

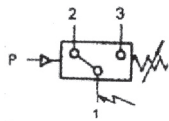
压力控制器 / 防爆型压力控制器  
Pressure Controller / Explosive-proof pressure controller

D500/7D、D500/7DK / D500/7D 系列  
D500/7D、D500/7DK / D500/7D series

P-114

D500/7D、D500 / 7DK 系列  
压力控制器

D500/7D、D500 / 7DK series  
Pressure Controller

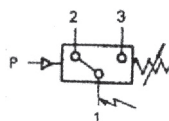


单刀双掷微动开关作用过程  
Mechanism of single-pole double-throw microswitch(SPDT-MSW )  
接线端 1-3  
Terminal 1-3  
压力上升至上切换值时接通  
Connect when the pressure rises to the up-switching values.  
接线端 1-2  
Terminal 1-2  
压力上升至上切换值时断开  
Cut when the pressure rises to the up-switching values.

控制器采用膜片式传感器。可用于空气等中性气体和水，液压油，  
润滑油、轻燃油等液体介质。控制器的设定值可调，调节范围 0……  
2.5MPa

D500 / 7D 系列  
防爆型压力控制器

D500/7D series  
Explosive-proof pressure controller



单刀双掷微动开关作用过程  
Mechanism of single-pole double-throw microswitch(SPDT-MSW )  
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Connect when the pressure rises to the up-switching values.  
接线端 1-2  
Terminal 1-2  
压力上升至上切换值时断开  
Cut when the pressure rises to the up-switching values.

Controller uses a diaphragm sensor,for air, neutral gas and liquid medium  
such as hydraulic oil,lubricating oil,light fuel oil etc.,controller settings are  
adjustable





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P-115

## 压力控制器 / 防爆型压力控制器

Pressure Controller / Explosive-proof pressure controller

D500/7D、D500/7DK / D500/7D 系列  
D500/7D、D500/7DK / D500/7D series

### 主要技术性能

### Basic mechanical design feature

|                                       | 普通型 Conventional type                                         | 防爆型 Explosion proof type                                      |
|---------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| 工作粘度 Viscosity                        | $<1 \times 10^{-3} \text{m}^2/\text{s}$                       | $<1 \times 10^{-3} \text{m}^2/\text{s}$                       |
| 开关元件 switching elements               | 微动开关 Micro switch                                             | 微动开关 Micro switch                                             |
| 防爆等级 Explosion-proof Dgree            | ——                                                            | Exed II CT5~T6 合格证编号 Certificate GYB081516X                   |
| 外壳防护等级 Degree of enclosure protection | IP65( 符合 DIN40050, 与 GB4208 中 IP65 相当 )                       | IP65( 符合 DIN40050, 与 GB4208 中 IP65 相当 )                       |
| 环境温度 Environmental temperature        | -5~40℃                                                        | -5~40℃                                                        |
| 介质温度 Medium temperature               | 0~90℃                                                         | 0~90℃                                                         |
| 安装位置 Installation location            |                                                               | 压力接口垂直向下 Directly below                                       |
| 抗振性能 Resistance to shock              | D500 / 7D: 40ms <sup>2</sup><br>D500 / 7DK: 20ms <sup>2</sup> | Max: 20m /s <sup>2</sup>                                      |
| 重复性误差 Repeatability error             | ≤1.5%                                                         | ≤1.5%                                                         |
| 触点容量 Contact capacity                 | AC220V 6A( 阻性 )                                               | DC 250V 0.25A( 阻性 )60 Wmax<br>AC 250V 5A(I~II 性 1 1 250 Vamax |

### 规格

### Standard

- D500/7D 切换差不可调 D500/7D switch difference is not adjustable

| 设定值调节范围<br>MPa(kPa)<br>Seted value<br>adjustment                    | 切换差不大于<br>Cut-over value Less than                   |                                                      | 最大允许<br>压力 *<br>Mpa (kPa)<br>Max<br>allowable | 开关切<br>换次数 / 分<br>Cut-over<br>times of<br>switchs | 压力传感<br>器材料<br>Pressure transmitter<br>material |                               | 接口<br>内螺纹<br>Interface<br>Inner  | 重量<br>weight<br>kg           | 外形 尺寸 图号<br>Overall dimension<br>Size<br>Drawing No |                               | 订货目录编号<br>Ordering Catalog No            |                                          |
|---------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-------------------------------------------------|-------------------------------|----------------------------------|------------------------------|-----------------------------------------------------|-------------------------------|------------------------------------------|------------------------------------------|
|                                                                     | 设定值范围下限<br>MPa(kPa)<br>lower limit of seted<br>value | 设定值范围上限<br>MPa(kPa)<br>upper limit of<br>seted value |                                               |                                                   | 外壳<br>Cover                                     | 膜片<br>Diaphragm               |                                  |                              | 普通型<br>Ordinary                                     | 防爆型<br>Explosive              | 普通型<br>Ordinary<br>Type                  | 普通型<br>Explosive-<br>proof               |
|                                                                     |                                                      |                                                      |                                               |                                                   |                                                 |                               |                                  |                              |                                                     |                               |                                          |                                          |
|                                                                     |                                                      |                                                      |                                               |                                                   |                                                 |                               |                                  |                              |                                                     |                               |                                          |                                          |
| (0.....2.5)<br>(0.....6)<br>(0.....16)<br>(0.....25)                | (0.3)<br>(0.4)<br>(0.4)<br>(0.4)                     | (0.4)<br>(0.6)<br>(0.8)<br>(0.9)                     | (50)<br>(50)<br>(50)<br>(50)                  | 10                                                | Ly12                                            | 丁晴<br>橡胶<br>Nitrile<br>rubber | G1/4"<br>G1/4"<br>G1/4"<br>G1/4" | 1.0<br>1.0<br>1.0<br>1.0     | 01<br>01<br>01<br>01                                | 04<br>04<br>04<br>04          | 0812200<br>0812500<br>0812700<br>0812800 | 0852280<br>0852580<br>0852780<br>0852880 |
| 0.005.....0.06<br>0.005.....0.1<br>0.005.....0.16<br>0.005.....0.25 | 0.003<br>0.003<br>0.003<br>0.004                     | 0.006<br>0.009<br>0.012<br>0.015                     | 1.5<br>1.5<br>1.5<br>1.5                      | 40                                                | 黄铜<br>copper                                    |                               | G1/4"<br>G1/4"<br>G1/4"<br>G1/4" | 1.15<br>1.15<br>1.15<br>1.15 | 02<br>02<br>02<br>02                                | 05<br>05<br>05<br>05          | 0814100<br>0814200<br>0814300<br>0814400 | 0854180<br>0854280<br>0854380<br>0854480 |
| 0.03.....0.4<br>0.03.....0.6<br>0.05.....1                          | 0.02<br>0.03<br>0.03                                 | 0.04<br>0.05<br>0.06                                 | 4<br>4<br>4                                   |                                                   |                                                 | G1/4"<br>G1/4"<br>G1/4"       | 0.85<br>0.85<br>0.85             | 03<br>03<br>03               | 06<br>06<br>06                                      | 0814500<br>0814600<br>0814700 | 0854580<br>0854680<br>0854780            |                                          |
| 0.11.....1.6<br>0.1.....2.5                                         | 0.04<br>0.04                                         | 0.12<br>0.15                                         | 5<br>5                                        |                                                   |                                                 | G1/4"<br>G1/4"                | 0.85<br>0.85                     | 03<br>03                     | 06<br>06                                            | 0814800<br>0814900            | 0854880<br>0854980                       |                                          |

压力控制器 / 防爆型压力控制器

Pressure Controller / Explosive-proof pressure controller

D500/7D、D500/7DK / D500/7D 系列

D500/7D、D500/7DK / D500/7D series

P-116

- D500/7D 切换差可调 D500/7D switch difference is adjustable

| 设定值调节范围<br>MPa(kPa)<br>Seted value<br>adjustment                    | 切换差不大于<br>Cut-over value Less than                                  |                                                                     | 最大允许<br>压力·<br>Mpa (kPa)<br>Max<br>allowable | 开关切<br>换次数 / 分<br>Cut-over<br>times of<br>switchs | 压力传感<br>器材料<br>Pressure transmitter<br>material |                               | 接口<br>内螺纹<br>Interface<br>Inner  | 重量<br>weight<br>kg           | 外形 尺寸 图号<br>Overall dimension<br>Size<br>Drawing No |                               | 订货目录编号<br>Ordering Catalog No            |                                          |
|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|-------------------------------------------------|-------------------------------|----------------------------------|------------------------------|-----------------------------------------------------|-------------------------------|------------------------------------------|------------------------------------------|
|                                                                     | 设定值范围下限<br>MPa(kPa)<br>lower limit of seted<br>value                | 设定值范围上限<br>MPa(kPa)<br>upper limit of<br>seted value                |                                              |                                                   | 外壳<br>Cover                                     | 膜片<br>Diaphragm               |                                  |                              | 普通型<br>Ordinary                                     | 防爆型<br>Explosive              | 普通型<br>Ordinary                          | 防爆型<br>Explosive                         |
|                                                                     |                                                                     |                                                                     |                                              |                                                   |                                                 |                               |                                  |                              |                                                     |                               |                                          |                                          |
| (0.....2.5)<br>(0.....6)<br>(0.....16)<br>(0.....25)                | (0.8.....2.5)<br>(0.9.....4)<br>(1.1.....12)<br>(1.1.....20)        | (1.1.....2.5)<br>(1.5.....4)<br>(2.3.....12)<br>(2.8.....20)        | (50)<br>(50)<br>(50)<br>(50)                 | 10                                                | Ly12                                            | 丁晴<br>橡胶<br>Nitrile<br>rubber | G1/4"<br>G1/4"<br>G1/4"<br>G1/4" | 1.05<br>1.05<br>1.05<br>1.05 | 01<br>01<br>01<br>01                                | 04<br>04<br>04<br>04          | 0802200<br>0802500<br>0802700<br>0802800 | 0842280<br>0842580<br>0842780<br>0842880 |
| 0.005.....0.06<br>0.005.....0.1<br>0.005.....0.16<br>0.005.....0.25 | 0.009.....0.05<br>0.011.....0.05<br>0.013.....0.12<br>0.014.....0.2 | 0.016.....0.05<br>0.018.....0.08<br>0.025.....0.12<br>0.025.....0.2 | 1.5<br>1.5<br>1.5<br>1.5                     | 40                                                | 黄铜<br>copper                                    |                               | G1/4"<br>G1/4"<br>G1/4"<br>G1/4" | 1.20<br>1.20<br>1.20<br>1.20 | 02<br>02<br>02<br>02                                | 05<br>05<br>05<br>05          | 0804100<br>0804200<br>0804300<br>0804400 | 0844180<br>0844280<br>0844380<br>0844480 |
| 0.03.....0.4<br>0.03.....0.6<br>0.05.....1                          | 0.05.....0.2<br>0.06.....0.4<br>0.06.....0.6                        | 0.08.....0.2<br>0.1.....0.4<br>0.11.....0.6                         | 4<br>4<br>4                                  |                                                   |                                                 | G1/4"<br>G1/4"<br>G1/4"       | 0.9<br>0.9<br>0.9                | 03<br>03<br>03               | 06<br>06<br>06                                      | 0804500<br>0804600<br>0804700 | 0844580<br>0844680<br>0844780            |                                          |
| 0.1.....1.6<br>0.1.....2.5                                          | 0.12.....1.2<br>0.12.....2                                          | 0.25.....1.2<br>0.33.....2                                          | 5<br>5                                       |                                                   |                                                 | G1/4"<br>G1/4"                | 0.9<br>0.9                       | 03<br>03                     | 06<br>06                                            | 0804800<br>0804900            | 0844880<br>0844980                       |                                          |

- D500/7D K 切换差不可调 (小切换差, 无防爆型)

D500/7DK switch difference is not adjustable(small switch difference, no explosion-proof type)

| 设定值调节范围<br>MPa(kPa)<br>Seted value<br>adjustment                    | 切换差不大于                                                |                                                      | 最大允许<br>压力 *<br>Mpa (kPa)<br>Max<br>allowable | 开关切<br>换次数 / 分<br>Cut-over<br>times of<br>switchs | 压力传感<br>器材料<br>Pressure transmitter<br>material |                               | 接口<br>内螺纹<br>Interface<br>Inner  | 重量<br>weight<br>kg           | 外形 尺寸 图号<br>Overall dimension<br>Size<br>Drawing No | 订货目录编号<br>Ordering Catalog No            |
|---------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-------------------------------------------------|-------------------------------|----------------------------------|------------------------------|-----------------------------------------------------|------------------------------------------|
|                                                                     | 设定值范围下 限<br>MPa(kPa)<br>lower limit of seted<br>value | 设定值范围上限<br>MPa(kPa)<br>upper limit of seted<br>value |                                               |                                                   | 外壳<br>Cover                                     | 膜片<br>Diaphragm               |                                  |                              |                                                     |                                          |
|                                                                     |                                                       |                                                      |                                               |                                                   |                                                 |                               |                                  |                              |                                                     |                                          |
| (0.....2.5)<br>(0.....6)<br>(0.....16)<br>(0.....25)                | (0.15)<br>(0.18)<br>(0.2)<br>(0.25)                   | (0.2)<br>(0.45)<br>(0.5)<br>(0.6)                    | (50)<br>(50)<br>(50)<br>(50)                  | 10                                                | Ly12                                            | 丁腈<br>橡胶<br>Nitrile<br>rubber | G1/4"<br>G1/4"<br>G1/4"<br>G1/4" | 1.0<br>1.0<br>1.0<br>1.0     | 01<br>01<br>01<br>01                                | 0812207<br>0812507<br>0812707<br>0812807 |
| 0.005.....0.06<br>0.005.....0.1<br>0.005.....0.16<br>0.005.....0.25 | 0.002<br>0.002<br>0.0025<br>0.0025                    | 0.004<br>0.006<br>0.0075<br>0.01                     | 1.5<br>1.5<br>1.5<br>1.5                      | 40                                                | 黄铜<br>copper                                    |                               | G1/4"<br>G1/4"<br>G1/4"<br>G1/4" | 1.15<br>1.15<br>1.15<br>1.15 | 02<br>02<br>02<br>02                                | 0814107<br>0814207<br>0814307<br>0814407 |
| 0.03.....0.4<br>0.03.....0.6<br>0.05.....1                          | 0.015<br>0.015<br>0.018                               | 0.02<br>0.02<br>0.038                                | 4<br>4<br>4                                   |                                                   |                                                 |                               | G1/4"<br>G1/4"<br>G1/4"          | 0.85<br>0.85<br>0.85         | 03<br>03<br>03                                      | 0814507<br>0814607<br>0814707            |
| 0.1.....1.6<br>0.1.....2.5                                          | 0.02<br>0.08                                          | 0.08<br>0.1                                          | 5<br>5                                        |                                                   |                                                 |                               | G1/4"<br>G1/4"                   | 0.85<br>0.85                 | 03<br>03                                            | 0814807<br>0814907                       |

注: \* 在实际工作中, 即使短暂的压力峰值也不能超过此值  
Note: even instant pressure peak value can't exceed this value in actual operation



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P-117

## 压力控制器 / 防爆型压力控制器 Pressure Controller / Explosive-proof pressure controller

D500/7D、D500/7DK / D500/7D 系列  
D500/7D、D500/7DK / D500/7D series

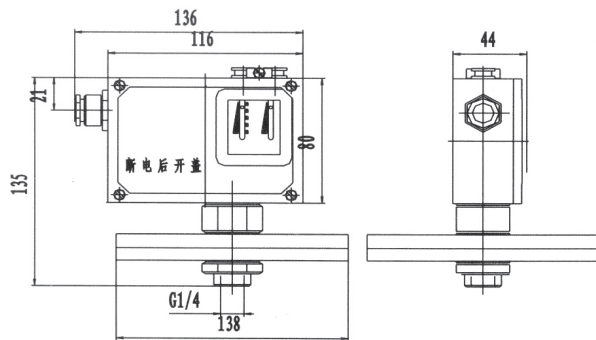
设定值的调整 ( 详见压力控制器设定值的调整 )

Adjustment of the seted value ( see the adjustment of pressure controller seted value )

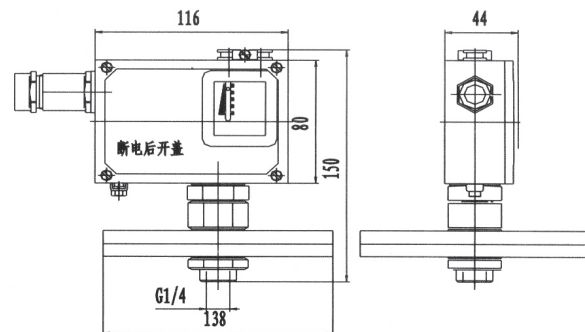
外形及安装尺寸 ( 普通型 )  
Overall dimension and installation size (ordinary )

( 防爆型 ) 单位: mm  
explosion-proof

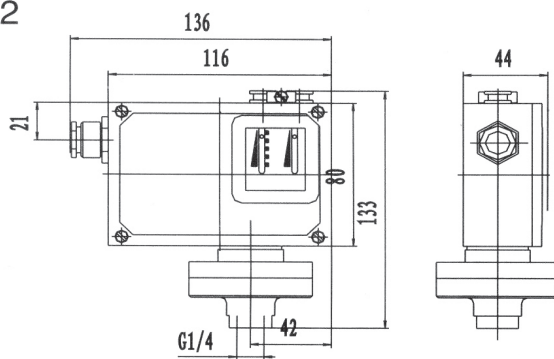
01



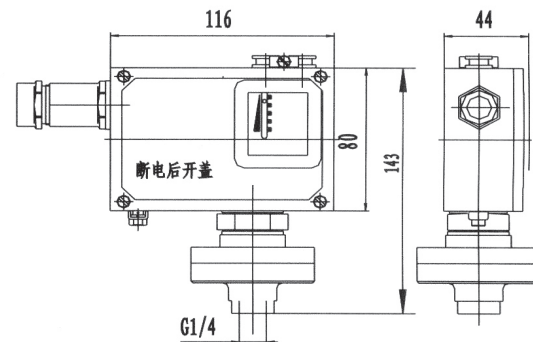
04



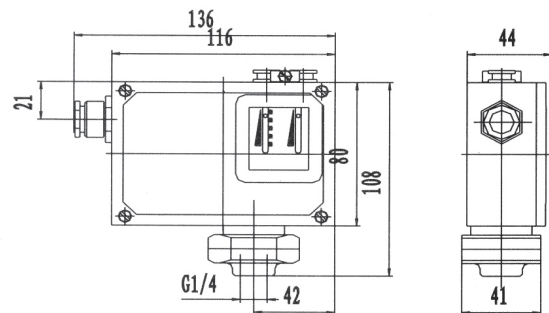
02



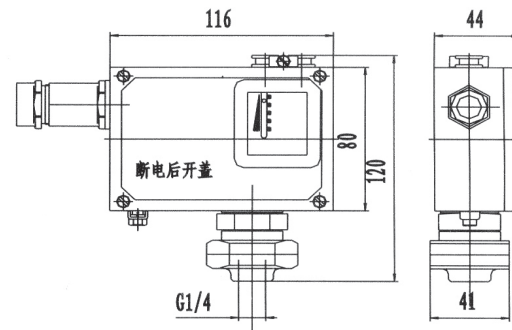
05



03



06



### 附件 Attachment

可供选用附件目录编号 ( the attachment catalog no for selection ) :  
0574767, 0574773  
0574772, 0574771  
Sc5 • 470 • 505

订货目录编号为 ( Order catalog No is ) : 0802200 至 0802800  
0812200 至 0812800  
0812207 至 0812807)

0852280 至 0852880

0842280 至 0842880

的低压控制器用订货目录编号为 0574771 的安装支架, 其余用 0574772。

选用和安装 ( 详见控制器的安装和选用 )

Selection and installation ( see the installation and selection of controller )

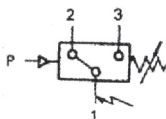
压力控制器 / 防爆型压力控制器  
Pressure Controller / Explosive-proof pressure controller

D502/7D、D502/7DK / D502/7D 系列  
D502/7D、D502/7DK / D502/7D series

P-118

D502/7D、D502 / 7DK 系列  
压力控制器

D502/7D、D502 / 7DK 系列  
Pressure Controller

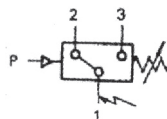


单刀双掷微动开关作用过程  
Mechanism of single-pole double-throw microswitch(SPDT-MSW)  
接线端 1-3  
Junction Terminal  
压力上升至上切换值时接通  
when the pressure is increasing to the upper switching value , it is through  
接线端 1-2  
Junction terminal  
压力上升至上切换值时断开  
When the pressure is increasing to upper switching value , it is off

控制器采用波纹管式传感器。部分规格传感器外壳材料是不锈钢，可用于腐蚀性介质，也可用于空气、气体，水蒸气等中性气体和致冷剂、油等液体介质。控制器的设定值可调，调节范围 -0.1……2.5MPa。

D502 / 7D 系列  
防爆型压力控制器

D502 / 7D 系列  
Explosive-proof pressure controller



单刀双掷微动开关作用过程  
Mechanism of single-pole double-throw microswitch(SPDT-MSW)  
接线端 1-3  
Junction Terminal  
压力上升至上切换值时接通  
when the pressure is increasing to the upper switching value , it is through  
接线端 1-2  
Junction terminal  
压力上升至上切换值时断开  
When the pressure is increasing to upper switching value , it is off

The controller is adopted bellow type transmitter , and can be Used to measure the neutral gas such as air , water steam , and liquid such as water, cryogen, oil etc. The seted value of controller is adjustable , the adjusted range is 0……2.5Mpa





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P-119

## 压力控制器 / 防爆型压力控制器

Pressure Controller / Explosive-proof pressure controller

D502/7D、D502/7DK / D502/7D 系列

D502/7D、D502/7DK / D502/7D series

### 主要技术性能

### Basic mechanical design feature

|                                       | 普通型 Conventional type                                       | 防爆型 Explosion proof type                                      |
|---------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|
| 工作粘度 working viscosity                | $<1 \times 10^{-3} \text{m}^2/\text{s}$                     | $<1 \times 10^{-3} \text{m}^2/\text{s}$                       |
| 开关元件 switching element                | 微动开关 Micro switch                                           | 微动开关 Micro switch                                             |
| 防爆等级 explosive-proof grade            | —                                                           | Exed II CT4~T6 合格证编号 GYB081516X                               |
| 外壳防护等级 degree of enclosure protection | IP65(符合 DIN40050, 与 GB4208 中 IP65 相当)                       | IP65(符合 DIN40050, 与 GB4208 中 IP65 相当)                         |
| 环境温度 environment temperature          | -40~50℃                                                     | -40~50℃                                                       |
| 介质温度 medium temperature               | 0~120℃                                                      | 0~120℃                                                        |
| 安装位置 installation site                |                                                             | 压力接口垂直向下 directly below                                       |
| 抗振性能 resistance to shock              | D502 / 7D: $40\text{m/s}^2$<br>D502 / 7DK: $20\text{m/s}^2$ | Max: $20\text{m/s}^2$                                         |
| 重复性误差 repeatability error             | $\leq 1\%$                                                  | $\leq 1\%$                                                    |
| 触点容量 contact capacity                 | AC220V 6A(阻性)                                               | DC 250V 0.25A(阻性) 60 Wmax<br>AC 250V 5A(I~II 性) 1 1 250 Vamax |

### 特点

### Characteristic

可用于真空。

For Vacuum

### 规格

### Standard

- D502/7D 切换差不可调

| 设定值调节范围<br>MPa<br>Seted value<br>adjustment  | 切换差不大于<br>Cut-over value Less than              |                                                 | 最大允许<br>压力 *<br>Mpa<br>Max<br>allowable | 开关切<br>换次数 / 分<br>Cut-over<br>times of<br>switchs | 压力传感<br>器材料<br>Pressure transmitter<br>material |                                    | 接口<br>内螺纹<br>Interface<br>Inner  | 重量<br>weight<br>kg       | 外形 尺寸 图号<br>Overall dimension<br>Size<br>Drawing No |                      | 订货目录编号<br>Ordering Catalog No             |                                          |
|----------------------------------------------|-------------------------------------------------|-------------------------------------------------|-----------------------------------------|---------------------------------------------------|-------------------------------------------------|------------------------------------|----------------------------------|--------------------------|-----------------------------------------------------|----------------------|-------------------------------------------|------------------------------------------|
|                                              | 设定值范围下限<br>MPa<br>lower limit of seted<br>value | 设定值范围上限<br>MPa<br>upper limit of<br>seted value |                                         |                                                   | 外壳<br>Cover                                     | 波纹管                                |                                  |                          | 普通型<br>Ordinary                                     | 防爆型<br>Explosive     | 普通型<br>Ordinary<br>Type                   | 防爆型<br>Explosive-<br>proof               |
|                                              |                                                 |                                                 |                                         |                                                   |                                                 |                                    |                                  |                          |                                                     |                      |                                           |                                          |
| -0.1~0<br>-0.1~0.1<br>-0.1~0.16<br>-0.1~0.25 | 0.006<br>0.007<br>0.008<br>0.009                | 0.007<br>0.008<br>0.009<br>0.012                | 1<br>1<br>1<br>1                        | 20                                                | 黄铜<br>copper                                    | 不锈钢<br>00Gr17Ni<br>14M02<br>(316L) | G1/4"<br>G1/4"<br>G1/4"<br>G1/4" | 1.0<br>1.0<br>1.0<br>1.0 | 01<br>01<br>01<br>01                                | 04<br>04<br>04<br>04 | 08100100<br>0810200<br>0810300<br>0810400 | 0850180<br>0850280<br>0850380<br>0850480 |
| 0~0.1<br>0~0.16<br>0.01~0.25                 | 0.007<br>0.008<br>0.009                         | 0.008<br>0.009<br>0.01                          | 1<br>1<br>1<br>1                        |                                                   |                                                 |                                    | G1/4"<br>G1/4"<br>G1/4"          | 1.0<br>1.0<br>1.0        | 01<br>01<br>01                                      | 04<br>04<br>04       | 0811100<br>0811200<br>0811300             | 0851180<br>0851280<br>0851380            |
| 0.02~0.4<br>0.03~0.6<br>0.03~1               | 0.03<br>0.03<br>0.03                            | 0.03<br>0.035<br>0.04                           | 2<br>2<br>2                             |                                                   |                                                 |                                    | G1/4"<br>G1/4"<br>G1/4"          | 0.85<br>0.85<br>0.85     | 02<br>02<br>02                                      | 05<br>05<br>05       | 0811400<br>0811500<br>0811600             | 0851480<br>0851580<br>0851680            |
| 0.05~1.6<br>0.05~2.5                         | 0.07<br>0.07                                    | 0.08<br>0.09                                    | 5<br>5                                  |                                                   |                                                 |                                    | G1/4"<br>G1/4"                   | 0.9<br>0.9               | 03<br>03                                            | 06<br>06             | 0811700<br>0811800                        | 0851780<br>0851880                       |

压力控制器 / 防爆型压力控制器

Pressure Controller / Explosive-proof pressure controller

D502/7D、D502/7DK / D502/7D 系列

D502/7D、D502/7DK / D502/7D series

P-120

- D502/7D 切换差可调 D502/7D switch difference is adjustable

| 设定值调节范围<br>MPa<br>Seted value<br>adjustment                  | 切换差不大于<br>Cut-over value Less than                                |                                                            | 最大允许<br>压力 *<br>Mpa<br>Max<br>allowable | 开关切<br>换次数 / 分<br>Cut-over<br>times of<br>switches | 压力传感<br>器材料<br>Pressure transmitter<br>material |                                                                      | 接口<br>内螺纹<br>Interface<br>Inner | 重量<br>weight<br>kg | 外形 尺寸 图号<br>Overall dimension<br>Size<br>Drawing No |                  | 订货目录编号<br>Ordering Catalog No |                  |
|--------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|---------------------------------|--------------------|-----------------------------------------------------|------------------|-------------------------------|------------------|
|                                                              | 设定值范围下限<br>MPa<br>lower limit of seted<br>value                   | 设定值范围上限<br>MPa<br>upper limit of<br>seted value            |                                         |                                                    | 外壳<br>Cover                                     | 波纹管                                                                  |                                 |                    | 普通型<br>Ordinary                                     | 防爆型<br>Explosive | 普通型<br>Ordinary               | 防爆型<br>Explosive |
|                                                              |                                                                   |                                                            |                                         |                                                    |                                                 |                                                                      |                                 |                    |                                                     |                  |                               |                  |
| -0.1.....0<br>-0.1.....0.1<br>-0.1.....0.16<br>-0.1.....0.25 | 0.018.....0.08<br>0.019.....0.1<br>0.02.....0.2<br>0.022.....0.25 | 0.019...0.08<br>0.021...0.1<br>0.022...0.2<br>0.024...0.25 | 1<br>1<br>1<br>1                        | 20                                                 | Ly12                                            | 不锈钢<br>stainless<br>steel<br>00Ga17Ni<br>14MO <sup>2</sup><br>(316L) | G1/4"                           | 1.05               | 01                                                  | 04               | 0800100                       | 0840180          |
|                                                              |                                                                   |                                                            |                                         |                                                    |                                                 |                                                                      | G1/4"                           | 1.05               | 01                                                  | 04               | 0800200                       | 0840280          |
|                                                              |                                                                   |                                                            |                                         |                                                    |                                                 |                                                                      | G1/4"                           | 1.05               | 01                                                  | 04               | 0800300                       | 0840380          |
|                                                              |                                                                   |                                                            |                                         |                                                    |                                                 |                                                                      | G1/4"                           | 1.05               | 01                                                  | 04               | 0800400                       | 0840480          |
| 0.....0.1<br>0.....0.16<br>0.001.....0.25                    | 0.015.....0.08<br>0.018.....0.1<br>0.02.....0.2                   | 0.016...0.08<br>0.02...0.1<br>0.024...0.2                  | 1.5<br>1.5<br>1.5<br>1.5                | 20                                                 | 黄铜<br>copper                                    |                                                                      | G1/4"                           | 1.05               | 01                                                  | 04               | 0801100                       | 0841180          |
|                                                              |                                                                   |                                                            |                                         |                                                    |                                                 |                                                                      | G1/4"                           | 1.05               | 01                                                  | 04               | 0801200                       | 0841280          |
|                                                              |                                                                   |                                                            |                                         |                                                    |                                                 |                                                                      | G1/4"                           | 1.05               | 01                                                  | 04               | 0801300                       | 0841380          |
|                                                              |                                                                   |                                                            |                                         |                                                    |                                                 |                                                                      |                                 |                    |                                                     |                  |                               |                  |
| 0.02.....0.4<br>0.03.....0.6<br>0.03.....1                   | 0.08...0.25<br>0.08...0.5<br>0.09...0.8                           | 0.08...0.25<br>0.09...0.5<br>0.1...0.8                     | 2<br>2<br>2                             |                                                    |                                                 |                                                                      | G1/4"                           | 0.9                | 02                                                  | 05               | 0801400                       | 0841480          |
|                                                              |                                                                   |                                                            |                                         |                                                    |                                                 |                                                                      | G1/4"                           | 0.9                | 02                                                  | 05               | 0801500                       | 0841580          |
|                                                              |                                                                   |                                                            |                                         |                                                    |                                                 |                                                                      | G1/4"                           | 0.9                | 02                                                  | 05               | 0801600                       | 0841680          |
|                                                              |                                                                   |                                                            |                                         |                                                    |                                                 |                                                                      |                                 |                    |                                                     |                  |                               |                  |
| 0.05.....1.6<br>0.05.....2.5                                 | 0.17...1.2<br>0.18...2                                            | 0.19...1.2<br>0.2...2                                      | 5<br>5                                  |                                                    |                                                 |                                                                      | G1/4"                           | 0.95               | 03                                                  | 06               | 0801700                       | 0841780          |
|                                                              |                                                                   |                                                            |                                         |                                                    |                                                 |                                                                      | G1/4"                           | 0.95               | 03                                                  | 06               | 0801800                       | 0841880          |

- D502/7D K 切换差不可调 (小切换差, 无防爆型)

D502/7D K switch is not adjustable (small switching difference, no explosion-proof type)

| 设定值调节范围<br>MPa<br>Seted value<br>adjustment    | 切换差不大于                                           |                                                 | 最大允许<br>压力 *<br>Mpa<br>Max<br>allowable | 开关切<br>换次数 / 分<br>Cut-over<br>times of<br>switches | 压力传感<br>器材料<br>Pressure transmitter<br>material |                                                          | 接口<br>内螺纹<br>Interface<br>Inner | 重量<br>weight<br>kg | 外形 尺寸 图号<br>Overall dimension<br>Size<br>Drawing No | 订货目录编号<br>Ordering Catalog No |
|------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-----------------------------------------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------------------|---------------------------------|--------------------|-----------------------------------------------------|-------------------------------|
|                                                | 设定值范围下 限<br>MPa<br>lower limit of seted<br>value | 设定值范围上限<br>MPa<br>upper limit of seted<br>value |                                         |                                                    | 外壳<br>Cover                                     | 膜片<br>Diaphragm                                          |                                 |                    |                                                     |                               |
|                                                |                                                  |                                                 |                                         |                                                    |                                                 |                                                          |                                 |                    |                                                     |                               |
| -0.1……0<br>-0.1……0.1<br>-0.1…0.16<br>-0.1…0.25 | 0.003<br>0.003<br>0.003<br>0.0045                | 0.0045<br>0.005<br>0.0065<br>0.001              | 1<br>1<br>1<br>1                        | 20                                                 | 黄铜<br>copper                                    | 不锈钢<br>stainless<br>steel<br>00Ga17Ni<br>14MO2<br>(316L) | G1/4"                           | 1.0                | 01                                                  | 0810107                       |
|                                                |                                                  |                                                 |                                         |                                                    |                                                 |                                                          | G1/4"                           | 1.0                | 01                                                  | 0810207                       |
|                                                |                                                  |                                                 |                                         |                                                    |                                                 |                                                          | G1/4"                           | 1.0                | 01                                                  | 0810307                       |
|                                                |                                                  |                                                 |                                         |                                                    |                                                 |                                                          | G1/4"                           | 1.0                | 01                                                  | 0810407                       |
| 0……0.1<br>0……0.16<br>0.01……0.25                | 0.003<br>0.003<br>0.0045                         | 0.0045<br>0.006<br>0.007                        | 1.5<br>1.5<br>1.5                       |                                                    |                                                 |                                                          | G1/4"                           | 1.0                | 01                                                  | 0811107                       |
|                                                |                                                  |                                                 |                                         |                                                    |                                                 |                                                          | G1/4"                           | 1.0                | 01                                                  | 0811207                       |
|                                                |                                                  |                                                 |                                         |                                                    |                                                 |                                                          | G1/4"                           | 1.0                | 01                                                  | 0811307                       |
| 0.02……0.4<br>0.03……0.6<br>0.05……1              | 0.012<br>0.015<br>0.018                          | 0.016<br>0.02<br>0.03                           | 2<br>2<br>2                             |                                                    |                                                 |                                                          | G1/4"                           | 0.85               | 03                                                  | 0811407                       |
|                                                |                                                  |                                                 |                                         |                                                    |                                                 |                                                          | G1/4"                           | 0.85               | 03                                                  | 0811507                       |
|                                                |                                                  |                                                 |                                         |                                                    |                                                 |                                                          | G1/4"                           | 0.85               | 03                                                  | 0811607                       |
| 0.05……1.6<br>0.05……2.5                         | 0.03<br>0.03                                     | 0.05<br>0.06                                    | 5<br>5                                  |                                                    |                                                 |                                                          | G1/4"                           | 0.9                | 03                                                  | 0811707                       |
|                                                |                                                  |                                                 |                                         |                                                    |                                                 |                                                          | G1/4"                           | 0.9                | 03                                                  | 0811807                       |

注: \* 在实际工作中, 即使短暂的峰值也不能超过此值

Note: \* in the actual T, even when the peak pressure of short also cannot exceed this value





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P-121

## 压力控制器 / 防爆型压力控制器

Pressure Controller / Explosive-proof pressure controller

D502/7D、D502/7DK / D502/7D 系列

D502/7D、D502/7DK / D502/7D series

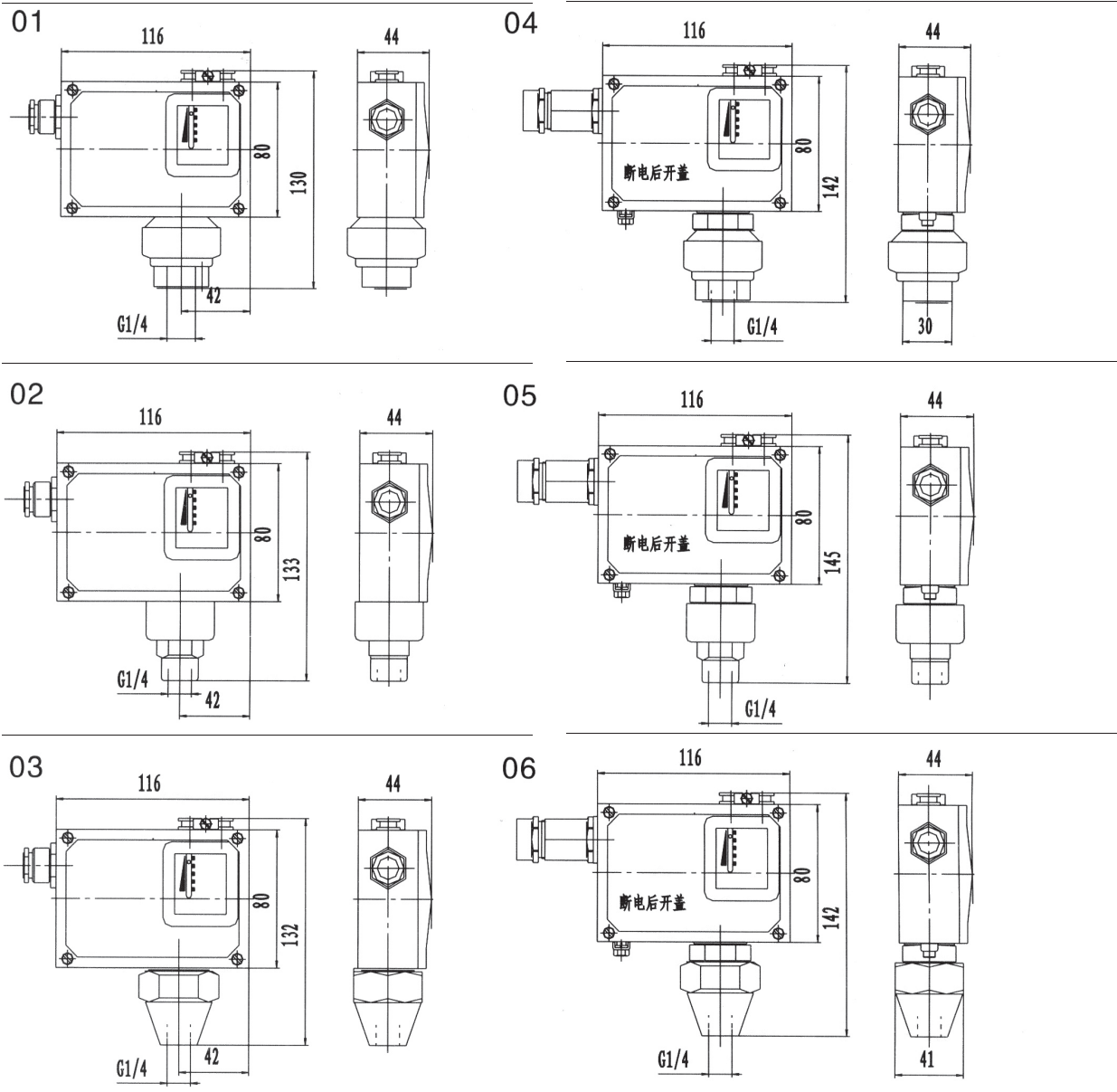
设定值的调整 ( 详见压力控制器设定值的调整 )

Adjustment of the seted value ( see the adjustment of pressure controller seted value )

外形及安装尺寸

Overall dimension and installation size

单位: mm



附件

Attachment

可供选用附件目录编号:  
0574767 0574773  
0574772 0574771  
Sc5 470 505

选用和安装 ( 详见控制器的安装和选用 )

Selection and installation ( see the installation and selection of controller )

the attachment catalog no for selection ) :  
0574767 0574773  
0574772 0574771  
Sc5 470 505

## 压力控制器 / 防爆型压力控制器

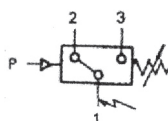
Pressure Controller/Explosive-proof pressure controller

D505/7D、D505/7DK/D505/7D 系列  
D505/7D、D505/7DK/D505/7D series

P-122

## D505 / 7D、 D505 / 7DK 系列 压力控制器

D505 / 7D、 D505 / 7DK series  
Pressure Controller

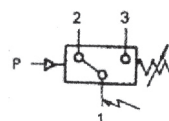


单刀双掷微动开关作用过程  
Mechanism of single-pole double-throw microswitch(SPDT-MSW)  
接线端 1-3  
Junction Terminal  
压力上升至上切换值时接通  
when the pressure is increasing to the upper switching value , it is through  
接线端 1-2  
Junction terminal  
压力上升至上切换值时断开  
When the pressure is increasing to upper switching value , it is off

控制器采用无泄漏活塞式的传感器，可用于含油雾的压缩空气及其他对压力传感器材料无腐蚀作用的含油雾气体和液压油，水油乳蚀液及润滑性能良好的中性液体介质。控制器的设定值可调，调节范围 0.3……25MPa。

## D505/7D 系列 防爆型压力控制器

D505/7D series  
Explosive-proof pressure controller



单刀双掷微动开关作用过程  
Mechanism of single-pole double-throw microswitch(SPDT-MSW)  
接线端 1-3  
Junction Terminal  
压力上升至上切换值时接通  
when the pressure is increasing to the upper switching value , it is through  
接线端 1-2  
Junction terminal  
压力上升至上切换值时断开  
When the pressure is increasing to upper switching value , it is off

Controller is adopted with piston transmitter without leakage, and can be used for compressed air ,mirage with oil and hydraulic liquid which has not corrosive to pressure Transmitter materil ,and neutral liquid medium with lubricity ,gas and water&oil calpis .the seted value of controller can be adjusted , the adjusting range is 0.3……25MPa.





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P-123

压力控制器 / 防爆型压力控制器  
Pressure Controller/Explosive-proof pressure controller

D505/7D、D505/7DK/D505/7D 系列  
D505/7D、D505/7DK/D505/7D series

主要技术性能

Basic mechanical design feature

|                                       | 普通型<br>Conventional type                                      | 防爆型<br>Explosion proof type                                 |
|---------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------|
| 工作粘度 working viscosity                | $<1 \times 10^{-3} \text{m}^2/\text{s}$                       | $<1 \times 10^{-3} \text{m}^2/\text{s}$                     |
| 开关元件 switching element                | 微动开关 Micro switch                                             | 微动开关 Micro switch                                           |
| 防爆等级 explosive-proof grade            | ——                                                            | Exed II CT4~T6 合格证编号 certificate GYB081516X                 |
| 外壳防护等级 degree of enclosure protection | IP65( 符合 DIN40050, 与 GB4208 中 IP65 相当 )                       | IP65( 符合 DIN40050, 与 GB4208 中 IP65 相当 )                     |
| 环境温度 environment temperature          | -5~40℃                                                        | -5~40℃                                                      |
| 介质温度 medium temperature               | 0~90℃                                                         | 0~90℃                                                       |
| 安装位置 installationsite                 |                                                               | 压力接口垂直向下 directly below                                     |
| 抗振性能 resistance to shock              | D505 / 7D: 40ms <sup>2</sup><br>D505 / 7DK: 20ms <sup>2</sup> | Max: 20m /s <sup>2</sup>                                    |
| 重复性误差 repeatability error             | ≤2.5%                                                         | ≤2.5%                                                       |
| 触点容量 contact capacity                 | AC220V 6A( 阻性 )                                               | DC 250V 0. 25A( 阻性 )60 Wmax<br>AC 250V 5A( 阻性 ) 1 250 Vamax |

特点

用于含油雾的中性气体。

Characteristic

For the neutral gas with oil and mist.

规格

Standard

- D505/7D 切换差不可调

Cut-over difference unadjustable

| 设定值调节范围<br>MPa<br>Seted value<br>adjustment             | 切换差不大于<br>Cut-over value Less than              |                                                 | 最大允许<br>压力 *<br>Mpa<br>Max<br>allowable | 开关切<br>换次数 / 分<br>Cut-over<br>times of<br>switchs | 压力传感<br>器材料<br>Pressure transmitter<br>material |                                                                               |                     | 接口<br>内螺纹<br>Interface<br>Inner  | 重量<br>weight<br>kg | 外形 尺寸 图号<br>Overall dimension<br>Size<br>Drawing No |            | 订货目录编号<br>Ordering Catalog No                        |                                                     |
|---------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-----------------------------------------|---------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------|---------------------|----------------------------------|--------------------|-----------------------------------------------------|------------|------------------------------------------------------|-----------------------------------------------------|
|                                                         | 设定值范围下限<br>MPa<br>lower limit of seted<br>value | 设定值范围上限<br>MPa<br>upper limit of<br>seted value |                                         |                                                   | 外壳<br>Cover                                     | 密封圈<br>lock ring                                                              | 活 塞<br>bibb<br>cock |                                  |                    | 普通型<br>Ordinary                                     | 防爆型<br>exd | 普通型<br>Ordinary<br>Type                              | 防爆型<br>Exd                                          |
| 0.3………4<br>0.5………6.3<br>0.5………10<br>0.05………16<br>1………23 | 0.5<br>0.6<br>0.6<br>0.7<br>1                   | 0.9<br>1.3<br>1.6<br>1.9<br>2.5                 | 30                                      | 20                                                | 黄铜<br>brass                                     | 丁晴橡<br>胶槽型<br>密封圈<br>Ding Qing<br>rubber<br>groove<br>type<br>sealing<br>ring | 铜<br>Cu             | G1/4"<br>G1/4"<br>G1/4"<br>G1/4" | 0.9                | 01                                                  | 02         | 08165100<br>0816600<br>0816700<br>0816800<br>0816919 | 0856580<br>0856680<br>0856780<br>0856880<br>0856980 |

压力控制器 / 防爆型压力控制器
Pressure Controller/Explosive-proof pressure controller

D505/7D、D505/7DK/D505/7D 系列
D505/7D、D505/7DK/D505/7D series

P-124

D505/7D 切换差可调 Cut-over difference adjustable

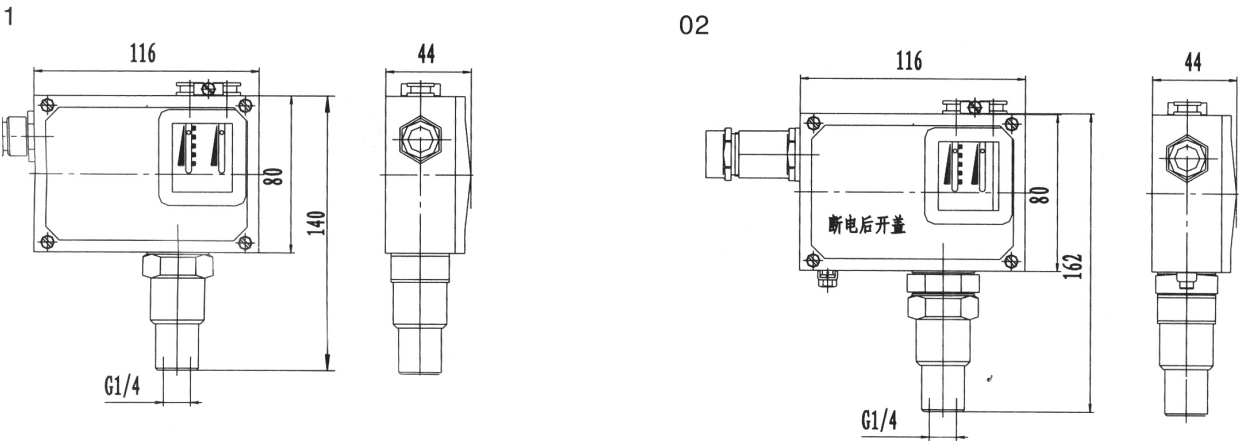
Table with 11 columns: Setpoint adjustment range, Cut-over value limits, Max allowable pressure, Switching frequency, Pressure transmitter material, Interface, Weight, Overall dimensions, and Catalog numbers.

D505/7D 切换差不可调 (小切换差) Cut-over difference unadjustable

Table with 11 columns: Model, Setpoint adjustment range, Cut-over value limits, Max allowable pressure, Switching frequency, Pressure transmitter material, Interface, Weight, Overall dimensions, and Catalog numbers.

- 1. 在实际工作中，即使短暂的压力峰值也不能超过此值。 1.Infact,even the short peakcom not surpass it.
- 2. 带槽密封圆型在使用中应避免压力的突然波动，若有压力的突然波动则要在控制器的接口上安装一个压力冲击阻尼器。 2.The sudden spike of pnessure should be avoided when the sealing is used.

外形及安装尺寸
Overall dimension and installation size



附件
Attachment

可供选用附件目录编号 ( the attachment catalog no for selection ) : 0574767, 0574773 05774772, 0574771 SC5•470•505
型安装支架 ( 亦适 7t)( 支架两件，螺钉 4 只 )
订货目录编号: 0574772
installation bracket (two brackets, 4 screws)
part number:0574772



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P-125

## 压力控制器 / 防爆型压力控制器

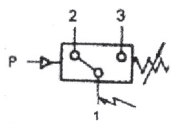
Pressure Controller/Explosive-proof pressure controller

D511/7D、 D511/7DK / D511/7D 系列

D511/7D、 D511/7DK / D511/7D series

### D511/7D、 D511/7DK 系列 压力控制器

D511/7D、 D511/7DK series  
Pressure Controller



单刀双掷微动开关作用过程

Mechanism of single-pole double-throw microswitch(SPDT-MSW)

接线端 1-3

Junction Terminal

压力上升至上切换值时接通

when the pressure is increasing to the upper switching value , it is through

接线端 1-2

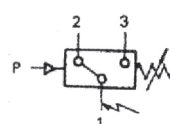
Junction terminal

压力上升至上切换值时断开

When the pressure is increasing to upper switching value , it is off

### D511/7D 系列 防爆型压力控制器

D511/7D series  
Explosive-proof pressure controller



单刀双掷微动开关作用过程

Mechanism of single-pole double-throw microswitch(SPDT-MSW)

接线端 1-3

Junction Terminal

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接线端 1-2

Junction terminal

压力上升至上切换值时断开

When the pressure is increasing to upper switching value , it is off

控制采用波纹管式传感器。可用于腐蚀性气体和液体介质。控制器的设定值可调，调节范围 -0.1---6.3MPa

with bellow type sensor, applicable to corrosive gas and liquid, setting value is adjustable, range is -0.1~6.3MPa

压力控制器 / 防爆型压力控制器  
Pressure Controller/Explosive-proof pressure controller

D511/7D、 D511/7DK / D511/7D 系列  
D511/7D、 D511/7DK / D511/7D series

P-126

主要技术性能

Basic mechanical design feature

|                                       | 普通型 Conventional type                                                     | 防爆型 Explosion proof type                                |
|---------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------|
| 工作粘度 working viscosity                | $<1 \times 10^{-3} \text{m}^2/\text{s}$                                   | $<1 \times 10^{-3} \text{m}^2/\text{s}$                 |
| 开关元件 switching element                | 微动开关 Micro switch                                                         | 微动开关 Micro switch                                       |
| 防爆等级 explosive-proof grade            | —                                                                         | Exed II CT4~T6 合格证编号 GYB081516X                         |
| 外壳防护等级 degree of enclosure protection | IP65(符合 DIN40050, 与 GB4208 中 IP65 相当)                                     | IP65(符合 DIN40050, 与 GB4208 中 IP65 相当)                   |
| 环境温度 environment temperature          | -40~50℃                                                                   | -40~50℃                                                 |
| 介质温度 medium temperature               | 0~120℃                                                                    | 0~120℃                                                  |
| 安装位置 installationsite                 |                                                                           | 压力接口垂直向下 directly below                                 |
| 抗振性能 resistance to shock              | D511 / 7D: $40\text{m}/\text{s}^2$<br>D511 / 7DK: $20\text{m}/\text{s}^2$ | Max: $20\text{m}/\text{s}^2$                            |
| 重复性误差 repeatability error             | $\leq 1\%$                                                                | $\leq 1\%$                                              |
| 触点容量 contact capacity                 | AC 220V 6A(阻性)                                                            | DC 250V 0.25A(阻性) 60 Wmax<br>AC 250V 5A(阻性) 1 250 Vamax |

特点

使用温度范围大，可用于腐蚀性介质

Characteristic

Large scope of application, suitable for the medium with corrissivity.

规格

- D511 / 7D 切换差不可调

Standard

Cut-over difference unadjustable

| 设定值调节范围<br>MPa<br>Seted value<br>adjustment | 切换差不大于<br>Cut-over value Less than              |                                                 | 最大允许<br>压力 *<br>Mpa<br>Max<br>allowable | 开关切<br>换次数 / 分<br>Cut-over<br>times of<br>switchs | 压力传感<br>器材料<br>Pressure transmitter<br>material                                                                                       |                 | 接口<br>内螺纹<br>Interface<br>Inner | 重量<br>weight<br>kg | 外形 尺寸 图号<br>Overall dimension<br>Size<br>Drawing No |            | 订货目录编号<br>Ordering Catalog No |            |
|---------------------------------------------|-------------------------------------------------|-------------------------------------------------|-----------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------|--------------------|-----------------------------------------------------|------------|-------------------------------|------------|
|                                             | 设定值范围下限<br>MPa<br>lower limit of seted<br>value | 设定值范围上限<br>MPa<br>upper limit of<br>seted value |                                         |                                                   | 外壳<br>Cover                                                                                                                           | 膜片<br>Diaphragm |                                 |                    | 普通型<br>Ordinary                                     | 防爆型<br>exd | 普通型<br>Ordinary<br>Type       | 防爆型<br>exd |
| -0.1……0                                     | 0.006                                           | 0.007                                           | 1                                       | 20                                                | 与介质接触的全部<br>零件均用不锈钢<br>波纹管:<br>00Gr17Ni14Mo2<br>(316L)<br>其余:<br>1Gr18Ni9Ti<br>All wetted parts are<br>stainless steel bellow<br>tube |                 | G1/2"                           | 1.0                | 01                                                  | 04         | 0810111                       | 0850181    |
| -0.1……0.1                                   | 0.007                                           | 0.008                                           | 1                                       |                                                   |                                                                                                                                       |                 | G1/2"                           | 1.0                | 01                                                  | 04         | 0810211                       | 0850281    |
| -0.1……0.16                                  | 0.008                                           | 0.009                                           | 1                                       |                                                   |                                                                                                                                       |                 | G1/2"                           | 1.0                | 01                                                  | 04         | 0810311                       | 0850381    |
| -0.1……0.25                                  | 0.009                                           | 0.012                                           | 1                                       |                                                   |                                                                                                                                       |                 | G1/2"                           | 1.0                | 01                                                  | 04         | 0810411                       | 0850481    |
| 0……0.1                                      | 0.007                                           | 0.008                                           | 1                                       |                                                   |                                                                                                                                       |                 | G1/2"                           | 1.0                | 01                                                  | 04         | 0811111                       | 0851181    |
| 0……0.16                                     | 0.008                                           | 0.009                                           | 1                                       |                                                   |                                                                                                                                       |                 | G1/2"                           | 1.0                | 01                                                  | 04         | 0811211                       | 0851281    |
| 0.01……0.25                                  | 0.009                                           | 0.01                                            | 1                                       |                                                   |                                                                                                                                       |                 | G1/2"                           | 1.0                | 01                                                  | 04         | 0811311                       | 0851381    |
| 0.02……0.4                                   | 0.03                                            | 0.03                                            | 2                                       |                                                   |                                                                                                                                       |                 | G1/2"                           | 0.85               | 02                                                  | 05         | 0811411                       | 0851481    |
| 0.03……0.6                                   | 0.03                                            | 0.035                                           | 2                                       |                                                   |                                                                                                                                       |                 | G1/2"                           | 0.85               | 02                                                  | 05         | 0811511                       | 0851581    |
| 0.03……1                                     | 0.03                                            | 0.04                                            | 2                                       |                                                   |                                                                                                                                       |                 | G1/2"                           | 0.85               | 02                                                  | 05         | 0811611                       | 0851681    |
| 0.05……1.6                                   | 0.07                                            | 0.08                                            | 5                                       |                                                   |                                                                                                                                       |                 | G1/2"                           | 0.9                | 03                                                  | 06         | 0811711                       | 0851781    |
| 0.05……2.5                                   | 0.07                                            | 0.09                                            | 5                                       |                                                   |                                                                                                                                       |                 | G1/2"                           | 0.9                | 03                                                  | 06         | 0811811                       | 0851881    |
| 0.3……6.3                                    | 0.1                                             | 0.2                                             | 8.5                                     |                                                   |                                                                                                                                       |                 | G1/2"                           | 0.9                | 03                                                  | 06         | 0811911                       | 0851981    |

压力仪表系列 Pressure Instruments Series



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国家级高新技术企业 National High-Tech Enterprise

P-127

# 压力控制器 / 防爆型压力控制器

Pressure Controller/Explosive-proof pressure controller

D511/7D、 D511/7DK / D511/7D 系列  
D511/7D、 D511/7DK / D511/7D series

• D511 / 7D 切换差可调 Cut-over difference unadjustable

| 设定值调节范围<br>MPa<br>Seted value<br>adjustment                  | 切换差不大于<br>Cut-over value Less than                                |                                                                    | 最大允许<br>压力 *<br>Mpa<br>Max<br>allowable | 开关切<br>换次数 / 分<br>Cut-over<br>times of<br>switchs | 压力传感<br>器材料<br>Pressure transmitter<br>material                                                                                        |                 | 接口<br>内螺纹<br>Interface<br>Inner | 重量<br>weight<br>kg | 外形 尺寸 图号<br>Overall dimension<br>Size<br>Drawing No |     | 订货目录编号<br>Ordering Catalog No |         |
|--------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------|--------------------|-----------------------------------------------------|-----|-------------------------------|---------|
|                                                              | 设定值范围下限<br>MPa<br>lower limit of seted<br>value                   | 设定值范围上限<br>MPa<br>upper limit of<br>seted value                    |                                         |                                                   | 外壳<br>Cover                                                                                                                            | 膜片<br>Diaphragm |                                 |                    | 普通型<br>Ordinary                                     | 防爆型 | 普通型<br>Ordinary Type          | 防爆型     |
|                                                              |                                                                   |                                                                    |                                         |                                                   |                                                                                                                                        |                 |                                 |                    |                                                     |     |                               |         |
| -0.1.....0<br>-0.1.....0.1<br>-0.1.....0.16<br>-0.1.....0.25 | 0.018.....0.08<br>0.019.....0.1<br>0.02.....0.2<br>0.022.....0.25 | 0.019.....0.08<br>0.021.....0.1<br>0.022.....0.2<br>0.024.....0.25 | 1<br>1<br>1<br>1                        | 20                                                | 与介质接触的全部<br>零件均用不锈钢<br>波纹管:<br>00Gr17NiIt4M02<br>(316L)<br>其余:<br>1Cr18Ni9Ti<br>All wetted parts are<br>stainless steel bellow<br>tube |                 | G1/2"                           | 1.05               | 01                                                  | 04  | 0800111                       | 0840181 |
|                                                              |                                                                   |                                                                    |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 1.05               | 01                                                  | 04  | 0800211                       | 0840281 |
|                                                              |                                                                   |                                                                    |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 1.05               | 01                                                  | 04  | 0800311                       | 0840381 |
|                                                              |                                                                   |                                                                    |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 1.05               | 01                                                  | 04  | 0800411                       | 0840481 |
| 0.....0.1<br>0.....0.16<br>0.01.....0.25                     | 0.015.....0.08<br>0.018.....0.1<br>0.02.....0.25                  | 0.016.....0.08<br>0.02.....0.1<br>0.024.....0.25                   | 1<br>1<br>1                             |                                                   |                                                                                                                                        |                 | G1/2"                           | 1.05               | 01                                                  | 04  | 0801111                       | 0841181 |
|                                                              |                                                                   |                                                                    |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 1.05               | 01                                                  | 04  | 0801211                       | 0841281 |
|                                                              |                                                                   |                                                                    |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 1.05               | 01                                                  | 04  | 0801311                       | 0841381 |
| 0.02.....0.4<br>0.03.....0.6<br>0.03.....1                   | 0.08.....0.25<br>0.08.....0.5<br>0.09.....0.8                     | 0.08.....0.25<br>0.09.....0.5<br>0.1.....0.8                       | 2<br>2<br>2                             |                                                   |                                                                                                                                        |                 | G1/2"                           | 0.9                | 02                                                  | 05  | 0801411                       | 0841481 |
|                                                              |                                                                   |                                                                    |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 0.9                | 02                                                  | 05  | 0801511                       | 0841581 |
|                                                              |                                                                   |                                                                    |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 0.9                | 02                                                  | 05  | 0801611                       | 0841681 |
| 0.05.....1.6<br>0.05.....2.5                                 | 0.17.....1.2<br>0.18.....2                                        | 0.19.....1.2<br>0.2.....2                                          | 5<br>5                                  |                                                   |                                                                                                                                        |                 | G1/2"                           | 0.95               | 03                                                  | 06  | 0801711                       | 0841781 |
|                                                              |                                                                   |                                                                    |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 0.95               | 03                                                  | 06  | 0801811                       | 0841881 |
| 0.3.....6.3                                                  | 0.25.....2                                                        | 0.65.....2                                                         | 8.5                                     |                                                   |                                                                                                                                        |                 | G1/2"                           | 0.95               | 03                                                  | 06  | 0801911                       | 0841981 |

• D511 / 7D 切换差可调 Cut-over difference unadjustable

| 设定值调节范围<br>MPa<br>Seted value<br>adjustment      | 切换差不大于<br>Cut-over value Less than              |                                                 | 最大允许<br>压力 *<br>Mpa<br>Max<br>allowable | 开关切<br>换次数 / 分<br>Cut-over<br>times of<br>switchs | 压力传感<br>器材料<br>Pressure transmitter<br>material                                                                                        |                 | 接口<br>内螺纹<br>Interface<br>Inner | 重量<br>weight<br>kg | 外形 尺寸 图号<br>Overall dimension<br>Size<br>Drawing No | 订货目录编号<br>Ordering Catalog No |
|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-----------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------|--------------------|-----------------------------------------------------|-------------------------------|
|                                                  | 设定值范围下限<br>MPa<br>lower limit of seted<br>value | 设定值范围上限<br>MPa<br>upper limit of<br>seted value |                                         |                                                   | 外壳<br>Cover                                                                                                                            | 膜片<br>Diaphragm |                                 |                    |                                                     |                               |
|                                                  |                                                 |                                                 |                                         |                                                   |                                                                                                                                        |                 |                                 |                    |                                                     |                               |
| -0.1……0<br>-0.1……0.1<br>-0.1……0.16<br>-0.1……0.25 | 0.003<br>0.003<br>0.003<br>0.0045               | 0.0045<br>0.005<br>0.0065<br>0.01               | 1<br>1<br>1<br>1                        | 20                                                | 与介质接触的全部<br>零件均用不锈钢<br>波纹管：<br>00Gr17Niit4MO2<br>(316L)<br>其余：<br>1Cr18Ni9Ti<br>All wetted parts are<br>stainless steel bellow<br>tube |                 | G1/2"                           | 1.0                | 01                                                  | 0810113                       |
|                                                  |                                                 |                                                 |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 1.00               | 01                                                  | 0810213                       |
|                                                  |                                                 |                                                 |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 1.0                | 01                                                  | 0810313                       |
|                                                  |                                                 |                                                 |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 1.0                | 01                                                  | 0810413                       |
| 0……0.1<br>0……0.16<br>0.01……0.25                  | 0.003<br>0.003<br>0.0045                        | 0.0045<br>0.006<br>0.007                        | 1<br>1<br>1                             |                                                   |                                                                                                                                        |                 | G1/2"                           | 1.0                | 01                                                  | 0811113                       |
|                                                  |                                                 |                                                 |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 1.0                | 01                                                  | 0811213                       |
|                                                  |                                                 |                                                 |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 1.00               | 01                                                  | 0811313                       |
| 0.02……0.4<br>0.03……0.6<br>0.03……1                | 0.012<br>0.015<br>0.018                         | 0.016<br>0.02<br>0.03                           | 2<br>2<br>2                             |                                                   |                                                                                                                                        |                 | G1/2"                           | 0.85               | 02                                                  | 0811413                       |
|                                                  |                                                 |                                                 |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 0.85               | 02                                                  | 0811513                       |
|                                                  |                                                 |                                                 |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 0.85               | 02                                                  | 0811613                       |
| 0.05……1.6<br>0.05……2.5                           | 0.03<br>0.03                                    | 0.05<br>0.06                                    | 5<br>5                                  |                                                   |                                                                                                                                        |                 | G1/2"                           | 0.9                | 03                                                  | 0811713                       |
|                                                  |                                                 |                                                 |                                         |                                                   |                                                                                                                                        |                 | G1/2"                           | 0.9                | 03                                                  | 0811813                       |
| 0.3……6.3                                         | 0.06                                            | 0.12                                            | 8.5                                     |                                                   |                                                                                                                                        |                 | G1/2"                           | 0.9                | 03                                                  | 0811919                       |

# 压力控制器 / 防爆型压力控制器

## Pressure Controller/Explosive-proof pressure controller

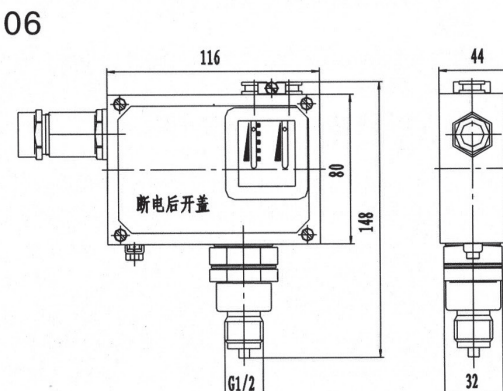
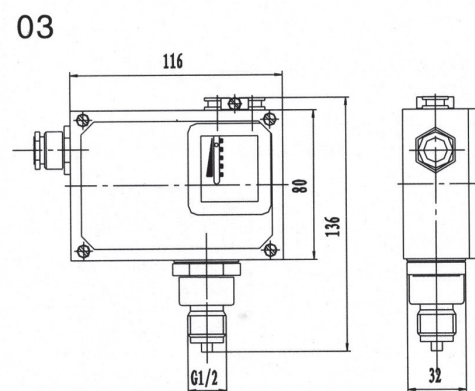
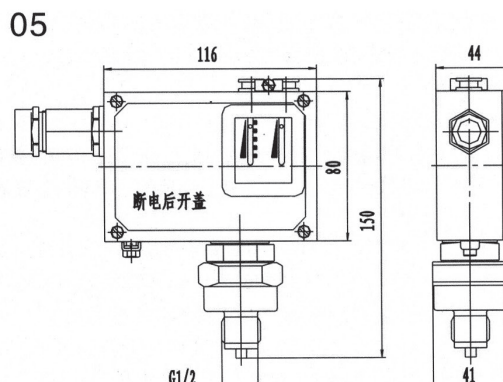
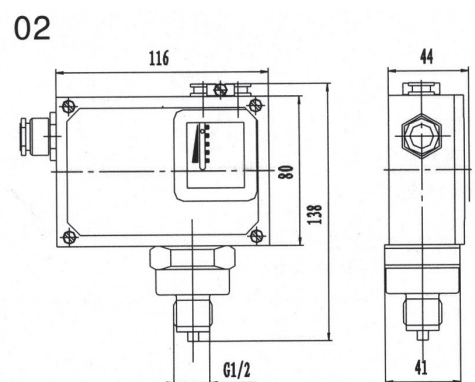
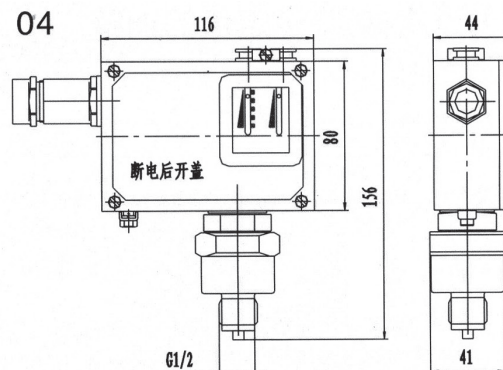
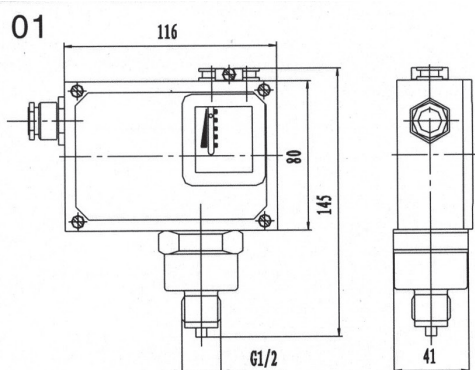
D511/7D、 D511/7DK / D511/7D 系列  
D511/7D、 D511/7DK / D511/7D series

P-128

外形及安装尺寸

Overall dimension and installation size

单位: mm



### 附件

### Attachment

可供选用附件目录编号:  
05 74770, 0574769  
05 74768, 05 74772

选用和安装 ( 详见控制器的安装和选用 )  
Selection and installation ( see the installation and selection of controller )

the attachment catalog no for selection:  
05 74770, 0574769  
05 74768, 05 74772



## 压力控制器设定值的调整

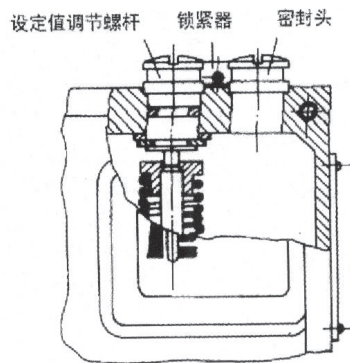
### Adjustment of pressure controller's set value

## 压力控制器设定值的调整

### Adjustment of pressure controller's setting value

- 不可调切换差的控制器设定值调整步骤。举例说明如下：

The adjusted procedure for the Seted value of unadjustable cut-over controller ,For Example :



图一

不可调切换差控制器调整示意图

The installation diaphragm of unadjusted switching difference controller

[例一]：选用型号 D 502 / 7D 订货号为 0811600 的压力控制器，要求将差升至 0.5MPa( 上切换值 ) 发出触点信号，其操作步骤参见：1.1~1.5。( 如图一所示 )

- 松开锁紧器，将产品旋入压力校验台的螺纹接口上，注意必须用板手夹持传感器的平面部份，绝对防止开关壳体与传感器发生相对转动。
- 打开盖板，将电缆穿过电缆接口接入端子板中，电缆另一头接上万用表。
- 将压力加至 0.5MPa, 此值可以从标准压力计中读出。
- 顺时针旋动设定值调节螺杆，使设定值由大变小，直至开关触点在 0.5MPa 处切换。
- 旋紧锁紧器，调节压力校验台的压力，使压力在 0.5MPa 上下来回变化，检验压力上升时，触点的切换值是否是 0.5MPa, 此值即为要设定的上切换值。其对应的下切换值应是 0.5MPa 减去切换差 0.035MPa, ( 左右 )，即为 0.465MPa( 左右 )。

Selecting the pressure controller with the Model D 502 / 7D and ordering no ,0811600 ,it is required to increase the difference into 0.5MPa( upper switching value) To send the contact signal ,the operation procedure is as following :1.1~1.5( see table one )

- Loose the locker, screw the product into the thread interface of pressure calibration , notice That using the wrench to hold the surface part of sensor ,absolutely protect the switch shell to turn with the sensor .
- Open the cover , put the cable through the interface into the terminal board , the other end of cable is connected with the multimeter .
- Increased the pressure to 0.5MPa , this value can be read directly from the standard pressure meter .
- Clockwise turn the seted value to adjust the screw ,and making the seted value from big to small until the switch contact point in 0.5mpa
- Screw the locker tightly , and adjust the pressure of calibration, moving up and down at 0.5 mpa . When the test pressure is increasing , the switching value of contact point is 0.5mpa,and this value is seted upper switching value . The corresponding lower switching value Is 0.5 MPa minus the switching difference 0.035MPa ( up and down ), that is 0.465 Mpa(up and down )

[例二]：选用型号 D502 / 7D 订货号为 0811700 的压力控制器，要求将差力下降至 0.8MPa( 下切换值 ) 发出触点信号，其操作步骤参见：1.6~1.10。

- 松开锁紧器，将产品旋入压力校验台的螺纹接口上，注意必须用板手夹持传感器的平面部份，绝对防止开关壳体与传感器发生相对转动
- 打开盖板，将电缆穿过电缆接口接入端子板中，电缆另一头接上万用表。

Selecting the pressure controller of model D502 / 7D,and ordering No 0811700, it is required to decrease the pressure into contact signal of 0.8MPa , the operation procedure is as following :1.6~1.10.

- Loose the locker, screw the product into the thread interface of pressure calibration , notice That using the wrench to hold the surface part of sensor ,absolutely protect the switch shell to turn with the sensor .
- Open the cover , put the cable through the interface into the terminal board , the other end of cable is connected with the multimeter.

## 压力控制器设定值的调整

### Adjustment of pressure controller's seted value

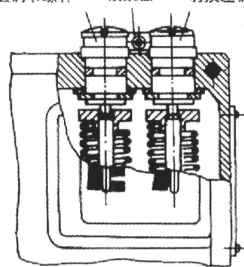
P-130

- 将压力加至 0.8MPa 此值可以从标准压力计中读出。
- 逆时针旋动设定值调节螺杆，使设定值由小变大，直至开关触点在 0.8MPa 时，切换。
- 旋紧锁紧器，调节压力校验台的压力，使压力在 0.8MPa 上下来回变化，检验压力下降时触点切换值是否是 0.8MPa，此值即为要设定的下切换值。其对应的上切换值应是 0.8MPa 加去切换差 0.075MPa(左右)，即为 0.875MPa，(左右)。

- 可调切换差的控制器设定值调整步骤。举例说明如下：  
The adjusted procedure for the Seted value of adjustable cut-over controller ,for example :

- Increased the pressure to 0.5MPa , this value can be read directly from the standard pressure meter .
- Inverse hour turn the seted value to adjust the screw ,and making the seted value from big to small until the switch contact point in 0.8mpa
- Screw the locker tightly , and adjust the pressure of calibration moving up and down at 0.8 mpa . When the test pressure is increasing , the switching value of contact point is 0.8MPa,and this value is seted upper switching value . The corresponding upper switching value ls 0.8 MPa plus the switching difference 0.075MPa ( up and down ), that is 0.875 Mpa(up and down )

设定值调节螺杆 锁紧器 切换差调节螺杆



图二

可调切换差控制器调整示意图

The installation diaphragm of adjusted switching difference controller

[例三]: 选用型号 D502 / 7D 订货号为 0801600 的压力控制器，要求将差压上升至 0.6MPa 发出触点信号，压力下降至 0.4MPa 时触点返回。（如图二所示）

Selecting the pressure controller with the Model D 502 / 7D and ordering no , 081 600 ,it is required to increase the pressure difference into 0.6MPa( upper switching value),to send the contact signal ,and when the pressure is decreased into 0.4 MPa ,the contact point is returned back . ( see table two )

- 松开锁紧器，将产品旋入压力校验台的螺纹接口上，注意必须用板手夹持传感器的平面部份，绝对防止开关壳体与传感器发生相对转动。
- 打开盖板，将电缆穿过电缆接口接入端子板中，电缆另一头接上万用表。
- 将压力加至 0.4MPa 此值可以从标准压力计中读出。
- 先调下切换值，逆时针旋动设定值调节螺杆，直至开关触点在 0.4MPa 处切换。
- 再逆时针旋动切换差值调节螺杆，使切换差从最小开始增大，直至压力上升至 0.6MPa 触点动作。
- 旋紧锁紧器，调节压力值在大于 0.4~0.6MPa 范围内来回变化，校验压力上升时触点的切换值是否是 0.6MPa，此值即为要设定的上切换值。检验压力下降时，触点切换值是否是 0.4MPa，此值即为要设定的下切换值。

- Loose the locker, screw the product into the thread interface of pressure calibration , notice That using the wrench to hold the surface part of senor ,absolutely protect the switch shell to turn with the sensor .Open the cover , put the cable through the interface into the terminal board , the other end of cable is connected with the multimeter
- Increased the pressure to 0.4MPa , this value can be read directly from the standard pressure meter .
- Firstly adjust the lower switching value , and inverse hour turn the seted value to adjust the Screw until the switching contact point is at 0.4MPa
- Inverse hour turn the switching value to adjust the screw , making the switching difference from the smallest one to increase until the pressure up to 0.6MPa contact movement
- Screw the locker tightly , and adjust the pressure of calibration moving up and down from 0.4 to 0.6MPa . When the test pressure is increasing , the switching value of contact point is 0.6MPa,and this value is seted upper switching value . When the calibrating pressure is down , the switching value of contact point is 0.4 MPa ,the value is the seted lower switching value .

