

# YD300T系列三偏心密封蝶阀

YD300T Series Three-eccentric Sealing Butterfly Valves

控制阀顶级专家

TOP CONTROL VALVES EXPERT

YADI FLUID CONTROL

## 无锡市亚迪流体控制技术有限公司

WUXI YADI FLUID CONTROL TECHNOLOGY CO., LTD

三千控制阀网
www.cv3000.com

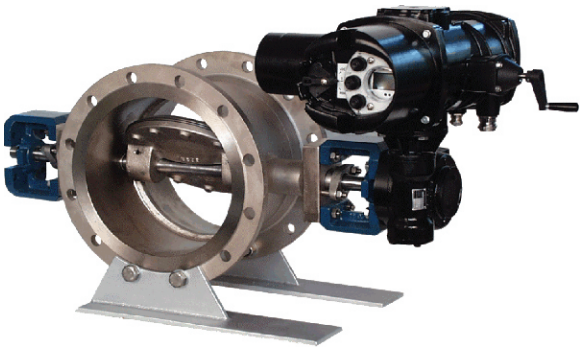
# YD300T SERIES

## 三偏心密封蝶阀
## Three-eccentric Sealing Butterfly Valves

### 技术特点概述 Description

YD300T系列三偏心密封蝶阀设计先进,适用于石化、电力、冶金、轻工等行业.其特点有:

- 独特的挤压密封设计,保证流向改变时阀门仍能密封.
- 阀板与阀座环之间密封时为零摩擦,完全避免磨损影响密封效果和使用寿命.
- 适用于一般腐蚀性气体、液体介质的调节和切断用.使用柔性石墨填料和层叠式金属密封阀座,完全满足火灾安全要求.密封时为零摩擦,可延长驱动器的寿命.
- 止推结构设计保证温度变化时阀门运作自如.低维护,阀座及密封环更换简易.



YD300T Series three-eccentric sealing butterfly valve with advanced design, apply for petrochemical,power,metallurgy, light industry,which has more Standard features include:

Unique press sealing design can keep shutting off when flow direction was changed.Seal friction between disc and seat is zero, so perfectly keep the sealing effect and life.It is Applied for the adjut and shut off of corrosive gas or liquid. Lower unseating torque.Equip of expanded graphite and metal seat can fully accord with firesafe.Maintenance cost is very lower.

### 技术参数 Technical Data

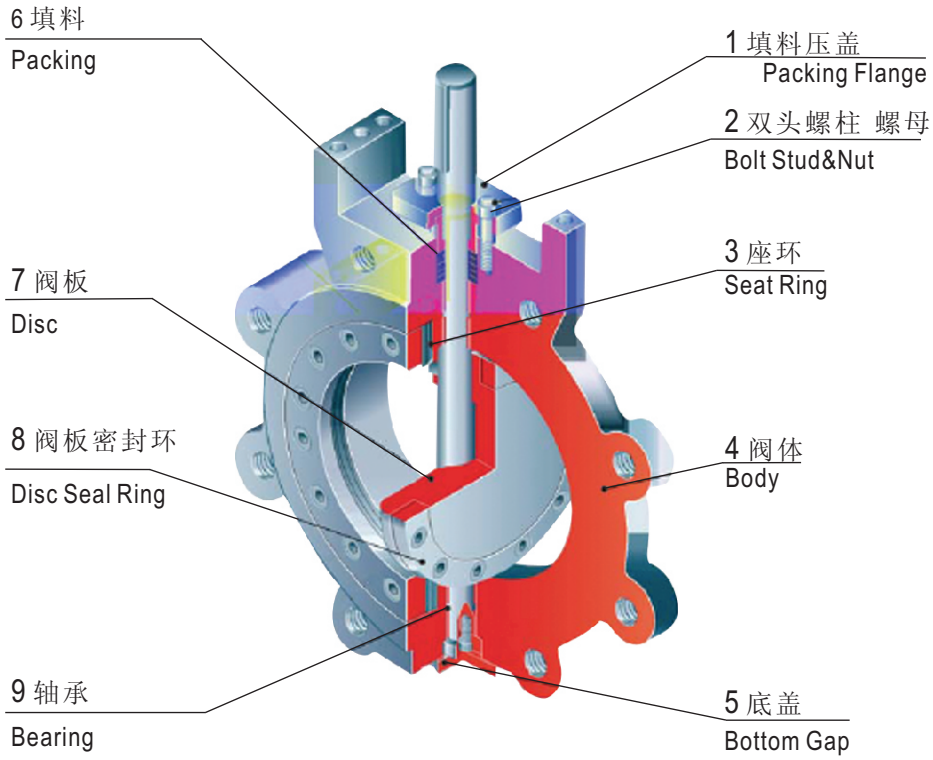
表 1 Table 1

| | |
|---|---|
| 阀体形式 Body Type | 三偏心型 Three Eccentric Type |
| 公称通径 Body Size | DN80~DN2000 （3"~80"） |
| 公称压力 Body Ratings | PN1.0~25MPa; ANSI CLASS 150~1500#; JIS10~63K. |
| 连接方式 Connections | 支耳式 对夹式 法兰式 Wafer Type Lugged Type Flange Type |
| 使用温度 Temperature | -190°C~750°C |
| 阀体材质 Body Marerials | WCB/SCPH2; CF8/SCS13A; CF8M/SCS14A |
| 阀板材质 Disc Materials | CF8/SCS13A 镀硬铬/Plating Chrome; CF8M/SCS14A 镀硬铬/Plating Chrome |
| 阀杆材质 Stem Materials | 304/SUS304; 316/SUS316; 630/SUS630 |
| 阀座材质 Seat Materials | 316+石墨 316+Graphite |
| 泄漏等级 Seat Leakage | ANSI Class V(Hard)、ANSI Class VI(Soft 近零泄漏) |
| 流量特性 Characteristic | 近似等百分比 Near Equal Percent |
| 可调比 Rangeability | 60°开度/60°Opening 25:1; 90°开度/90°Opening 50:1 |
| 填料 Packing | 膨胀石墨 Expanded Graphite |
| 涂层 Painting Color | 灰色 Light Grey<br>不锈钢阀体不涂色 Stainless Steel Body Have No Paint |

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阀体结构 Body Configuration

阀本体零件材质表： Body and Trim Materials

表 2 Table 2

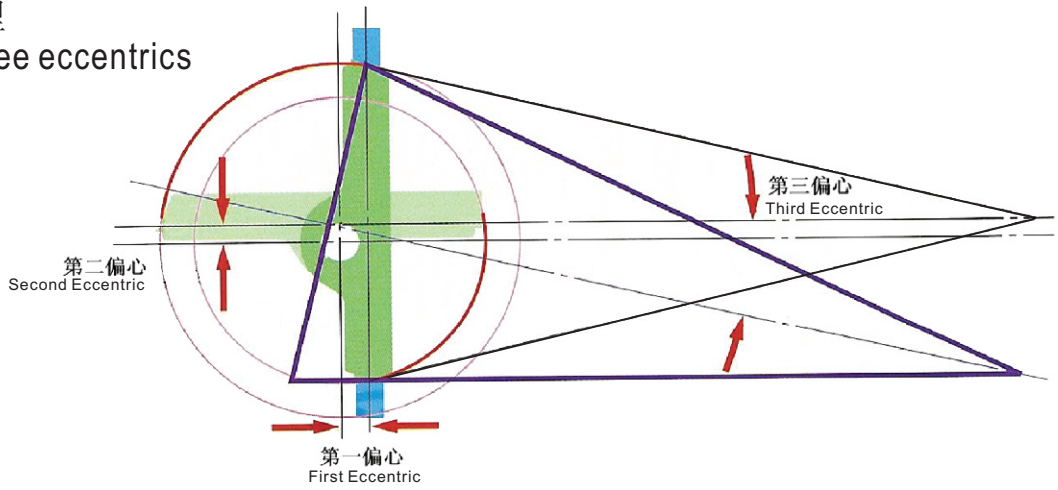
| 序号NO 名称 Description | 标准材料 Standard Materials |
|---|---|
| 1 填料 压盖 Packing Flange | 304/SUS304 |
| 2 螺柱 螺母 Bolt Stud & Nut | 304/SUS304,316/SUS316 |
| 3 座 环 Seat Ring | G+304; G+316; 304+STELLITE; 316+STELLITE |
| 4 阀 体 Body | WCB/SCPH2;CF8/SCS13A;CF8M/SCS14A |
| 5 底 盖 Bottom Gap | 材料同阀体 The same to body |
| 6 填 料 Packing | 膨胀石墨 Expanded Graphite |
| 7 阀 板 Disc | CF8/SCS13A 镀硬铬(Plating Chrome);CF8M/SCS14A 镀硬铬(Plating Chrome) |
| 8 阀板密封环 Disc Seal Ring | 304/SUS;316/SUS316 |
| 9 轴 承 Bearing | 304/SUS304;316/SUS316 |

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## 三偏心原理
## Theory of three eccentrics




YD300T 除了具有 YD300M 双偏心结构外,还具有第三偏心结构,即阀板锥面的中心线与阀体中心线偏离一定角度,即第三偏心。

这种结构使得阀座密封摩擦被完全消除,确保长寿命的密封效果,同时也能实现扭矩密封(压力辅助的无摩擦密封)。阀座也可用来确定关闭时的限位点,方便操作人员调节。

三偏心设计理想地满足了高温高压下金属密封零泄漏及应用于火灾安全场合的要求。

## YD300T三偏心蝶阀 与开度对应的Cv值 Cv Versus Opening Degree

表3 Table3

| 阀门开度 Open Degree | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 公称通径 Valve Size | ANSI150# 300# 额定Cv值 Rated Cv | | | | | | | | | | | | | | | | | |
| 3"(80A) | 2 | 7 | 15 | 25 | 33 | 41 | 49 | 56 | 64 | 73 | 84 | 99 | 115 | 131 | 146 | 159 | 165 | 169 |
| 4"(100A) | 3 | 13 | 27 | 45 | 59 | 74 | 87 | 100 | 115 | 133 | 153 | 179 | 208 | 237 | 265 | 288 | 302 | 305 |
| 6"(150A) | 17 | 32 | 47 | 61 | 78 | 103 | 136 | 180 | 235 | 3 | 372 | 451 | 534 | 619 | 701 | 762 | 800 | 800 |
| 8"(200A) | 31 | 58 | 83 | 109 | 142 | 187 | 248 | 329 | 429 | 547 | 679 | 824 | 977 | 1134 | 1284 | 1394 | 1464 | 1464 |
| 10"(250A) | 53 | 100 | 143 | 188 | 243 | 322 | 428 | 568 | 741 | 944 | 1173 | 1423 | 1693 | 1963 | 2223 | 2413 | 2534 | 2534 |
| 12"(300A) | 79 | 148 | 213 | 280 | 363 | 480 | 638 | 848 | 1103 | 1413 | 1753 | 2123 | 2523 | 2923 | 3314 | 3604 | 3784 | 3784 |
| 14"(350A) | 107 | 202 | 290 | 381 | 495 | 654 | 869 | 1153 | 153 | 1923 | 2384 | 2894 | 3434 | 3984 | 4514 | 4894 | 5144 | 5144 |
| 16"(400A) | 166 | 314 | 452 | 595 | 774 | 1024 | 1355 | 1804 | 2354 | 2993 | 3724 | 4514 | 5354 | 6213 | 7043 | 7644 | 8024 | 8024 |
| 18"(450A) | 218 | 415 | 596 | 784 | 1013 | 1343 | 1783 | 2373 | 3094 | 3944 | 4894 | 5944 | 7054 | 8185 | 9475 | 10105 | 10605 | 10605 |
| 20"(500A) | 270 | 512 | 735 | 967 | 1253 | 1653 | 2203 | 2923 | 3824 | 4864 | 6044 | 7344 | 8714 | 10105 | 11405 | 12405 | 13005 | 1305 |
| 24"(600A) | 387 | 736 | 1062 | 1392 | 1803 | 2383 | 3173 | 4214 | 5504 | 7004 | 8704 | 10604 | 12504 | 14505 | 16505 | 17905 | 18805 | 18805 |
| 28"(700A) | 562 | 1063 | 1533 | 2013 | 2614 | 3454 | 4595 | 6110 | 7970 | 10110 | 12610 | 15310 | 18210 | 21110 | 23910 | 25910 | 27210 | 27210 |
| 30"(750A) | 633 | 1203 | 1725 | 2275 | 2945 | 3885 | 5165 | 6875 | 8965 | 11405 | 14205 | 17210 | 20400 | 23750 | 28950 | 29250 | 30750 | 30750 |
| 32"(800A) | 720 | 1375 | 1975 | 2595 | 3365 | 4445 | 5910 | 7850 | 10230 | 13100 | 16250 | 19750 | 23400 | 27200 | 30750 | 33350 | 35100 | 35100 |
| 36"(900A) | 886 | 1683 | 2423 | 9183 | 4125 | 5455 | 7255 | 9635 | 12650 | 16050 | 19950 | 24250 | 28750 | 33350 | 37750 | 41000 | 43100 | 43100 |
| 40"(1000A | 1173 | 2223 | 3194 | 4215 | 5455 | 7220 | 9590 | 12750 | 16650 | 21250 | 26350 | 31950 | 38000 | 44100 | 49900 | 54200 | 57000 | 57000 |
| 42"(1050A) | 1235 | 2345 | 3375 | 4450 | 5770 | 7620 | 10150 | 13450 | 17650 | 22450 | 27900 | 33800 | 40100 | 46600 | 52700 | 57200 | 60100 | 60100 |
| 48"(1200A) | 1642 | 3122 | 4495 | 5925 | 7675 | 10110 | 13550 | 17950 | 23450 | 29850 | 37100 | 45100 | 53500 | 61950 | 70200 | 76200 | 80100 | 80100 |

Cv值和开度根据本公司标准设计，也可以按照客户要求特殊设计.
口径大于48"的Cv值请咨询YADI技术部.

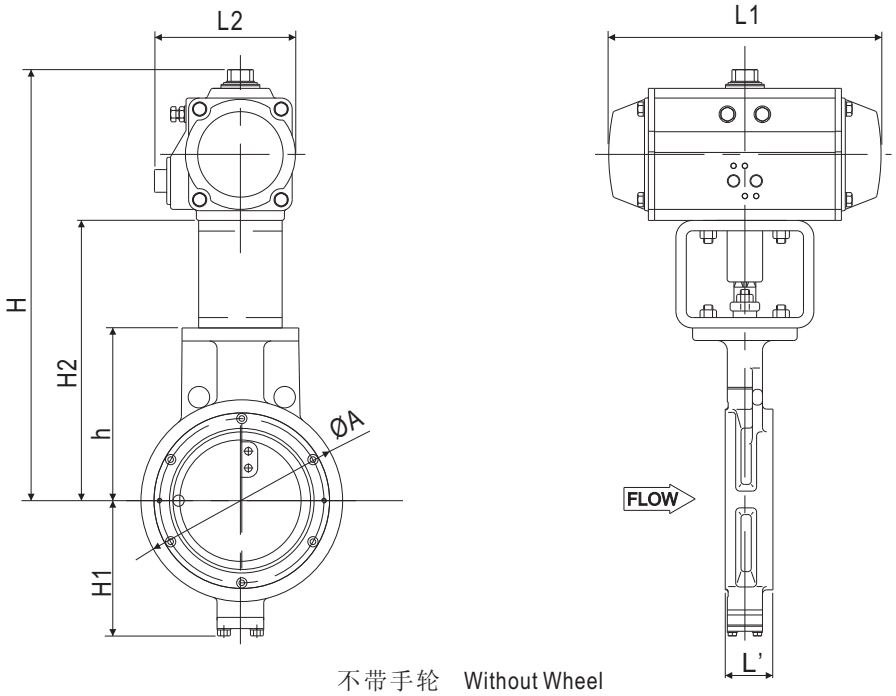
The rating Cv and open degree are designed by the standard of control valves. Yet we can design them for client's special request.
You can ask for the Cv to YADI technology department when the valve size goes beyond 48".

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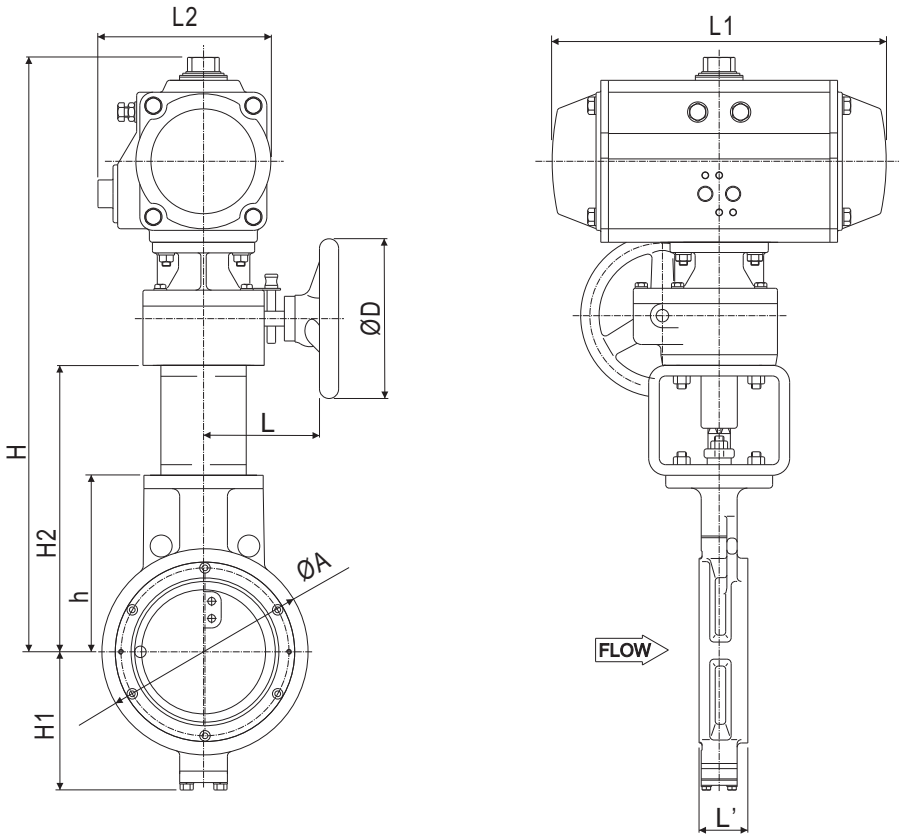


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## 外型尺寸(mm)和重量(Kg) Dimensions[mm] and Weights(Kg)




不带手轮 Without Wheel




带手轮 With Wheel

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YD300T配PC00RA单/双动作执行机构 不带手轮
YD300T Single/Double Action Actuator Without Wheel

| YD300T气动活塞式密封蝶阀 YD300T Series | | | | | | | | 执行机构 Actuator | | | | 重量 Weights | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 型号 Type | 口径 Size | L' | A | H1 | h | H2 | H | L1 | L2 | 执行机构型号 Type | 缸径 Size | 双动作 | 单动作 |
| YD300T | 80A | 46 | 130 | 100 | 140 | 230 | 370 | 205 | 90 | PC25RA | 83 | 13 | 14 |
| | | | | | | 230 | 380 | 260 | 105 | PC30RA | 92 | 15 | 16 |
| | | | | | | 230 | 395 | 270 | 115 | PC35RA | 105 | 16 | 17 |
| | | | | | | 230 | 415 | 300 | 140 | PC40RA | 125 | 19 | 20 |
| | | | | | | 250 | 455 | 390 | 155 | PC45RA | 140 | 21 | 22 |
| | 100A | 52 | 160 | 120 | 160 | 250 | 390 | 260 | 105 | PC30RA | 92 | 18 | 19 |
| | | | | | | 250 | 400 | 270 | 115 | PC35RA | 105 | 19 | 20 |
| | | | | | | 250 | 415 | 300 | 140 | PC40RA | 125 | 22 | 23 |
| | | | | | | 250 | 435 | 390 | 155 | PC45RA | 140 | 26 | 29 |
| | | | | | | 250 | 455 | 460 | 180 | PC50RA | 160 | 34 | 37 |
| | | | | | | 250 | 480 | 525 | 210 | PC55RA | 190 | 38 | 41 |
| | 125A | 56 | 190 | 130 | 170 | 265 | 415 | 270 | 115 | PC35RA | 105 | 24 | 25 |
| | | | | | | 265 | 430 | 300 | 140 | PC40RA | 125 | 27 | 30 |
| | | | | | | 265 | 450 | 390 | 155 | PC45RA | 140 | 31 | 34 |
| | | | | | | 265 | 470 | 460 | 180 | PC50RA | 160 | 39 | 42 |
| | | | | | | 265 | 495 | 525 | 210 | PC55RA | 190 | 57 | 63 |
| | | | | | | 285 | 545 | 535 | 230 | PC60RA | 210 | 65 | 71 |
| | 150A | 56 | 220 | 150 | 185 | 280 | 430 | 270 | 115 | PC35RA | 105 | 30 | 31 |
| | | | | | | 280 | 445 | 300 | 140 | PC40RA | 125 | 33 | 36 |
| | | | | | | 280 | 465 | 390 | 155 | PC45RA | 140 | 37 | 40 |
| | | | | | | 280 | 485 | 460 | 180 | PC50RA | 160 | 57 | 63 |
| | | | | | | 280 | 510 | 525 | 210 | PC55RA | 190 | 61 | 67 |
| | | | | | | 300 | 560 | 535 | 230 | PC60RA | 210 | 66 | 74 |
| | 200A | 60 | 270 | 180 | 220 | 335 | 520 | 390 | 155 | PC45RA | 160 | 49 | 52 |
| | | | | | | 335 | 540 | 460 | 180 | PC50RA | 190 | 57 | 60 |
| | | | | | | 335 | 565 | 525 | 210 | PC55RA | 210 | 75 | 81 |
| | | | | | | 335 | 595 | 535 | 230 | PC60RA | 240 | 82 | 90 |
| | | | | | | 335 | 620 | 605 | 260 | PC65RA | 140 | 102 | 116 |
| | | | | | | 360 | 680 | 725 | 295 | PC70RA | 270 | 110 | 122 |
| | 250A | 68 | 330 | 240 | 280 | 395 | 600 | 460 | 180 | PC50RA | 160 | 87 | 90 |
| | | | | | | 395 | 625 | 525 | 210 | PC55RA | 190 | 105 | 111 |
| | | | | | | 395 | 655 | 535 | 230 | PC60RA | 210 | 112 | 120 |
| | | | | | | 395 | 680 | 605 | 260 | PC65RA | 240 | 132 | 146 |
| | | | | | | 420 | 740 | 725 | 295 | PC70RA | 270 | 160 | 180 |
| | | | | | | 420 | 770 | 745 | 325 | PC75RA | 300 | 186 | 205 |
| | 300A | 78 | 375 | 275 | 320 | 435 | 665 | 525 | 210 | PC55RA | 190 | 118 | 124 |
| | | | | | | 460 | 695 | 535 | 230 | PC60RA | 210 | 125 | 134 |
| | | | | | | 460 | 720 | 605 | 260 | PC65RA | 240 | 146 | 160 |
| | | | | | | 460 | 780 | 725 | 295 | PC70RA | 270 | 175 | 195 |
| | | | | | | 460 | 810 | 745 | 325 | PC75RA | 300 | 196 | 215 |
| | | | | | | 460 | 840 | 860 | 380 | PC80RA | 350 | 217 | 236 |
| | 350A | 78 | 420 | 320 | 350 | 490 | 725 | 535 | 230 | PC60RA | 210 | 137 | 146 |
| | | | | | | 490 | 750 | 605 | 260 | PC65RA | 240 | 158 | 172 |
| | | | | | | 490 | 810 | 725 | 295 | PC70RA | 270 | 187 | 207 |
| | | | | | | 490 | 840 | 745 | 325 | PC75RA | 300 | 200 | 220 |
| | | | | | | 490 | 870 | 860 | 380 | PC80RA | 350 | 220 | 245 |
| | 400A | 102 | 480 | 355 | 395 | 550 | 835 | 605 | 260 | PC65RA | 240 | 217 | 231 |
| | | | | | | 550 | 870 | 725 | 295 | PC70RA | 270 | 248 | 269 |
| | | | | | | 550 | 900 | 745 | 325 | PC75RA | 300 | 264 | 284 |
| | | | | | | 550 | 930 | 860 | 380 | PC80RA | 350 | 288 | 310 |
| | 500A | 127 | 580 | 410 | 450 | 625 | 945 | 725 | 295 | PC70RA | 270 | 312 | 345 |
| | | | | | | 625 | 975 | 745 | 325 | PC75RA | 300 | 322 | 357 |
| | | | | | | 625 | 1005 | 860 | 380 | PC80RA | 350 | 335 | 368 |
| | 600A | 154 | 685 | 490 | 520 | 745 | 1065 | 725 | 295 | PC70RA | 270 | 343 | 370 |
| | | | | | | 745 | 1095 | 745 | 325 | PC75RA | 300 | 366 | 388 |
| | | | | | | 745 | 1130 | 860 | 380 | PC80RA | 350 | 382 | 406 |

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YD300T配PC00RA双动作执行机构 带手轮
YD300T Double Action Actuator With Wheel

| YD300T气动活塞式密封蝶阀 YD300T Series | | | | | | | | 执行机构 Actuator | | | | | | 重量 Weights |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 型号 Type | 口径 Size | L' | A | H1 | h | H2 | H | D | L | L1 | L2 | 执行机构型号 Type | 缸径 Size | |
| YD300T | 80A | 46 | 130 | 100 | 140 | 230 | 445 | 200 | 195 | 205 | 90 | PC25RA | 83 | 25 |
| | | | | | | 230 | 455 | 200 | 195 | 260 | 105 | PC30RA | 92 | 30 |
| | | | | | | 230 | 475 | 200 | 195 | 270 | 115 | PC35RA | 105 | 32 |
| | 100A | 52 | 160 | 120 | 160 | 250 | 475 | 200 | 195 | 260 | 105 | PC30RA | 92 | 33 |
| | | | | | | 250 | 495 | 200 | 195 | 270 | 115 | PC35RA | 105 | 36 |
| | | | | | | 250 | 510 | 200 | 225 | 300 | 140 | PC40RA | 125 | 35 |
| | | | | | | 250 | 530 | 200 | 235 | 390 | 155 | PC45RA | 140 | 39 |
| | 125A | 56 | 190 | 130 | 170 | 265 | 525 | 200 | 225 | 300 | 140 | PC40RA | 125 | 40 |
| | | | | | | 265 | 525 | 300 | 235 | 390 | 155 | PC45RA | 140 | 51 |
| | | | | | | 265 | 580 | 300 | 235 | 460 | 180 | PC50RA | 160 | 56 |
| | 150A | 56 | 220 | 150 | 185 | 280 | 540 | 200 | 225 | 300 | 140 | PC40RA | 125 | 48 |
| | | | | | | 280 | 560 | 300 | 235 | 390 | 155 | PC45RA | 140 | 57 |
| | | | | | | 280 | 595 | 300 | 235 | 460 | 180 | PC50RA | 160 | 63 |
| | 200A | 60 | 270 | 180 | 220 | 335 | 630 | 300 | 235 | 390 | 155 | PC45RA | 140 | 69 |
| | | | | | | 335 | 650 | 300 | 235 | 460 | 180 | PC50RA | 160 | 77 |
| | | | | | | 335 | 675 | 300 | 235 | 525 | 210 | PC55RA | 190 | 95 |
| | | | | | | 335 | 705 | 300 | 235 | 535 | 230 | PC60RA | 210 | 114 |
| | 250A | 68 | 330 | 240 | 280 | 395 | 710 | 300 | 235 | 460 | 180 | PC50RA | 160 | 106 |
| | | | | | | 395 | 735 | 300 | 235 | 525 | 210 | PC55RA | 190 | 124 |
| | | | | | | 395 | 765 | 300 | 235 | 535 | 230 | PC60RA | 210 | 131 |
| | | | | | | 395 | 790 | 400 | 235 | 605 | 260 | PC65RA | 240 | 155 |
| | | | | | | 420 | 875 | 400 | 280 | 725 | 295 | PC70RA | 270 | 180 |
| | 300A | 78 | 375 | 275 | 320 | 460 | 800 | 300 | 235 | 525 | 210 | PC55RA | 190 | 137 |
| | | | | | | 460 | 830 | 300 | 235 | 535 | 230 | PC60RA | 210 | 144 |
| | | | | | | 460 | 855 | 400 | 235 | 605 | 260 | PC65RA | 240 | 166 |
| | | | | | | 460 | 915 | 400 | 280 | 725 | 295 | PC70RA | 270 | 186 |
| | 350A | 78 | 420 | 320 | 350 | 490 | 860 | 300 | 235 | 535 | 230 | PC60RA | 210 | 156 |
| | | | | | | 490 | 885 | 400 | 280 | 605 | 260 | PC65RA | 240 | 178 |
| | | | | | | 490 | 945 | 400 | 280 | 725 | 295 | PC70RA | 270 | 209 |
| | | | | | | 490 | 975 | 600 | 280 | 745 | 325 | PC75RA | 300 | 232 |
| | 400A | 102 | 480 | 355 | 395 | 550 | 945 | 400 | 235 | 605 | 260 | PC65RA | 240 | 242 |
| | | | | | | 550 | 1005 | 400 | 280 | 725 | 295 | PC70RA | 270 | 273 |
| | | | | | | 550 | 1035 | 600 | 280 | 745 | 325 | PC75RA | 300 | 299 |
| | | | | | | 550 | 1070 | 600 | 325 | 860 | 380 | PC80RA | 350 | 326 |
| | 500A | 127 | 580 | 410 | 450 | 625 | 1080 | 400 | 280 | 725 | 295 | PC70RA | 270 | 339 |
| | | | | | | 625 | 1110 | 600 | 280 | 745 | 325 | PC75RA | 300 | 365 |
| | | | | | | 625 | 1145 | 600 | 325 | 860 | 380 | PC80RA | 350 | 402 |
| | 600A | 154 | 685 | 490 | 520 | 745 | 1080 | 400 | 280 | 725 | 295 | PC70RA | 270 | 371 |
| | | | | | | 745 | 1110 | 600 | 280 | 745 | 325 | PC75RA | 300 | 394 |
| | | | | | | 745 | 1145 | 600 | 325 | 860 | 380 | PC80RA | 350 | 425 |

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## YD300T配PC00RA单动作执行机构 带手轮
## YD300T Single Action Actuator With Wheel

| YD300T气动活塞式密封蝶阀 YD300T Series | | | | | | | | 执行机构 Actuator | | | | | | 重量 Weights |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 型号 Type | 口径 Size | L' | A | H1 | h | H2 | H | D | L | L1 | L2 | 执行机构型号 Type | 缸径 Size | |
| YD300T | 80A | 46 | 130 | 100 | 140 | 230 | 490 | 200 | 225 | 300 | 140 | PC40RA | 125 | 35 |
| | | | | | | 230 | 510 | 300 | 235 | 390 | 155 | PC45RA | 140 | 43 |
| | | | | | | 230 | 545 | 300 | 235 | 460 | 180 | PC50RA | 160 | 51 |
| | 100A | 52 | 160 | 120 | 160 | 250 | 530 | 300 | 235 | 390 | 155 | PC45RA | 140 | 50 |
| | | | | | | 255 | 570 | 300 | 235 | 460 | 180 | PC50RA | 160 | 58 |
| | | | | | | 255 | 595 | 400 | 235 | 525 | 210 | PC55RA | 190 | 62 |
| | 125A | 56 | 190 | 130 | 170 | 265 | 580 | 300 | 235 | 460 | 180 | PC50RA | 160 | 62 |
| | | | | | | 265 | 605 | 400 | 280 | 525 | 210 | PC55RA | 190 | 87 |
| | | | | | | 280 | 675 | 400 | 280 | 535 | 230 | PC60RA | 210 | 102 |
| | 150A | 56 | 220 | 150 | 185 | 280 | 595 | 300 | 235 | 460 | 180 | PC50RA | 160 | 68 |
| | | | | | | 280 | 620 | 400 | 280 | 525 | 210 | PC55RA | 190 | 96 |
| | | | | | | 300 | 695 | 400 | 280 | 535 | 230 | PC60RA | 210 | 120 |
| | 200A | 60 | 270 | 180 | 220 | 335 | 675 | 400 | 280 | 525 | 210 | PC55RA | 190 | 106 |
| | | | | | | 335 | 730 | 400 | 280 | 535 | 230 | PC60RA | 210 | 115 |
| | | | | | | 335 | 755 | 600 | 325 | 605 | 260 | PC65RA | 240 | 148 |
| | | | | | | 360 | 820 | 600 | 325 | 725 | 295 | PC70RA | 270 | 174 |
| | 250A | 68 | 330 | 240 | 280 | 395 | 790 | 400 | 280 | 535 | 230 | PC60RA | 210 | 144 |
| | | | | | | 395 | 815 | 600 | 325 | 605 | 260 | PC65RA | 240 | 179 |
| | | | | | | 420 | 855 | 600 | 325 | 725 | 295 | PC70RA | 270 | 217 |
| | | | | | | 420 | 885 | 600 | 325 | 745 | 325 | PC75RA | 300 | 250 |
| | 300A | 78 | 375 | 275 | 320 | 460 | 920 | 600 | 325 | 725 | 295 | PC70RA | 270 | 228 |
| | | | | | | 460 | 950 | 600 | 325 | 745 | 325 | PC75RA | 300 | 265 |
| | | | | | | 460 | 980 | 600 | 325 | 860 | 380 | PC80RA | 350 | 305 |
| | 350A | 78 | 420 | 320 | 350 | 490 | 950 | 600 | 325 | 725 | 295 | PC70RA | 270 | 240 |
| | | | | | | 490 | 980 | 600 | 325 | 745 | 325 | PC75RA | 300 | 285 |
| | | | | | | 490 | 1010 | 600 | 325 | 860 | 380 | PC80RA | 350 | 325 |
| | 400A | 102 | 480 | 355 | 395 | 550 | 1040 | 600 | 325 | 745 | 325 | PC75RA | 300 | 330 |
| | | | | | | 550 | 1070 | 600 | 325 | 860 | 380 | PC80RA | 350 | 370 |
| | 500A | 127 | 580 | 410 | 450 | 625 | 1115 | 600 | 325 | 745 | 295 | PC75RA | 300 | 395 |
| | | | | | | 625 | 1145 | 600 | 325 | 860 | 380 | PC80RA | 350 | 438 |
| | 600A | 154 | 685 | 490 | 520 | 745 | 1115 | 600 | 325 | 745 | 295 | PC75RA | 300 | 405 |
| | | | | | | 745 | 1145 | 600 | 325 | 860 | 380 | PC80RA | 350 | 450 |

阀门口径在600A以上的参数请咨询YADI技术部或者营业部.
When the valve size goes beyond 600A, you can ask for the data to YADI technology department or business department.

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## 最大许用压差(MPa) Maximal Allowable Press Drop MPaG (L CLASS)

Shut:阀关闭时的允许压差 Allowable Press Drop When Shut
ΔP:90°开度时的允许压差 Allowable Press Drop When 90° Degree

### 1. 双动作活塞式执行机构允许压差
### Allowable Press Drop of Double Action Actuator

双动作活塞式执行机构(AT执行机构),气源压力:400KPaG
Double Action Pneumatic Actuator(AT Actuator),Air Supply :400KPaG

| 执行机构 Actuator | 阀杆材质 Stem Materials | 用途 Purpose | 填料:聚四氟乙烯 Packing:PTFE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| PA25RA (AT251) | 17-4PH | Shut | 0.59 | | | | | | | | | | |
| | | △P | 0.29 | | | | | | | | | | |
| | 316SS | Shut | 0.5 | | | | | | | | | | |
| | | △P | 0.29 | | | | | | | | | | |
| PA30RA (AT301) | 17-4PH | Shut | 1.37 | 0.4 | 0.18 | | | | | | | | |
| | | △P | 0.49 | 0.22 | 0.13 | | | | | | | | |
| | 316SS | Shut | 0.5 | 0.4 | 0.18 | | | | | | | | |
| | | △P | 0.34 | 0.22 | 0.13 | | | | | | | | |
| PA35RA (AT351) | 17-4PH | Shut | 1.85 | 0.91 | 0.56 | 0.26 | | | | | | | |
| | | △P | 0.72 | 0.34 | 0.21 | 0.11 | | | | | | | |
| | 316SS | Shut | 0.5 | 0.86 | 0.52 | 0.25 | | | | | | | |
| | | △P | 0.34 | 0.34 | 0.21 | 0.11 | | | | | | | |
| PA40RA (AT401) | 17-4PH | Shut | | 1.85 | 1.32 | 0.73 | 0.17 | | | | | | |
| | | △P | | 0.57 | 0.35 | 0.18 | 0.06 | | | | | | |
| | 316SS | Shut | | 0.86 | 0.52 | 0.25 | 0.17 | | | | | | |
| | | △P | | 0.41 | 0.25 | 0.13 | 0.06 | | | | | | |
| PA45RA (AT451) | 17-4PH | Shut | | 1.85 | 1.81 | 1.03 | 0.33 | | | | | | |
| | | △P | | 0.75 | 0.46 | 0.24 | 0.09 | | | | | | |
| | 316SS | Shut | | 0.86 | 0.52 | 0.25 | 0.33 | | | | | | |
| | | △P | | 0.41 | 0.25 | 0.13 | 0.09 | | | | | | |
| PA50RA (AT501) | 17-4PH | Shut | | | 1.81 | 1.03 | 0.75 | 0.21 | | | | | |
| | | △P | | | 0.54 | 0.28 | 0.15 | 0.07 | | | | | |
| | 316SS | Shut | | | 0.52 | 0.25 | 0.37 | 0.21 | | | | | |
| | | △P | | | 0.25 | 0.13 | 0.12 | 0.07 | | | | | |
| PA55RA (AT551) | 17-4PH | Shut | | | | | 1.11 | 0.4 | 0.18 | 0.06 | | | |
| | | △P | | | | | 0.2 | 0.1 | 0.06 | 0.03 | | | |
| | 316SS | Shut | | | | | 0.37 | 0.38 | 0.18 | 0.06 | | | |
| | | △P | | | | | 0.12 | 0.1 | 0.06 | 0.03 | | | |
| PA60RA (AT6011) | 17-4PH | Shut | | | | | 1.21 | 0.69 | 0.37 | 0.19 | 0.06 | | |
| | | △P | | | | | 0.27 | 0.14 | 0.08 | 0.05 | 0.03 | | |
| | 316SS | Shut | | | | | 0.37 | 0.38 | 0.17 | 0.19 | 0.06 | | |
| | | △P | | | | | 0.12 | 0.12 | 0.07 | 0.05 | 0.03 | | |
| PA65RA (AT651) | 17-4PH | Shut | | | | | | 1.13 | 0.66 | 0.36 | 0.18 | 0.07 | |
| | | △P | | | | | | 0.2 | 0.12 | 0.08 | 0.05 | 0.03 | |
| | 316SS | Shut | | | | | | 0.38 | 0.17 | 0.34 | 0.18 | 0.07 | |
| | | △P | | | | | | 0.12 | 0.07 | 0.08 | 0.05 | 0.03 | |
| PA70RA (AT701) | 17-4PH | Shut | | | | | | 1.25 | 0.73 | 0.8 | 0.48 | 0.29 | 0.19 |
| | | △P | | | | | | 0.27 | 0.16 | 0.14 | 0.09 | 0.06 | 0.04 |
| | 316SS | Shut | | | | | | 0.38 | 0.17 | 0.34 | 0.34 | 0.29 | 0.19 |
| | | △P | | | | | | 0.12 | 0.07 | 0.09 | 0.09 | 0.06 | 0.04 |
| PA80RA (AT801) | 17-4PH | Shut | | | | | | | | 1.02 | 0.8 | 0.53 | 0.37 |
| | | △P | | | | | | | | 0.21 | 0.13 | 0.09 | 0.06 |
| | 316SS | Shut | | | | | | | | 0.34 | 0.34 | 0.4 | 0.27 |
| | | △P | | | | | | | | 0.09 | 0.09 | 0.09 | 0.06 |
| PA90RA (AT901) | 17-4PH | Shut | | | | | | | | | 0.99 | 1.11 | 0.81 |
| | | △P | | | | | | | | | 0.2 | 0.17 | 0.12 |
| | 316SS | Shut | | | | | | | | | 0.34 | 0.4 | 0.27 |
| | | △P | | | | | | | | | 0.09 | 0.09 | 0.06 |

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Shut:阀关闭时的允许压差 Allowable Press Drop When Shut
ΔP: 90°开度时的允许压差 Allowable Press Drop When 90° Degree

双动作活塞式执行机构(AT执行机构),气源压力:400KPaG
Double Action Pneumatic Actuator(AT Actuator),Air Supply :400KPaG

| 执行机构 Actuator | 阀杆材质 Stem Materials | 用途 Purpose | 填料:柔性石墨 Packing:Graphite | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| PA25RA (AT251) | 17-4PH | Shut | 0.48 | | | | | | | | | | |
| | | △P | 0.25 | | | | | | | | | | |
| | 316SS | Shut | 0.37 | | | | | | | | | | |
| | | △P | 0.25 | | | | | | | | | | |
| PA30RA (AT301) | 17-4PH | Shut | 1.23 | 0.28 | | | | | | | | | |
| | | △P | 0.45 | 0.19 | | | | | | | | | |
| | 316SS | Shut | 0.37 | 0.28 | | | | | | | | | |
| | | △P | 0.3 | 0.19 | | | | | | | | | |
| PA35RA (AT351) | 17-4PH | Shut | 1.74 | 0.79 | 0.47 | 0.21 | | | | | | | |
| | | △P | 0.68 | 0.3 | 0.19 | 0.09 | | | | | | | |
| | 316SS | Shut | 0.37 | 0.74 | 0.43 | 0.19 | | | | | | | |
| | | △P | 0.3 | 0.3 | 0.19 | 0.09 | | | | | | | |
| PA40RA (AT401) | 17-4PH | Shut | | 1.81 | 1.23 | 0.68 | 0.11 | | | | | | |
| | | △P | | 0.54 | 0.33 | 0.17 | 0.05 | | | | | | |
| | 316SS | Shut | | 0.74 | 0.43 | 0.19 | 0.11 | | | | | | |
| | | △P | | 0.37 | 0.23 | 0.12 | 0.05 | | | | | | |
| PA45RA (AT451) | 17-4PH | Shut | | 1.85 | 1.72 | 0.98 | 0.27 | | | | | | |
| | | △P | | 0.72 | 0.44 | 0.23 | 0.08 | | | | | | |
| | 316SS | Shut | | 0.74 | 0.43 | 0.19 | 0.27 | | | | | | |
| | | △P | | 0.37 | 0.23 | 0.12 | 0.08 | | | | | | |
| PA50RA (AT501) | 17-4PH | Shut | | | 1.72 | 0.98 | 0.69 | 0.16 | | | | | |
| | | △P | | | 0.52 | 0.27 | 0.14 | 0.06 | | | | | |
| | 316SS | Shut | | | 0.43 | 0.19 | 0.3 | 0.16 | | | | | |
| | | △P | | | 0.23 | 0.12 | 0.11 | 0.06 | | | | | |
| PA55RA (AT551) | 17-4PH | Shut | | | | | 1.04 | 0.34 | 0.14 | 0.03 | | | |
| | | △P | | | | | 0.19 | 0.09 | 0.05 | 0.03 | | | |
| | 316SS | Shut | | | | | 0.3 | 0.32 | 0.14 | 0.03 | | | |
| | | △P | | | | | 0.11 | 0.09 | 0.05 | 0.03 | | | |
| PA60RA (AT6011) | 17-4PH | Shut | | | | | 1.15 | 0.64 | 0.33 | 0.15 | 0.02 | | |
| | | △P | | | | | 0.25 | 0.13 | 0.07 | 0.05 | 0.02 | | |
| | 316SS | Shut | | | | | 0.3 | 0.32 | 0.13 | 0.15 | 0.02 | | |
| | | △P | | | | | 0.11 | 0.11 | 0.06 | 0.05 | 0.02 | | |
| PA65RA (AT651) | 17-4PH | Shut | | | | | | 1.07 | 0.62 | 0.33 | 0.15 | 0.04 | |
| | | △P | | | | | | 0.2 | 0.11 | 0.07 | 0.04 | 0.02 | |
| | 316SS | Shut | | | | | | 0.32 | 0.13 | 0.31 | 0.15 | 0.04 | |
| | | △P | | | | | | 0.11 | 0.06 | 0.07 | 0.04 | 0.02 | |
| PA70RA (AT701) | 17-4PH | Shut | | | | | | 1.2 | 0.7 | 0.76 | 0.44 | 0.26 | 0.17 |
| | | △P | | | | | | 0.26 | 0.15 | 0.13 | 0.08 | 0.05 | 0.04 |
| | 316SS | Shut | | | | | | 0.32 | 0.13 | 0.31 | 0.31 | 0.26 | 0.17 |
| | | △P | | | | | | 0.11 | 0.06 | 0.09 | 0.08 | 0.05 | 0.04 |
| PA80RA (AT801) | 17-4PH | Shut | | | | | | | | 0.99 | 0.77 | 0.5 | 0.34 |
| | | △P | | | | | | | | 0.21 | 0.13 | 0.08 | 0.06 |
| | 316SS | Shut | | | | | | | | 0.31 | 0.31 | 0.37 | 0.25 |
| | | △P | | | | | | | | 0.09 | 0.08 | 0.08 | 0.06 |
| PA90RA (AT901) | 17-4PH | Shut | | | | | | | | | 0.96 | 1.08 | 0.78 |
| | | △P | | | | | | | | | 0.19 | 0.16 | 0.12 |
| | 316SS | Shut | | | | | | | | | 0.31 | 0.37 | 0.25 |
| | | △P | | | | | | | | | 0.08 | 0.09 | 0.06 |

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双动作活塞式执行机构(ALPHA执行机构),气源压力:400KPaG
Double Action Pneumatic Actuator(ALPHA Actuator),Air Supply :400KPaG

| 执行机构 Actuator | 阀杆材质 Stem Materials | 用途 Purpose | 填料:聚四氟乙烯 Packing:PTFE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| PC25RA (DA83) | 17-4PH | Shut | 0.41 | | | | | | | | | | |
| | | △P | 0.25 | | | | | | | | | | |
| | 316SS | Shut | 0.41 | | | | | | | | | | |
| | | △P | 0.25 | | | | | | | | | | |
| PC30RA (DA92) | 17-4PH | Shut | 1.03 | 0.23 | | | | | | | | | |
| | | △P | 0.4 | 0.18 | | | | | | | | | |
| | 316SS | Shut | 0.5 | 0.23 | | | | | | | | | |
| | | △P | 0.34 | 0.18 | | | | | | | | | |
| PC35RA (DA105) | 17-4PH | Shut | 1.85 | 0.68 | 0.38 | 0.16 | | | | | | | |
| | | △P | 0.61 | 0.28 | 0.17 | 0.09 | | | | | | | |
| | 316SS | Shut | 0.5 | 0.68 | 0.38 | 0.16 | | | | | | | |
| | | △P | 0.34 | 0.28 | 0.17 | 0.09 | | | | | | | |
| PC40RA (DA125) | 17-4PH | Shut | | 1.31 | 0.85 | 0.45 | 0.04 | | | | | | |
| | | △P | | 0.43 | 0.26 | 0.14 | 0.04 | | | | | | |
| | 316SS | Shut | | 0.86 | 0.52 | 0.25 | 0.04 | | | | | | |
| | | △P | | 0.41 | 0.25 | 0.13 | 0.04 | | | | | | |
| PC45RA (DA140) | 17-4PH | Shut | | 1.85 | 1.7 | 0.97 | 0.28 | | | | | | |
| | | △P | | 0.69 | 0.42 | 0.22 | 0.08 | | | | | | |
| | 316SS | Shut | | 0.86 | 0.52 | 0.25 | 0.28 | | | | | | |
| | | △P | | 0.41 | 0.25 | 0.13 | 0.08 | | | | | | |
| PC50RA (DA160) | 17-4PH | Shut | | | 1.81 | 1.03 | 0.76 | 0.22 | | | | | |
| | | △P | | | 0.54 | 0.28 | 0.15 | 0.07 | | | | | |
| | 316SS | Shut | | | 0.52 | 0.25 | 0.37 | 0.22 | | | | | |
| | | △P | | | 0.25 | 0.13 | 0.12 | 0.07 | | | | | |
| PC55RA (DA190) | 17-4PH | Shut | | | | | 1.21 | 0.55 | 0.27 | 0.13 | | | |
| | | △P | | | | | 0.24 | 0.12 | 0.07 | 0.04 | | | |
| | 316SS | Shut | | | | | 0.37 | 0.38 | 0.27 | 0.13 | | | |
| | | △P | | | | | 0.12 | 0.12 | 0.07 | 0.04 | | | |
| PC60RA (DA210) | 17-4PH | Shut | | | | | 1.21 | 1.15 | 0.67 | 0.37 | 0.19 | | |
| | | △P | | | | | 0.27 | 0.21 | 0.12 | 0.08 | 0.05 | | |
| | 316SS | Shut | | | | | 0.37 | 0.38 | 0.17 | 0.34 | 0.19 | | |
| | | △P | | | | | 0.12 | 0.12 | 0.07 | 0.08 | 0.05 | | |
| PC65RA (DA240) | 17-4PH | Shut | | | | | | 1.25 | 0.73 | 0.52 | 0.28 | 0.15 | |
| | | △P | | | | | | 0.25 | 0.15 | 0.1 | 0.06 | 0.04 | |
| | 316SS | Shut | | | | | | 0.38 | 0.17 | 0.34 | 0.28 | 0.15 | |
| | | △P | | | | | | 0.12 | 0.07 | 0.09 | 0.06 | 0.04 | |
| PC70RA (DA270) | 17-4PH | Shut | | | | | | 1.25 | 0.73 | 0.89 | 0.54 | 0.33 | 0.23 |
| | | △P | | | | | | 0.27 | 0.16 | 0.15 | 0.1 | 0.06 | 0.04 |
| | 316SS | Shut | | | | | | 0.38 | 0.17 | 0.34 | 0.34 | 0.33 | 0.23 |
| | | △P | | | | | | 0.12 | 0.07 | 0.09 | 0.09 | 0.06 | 0.04 |
| PC75RA (DA300) | 17-4PH | Shut | | | | | | | | 1.02 | 0.95 | 0.64 | 0.45 |
| | | △P | | | | | | | | 0.21 | 0.15 | 0.1 | 0.07 |
| | 316SS | Shut | | | | | | | | 0.34 | 0.34 | 0.4 | 0.27 |
| | | △P | | | | | | | | 0.09 | 0.09 | 0.09 | 0.06 |
| PC80RA (DA350) | 17-4PH | Shut | | | | | | | | | 0.99 | 0.9 | 0.66 |
| | | △P | | | | | | | | | 0.2 | 0.14 | 0.1 |
| | 316SS | Shut | | | | | | | | | 0.34 | 0.4 | 0.27 |
| | | △P | | | | | | | | | 0.09 | 0.09 | 0.06 |
| PC90RA (DA400) | 17-4PH | Shut | | | | | | | | | | 1.11 | 0.81 |
| | | △P | | | | | | | | | | 0.2 | 0.15 |
| | 316SS | Shut | | | | | | | | | | 0.4 | 0.27 |
| | | △P | | | | | | | | | | 0.09 | 0.06 |

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双动作活塞式执行机构(ALPHA执行机构),气源压力:400KPaG
Double Action Pneumatic Actuator(ALPHA Actuator),Air Supply :400KPaG

| 执行机构 Actuator | 阀杆材质 Stem Materials | 用途 Purpose | 填料:柔性石墨 Packing:Graphite | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| PC25RA (DA83) | 17-4PH | Shut | 0.28 | | | | | | | | | | |
| | | △P | 0.21 | | | | | | | | | | |
| | 316SS | Shut | 0.28 | | | | | | | | | | |
| | | △P | 0.21 | | | | | | | | | | |
| PC30RA (DA92) | 17-4PH | Shut | 0.9 | 0.1 | | | | | | | | | |
| | | △P | 0.36 | 0.15 | | | | | | | | | |
| | 316SS | Shut | 0.37 | 0.1 | | | | | | | | | |
| | | △P | 0.3 | 0.15 | | | | | | | | | |
| PC35RA (DA105) | 17-4PH | Shut | 1.74 | 0.56 | 0.29 | 0.1 | | | | | | | |
| | | △P | 0.57 | 0.25 | 0.15 | 0.08 | | | | | | | |
| | 316SS | Shut | 0.37 | 0.56 | 0.29 | 0.1 | | | | | | | |
| | | △P | 0.3 | 0.25 | 0.15 | 0.08 | | | | | | | |
| PC40RA (DA125) | 17-4PH | Shut | | 1.19 | 0.76 | 0.39 | | | | | | | |
| | | △P | | 0.4 | 0.24 | 0.12 | | | | | | | |
| | 316SS | Shut | | 0.74 | 0.43 | 0.19 | | | | | | | |
| | | △P | | 0.37 | 0.23 | 0.12 | | | | | | | |
| PC45RA (DA140) | 17-4PH | Shut | | 1.85 | 1.61 | 0.91 | 0.22 | | | | | | |
| | | △P | | 0.66 | 0.4 | 0.21 | 0.07 | | | | | | |
| | 316SS | Shut | | 0.74 | 0.43 | 0.19 | 0.22 | | | | | | |
| | | △P | | 0.37 | 0.23 | 0.12 | 0.07 | | | | | | |
| PC50RA (DA160) | 17-4PH | Shut | | | 1.72 | 0.98 | 0.7 | 0.16 | | | | | |
| | | △P | | | 0.52 | 0.27 | 0.14 | 0.06 | | | | | |
| | 316SS | Shut | | | 0.43 | 0.19 | 0.3 | 0.16 | | | | | |
| | | △P | | | 0.23 | 0.12 | 0.11 | 0.06 | | | | | |
| PC55RA (DA190) | 17-4PH | Shut | | | | | 1.15 | 0.5 | 0.24 | 0.09 | | | |
| | | △P | | | | | 0.23 | 0.11 | 0.06 | 0.04 | | | |
| | 316SS | Shut | | | | | 0.3 | 0.32 | 0.24 | 0.09 | | | |
| | | △P | | | | | 0.11 | 0.11 | 0.06 | 0.04 | | | |
| PC60RA (DA210) | 17-4PH | Shut | | | | | 1.15 | 1.09 | 0.63 | 0.33 | 0.15 | | |
| | | △P | | | | | 0.25 | 0.2 | 0.11 | 0.07 | 0.04 | | |
| | 316SS | Shut | | | | | 0.3 | 0.32 | 0.13 | 0.31 | 0.15 | | |
| | | △P | | | | | 0.11 | 0.11 | 0.06 | 0.07 | 0.04 | | |
| PC65RA (DA240) | 17-4PH | Shut | | | | | | 1.2 | 0.7 | 0.48 | 0.25 | 0.12 | |
| | | △P | | | | | | 0.25 | 0.14 | 0.09 | 0.05 | 0.03 | |
| | 316SS | Shut | | | | | | 0.32 | 0.13 | 0.31 | 0.25 | 0.12 | |
| | | △P | | | | | | 0.11 | 0.06 | 0.09 | 0.05 | 0.03 | |
| PC70RA (DA270) | 17-4PH | Shut | | | | | | 1.2 | 0.7 | 0.85 | 0.5 | 0.3 | 0.2 |
| | | △P | | | | | | 0.26 | 0.15 | 0.15 | 0.09 | 0.06 | 0.04 |
| | 316SS | Shut | | | | | | 0.32 | 0.13 | 0.31 | 0.31 | 0.3 | 0.2 |
| | | △P | | | | | | 0.11 | 0.06 | 0.09 | 0.08 | 0.06 | 0.04 |
| PC75RA (DA300) | 17-4PH | Shut | | | | | | | | 0.99 | 0.91 | 0.61 | 0.43 |
| | | △P | | | | | | | | 0.21 | 0.15 | 0.1 | 0.07 |
| | 316SS | Shut | | | | | | | | 0.31 | 0.31 | 0.37 | 0.25 |
| | | △P | | | | | | | | 0.09 | 0.08 | 0.09 | 0.06 |
| PC80RA (DA350) | 17-4PH | Shut | | | | | | | | | 0.96 | 0.87 | 0.63 |
| | | △P | | | | | | | | | 0.19 | 0.13 | 0.1 |
| | 316SS | Shut | | | | | | | | | 0.31 | 0.37 | 0.25 |
| | | △P | | | | | | | | | 0.08 | 0.09 | 0.06 |
| PC90RA (DA400) | 17-4PH | Shut | | | | | | | | | | 1.08 | 0.78 |
| | | △P | | | | | | | | | | 0.2 | 0.15 |
| | 316SS | Shut | | | | | | | | | | 0.37 | 0.25 |
| | | △P | | | | | | | | | | 0.09 | 0.06 |

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## 2. 单动作弹簧复位型执行机构允许压差
## Allowable Press Drop of Single Action Actuator

单动作弹簧复位型执行机构(AT执行机构),气源压力:400KPaG
Single Action Spring Return Actuator(AT Actuator),Air Supply :400KPaG

| 执行机构 Actuator | 阀杆材质 Stem Materials | 状态 State | 填料:聚四氟乙烯 Packing:PTFE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| PA25RA (AT251) | 17-4PH | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| | 316SS | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| PA30RA (AT301) | 17-4PH | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| | 316SS | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| PA35RA (AT351) | 17-4PH | Shut | 0.27 | | | | | | | | | | |
| | | △P | 0.18 | | | | | | | | | | |
| | 316SS | Shut | 0.27 | | | | | | | | | | |
| | | △P | 0.18 | | | | | | | | | | |
| PA40RA (AT401) | 17-4PH | Shut | 0.84 | 0.13 | | | | | | | | | |
| | | △P | 0.3 | 0.13 | | | | | | | | | |
| | 316SS | Shut | 0.5 | 0.13 | | | | | | | | | |
| | | △P | 0.3 | 0.13 | | | | | | | | | |
| PA45RA (AT451) | 17-4PH | Shut | 1.39 | 0.41 | 0.19 | | | | | | | | |
| | | △P | 0.42 | 0.19 | 0.11 | | | | | | | | |
| | 316SS | Shut | 0.5 | 0.41 | 0.19 | | | | | | | | |
| | | △P | 0.34 | 0.19 | 0.11 | | | | | | | | |
| PA50RA (AT501) | 17-4PH | Shut | 1.85 | 1.08 | 0.69 | 0.34 | | | | | | | |
| | | △P | 0.69 | 0.32 | 0.2 | 0.1 | | | | | | | |
| | 316SS | Shut | 0.5 | 0.86 | 0.5 | 0.25 | | | | | | | |
| | | △P | 0.34 | 0.32 | 0.2 | 0.1 | | | | | | | |
| PA55RA (AT551) | 17-4PH | Shut | | 1.67 | 1.12 | 0.61 | 0.11 | | | | | | |
| | | △P | | 0.44 | 0.27 | 0.14 | 0.05 | | | | | | |
| | 316SS | Shut | | 0.86 | 0.52 | 0.25 | 0.11 | | | | | | |
| | | △P | | 0.41 | 0.25 | 0.13 | 0.05 | | | | | | |
| PA60RA (AT6011) | 17-4PH | Shut | | 1.85 | 1.56 | 0.88 | 0.24 | | | | | | |
| | | △P | | 0.55 | 0.34 | 0.18 | 0.06 | | | | | | |
| | 316SS | Shut | | 0.86 | 0.52 | 0.25 | 0.24 | | | | | | |
| | | △P | | 0.41 | 0.25 | 0.13 | 0.06 | | | | | | |
| PA65RA (AT651) | 17-4PH | Shut | | | 1.81 | 1.03 | 0.55 | 0.09 | | | | | |
| | | △P | | | 0.51 | 0.27 | 0.1 | 0.05 | | | | | |
| | 316SS | Shut | | | 0.52 | 0.25 | 0.37 | 0.09 | | | | | |
| | | △P | | | 0.25 | 0.13 | 0.1 | 0.05 | | | | | |
| PA70RA (AT701) | 17-4PH | Shut | | | | | 1.21 | 0.47 | 0.23 | 0.09 | | | |
| | | △P | | | | | 0.19 | 0.09 | 0.05 | 0.03 | | | |
| | 316SS | Shut | | | | | 0.37 | 0.38 | 0.17 | 0.09 | | | |
| | | △P | | | | | 0.12 | 0.09 | 0.05 | 0.03 | | | |
| PA80RA (AT801) | 17-4PH | Shut | | | | | | 0.76 | 0.41 | 0.22 | 0.08 | | |
| | | △P | | | | | | 0.13 | 0.07 | 0.05 | 0.03 | | |
| | 316SS | Shut | | | | | | 0.38 | 0.17 | 0.22 | 0.08 | | |
| | | △P | | | | | | 0.12 | 0.07 | 0.05 | 0.03 | | |

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单动作弹簧复位型执行机构(AT执行机构),气源压力:400KPaG
Single Action Spring Return Actuator(AT Actuator),Air Supply :400KPaG

| 执行机构 Actuator | 阀杆材质 Stem Materials | 状态 State | 填料:柔性石墨 Packing:Graphite | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| PA25RA (AT251) | 17-4PH | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| | 316SS | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| PA30RA (AT301) | 17-4PH | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| | 316SS | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| PA35RA (AT351) | 17-4PH | Shut | 0.15 | | | | | | | | | | |
| | | △P | 0.14 | | | | | | | | | | |
| | 316SS | Shut | 0.15 | | | | | | | | | | |
| | | △P | 0.14 | | | | | | | | | | |
| PA40RA (AT401) | 17-4PH | Shut | 0.72 | | | | | | | | | | |
| | | △P | 0.26 | | | | | | | | | | |
| | 316SS | Shut | 0.37 | | | | | | | | | | |
| | | △P | 0.26 | | | | | | | | | | |
| PA45RA (AT451) | 17-4PH | Shut | 1.25 | 0.29 | 0.1 | | | | | | | | |
| | | △P | 0.38 | 0.16 | 0.09 | | | | | | | | |
| | 316SS | Shut | 0.37 | 0.29 | 0.1 | | | | | | | | |
| | | △P | 0.3 | 0.16 | 0.09 | | | | | | | | |
| PA50RA (AT501) | 17-4PH | Shut | 1.74 | 0.96 | 0.59 | 0.28 | | | | | | | |
| | | △P | 0.65 | 0.29 | 0.18 | 0.09 | | | | | | | |
| | 316SS | Shut | 0.37 | 0.74 | 0.43 | 0.19 | | | | | | | |
| | | △P | 0.3 | 0.29 | 0.18 | 0.09 | | | | | | | |
| PA55RA (AT551) | 17-4PH | Shut | | 1.55 | 1.03 | 0.56 | 0.05 | | | | | | |
| | | △P | | 0.4 | 0.25 | 0.13 | 0.03 | | | | | | |
| | 316SS | Shut | | 0.74 | 0.43 | 0.19 | 0.05 | | | | | | |
| | | △P | | 0.37 | 0.23 | 0.12 | 0.03 | | | | | | |
| PA60RA (AT6011) | 17-4PH | Shut | | 1.85 | 1.47 | 0.82 | 0.18 | | | | | | |
| | | △P | | 0.52 | 0.32 | 0.17 | 0.05 | | | | | | |
| | 316SS | Shut | | 0.74 | 0.43 | 0.19 | 0.18 | | | | | | |
| | | △P | | 0.37 | 0.23 | 0.12 | 0.05 | | | | | | |
| PA65RA (AT651) | 17-4PH | Shut | | | 1.72 | 0.98 | 0.48 | 0.04 | | | | | |
| | | △P | | | 0.49 | 0.26 | 0.09 | 0.04 | | | | | |
| | 316SS | Shut | | | 0.43 | 0.19 | 0.3 | 0.04 | | | | | |
| | | △P | | | 0.23 | 0.12 | 0.09 | 0.04 | | | | | |
| PA70RA (AT701) | 17-4PH | Shut | | | | | 1.15 | 0.41 | 0.19 | 0.06 | | | |
| | | △P | | | | | 0.18 | 0.08 | 0.04 | 0.02 | | | |
| | 316SS | Shut | | | | | 0.3 | 0.32 | 0.13 | 0.06 | | | |
| | | △P | | | | | 0.1 | 0.08 | 0.04 | 0.02 | | | |
| PA80RA (AT801) | 17-4PH | Shut | | | | | | 0.72 | 0.38 | 0.18 | 0.04 | | |
| | | △P | | | | | | 0.12 | 0.07 | 0.04 | 0.02 | | |
| | 316SS | Shut | | | | | | 0.32 | 0.13 | 0.18 | 0.04 | | |
| | | △P | | | | | | 0.11 | 0.06 | 0.04 | 0.02 | | |

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单动作弹簧复位型执行机构(ALPHA执行机构),气源压力:400KPaG
Single Action Spring Return Actuator(ALPHA Actuator),Air Supply :400KPaG

| 执行机构 Actuator | 阀杆材质 Stem Materials | 状态 State | 填料:聚四氟乙烯 Packing:PTFE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| PC25RA (SR83) | 17-4PH | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| | 316SS | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| PC30RA (SR92) | 17-4PH | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| | 316SS | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| PC35RA (SR105) | 17-4PH | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| | 316SS | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| PC40RA (SR125) | 17-4PH | Shut | 0.4 | | | | | | | | | | |
| | | △P | 0.21 | | | | | | | | | | |
| | 316SS | Shut | 0.4 | | | | | | | | | | |
| | | △P | 0.21 | | | | | | | | | | |
| PC45RA (SR140) | 17-4PH | Shut | 0.99 | 0.21 | | | | | | | | | |
| | | △P | 0.33 | 0.15 | | | | | | | | | |
| | 316SS | Shut | 0.5 | 0.21 | | | | | | | | | |
| | | △P | 0.33 | 0.15 | | | | | | | | | |
| PC50RA (SR160) | 17-4PH | Shut | 1.85 | 0.98 | 0.61 | 0.29 | | | | | | | |
| | | △P | 0.65 | 0.3 | 0.18 | 0.09 | | | | | | | |
| | 316SS | Shut | 0.5 | 0.86 | 0.52 | 0.25 | | | | | | | |
| | | △P | 0.34 | 0.3 | 0.18 | 0.09 | | | | | | | |
| PC55RA (SR190) | 17-4PH | Shut | | 1.62 | 1.09 | 0.59 | 0.1 | | | | | | |
| | | △P | | 0.43 | 0.26 | 0.14 | 0.04 | | | | | | |
| | 316SS | Shut | | 0.86 | 0.52 | 0.25 | 0.1 | | | | | | |
| | | △P | | 0.41 | 0.25 | 0.13 | 0.04 | | | | | | |
| PC60RA (SR210) | 17-4PH | Shut | | | 1.81 | 1.03 | 0.53 | 0.08 | | | | | |
| | | △P | | | 0.5 | 0.26 | 0.1 | 0.05 | | | | | |
| | 316SS | Shut | | | 0.52 | 0.25 | 0.37 | 0.08 | | | | | |
| | | △P | | | 0.25 | 0.13 | 0.1 | 0.05 | | | | | |
| PC65RA (SR240) | 17-4PH | Shut | | | | | 0.73 | 0.19 | 0.04 | | | | |
| | | △P | | | | | 0.13 | 0.06 | 0.03 | | | | |
| | 316SS | Shut | | | | | 0.37 | 0.19 | 0.04 | | | | |
| | | △P | | | | | 0.12 | 0.06 | 0.03 | | | | |
| PC70RA (SR270) | 17-4PH | Shut | | | | | 1.21 | 0.49 | 0.24 | 0.1 | | | |
| | | △P | | | | | 0.2 | 0.1 | 0.05 | 0.03 | | | |
| | 316SS | Shut | | | | | 0.37 | 0.38 | 0.17 | 0.1 | | | |
| | | △P | | | | | 0.12 | 0.1 | 0.05 | 0.03 | | | |
| PC75RA (SR300) | 17-4PH | Shut | | | | | | 1.11 | 0.65 | 0.06 | 0.18 | 0.07 | 0.02 |
| | | △P | | | | | | 0.17 | 0.1 | 0.34 | 0.04 | 0.02 | 0.01 |
| | 316SS | Shut | | | | | | 0.38 | 0.17 | 0.06 | 0.18 | 0.07 | 0.02 |
| | | △P | | | | | | 0.12 | 0.07 | 0.45 | 0.04 | 0.02 | 0.01 |
| PC80RA (SR350) | 17-4PH | Shut | | | | | | | 0.73 | 0.08 | 0.24 | 0.12 | 0.05 |
| | | △P | | | | | | | 0.11 | 0.34 | 0.04 | 0.03 | 0.02 |
| | 316SS | Shut | | | | | | | 0.17 | 0.08 | 0.24 | 0.12 | 0.05 |
| | | △P | | | | | | | 0.07 | 0.69 | 0.04 | 0.03 | 0.02 |

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单动作弹簧复位型执行机构(ALPHA执行机构),气源压力:400KPaG
Single Action Spring Return Actuator(ALPHA Actuator),Air Supply :400KPaG

| 执行机构 Actuator | 阀杆材质 Stem Materials | 状态 State | 填料:柔性石墨 Packing:Graphite | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| PC25RA (SR83) | 17-4PH | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| | 316SS | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| PC30RA (SR92) | 17-4PH | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| | 316SS | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| PC35RA (SR105) | 17-4PH | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| | 316SS | Shut | | | | | | | | | | | |
| | | △P | | | | | | | | | | | |
| PC40RA (SR125) | 17-4PH | Shut | 0.27 | | | | | | | | | | |
| | | △P | 0.17 | | | | | | | | | | |
| | 316SS | Shut | 0.27 | | | | | | | | | | |
| | | △P | 0.17 | | | | | | | | | | |
| PC45RA (SR140) | 17-4PH | Shut | 0.86 | | | | | | | | | | |
| | | △P | 0.29 | | | | | | | | | | |
| | 316SS | Shut | 0.37 | | | | | | | | | | |
| | | △P | 0.29 | | | | | | | | | | |
| PC50RA (SR160) | 17-4PH | Shut | 1.74 | 0.85 | 0.51 | 0.24 | | | | | | | |
| | | △P | 0.61 | 0.27 | 0.16 | 0.08 | | | | | | | |
| | 316SS | Shut | 0.37 | 0.74 | 0.43 | 0.19 | | | | | | | |
| | | △P | 0.3 | 0.27 | 0.16 | 0.08 | | | | | | | |
| PC55RA (SR190) | 17-4PH | Shut | | 1.5 | 0.99 | 0.53 | | | | | | | |
| | | △P | | 0.4 | 0.24 | 0.12 | | | | | | | |
| | 316SS | Shut | | 0.74 | 0.43 | 0.19 | | | | | | | |
| | | △P | | 0.37 | 0.23 | 0.12 | | | | | | | |
| PC60RA (SR210) | 17-4PH | Shut | | | 1.72 | 0.98 | 0.46 | | | | | | |
| | | △P | | | 0.49 | 0.25 | 0.09 | | | | | | |
| | 316SS | Shut | | | 0.43 | 0.19 | 0.3 | | | | | | |
| | | △P | | | 0.23 | 0.12 | 0.09 | | | | | | |
| PC65RA (SR240) | 17-4PH | Shut | | | | | 0.67 | 0.14 | | | | | |
| | | △P | | | | | 0.11 | 0.05 | | | | | |
| | 316SS | Shut | | | | | 0.3 | 0.14 | | | | | |
| | | △P | | | | | 0.11 | 0.05 | | | | | |
| PC70RA (SR270) | 17-4PH | Shut | | | | | 1.15 | 0.44 | 0.2 | 0.07 | | | |
| | | △P | | | | | 0.18 | 0.09 | 0.05 | 0.03 | | | |
| | 316SS | Shut | | | | | 0.3 | 0.32 | 0.13 | 0.07 | | | |
| | | △P | | | | | 0.11 | 0.09 | 0.05 | 0.03 | | | |
| PC75RA (SR300) | 17-4PH | Shut | | | | | | 1.06 | 0.61 | 0.32 | 0.14 | 0.04 | |
| | | △P | | | | | | 0.16 | 0.09 | 0.06 | 0.03 | 0.02 | |
| | 316SS | Shut | | | | | | 0.32 | 0.13 | 0.32 | 0.14 | 0.04 | |
| | | △P | | | | | | 0.11 | 0.06 | 0.06 | 0.03 | 0.02 | |
| PC80RA (SR350) | 17-4PH | Shut | | | | | | 1.2 | 0.7 | 0.41 | 0.2 | 0.09 | 0.03 |
| | | △P | | | | | | 0.19 | 0.11 | 0.07 | 0.04 | 0.02 | 0.01 |
| | 316SS | Shut | | | | | | 0.32 | 0.13 | 0.31 | 0.2 | 0.09 | 0.03 |
| | | △P | | | | | | 0.11 | 0.06 | 0.07 | 0.04 | 0.02 | 0.01 |

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# YD300T型号编制说明 Valve Code

以 YD300T-PC70RAWS ANSI150# CF8 500A 为例: For Example:

| 型号 Type | | 执行机构标识 Identifier of Actuator | | 特征尺寸 Characteristic Dimension | 动作方式 Action Mode | 设计编号 Design Number | 作用方向 Operation Mode | 手轮机构 Hand Wheel | 公称压力 Nominal Pressure | 阀体材质 Body Materials | 公称通径 Valve Size |
|---|---|---|---|---|---|---|---|---|---|---|---|
| YD300T | - | P | C | 70 | R | A | W | S | ANSI150# | CF8 | 500A |

型号: Type

三偏心密封蝶阀
Double-eccentric Sealing Butterfly Valves

执行机构类型: Type

D:弹簧薄膜型 Diaphragm
P:气缸型 Piston Spring Return
E:电动式 Electronic
Y:液压式 Hydraulic pressure
S:特殊 Especial

执行机构标识: Identifier of Actuator

A,B...H OEM1,OEM2...OEM7
AT,ALP系列执行机构
AT Series、ALP Series Actuators

活塞式执行机构特征尺寸
Characteristic Dimension
20,25,30,35,40,45,50,55,60,65,70,75,80

动作方向: Action Direction

R: 角行程 Radian

设计编号: Design Number

A: 第一次设计 The First Design
B: 第二次设计 The Second Design
C: 第三次设计 The Third Design
...

作用方式 Operation Mode

D: 单动作正作用
Direct and Single Action
R: 单动作反作用
Reverse and Single Action
W: 双动作 Double Action

手动机构 Hand Wheel

T:顶装手轮 Wheel on the top
S:带手轮 Ordinarily
N:无手轮 Non

公称压力 Nominal Pressure

PN1.6~PN25MPa
ANSI150~1500#
JIS10K,20K,40K

阀体材质 Body Materials

WCB/SCPH2
CF8/SCS13A
CF8M/SCS14A
...

阀体口径尺寸 Valve Size

| mm | inch |
|---|---|
| DN80~2000 | 3"~80" |

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## 常用密封件 Parts of Sealings

填料 Packing

垫圈 Gasket

密封件的温度-压力使用范围详见我公司技术资料: YDVTEC
See the technology data :YDVTEC

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