    | 90   | 214.1 |              |              |              |              |              |              |              | 87.8         | <b>115.3</b> | 170.2 | 225.0 |
| <b>规格 DFPD-480</b>                 |      |       |              |              |              |              |              |              |              |              |              |       |       |
| 20                                 | 0    | 56.7  | <b>115.7</b> | 158.8        | 201.9        | 245.0        | 288.0        | 331.1        | 374.2        | 417.3        | 460.4        | 546.6 | 632.8 |
|                                    | 90   | 112.0 | <b>60.3</b>  | 103.4        | 146.5        | 189.6        | 232.7        | 275.8        | 318.9        | 362.0        | 405.1        | 491.2 | 577.4 |
| 25                                 | 0    | 70.9  | 101.5        | <b>144.6</b> | 187.7        | 230.8        | 273.9        | 317.0        | 360.1        | 403.2        | 446.2        | 532.4 | 618.6 |
|                                    | 90   | 140.1 | 32.3         | <b>75.4</b>  | 118.5        | 161.6        | 204.7        | 247.8        | 290.9        | 334.0        | 377.0        | 463.2 | 549.4 |
| 30                                 | 0    | 85.0  |              | 130.4        | <b>173.5</b> | 216.6        | 259.7        | 302.8        | 345.9        | 389.0        | 432.1        | 518.3 | 604.4 |
|                                    | 90   | 168.1 |              | 47.4         | <b>90.5</b>  | 133.6        | 176.7        | 219.8        | 262.8        | 305.9        | 349.0        | 435.2 | 521.4 |
| 35                                 | 0    | 99.2  |              |              | 159.4        | <b>202.4</b> | 245.5        | 288.6        | 331.7        | 374.8        | 417.9        | 504.1 | 590.3 |
|                                    | 90   | 196.1 |              |              | 62.5         | <b>105.6</b> | 148.7        | 191.7        | 234.8        | 277.9        | 321.0        | 407.2 | 493.4 |
| 40                                 | 0    | 113.4 |              |              |              | 188.3        | <b>231.4</b> | 274.5        | 317.5        | 360.6        | 403.7        | 489.9 | 576.1 |
|                                    | 90   | 224.1 |              |              |              | 77.6         | <b>120.6</b> | 163.7        | 206.8        | 249.9        | 293.0        | 379.2 | 465.4 |
| 45                                 | 0    | 127.5 |              |              |              |              | 217.2        | <b>260.3</b> | 303.4        | 346.5        | 389.6        | 475.7 | 561.9 |
|                                    | 90   | 252.1 |              |              |              |              | 92.6         | <b>135.7</b> | 178.8        | 221.9        | 265.0        | 351.2 | 437.4 |
| 50                                 | 0    | 141.7 |              |              |              |              |              | 246.1        | <b>289.2</b> | 332.3        | 375.4        | 461.6 | 547.8 |
|                                    | 90   | 280.1 |              |              |              |              |              | 107.1        | <b>150.8</b> | 193.9        | 237.0        | 323.2 | 409.4 |
| 55                                 | 0    | 155.9 |              |              |              |              |              |              | 275.0        | <b>318.1</b> | 361.2        | 447.4 | 533.6 |
|                                    | 90   | 308.1 |              |              |              |              |              |              | 122.8        | <b>165.9</b> | 209.0        | 295.2 | 381.3 |
| 60                                 | 0    | 170.0 |              |              |              |              |              |              |              | 304.0        | <b>347.1</b> | 433.2 | 519.4 |
|                                    | 90   | 336.1 |              |              |              |              |              |              |              | 137.9        | <b>181.0</b> | 267.2 | 353.3 |



## 注意

气缸的工作扭矩不得高于ISO 5211所列最大许用扭矩，以安装法兰和联轴器的规格为参考系。

## 技术参数

扭矩理论值 [Nm] 与工作压力 [bar] 和摆角 [°] 的关系

| 弹簧配置               | 额定摆角 | 弹簧扭矩  | 工作压力 [bar]   |              |              |              |              |              |              |              |              |       |        |
|--------------------|------|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------|--------|
|                    | [°]  | [Nm]  | 2            | 2.5          | 3            | 3.5          | 4            | 4.5          | 5            | 5.5          | 6            | 7     | 8      |
| <b>规格 DFPD-700</b> |      |       |              |              |              |              |              |              |              |              |              |       |        |
| 20                 | 0    | 78.8  | <b>162.4</b> | 222.7        | 283.0        | 343.3        | 403.6        | 463.9        | 524.2        | 584.5        | 644.8        | 765.4 | 886.0  |
|                    | 90   | 143.7 | <b>97.5</b>  | 157.8        | 218.1        | 278.4        | 338.7        | 399.0        | 459.3        | 519.6        | 579.9        | 700.5 | 821.1  |
| 25                 | 0    | 99.6  | 141.6        | <b>201.9</b> | 262.2        | 322.5        | 382.8        | 443.1        | 503.4        | 563.7        | 624.0        | 744.6 | 865.2  |
|                    | 90   | 181.7 | 59.5         | <b>119.8</b> | 180.1        | 240.4        | 300.7        | 361.0        | 421.3        | 481.6        | 541.9        | 662.5 | 783.1  |
| 30                 | 0    | 120.9 |              | 180.6        | <b>240.9</b> | 301.2        | 361.5        | 421.8        | 482.1        | 542.4        | 602.7        | 723.3 | 843.9  |
|                    | 90   | 220.5 |              | 81.0         | <b>141.3</b> | 201.6        | 261.9        | 322.2        | 382.5        | 442.8        | 503.1        | 623.7 | 744.3  |
| 35                 | 0    | 142.6 |              |              | 219.2        | <b>279.5</b> | 339.8        | 400.1        | 460.4        | 520.7        | 581.0        | 701.6 | 822.2  |
|                    | 90   | 260.1 |              |              | 101.6        | <b>161.9</b> | 222.2        | 282.5        | 342.8        | 403.1        | 463.4        | 584.0 | 704.6  |
| 40                 | 0    | 164.8 |              |              |              | 257.3        | <b>317.6</b> | 377.9        | 438.2        | 498.5        | 558.8        | 679.4 | 800.0  |
|                    | 90   | 300.6 |              |              |              | 121.5        | <b>181.8</b> | 242.1        | 302.4        | 362.7        | 423.0        | 543.6 | 664.2  |
| 45                 | 0    | 187.4 |              |              |              |              | 295.0        | <b>355.3</b> | 415.6        | 475.9        | 536.2        | 656.7 | 777.3  |
|                    | 90   | 341.9 |              |              |              |              | 140.5        | <b>200.8</b> | 261.1        | 321.4        | 381.7        | 502.3 | 622.9  |
| 50                 | 0    | 210.5 |              |              |              |              |              | 332.2        | <b>392.5</b> | 452.8        | 513.1        | 633.7 | 754.3  |
|                    | 90   | 384.0 |              |              |              |              |              | 158.7        | <b>219.0</b> | 279.3        | 339.6        | 460.2 | 580.7  |
| 55                 | 0    | 234.1 |              |              |              |              |              |              | 368.9        | <b>429.2</b> | 489.5        | 610.1 | 730.7  |
|                    | 90   | 427.0 |              |              |              |              |              |              | 176.0        | <b>236.3</b> | 296.6        | 417.2 | 537.8  |
| 60                 | 0    | 258.1 |              |              |              |              |              |              |              | 405.2        | <b>465.5</b> | 586.1 | 706.7  |
|                    | 90   | 470.7 |              |              |              |              |              |              |              | 192.5        | <b>252.8</b> | 373.4 | 494.0  |
| <b>规格 DFPD-900</b> |      |       |              |              |              |              |              |              |              |              |              |       |        |
| 20                 | 0    | 99.2  | <b>206.9</b> | 283.5        | 360.0        | 436.6        | 513.1        | 589.7        | 666.2        | 742.8        | 819.3        | 972.4 | 1125.5 |
|                    | 90   | 181.6 | <b>124.6</b> | 201.1        | 277.6        | 354.2        | 430.7        | 507.3        | 583.8        | 660.4        | 736.9        | 890.0 | 1043.1 |
| 25                 | 0    | 125.5 | 180.7        | <b>257.3</b> | 333.8        | 410.3        | 486.9        | 563.4        | 640.0        | 716.5        | 793.1        | 946.2 | 1099.2 |
|                    | 90   | 229.6 | 76.5         | <b>153.1</b> | 229.6        | 306.2        | 382.7        | 459.3        | 535.8        | 612.4        | 688.9        | 842.0 | 995.1  |
| 30                 | 0    | 152.3 |              | 230.5        | <b>307.0</b> | 383.5        | 460.1        | 536.6        | 613.2        | 689.7        | 766.3        | 919.3 | 1072.4 |
|                    | 90   | 278.7 |              | 104.0        | <b>180.6</b> | 257.1        | 333.7        | 410.2        | 486.8        | 563.3        | 639.8        | 792.9 | 946.0  |
| 35                 | 0    | 179.6 |              |              | 279.6        | <b>356.2</b> | 432.7        | 509.3        | 585.8        | 662.3        | 738.9        | 892.0 | 1045.1 |
|                    | 90   | 328.8 |              |              | 130.5        | <b>207.0</b> | 283.6        | 360.1        | 436.7        | 513.2        | 589.7        | 742.8 | 895.9  |
| 40                 | 0    | 207.6 |              |              |              | 328.2        | <b>404.8</b> | 481.3        | 557.9        | 634.4        | 710.9        | 864.0 | 1017.1 |
|                    | 90   | 379.9 |              |              |              | 155.9        | <b>232.4</b> | 309.0        | 385.5        | 462.1        | 538.6        | 691.7 | 844.8  |
| 45                 | 0    | 236.1 |              |              |              |              | 376.2        | <b>452.8</b> | 529.3        | 605.9        | 682.4        | 835.5 | 988.6  |
|                    | 90   | 432.1 |              |              |              |              | 180.2        | <b>256.8</b> | 333.3        | 409.9        | 486.4        | 639.5 | 792.6  |
| 50                 | 0    | 265.2 |              |              |              |              |              | 423.7        | <b>500.3</b> | 576.8        | 653.3        | 806.4 | 959.5  |
|                    | 90   | 485.4 |              |              |              |              |              | 203.5        | <b>280.1</b> | 356.6        | 433.2        | 586.3 | 739.4  |
| 55                 | 0    | 294.8 |              |              |              |              |              |              | 470.6        | <b>547.1</b> | 623.7        | 776.8 | 929.9  |
|                    | 90   | 539.6 |              |              |              |              |              |              | 225.8        | <b>302.4</b> | 378.9        | 532.0 | 685.1  |
| 60                 | 0    | 325.1 |              |              |              |              |              |              |              | 516.9        | <b>593.5</b> | 746.5 | 899.6  |
|                    | 90   | 595.0 |              |              |              |              |              |              |              | 247.0        | <b>323.6</b> | 476.7 | 629.8  |

## - 注意

气缸的工作扭矩不得高于ISO 5211所列最大许用扭矩，以安装法兰和联轴器的规格为参考系。

## 技术参数

| 扭矩理论值 [Nm] 与工作压力 [bar] 和摆角 [°] 的关系 |      |       |            |       |       |       |       |       |       |        |        |       |       |
|------------------------------------|------|-------|------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|
| 弹簧配置                               | 额定摆角 | 弹簧扭矩  | 工作压力 [bar] |       |       |       |       |       |       |        |        |       |       |
|                                    | [°]  | [Nm]  | 2          | 2.5   | 3     | 3.5   | 4     | 4.5   | 5     | 5.5    | 6      | 7     | 8     |
| 规格 DFPD-1200                       |      |       |            |       |       |       |       |       |       |        |        |       |       |
| 20                                 | 0    | 146.4 | 278.9      | 385.2 | 491.5 | 597.8 | 704.1 | 810.5 | 916.8 | 1023.1 | 1129.4 | 1342  | 1554  |
|                                    | 90   | 243.8 | 181.5      | 287.8 | 394.1 | 500.4 | 606.7 | 713.0 | 819.3 | 925.7  | 1032.0 | 1244  | 1457  |
| 25                                 | 0    | 185.0 | 240.2      | 346.5 | 452.8 | 559.1 | 665.4 | 771.8 | 878.1 | 984.4  | 1090.7 | 1303  | 1515  |
|                                    | 90   | 308.2 | 117.0      | 223.3 | 329.7 | 436.0 | 542.3 | 648.6 | 754.9 | 861.2  | 967.5  | 1180  | 1392  |
| 30                                 | 0    | 224.6 |            | 307.0 | 413.3 | 519.6 | 625.9 | 732.2 | 838.5 | 944.9  | 1051.2 | 1263  | 1476  |
|                                    | 90   | 374.1 |            | 157.5 | 263.8 | 370.1 | 476.4 | 582.7 | 689.1 | 795.4  | 901.7  | 1114  | 1326  |
| 35                                 | 0    | 264.9 |            |       | 372.9 | 479.2 | 585.5 | 691.9 | 798.2 | 904.5  | 1010.8 | 1223  | 1436  |
|                                    | 90   | 441.3 |            |       | 196.6 | 302.9 | 409.2 | 515.5 | 621.8 | 728.1  | 834.4  | 1047  | 1259  |
| 40                                 | 0    | 306.2 |            |       |       | 438.0 | 544.3 | 650.6 | 757.0 | 863.3  | 969.6  | 1182  | 1394  |
|                                    | 90   | 510.0 |            |       |       | 234.2 | 340.5 | 446.8 | 553.2 | 659.5  | 765.8  | 978.4 | 1191  |
| 45                                 | 0    | 348.2 |            |       |       |       | 502.3 | 608.6 | 714.9 | 821.2  | 927.5  | 1140  | 1352  |
|                                    | 90   | 580.0 |            |       |       |       | 270.5 | 376.8 | 483.1 | 589.4  | 695.7  | 908.4 | 1121  |
| 50                                 | 0    | 391.1 |            |       |       |       |       | 565.7 | 672.0 | 778.3  | 884.6  | 1097  | 1309  |
|                                    | 90   | 651.5 |            |       |       |       |       | 305.3 | 411.7 | 518.0  | 624.3  | 836.9 | 1049  |
| 55                                 | 0    | 434.9 |            |       |       |       |       |       | 628.3 | 734.6  | 840.9  | 1053  | 1266  |
|                                    | 90   | 724.3 |            |       |       |       |       |       | 338.8 | 445.1  | 551.4  | 764.1 | 976.7 |
| 60                                 | 0    | 479.4 |            |       |       |       |       |       |       | 690.0  | 796.3  | 1008  | 1221  |
|                                    | 90   | 798.6 |            |       |       |       |       |       |       | 370.9  | 477.2  | 689.8 | 902.4 |
| 规格 DFPD-2300                       |      |       |            |       |       |       |       |       |       |        |        |       |       |
| 20                                 | 0    | 278.8 | 533.3      | 736.3 | 939.4 | 1142  | 1345  | 1548  | 1751  | 1954   | 2157   | 2563  | 2969  |
|                                    | 90   | 473.5 | 338.6      | 541.6 | 744.7 | 947.7 | 1150  | 1353  | 1556  | 1759   | 1962   | 2368  | 2774  |
| 25                                 | 0    | 352.5 | 459.6      | 662.6 | 865.7 | 1068  | 1271  | 1474  | 1677  | 1880   | 2083   | 2489  | 2895  |
|                                    | 90   | 598.7 | 213.4      | 416.4 | 619.5 | 822.5 | 1025  | 1228  | 1431  | 1634   | 1837   | 2243  | 2649  |
| 30                                 | 0    | 427.8 |            | 587.3 | 790.4 | 993.4 | 1196  | 1399  | 1602  | 1805   | 2008   | 2414  | 2820  |
|                                    | 90   | 726.6 |            | 288.5 | 491.6 | 694.6 | 897.6 | 1100  | 1303  | 1506   | 1709   | 2115  | 2521  |
| 35                                 | 0    | 504.7 |            |       | 713.5 | 916.5 | 1119  | 1322  | 1525  | 1728   | 1931   | 2337  | 2743  |
|                                    | 90   | 857.2 |            |       | 361.0 | 564.0 | 767.0 | 970.0 | 1173  | 1376   | 1579   | 1985  | 2391  |
| 40                                 | 0    | 583.2 |            |       |       | 838.0 | 1041  | 1244  | 1447  | 1650   | 1853   | 2259  | 2665  |
|                                    | 90   | 990.5 |            |       |       | 430.6 | 633.7 | 836.7 | 1039  | 1242   | 1445   | 1851  | 2257  |
| 45                                 | 0    | 663.3 |            |       |       |       | 960.9 | 1163  | 1367  | 1570   | 1773   | 2179  | 2585  |
|                                    | 90   | 1127  |            |       |       |       | 497.6 | 700.6 | 903.6 | 1106   | 1309   | 1715  | 2121  |
| 50                                 | 0    | 745.0 |            |       |       |       |       | 1082  | 1285  | 1488   | 1691   | 2097  | 2503  |
|                                    | 90   | 1265  |            |       |       |       |       | 561.8 | 764.9 | 967.9  | 1170   | 1577  | 1983  |
| 55                                 | 0    | 828.3 |            |       |       |       |       |       | 1201  | 1405   | 1608   | 2014  | 2420  |
|                                    | 90   | 1407  |            |       |       |       |       |       | 623.4 | 826.4  | 1029   | 1435  | 1841  |
| 60                                 | 0    | 913.2 |            |       |       |       |       |       |       | 1320   | 1523   | 1929  | 2335  |
|                                    | 90   | 1551  |            |       |       |       |       |       |       | 682.2  | 885.2  | 1291  | 1697  |

## - 注意

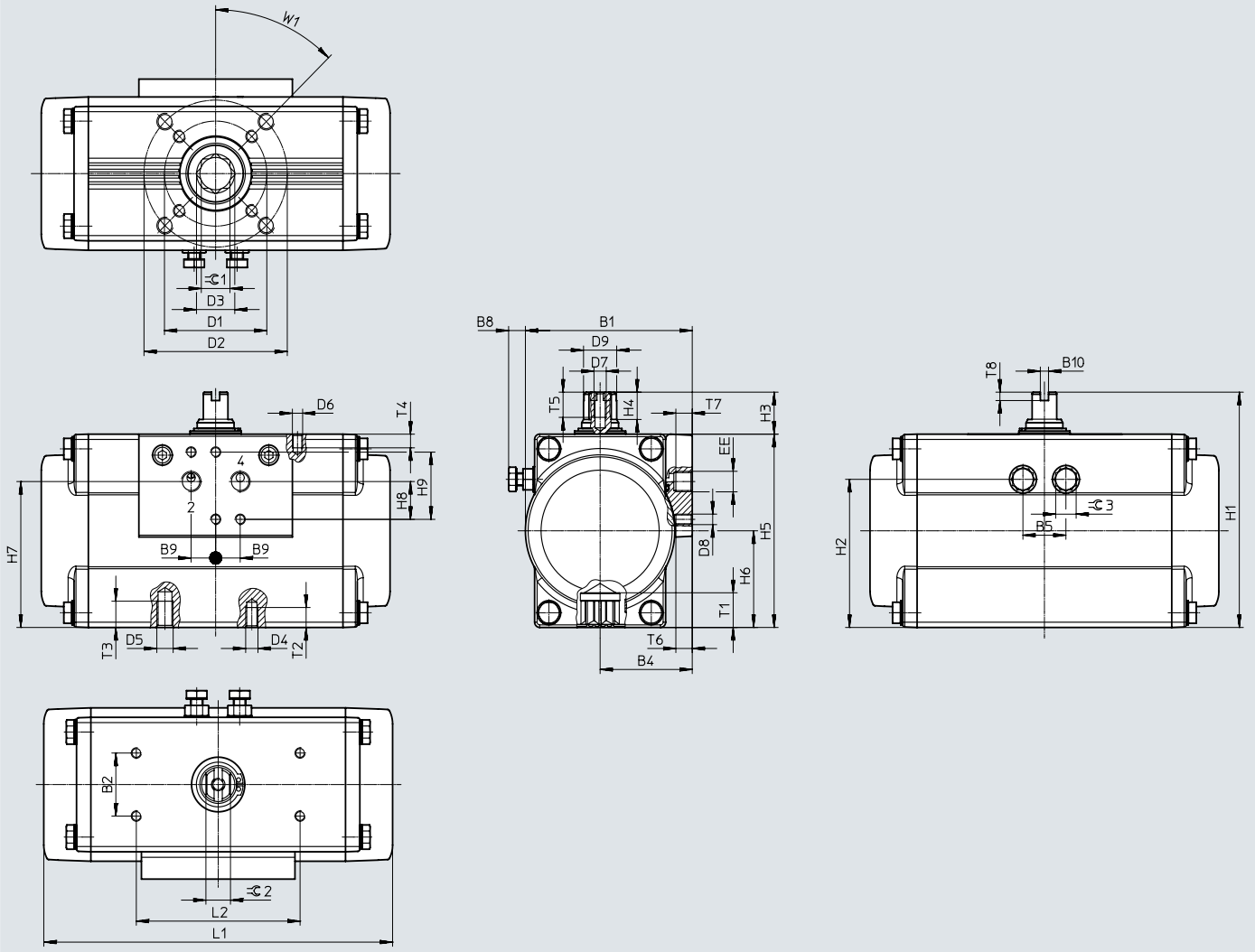
气缸的工作扭矩不得高于ISO 5211所列最大许用扭矩，以安装法兰和联轴器的规格为参考系。

技术参数

尺寸

规格: 20 ... 80

CAD 相关数据 → [www.festo.com](http://www.festo.com)



## 技术参数

| 型号            | B1   | B2   | B4   | B5 | B8   | B9 | B10  | D1<br>∅ | D2<br>∅ | D3<br>∅ | D4 | D5 | D6 |    |
|---------------|------|------|------|----|------|----|------|---------|---------|---------|----|----|----|----|
| [mm]          |      | ±0.1 |      |    | max. |    | +0.1 | ±0.1    | ±0.1    |         |    |    |    |    |
| DFPD-20-F03   | 68.5 | 30   | 38.5 | 19 | 9.2  | 12 | 4    | 36      | —       | 12      | M5 | —  | M5 |    |
| DFPD-20-F04   |      |      |      |    |      |    |      | 42      |         | 14.6    |    |    |    | M6 |
| DFPD-20-F05   |      |      |      |    |      |    |      | 50      |         |         |    |    |    |    |
| DFPD-40-F04   | 81.5 |      | 45   | 21 | 8.2  |    |      | 42      | 70      | 18.7    | M6 |    |    | M8 |
| DFPD-40-F0507 |      |      |      |    |      |    |      | 50      |         | 23.3    |    |    |    |    |
| DFPD-80-F0507 | 99   |      | 53   | 26 | 9    |    |      |         |         |         |    |    |    |    |

| 型号            | D7 | D8 | D9<br>∅ | EE                 | H1  | H2   | H3   | H4   | H5  | H6   | H7   | H8   | H9 |  |  |  |
|---------------|----|----|---------|--------------------|-----|------|------|------|-----|------|------|------|----|--|--|--|
| [mm]          |    |    | ±0.1    |                    |     |      | −0.5 | +0.1 |     | ±0.2 | ±0.3 | ±0.1 |    |  |  |  |
| DFPD-20-F03   | M6 | M5 | 12.7    | G1/8 or<br>1/8 NPT | 100 | 59.8 | 20   | 10   | 80  | 40   | 57.5 | 16   | 32 |  |  |  |
| DFPD-20-F04   |    |    |         |                    | 112 | 70.5 |      | 13   | 92  | 46   | 67.5 |      |    |  |  |  |
| DFPD-20-F05   |    |    |         |                    |     |      |      |      |     |      |      |      |    |  |  |  |
| DFPD-40-F04   |    |    | 16.2    |                    |     |      |      |      |     |      |      |      |    |  |  |  |
| DFPD-40-F0507 |    |    | 20.2    |                    | 130 | 86   |      |      | 110 | 55   | 86.5 |      |    |  |  |  |
| DFPD-80-F0507 |    |    |         |                    |     |      |      |      |     |      |      |      |    |  |  |  |

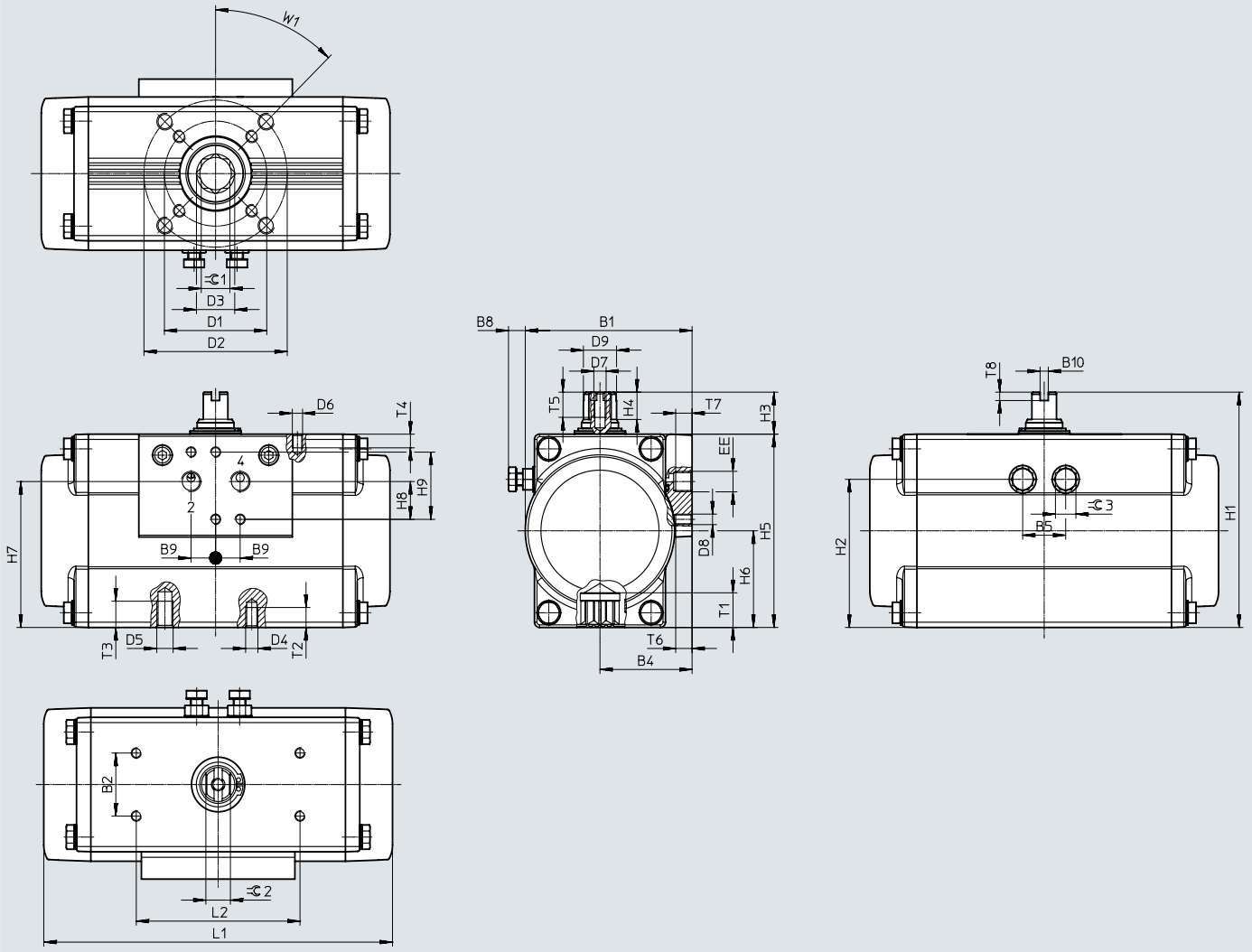
| 型号            | L1    | L2   | T1     | T2 | T3 | T4 | T5 | T6 | T7 | T8   | ≈C 1 | ≈C 2 | ≈C 3 | W1  |  |  |  |  |  |  |  |  |  |  |  |
|---------------|-------|------|--------|----|----|----|----|----|----|------|------|------|------|-----|--|--|--|--|--|--|--|--|--|--|--|
| [mm]          |       | ±0.1 | ±0.4   |    |    |    |    |    |    | +0.5 | H11  | h11  |      |     |  |  |  |  |  |  |  |  |  |  |  |
| DFPD-20-F03   | 145.7 | 80   | 10 min | 8  | —  | 8  | 12 | 8  | 8  | 4    | 9    | 9    | 10   | 45° |  |  |  |  |  |  |  |  |  |  |  |
| DFPD-20-F04   |       |      | 13.2   |    |    |    |    |    |    |      | 11   |      |      |     |  |  |  |  |  |  |  |  |  |  |  |
| DFPD-20-F05   |       |      |        |    |    |    |    |    |    |      |      |      |      |     |  |  |  |  |  |  |  |  |  |  |  |
| DFPD-40-F04   | 170.4 |      | 12 min | 8  | 12 |    |    |    |    |      | 14   | 12   |      |     |  |  |  |  |  |  |  |  |  |  |  |
| DFPD-40-F0507 |       |      | 16.5   | 9  |    |    |    |    |    |      |      |      |      |     |  |  |  |  |  |  |  |  |  |  |  |
| DFPD-80-F0507 | 223.1 |      | 19.3   | 17 |    |    |    |    |    |      | 15   | 13   |      |     |  |  |  |  |  |  |  |  |  |  |  |

技术参数

尺寸

规格: 120 ... 480

CAD 相关数据 → [www.festo.com](http://www.festo.com)



## 技术参数

| 型号             | B1    | B2   | B4   | B5 | B8   | B9 | B10 | D1<br>∅ | D2<br>∅ | D3<br>∅ | D4  | D5  | D6 |
|----------------|-------|------|------|----|------|----|-----|---------|---------|---------|-----|-----|----|
| [mm]           |       | ±0.1 |      |    | max. |    |     | ±0.1    | ±0.1    |         |     |     |    |
| DFPD-120-F0507 | 111.5 | 30   | 60.5 | 32 | 12.3 | 12 | 4   | 50      | 70      | 23.2    | M6  | M8  | M5 |
| DFPD-160-F0710 | 120   |      | 63.5 | 36 | 13.4 |    |     | 70      | 102     | 30      | M8  | M10 |    |
| DFPD-240-F0710 | 135.5 |      | 71.5 | 41 | 18.5 |    |     |         |         | 30.3    |     |     |    |
| DFPD-300-F0710 | 144   |      | 74.5 | 46 | 17   |    |     |         |         | 30      |     |     |    |
| DFPD-480-F1012 | 163   |      | 83   | 52 | 19.3 |    |     | 102     | 125     | 37.4    | M10 | M12 |    |

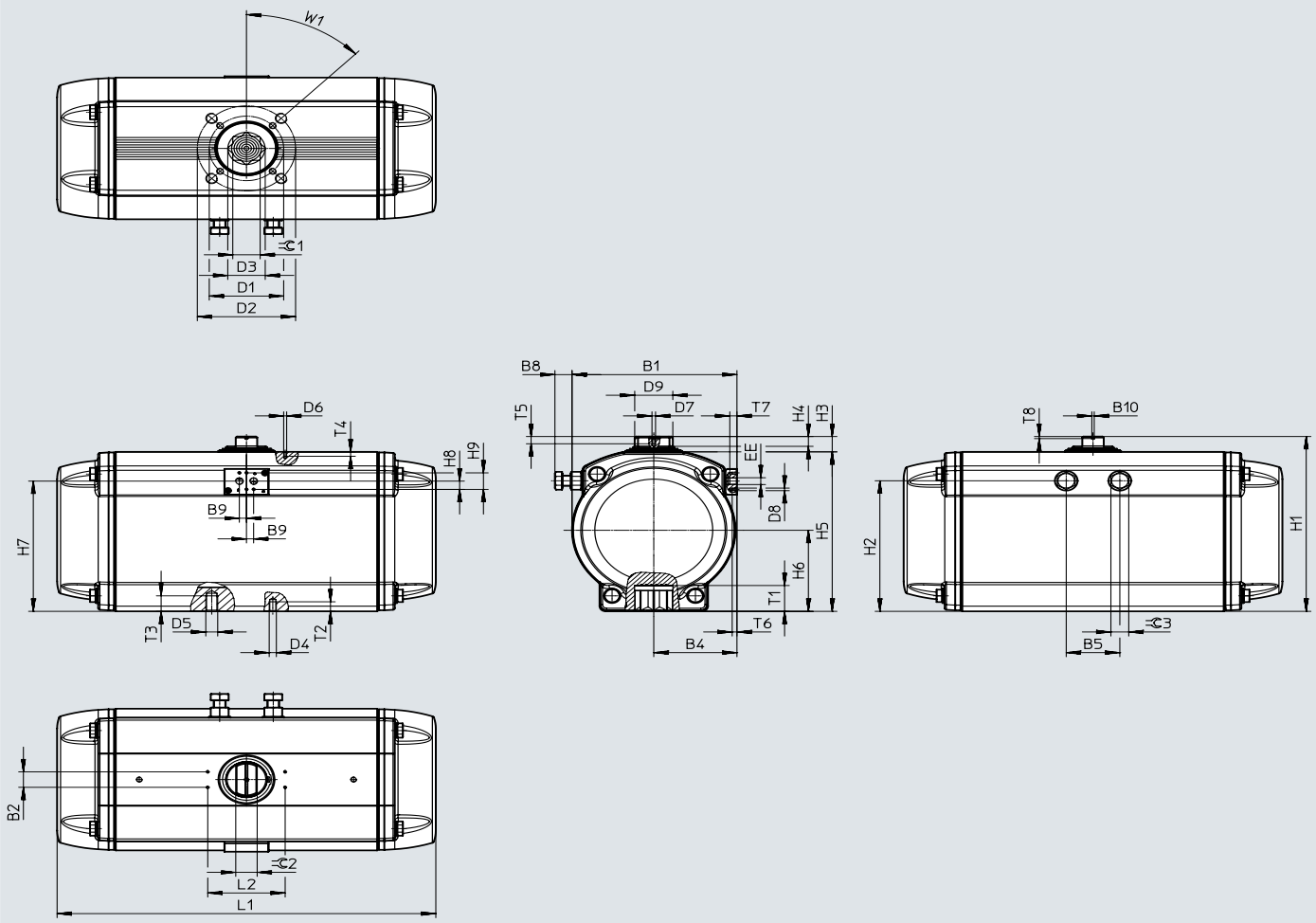
| 型号             | D7 | D8 | D9<br>∅ | EE                 | H1  | H2     | H3  | H4   | H5  | H6   | H7    | H8   | H9 |  |
|----------------|----|----|---------|--------------------|-----|--------|-----|------|-----|------|-------|------|----|--|
| [mm]           |    |    | ±0.1    |                    |     |        | 0.5 | +0.1 |     |      | ±0.3  | ±0.1 |    |  |
| DFPD-120-F0507 | M6 | M5 | 22.5    | G1/4 or<br>1/4 NPT | 143 | 97.75  | 20  | 13   | 123 | 61.5 | 98.4  | 16   | 32 |  |
| DFPD-160-F0710 |    |    | 25.5    |                    | 154 | 106.25 |     |      | 134 | 67   | 109.4 |      |    |  |
| DFPD-240-F0710 |    |    | 31.8    |                    | 180 | 120.5  | 30  | 19.5 | 150 | 75   | 120.2 |      |    |  |
| DFPD-300-F0710 |    |    |         |                    | 192 | 131    |     |      | 162 | 81   | 132.1 |      |    |  |
| DFPD-480-F1012 |    |    | 38      |                    | 214 | 149.5  |     |      | 184 | 92   | 152.5 |      |    |  |

| 型号             | L1    | L2   | T1   | T2 | T3 | T4 | T5 | T6 | T7 | T8   | ≈G 1 | ≈G 2 | ≈G 3 | W1  |    |  |  |  |  |
|----------------|-------|------|------|----|----|----|----|----|----|------|------|------|------|-----|----|--|--|--|--|
| [mm]           |       | ±0.1 | ±0.4 |    |    |    |    |    |    | +0.5 | H11  | h11  |      |     |    |  |  |  |  |
| DFPD-120-F0507 | 252.3 | 80   | 19.3 | 9  | 12 | 8  | 14 | 8  | 12 | 4    | 17   | 15   | 13   | 45° |    |  |  |  |  |
| DFPD-160-F0710 | 270.9 |      | 24.3 | 12 | 15 |    |    |    |    |      | 22   | 19   | 16   |     |    |  |  |  |  |
| DFPD-240-F0710 | 301.4 |      |      |    |    |    |    |    |    |      |      | 22   | 18   |     |    |  |  |  |  |
| DFPD-300-F0710 | 334.4 |      |      |    |    |    |    |    |    |      |      |      | 21   |     |    |  |  |  |  |
| DFPD-480-F1012 | 374.2 |      | 29.5 | 15 | 18 |    |    |    |    |      | 27   | 27   |      |     | 21 |  |  |  |  |

技术参数

尺寸 CAD 相关数据 → [www.festo.com](http://www.festo.com)

规格: 700 ... 2300



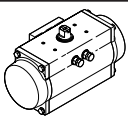
## 技术参数

| 型号<br>[mm]          | B1    | B2<br>±0.1 | B4    | B5   | B8<br>max. | B9 | B10<br>±0.1 | D1<br>∅ | D2<br>∅ | D3<br>∅ | D4  | D5  | D6 |
|---------------------|-------|------------|-------|------|------------|----|-------------|---------|---------|---------|-----|-----|----|
| DFPD-700-...-F1012  | 184   | 30         | 93    | 57.6 | 17.5       | 12 | 4           | 102     | 125     | 37.4    | M10 | M12 | M5 |
| DFPD-900-...-F1012  | 202   |            | 102   | 64.8 | 28.6       |    |             | 140     | —       | 50.1    | M16 | —   |    |
| DFPD-900-...-F14    |       |            |       |      |            |    |             | 102     | 125     | 37.4    | M10 | M12 |    |
| DFPD-1200-...-F1012 | 221.5 |            | 111.5 | 72   | 24         |    |             | 140     | —       | 50.1    | M16 | —   |    |
| DFPD-1200-...-F14   |       |            |       |      |            |    |             | 125     | 165     | 62.9    | M12 | M20 |    |
| DFPD-2300-...-F1216 | 277   |            | 139.8 | 90   | 33         |    |             | 140     | —       | 50.1    | M16 | —   |    |
| DFPD-2300-...-F14   |       |            |       |      |            |    |             |         |         |         |     |     |    |

| 型号<br>[mm]          | D7 | D8 | D9<br>∅<br>±0.1 | EE                 | H1    | H2  | H3   | H4 | H5  | H6  | H7    | H8<br>±0.1 | H9 |
|---------------------|----|----|-----------------|--------------------|-------|-----|------|----|-----|-----|-------|------------|----|
| DFPD-700-...-F1012  | M6 | M5 | 41              | G1/4 or<br>1/4 NPT | 232.7 | 168 | 29.7 | 21 | 203 | 103 | 164.9 | 16         | 32 |
| DFPD-900-...-F1012  |    |    | 44              |                    | 252.7 | 182 |      |    | 223 | 113 | 178.3 |            |    |
| DFPD-900-...-F14    |    |    |                 |                    |       |     |      |    |     |     |       |            |    |
| DFPD-1200-...-F1012 |    |    | 50              |                    | 275.7 | 204 |      |    | 246 | 125 | 199.6 |            |    |
| DFPD-1200-...-F14   |    |    |                 |                    |       |     |      |    |     |     |       |            |    |
| DFPD-2300-...-F1216 |    |    | 64              |                    | 338.7 | 253 |      |    | 309 | 157 | 252.3 |            |    |
| DFPD-2300-...-F14   |    |    |                 |                    |       |     |      |    |     |     |       |            |    |

| 型号                  | L1    | L2   | T1   | T2   | T3   | T4 | T5 | T6 | T7 | T8   | ≈C 1 | ≈C 2 | ≈C 3 | W1  |
|---------------------|-------|------|------|------|------|----|----|----|----|------|------|------|------|-----|
| [mm]                |       | ±0.1 | min. |      |      |    |    |    |    | +0.5 | H11  | h11  |      |     |
| DFPD-700-...-F1012  | 428.2 | 80   | 29.7 | 15   | 18   | 8  | 14 | 8  | 12 | 4    | 27   | 30   | 21   | 45° |
| DFPD-900-...-F1012  | 469.6 | 130  | 30.2 | 15.5 | 18.5 | 32 |    |    |    |      | 24   |      |      |     |
| DFPD-900-...-F14    |       |      | 40.2 | 24.5 | —    |    |    |    |    |      |      | 36   |      |     |
| DFPD-1200-...-F1012 | 519.3 |      | 31   | 15.5 | 18.5 | 27 |    |    |    |      | 36   |      |      |     |
| DFPD-1200-...-F14   |       |      | 40   | 24.5 | —    | 36 |    |    |    |      |      |      |      |     |
| DFPD-2300-...-F1216 |       |      | 50   | 18.5 | 30   | 46 |    |    |    |      |      |      |      |     |
| DFPD-2300-...-F14   | 636   |      | 40   | 24.5 | —    | 36 |    |    |    |      |      | 30   |      |     |

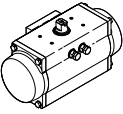
## ★ 核心产品范围

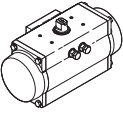
| 订货数据                                                                                |     |             |           |                           |
|-------------------------------------------------------------------------------------|-----|-------------|-----------|---------------------------|
| 型号                                                                                  | 规格  | 产品重量<br>[g] | 订货号       | 型号                        |
|  | 20  | 1419        | ★ 8047622 | DFPD-20-RP-90-RS60-F04    |
|                                                                                     | 40  | 2180        | ★ 8047624 | DFPD-40-RP-90-RS60-F0507  |
|                                                                                     | 80  | 3960        | ★ 8047626 | DFPD-80-RP-90-RS60-F0507  |
|                                                                                     | 120 | 5736        | ★ 8048134 | DFPD-120-RP-90-RS60-F0507 |
|                                                                                     | 160 | 7179        | ★ 8048136 | DFPD-160-RP-90-RS60-F0710 |
|                                                                                     | 240 | 10036       | ★ 8048138 | DFPD-240-RP-90-RS60-F0710 |
|                                                                                     | 300 | 12880       | ★ 8048140 | DFPD-300-RP-90-RS60-F0710 |
|                                                                                     | 480 | 18485       | ★ 8048142 | DFPD-480-RP-90-RS60-F1012 |

Festo 核心产品范围

- ★ 通常能从工厂快速备货发出
- ★ 通常能从工厂较快备货发出

## 技术参数

| 订货数据                                                                             |      |             |         |                            |
|----------------------------------------------------------------------------------|------|-------------|---------|----------------------------|
| 型号                                                                               | 规格   | 产品重量<br>[g] | 订货号     | 型号                         |
|  | 20   | 1371        | 8047644 | DFPD-20-RP-90-RS30-F03     |
|                                                                                  |      | 1419        | 8047645 | DFPD-20-RP-90-RS60-F03     |
|                                                                                  |      | 1371        | 8047621 | DFPD-20-RP-90-RS30-F04     |
|                                                                                  |      | 1371        | 8048014 | DFPD-20-RP-90-RS30-F05     |
|                                                                                  |      | 1419        | 8048015 | DFPD-20-RP-90-RS60-F05     |
|                                                                                  | 40   | 2087        | 8047635 | DFPD-40-RP-90-RS30-F04     |
|                                                                                  |      | 2180        | 8047636 | DFPD-40-RP-90-RS60-F04     |
|                                                                                  |      | 2087        | 8047623 | DFPD-40-RP-90-RS30-F0507   |
|                                                                                  | 80   | 3746        | 8047625 | DFPD-80-RP-90-RS30-F0507   |
|                                                                                  | 120  | 5422        | 8048133 | DFPD-120-RP-90-RS30-F0507  |
|                                                                                  | 160  | 6767        | 8048135 | DFPD-160-RP-90-RS30-F0710  |
|                                                                                  | 240  | 9442        | 8048137 | DFPD-240-RP-90-RS30-F0710  |
|                                                                                  | 300  | 12052       | 8048139 | DFPD-300-RP-90-RS30-F0710  |
|                                                                                  | 480  | 17261       | 8048141 | DFPD-480-RP-90-RS30-F1012  |
|                                                                                  | 700  | 26268       | 8065262 | DFPD-700-RP-90-RS60-F1012  |
|                                                                                  | 900  | 30395       | 8065266 | DFPD-900-RP-90-RS60-F14    |
|                                                                                  |      |             | 8084135 | DFPD-900-RP-90-RS60-F1012  |
|                                                                                  | 1200 | 43022       | 8065270 | DFPD-1200-RP-90-RS60-F14   |
|                                                                                  |      |             | 8084143 | DFPD-1200-RP-90-RS60-F1012 |
|                                                                                  | 2300 | 77884       | 8065274 | DFPD-2300-RP-90-RS60-F1216 |

| 订货数据                                                                               |      |             |         |                                  |
|------------------------------------------------------------------------------------|------|-------------|---------|----------------------------------|
| 型号                                                                                 | 规格   | 产品重量<br>[g] | 订货号     | 型号                               |
| 派生型 EP, 环氧树脂涂层                                                                     |      |             |         |                                  |
|  | 20   | 1371        | 8047646 | DFPD-20-RP-90-RS30-F03-R3-EP     |
|                                                                                    |      | 1419        | 8047647 | DFPD-20-RP-90-RS60-F03-R3-EP     |
|                                                                                    |      | 1371        | 8047627 | DFPD-20-RP-90-RS30-F04-R3-EP     |
|                                                                                    |      | 1419        | 8047628 | DFPD-20-RP-90-RS60-F04-R3-EP     |
|                                                                                    |      | 1371        | 8048016 | DFPD-20-RP-90-RS30-F05-R3-EP     |
|                                                                                    |      | 1419        | 8048017 | DFPD-20-RP-90-RS60-F05-R3-EP     |
|                                                                                    | 40   | 2087        | 8047642 | DFPD-40-RP-90-RS30-F04-R3-EP     |
|                                                                                    |      | 2180        | 8047643 | DFPD-40-RP-90-RS60-F04-R3-EP     |
|                                                                                    |      | 2087        | 8047629 | DFPD-40-RP-90-RS30-F0507-R3-EP   |
|                                                                                    |      | 2180        | 8047630 | DFPD-40-RP-90-RS60-F0507-R3-EP   |
|                                                                                    | 80   | 3746        | 8047631 | DFPD-80-RP-90-RS30-F0507-R3-EP   |
|                                                                                    |      | 3960        | 8047632 | DFPD-80-RP-90-RS60-F0507-R3-EP   |
|                                                                                    | 120  | 5422        | 8048143 | DFPD-120-RP-90-RS30-F0507-R3-EP  |
|                                                                                    |      | 5736        | 8048144 | DFPD-120-RP-90-RS60-F0507-R3-EP  |
|                                                                                    | 160  | 6767        | 8048145 | DFPD-160-RP-90-RS30-F0710-R3-EP  |
|                                                                                    |      | 7179        | 8048146 | DFPD-160-RP-90-RS60-F0710-R3-EP  |
|                                                                                    | 240  | 9442        | 8048147 | DFPD-240-RP-90-RS30-F0710-R3-EP  |
|                                                                                    |      | 10036       | 8048148 | DFPD-240-RP-90-RS60-F0710-R3-EP  |
|                                                                                    | 300  | 12052       | 8048149 | DFPD-300-RP-90-RS30-F0710-R3-EP  |
|                                                                                    |      | 12880       | 8048150 | DFPD-300-RP-90-RS60-F0710-R3-EP  |
|                                                                                    | 480  | 17261       | 8048151 | DFPD-480-RP-90-RS30-F1012-R3-EP  |
|                                                                                    |      | 18485       | 8048152 | DFPD-480-RP-90-RS60-F1012-R3-EP  |
|                                                                                    | 700  | 26268       | 8065264 | DFPD-700-RP-90-RS60-F1012-R3-EP  |
|                                                                                    | 900  | 30395       | 8065268 | DFPD-900-RP-90-RS60-F14-R3-EP    |
|                                                                                    |      |             | 8084137 | DFPD-900-RP-90-RS60-F1012-R3-EP  |
|                                                                                    | 1200 | 43022       | 8065272 | DFPD-1200-RP-90-RS60-F14-R3-EP   |
|                                                                                    |      |             | 8084145 | DFPD-1200-RP-90-RS60-F1012-R3-EP |
|                                                                                    | 2300 | 77884       | 8065276 | DFPD-2300-RP-90-RS60-F1216-R3-EP |

## 订货数据 – 模块化产品系统，规格 10 ... 80

| 订货表规格  |        |                | 10                 | 20             | 40             | 80             | 条件  | 代码          | 输入代码 |
|--------|--------|----------------|--------------------|----------------|----------------|----------------|-----|-------------|------|
| 模块订货号  |        |                | <b>8042184</b>     | <b>8042185</b> | <b>8042186</b> | <b>8042187</b> |     |             |      |
| 功能     |        |                | 角行程驱动器，基于 ISO 5211 |                |                |                |     | <b>DFPD</b> | DFPD |
| 单位制    | 公制     |                |                    |                |                |                |     |             |      |
|        | 英制     |                |                    |                |                |                |     | <b>-N</b>   |      |
| 派生型规格  | 标准     |                |                    |                |                |                |     |             |      |
|        | 10     |                |                    | -              | -              | -              |     | <b>-10</b>  |      |
|        | 20     |                | -                  |                | -              | -              |     | <b>-20</b>  |      |
|        | 40     |                | -                  | -              |                | -              |     | <b>-40</b>  |      |
|        | 80     |                | -                  | -              | -              |                |     | <b>-80</b>  |      |
| 结构特点   |        |                | 齿轮齿条               |                |                |                |     | <b>-RP</b>  | -RP  |
| 拨叉     |        |                | 无                  |                |                |                |     |             |      |
| 摆角     | 90°    |                |                    |                |                |                |     | <b>-90</b>  |      |
|        | 180°   |                | -                  | -              |                | -              |     | <b>-180</b> |      |
| 摆动方向   | 左      |                |                    |                |                |                |     | <b>-L</b>   |      |
|        | 右      |                |                    |                |                |                |     | <b>-R</b>   |      |
| 功能     | 双作用    |                |                    |                |                |                |     | <b>D</b>    |      |
|        | 单作用    |                | -                  |                |                |                | [1] | ☆ <b>S</b>  |      |
| 弹簧配置   | 无      |                |                    |                |                |                |     |             |      |
|        | 连接压力   | 2 bar          |                    |                |                |                | [5] | <b>20</b>   |      |
|        |        | 2.5 bar        |                    |                |                |                | [5] | <b>25</b>   |      |
|        |        | 3 bar          |                    |                |                |                | [5] | <b>30</b>   |      |
|        |        | 3.5 bar        |                    |                |                |                | [5] | <b>35</b>   |      |
|        |        | 4 bar          |                    |                |                |                | [5] | <b>40</b>   |      |
|        |        | 4.5 bar        |                    |                |                |                | [5] | <b>45</b>   |      |
|        |        | 5 bar          |                    |                |                |                | [5] | <b>50</b>   |      |
|        |        | 5.5 bar        |                    |                |                |                | [5] | <b>55</b>   |      |
|        |        | 6 bar          |                    |                |                |                | [5] | ☆ <b>60</b> |      |
| 法兰孔型 1 | 孔型     | F03            |                    |                | -              | -              |     | <b>-F03</b> |      |
|        |        | F04            |                    |                |                | -              |     | <b>-F04</b> |      |
|        |        | F05            | -                  |                |                |                |     | <b>-F05</b> |      |
| 法兰孔型 2 | 无      |                |                    |                |                |                |     |             |      |
|        | 孔型     | 07             | -                  | -              |                |                | [6] | <b>07</b>   |      |
| 手控装置   |        |                | 无                  |                |                |                |     |             |      |
| 温度范围   | 标准     |                |                    |                |                |                |     |             |      |
|        |        | 0 ... +150 °C  | -                  | -              |                |                |     | <b>-T4</b>  |      |
|        |        | -50 ... +60 °C | -                  | -              |                |                |     | <b>-T6</b>  |      |
| 阀杆材料   | 标准     |                |                    |                |                |                |     |             |      |
|        | 不锈钢    |                |                    |                |                |                | [8] | <b>-R3</b>  |      |
| 壳体表面处理 | 无      |                |                    |                |                |                |     |             |      |
|        | 环氧树脂涂层 |                |                    |                |                |                | [4] | <b>-EP</b>  |      |

- [1] **S** 不能组合摆角 180°  
 [4] **EP** 仅可组合阀杆材料 -R3  
 [5] **20, 25, 30, 35, 40, 45, 50, 55, 60** 不能组合双作用气缸(DD)。必选数值，组合单作用 (S)  
 [6] **07** 必选数值，组合（扭矩）40 Nm, 80 Nm, 120 Nm  
 [8] **R3** 必选数值，组合（缸体表面处理）环氧树脂涂层 -EP

## 订货数据 – 模块化产品系统，规格 120 ... 480

| 订货表<br>规格 |      | 120                | 160            | 240            | 300            | 480            | 条件  | 代码            | 输入代码 |
|-----------|------|--------------------|----------------|----------------|----------------|----------------|-----|---------------|------|
| 模块订货号     |      | <b>8042188</b>     | <b>8042189</b> | <b>8042190</b> | <b>8042191</b> | <b>8042192</b> |     |               |      |
| 功能        |      | 角行程驱动器，基于 ISO 5211 |                |                |                |                |     | <b>DFPD</b>   | DFPD |
| 单位制       | 公制   |                    |                |                |                |                |     |               |      |
|           | 英制   |                    |                |                |                |                |     | <b>-N</b>     |      |
| 派生型<br>规格 | 标准   |                    |                |                |                |                |     |               |      |
|           | 120  |                    | -              | -              | -              | -              |     | <b>-120</b>   |      |
|           | 160  | -                  |                | -              | -              | -              |     | ★ <b>-160</b> |      |
|           | 240  | -                  | -              |                | -              | -              |     | ★ <b>-240</b> |      |
|           | 300  | -                  | -              | -              |                | -              |     | ★ <b>-300</b> |      |
|           | 480  | -                  | -              | -              | -              |                |     | ★ <b>-480</b> |      |
| 结构特点      | 齿轮齿条 |                    |                |                |                |                |     | <b>-RP</b>    | -RP  |
| 拨叉        | 无    |                    |                |                |                |                |     |               |      |
| 摆角        | 90°  |                    |                |                |                |                |     | <b>-90</b>    |      |
|           | 180° |                    | -              |                | -              |                |     | <b>-180</b>   |      |
| 摆动方向      | 左    |                    |                |                |                |                |     | <b>-L</b>     |      |
|           | 右    |                    |                |                |                |                |     | <b>-R</b>     |      |
| 功能        | 双作用  |                    |                |                |                |                |     | <b>D</b>      |      |
|           | 单作用  |                    |                |                |                |                | [1] | ★ <b>S</b>    |      |
| 弹簧配置      | 无    |                    |                |                |                |                |     |               |      |
|           | 连接压力 | 2 bar              |                |                |                |                | [5] | <b>20</b>     |      |
|           |      | 2.5 bar            |                |                |                |                | [5] | <b>25</b>     |      |
|           |      | 3 bar              |                |                |                |                | [5] | <b>30</b>     |      |
|           |      | 3.5 bar            |                |                |                |                | [5] | <b>35</b>     |      |
|           |      | 4 bar              |                |                |                |                | [5] | <b>40</b>     |      |
|           |      | 4.5 bar            |                |                |                |                | [5] | <b>45</b>     |      |
|           |      | 5 bar              |                |                |                |                | [5] | <b>50</b>     |      |
|           |      | 5.5 bar            |                |                |                |                | [5] | <b>55</b>     |      |
|           |      | 6 bar              |                |                |                |                | [5] | ★ <b>60</b>   |      |

[1] S

不能组合摆角 180°

[5] 20, 25, 30, 35, 40, 45, 50, 55, 60

不能组合双作用气缸(DD)，必选数据，组合单作用(S)



## 订货数据 – 模块化产品系统，规格 120 ... 480

| 订货表<br>规格 |                |     | 120 | 160 | 240 | 300 | 480 | 条件  | 代码     | 输入代码 |
|-----------|----------------|-----|-----|-----|-----|-----|-----|-----|--------|------|
| 法兰孔型 1    | 孔型             | F05 |     | –   | –   | –   | –   |     | -F05   |      |
|           |                | F07 | –   |     |     |     | –   |     | ★ -F07 |      |
|           |                | F10 | –   | –   | –   | –   |     |     | ★ -F10 |      |
| 法兰孔型 2    | 标准             |     | –   | –   | –   | –   | –   |     |        |      |
|           | 孔型             | F07 |     | –   | –   | –   | –   | [6] | 07     |      |
|           |                | F10 | –   |     |     |     | –   |     | ★ 10   |      |
|           |                | F12 | –   | –   | –   | –   |     |     | ★ 12   |      |
| 手控装置      | 无              |     |     |     |     |     |     |     |        |      |
| 温度范围      | 标准             |     |     |     |     |     |     |     |        |      |
|           | 0 ... +150 °C  |     |     |     |     |     |     |     | -T4    |      |
|           | –50 ... +60 °C |     |     |     |     |     |     |     | -T6    |      |
| 阀杆材料      | 标准             |     |     |     |     |     |     |     |        |      |
|           | 不锈钢            |     |     |     |     |     |     | [8] | -R3    |      |
| 壳体表面处理    | 无              |     |     |     |     |     |     |     |        |      |
|           | 环氧树脂涂层         |     |     |     |     |     |     | [4] | -EP    |      |

[4] **EP** 仅可组合阀杆材料 -R3[6] **07** 必选数值，组合（扭矩）40 Nm, 80 Nm, 120 Nm[8] **R3** 必选数值，组合（缸体表面处理）环氧树脂涂层 -EP

## 订货数据 – 模块化产品系统，规格 700 ... 2300

| 订货表<br>规格 |        | 700                | 900            | 1200           | 2300           | 条件   | 代码           | 输入代码 |
|-----------|--------|--------------------|----------------|----------------|----------------|------|--------------|------|
| 模块订货号     |        | <b>8042193</b>     | <b>8042194</b> | <b>8042195</b> | <b>8042196</b> |      |              |      |
| 功能        |        | 角行程驱动器，基于 ISO 5211 |                |                |                |      | <b>DFPD</b>  | DFPD |
| 单位制       | 公制     |                    |                |                |                |      |              |      |
|           | 英制     |                    |                |                |                |      | <b>-N</b>    |      |
| 派生型       | 标准     |                    |                |                |                |      |              |      |
| 规格        | 700    |                    | -              | -              | -              |      | <b>-700</b>  |      |
|           | 900    | -                  |                | -              | -              |      | <b>-900</b>  |      |
|           | 1200   | -                  | -              |                | -              |      | <b>-1200</b> |      |
|           | 2300   | -                  | -              | -              |                |      | <b>-2300</b> |      |
| 结构特点      | 齿轮齿条   |                    |                |                |                |      | <b>-RP</b>   | -RP  |
| 拨叉        | 无      |                    |                |                |                |      |              |      |
| 摆角        | 90°    |                    |                |                |                |      | <b>-90</b>   |      |
| 摆动方向      | 左      |                    |                |                |                |      | <b>-L</b>    |      |
|           | 右      |                    |                |                |                |      | <b>-R</b>    |      |
| 功能        | 双作用    |                    |                |                |                |      | <b>D</b>     |      |
|           | 单作用    |                    |                |                |                |      | <b>S</b>     |      |
| 弹簧配置      | 无      |                    |                |                |                |      |              |      |
|           | 连接压力   | 2 bar              |                |                |                | [5]  | <b>20</b>    |      |
|           |        | 2.5 bar            |                |                |                | [5]  | <b>25</b>    |      |
|           |        | 3 bar              |                |                |                | [5]  | <b>30</b>    |      |
|           |        | 3.5 bar            |                |                |                | [5]  | <b>35</b>    |      |
|           |        | 4 bar              |                |                |                | [5]  | <b>40</b>    |      |
|           |        | 4.5 bar            |                |                |                | [5]  | <b>45</b>    |      |
|           |        | 5 bar              |                |                |                | [5]  | <b>50</b>    |      |
|           |        | 5.5 bar            |                |                |                | [5]  | <b>55</b>    |      |
|           |        | 6 bar              |                |                |                | [5]  | <b>60</b>    |      |
| 法兰孔型 1    | 孔型     | F10                |                |                | -              |      | <b>-F10</b>  |      |
|           |        | F12                | -              | -              |                |      | <b>-F12</b>  |      |
|           |        | F14                | -              |                |                |      | <b>-F14</b>  |      |
| 法兰孔型 2    | 无      |                    |                |                |                |      |              |      |
|           | 孔型     | F12                |                |                | -              | [2]  | <b>12</b>    |      |
|           |        | F16                | -              | -              |                | [15] | <b>16</b>    |      |
| 手控装置      | 无      |                    |                |                |                |      |              |      |
| 温度范围      | 标准     |                    |                |                |                |      |              |      |
| 阀杆材料      | 标准     |                    |                |                |                |      |              |      |
|           | 不锈钢    |                    |                |                |                | [8]  | <b>-R3</b>   |      |
| 壳体表面处理    | 无      |                    |                |                |                |      |              |      |
|           | 环氧树脂涂层 |                    |                |                |                | [4]  | <b>-EP</b>   |      |

[2] **12** 必选数据，组合（法兰孔型 1）孔型 F10 (-F10)。不能组合（法兰孔型 1）孔型 F14 (-F14)

[4] **EP** 仅可组合阀杆材料 -R3

[5] **20, 25, 30, 35, 40, 45, 50, 55, 60** 不能组合双作用气缸(DD)。必选数值，组合单作用(S)

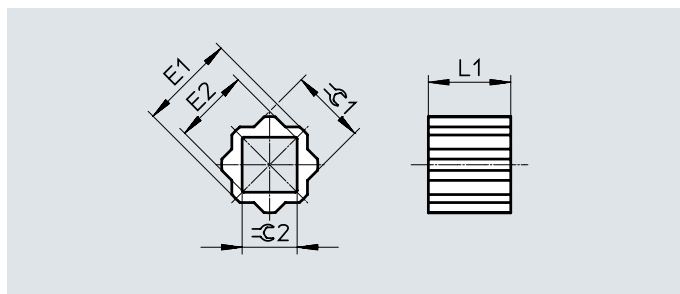
[8] **R3** 必选数值，组合（缸体表面处理）环氧树脂涂层 -EP

[15] **16** 必选数据，组合（法兰孔型 1）孔型 F12 (-F12)。不能组合（法兰孔型 1）孔型 F14 (-F14)

## 附件

## 变径套 DARQ

- 接口 1,  
功能: 驱动输出
- 接口 2,  
功能: 出口变径
- 材料:  
烧结不锈钢
- RoHS 合规
- 含油漆湿润缺陷物质



| DARQ-RA-... | E1<br>+0.1/-0.3 | E2<br>+0.3/-0.1 | L1<br>$\pm 0.2$ | $\approx C1$<br>-0.02/-0.12 | $\approx C2$<br>+0.04/+0.18 |
|-------------|-----------------|-----------------|-----------------|-----------------------------|-----------------------------|
| S11-S8-...  | 14              | 11              | 12              | 11                          | 8                           |
| S11-S9-...  | 14              | 12.3            | 11              | 11                          | 9                           |
| S14-S8-...  | 18              | 11              | 16              | 14                          | 8                           |
| S14-S9-...  | 18              | 12.3            | 16              | 14                          | 9                           |
| S14-S10-... | 18              | 13.3            | 16              | 14                          | 10                          |
| S14-S11-... | 18              | 14.3            | 16              | 14                          | 11                          |
| S14-S12-... | 18              | 16.3            | 16              | 14                          | 12                          |
| S17-S8-...  | 22              | 11              | 17              | 17                          | 8                           |
| S17-S11-... | 22              | 14.3            | 17              | 17                          | 11                          |
| S17-S12-... | 22              | 16.3            | 17              | 17                          | 12                          |
| S17-S14-... | 22              | 18.3            | 17              | 17                          | 14                          |
| S22-S11-... | 28              | 14.3            | 22              | 22                          | 11                          |
| S22-S14-... | 28              | 18.3            | 22              | 22                          | 14                          |
| S22-S16-... | 28              | 21.3            | 22              | 22                          | 16                          |
| S22-S17-... | 28              | 22.3            | 22              | 22                          | 17                          |
| S27-S17-... | 36              | 22.3            | 27              | 27                          | 17                          |
| S27-S22-... | 36              | 28.5            | 27              | 27                          | 22                          |
| S36-S27-... | 48              | 36.1            | 36              | 36                          | 27                          |
| S46-S36-... | 59              | 48              | 46              | 46                          | 36                          |

## 附件

| 订货数据     |            |      |            |                   |             |         |                         |                  |
|----------|------------|------|------------|-------------------|-------------|---------|-------------------------|------------------|
| 结构特点     | 接口<br>驱动输出 | 变径输出 | 长度<br>[mm] | CRC <sup>1)</sup> | 每件重量<br>[g] | 订货号     | 型号                      | PU <sup>2)</sup> |
| 方形内口，外八角 | SW11       | SW8  | 12         | 2                 | 7           | 8082116 | DARQ-R-A-S11-S8-12      | 1                |
|          | SW11       | SW9  | 11         |                   | 5           | 8082117 | DARQ-R-A-S11-S9-11      |                  |
|          | SW14       | SW8  | 16         |                   | 20          | 8086383 | DARQ-R-A-S14-S8-16      |                  |
|          | SW14       | SW9  | 16         |                   | 18          | 8082118 | DARQ-R-A-S14-S9-16      |                  |
|          | SW14       | SW10 | 16         |                   | 16          | 8082119 | DARQ-R-A-S14-S10-16     |                  |
|          | SW14       | SW11 | 16         |                   | 13          | 8082120 | DARQ-R-A-S14-S11-16     |                  |
|          | SW14       | SW12 | 16         |                   | 10          | 8082121 | DARQ-R-A-S14-S12-16     |                  |
|          | SW17       | SW8  | 17         |                   | 36          | 8086384 | DARQ-R-A-S17-S8-17      |                  |
|          | SW17       | SW11 | 17         |                   | 29          | 8082122 | DARQ-R-A-S17-S11-17     |                  |
|          | SW17       | SW12 | 17         |                   | 25          | 8086385 | DARQ-R-A-S17-S12-17     |                  |
|          | SW17       | SW14 | 17         |                   | 19          | 8082123 | DARQ-R-A-S17-S14-17     |                  |
|          | SW22       | SW11 | 22         |                   | 75          | 8086386 | DARQ-R-A-S22-S11-22     |                  |
|          | SW22       | SW14 | 22         |                   | 62          | 8082124 | DARQ-R-A-S22-S14-22     |                  |
|          | SW22       | SW16 | 22         |                   | 52          | 8082125 | DARQ-R-A-S22-S16-22     |                  |
|          | SW22       | SW17 | 22         |                   | 46          | 8082126 | DARQ-R-A-S22-S17-22     |                  |
|          | SW27       | SW17 | 27         |                   | 121         | 8086387 | DARQ-R-A-S27-S17-27     |                  |
|          | SW27       | SW22 | 27         |                   | 80          | 8082127 | DARQ-R-A-S27-S22-27     |                  |
|          | SW36       | SW27 | 36         |                   | 215         | 8082128 | DARQ-R-A-S36-S27-36     |                  |
|          | SW46       | SW36 | 46         |                   | 410         | 8082129 | DARQ-R-A-S46-S36-46     |                  |
|          | SW11       | SW8  | 12         |                   | 35          | 8082130 | DARQ-R-A-S11-S8-12-P5   | 5                |
|          | SW11       | SW9  | 11         |                   | 25          | 8082131 | DARQ-R-A-S11-S9-11-P5   |                  |
|          | SW14       | SW8  | 16         |                   | 100         | 8086388 | DARQ-R-A-S14-S8-16-P5   |                  |
|          | SW14       | SW9  | 16         |                   | 90          | 8082132 | DARQ-R-A-S14-S9-16-P5   |                  |
|          | SW14       | SW11 | 16         |                   | 65          | 8082133 | DARQ-R-A-S14-S11-16-P5  |                  |
|          | SW17       | SW11 | 17         |                   | 145         | 8082134 | DARQ-R-A-S17-S11-17-P5  |                  |
|          | SW17       | SW12 | 17         |                   | 125         | 8086389 | DARQ-R-A-S17-S12-17-P5  |                  |
|          | SW17       | SW14 | 17         |                   | 95          | 8082135 | DARQ-R-A-S17-S14-17-P5  |                  |
|          | SW22       | SW14 | 22         |                   | 310         | 8082136 | DARQ-R-A-S22-S14-22-P5  |                  |
|          | SW22       | SW17 | 22         |                   | 230         | 8082137 | DARQ-R-A-S22-S17-22-P5  |                  |
|          | SW27       | SW22 | 27         |                   | 400         | 8082138 | DARQ-R-A-S27-S22-27-P5  |                  |
|          | SW36       | SW27 | 36         |                   | 1075        | 8082139 | DARQ-R-A-S36-S27-36-P5  |                  |
|          | SW11       | SW9  | 11         |                   | 50          | 8082140 | DARQ-R-A-S11-S9-11-P10  | 10               |
|          | SW14       | SW9  | 16         |                   | 180         | 8082141 | DARQ-R-A-S14-S9-16-P10  |                  |
|          | SW14       | SW11 | 16         |                   | 130         | 8082142 | DARQ-R-A-S14-S11-16-P10 |                  |
|          | SW17       | SW14 | 17         |                   | 190         | 8082143 | DARQ-R-A-S17-S14-17-P10 |                  |
|          | SW22       | SW17 | 22         |                   | 460         | 8082144 | DARQ-R-A-S22-S17-22-P10 | 50               |
|          | SW11       | SW9  | 11         |                   | 250         | 8082145 | DARQ-R-A-S11-S9-11-P50  |                  |
|          | SW14       | SW9  | 16         |                   | 900         | 8082146 | DARQ-R-A-S14-S9-16-P50  |                  |
|          | SW14       | SW11 | 16         |                   | 650         | 8082147 | DARQ-R-A-S14-S11-16-P50 |                  |
|          | SW17       | SW11 | 17         |                   | 1450        | 8082148 | DARQ-R-A-S17-S11-17-P50 |                  |
|          | SW22       | SW17 | 22         |                   | 2300        | 8082149 | DARQ-R-A-S22-S17-22-P50 |                  |

1) 耐腐蚀等级 2，符合 Festo FN 940 070 标准

中度耐腐蚀能力。有可能会产生冷凝水的应用场合。用于表面装饰要求的外部可视件，与典型的工业应用场合环境气候直接接触。

2) 包装单位数量