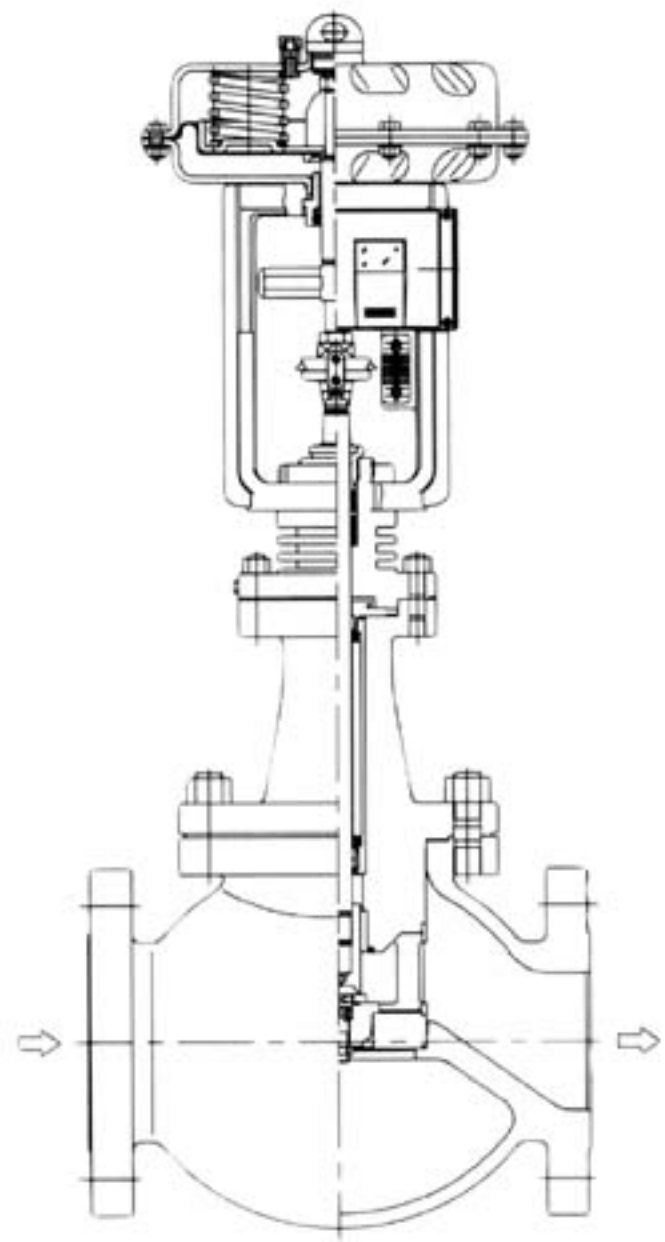
# ECOTROL SERIES

# ATSW

## 波纹管单座调节阀

## BELLOWS SINGLE SEATED GLOBE VALVES



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# ATSW 波纹管单座调节阀

# ATSW Bellows Single Seated Globe Valves

**概要:**

ATSW 波纹管单座调节阀是基于 ATS 快速更换单座调节阀衍生而来。采用波纹管 – 填料双重密封结构,安全可靠性更好。适用于剧毒、强腐蚀性、放射性等稀有特殊介质的自动控制系统。

配用多弹簧气动薄膜执行机构或电动执行机构。执行机构与定位器等附件之间采用无管路连接,使得安装空间大大缩小,且安装快速方便、可靠性高。

**GENERAL**

Deriving from the structure of ATS Quick-ly-exchanged Single Seated Globe Valves, it is characterized by double sealing of both bellows and packing to assure better security. It can be applica-ble to severe services, such as severe toxicity, bad erosion and radioactivity.

Multi-spring pneumatic actuator or electric motor supplies the power of the valves' actions. pipeless connection makes the valve more compact, more conveniently to assemble and disassemble, and have higher reliability.

## 阀体部分 BODY

| | |
|---|---|
| 形式 Type | 不平衡阀芯型 Unbalance plug type |
| **公称通径 Body size** | **DN15~DN300(1/2" ~12")** |
| 阀芯形状 Plug form | 抛物线阀芯 Parabolic single plug |
| **流量特性 Characteristics** | **等百分比、线性 快开 Equal percentage , Linear, On-off** |
| 阀内件材质 Trim materials<br>阀内件处理 Trim treatment | 标准材质组合及使用温度.压力范围,请参见表 1、2 及图 1<br>See Table 1、2 & Fig1 for standard combination of materials and operating pressure-temperature respectively |
| **公称压力 Body ratings** | **JB/T79-94 HG20592 DIN2543/2544/2545 PN1.6、PN2.5、PN4.0 MPa;<br>ANSI B16.5 ANSI150、ANSI300** |
| 连接方式 Body connections | 法兰式(RF、FM、RTJ),焊接式(公称通径≤DN50 为 SW,≥DN65 为 BW<br>Flanged (RF, FM, RTJ), Welded ends (SW: up to DN50, BW: DN65 over) |
| **法兰距 Face to Face dimension** | **符合 IEC 534-4-1976,详细见表 6.1、6.2、6.3、6.4、7.1、7.2<br>According to IEC 534-4-1976, see Table 6.1、6.2、6.3、6.4、7.1、7.2 for details** |
| 阀体及上阀盖材质<br>Body & Bonnet Material | A216-WCB/ 1.0619 ,A217-WC6/1.7357, A217-C5, A217 -WC9/1.7379, A352-LCB, A351-CF8/1.4308, A351-CF8M/1.4408 and other alloy steel<br>各种材质的使用温度.压力范围参见表 1 及表 2<br>As to the operating pressure-temperature limitation for each material, see Table 1 and 2 |
| **上阀盖形式 Bonnet type** | **波纹管型 Bellows type: -46 ~ 350℃;** |
| 填料 Packing | V 型组合填料、柔性石墨组合填料、石墨填料等<br>使用温度、压力范围请参阅表 3、图 2<br>Teflon V-ring, Flexible graphite See Fig.2 and Table 3 for selection |
| **垫圈 Gasket** | **金属夹石墨密封垫、石墨密封垫<br>Graphite gasket reinforced by metal, Pure graphite gasket** |
| 表面涂层 Painting color | 碳钢阀体喷银色环氧树脂 Argentate munsell on carbon steel<br>不锈钢阀体喷钢灰丙稀酸瓷漆 Steel grey crylic acid enamel on stainless steeL |



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## 执行机构 ACTUATOR

| 规格 Specification / 型号 Type | 气动薄膜式 Diaphragm type | 电动式 Electric Motor type |
|---|---|---|
| | **MF** | **PEL** |
| | 多弹簧型 Multi-spring | |
| **用途 Purpose** | **调节,开关 Modulation or on-off** | **调节,开关 Modulation or on-off** |
| 供气压力或供给电压<br>Air supply or Power supply | 200(75-150)Kpa G　300(75-150)Kpa G<br>450(170-360)Kpa G　450(180-370)Kpa G<br>550(200-360)Kpa G　550(220-440)Kpa G<br>300(96-171)Kpa G　350(145-256)Kpa G | 供电电源:220V 50Hz<br>Power supply<br>输入信号:4~20mA<br>Input signal |
| **接口 Connection** | **G1/8(MF2)、G1/4(MF3)<br>G3/4(MF5)** | **进出线口:M20X1.5(2个)<br>Conduit entry** |
| 正作用 Direct action | 供气压力增加,阀门关闭<br>Air to valve shut | 输入信号增加阀闭<br>Signal increase to valve shut |
| **反作用 Reverse action** | **供气压力增加,阀门打开<br>Air to valve open** | **输入信号增加阀开<br>Signal increase to valve open** |
| 回差 Hysteresis | ≤1%(带定位器)With positioner | ≤0.8% |
| **线性 Linearity** | **≤ ± 2%(带定位器)With positioner** | **≤ ± 1%** |
| 允许环境温度<br>Ambient Temp | -30℃~+80℃ | -20℃~+60℃ |
| **标准涂层色 Painting** | **中国蓝 China blue** | **中国蓝 China blue** |
| 选购设备 Option | 电气阀门定位器,智能阀门定位器<br>空气过滤减压阀,电磁阀,行程开关,阀位传送器<br>E/P P/P-Positioner, Air-set, Solenoid, Limit switch, Transmitter | 限位开关<br>Limit switch |

## 性能 PERFORMANCE

| | |
|---|---|
| 额定 Cv 值 Rated Cv | 请参见表 4 See Table 4 |
| **流量特性 Flow characteristics** | **请参见图 4 See Fig. 4** |
| 可调比 R Rangeability | 50:1(Plug size≤1/4"-30:1) |
| **阀座泄漏量 Seat leakage** | **请参见表 1 See Table 1** |
| 允许压差 Allowable pressure drops | 请参见表 5.1-5.10 See Table 5.1-5.10 |

## 特殊规格(有偿)OPTIONAL SPECIAL SPECIFICATIONS(additional cost is required)

| | |
|---|---|
| 阀体特殊检查 Special testing for Body | 材料检查、液体渗透探伤检查、放射线检查、流量特性检查、<br>Material certificate, liquid penetrant testing, Radiographic testing, Flow characteristics testing |
| **阀体特殊清洗 Special cleaning for body** | **禁油、除水处理<br>Oil-free, water-proof** |
| 阀体及执行机构特殊规格<br>Special specifications for body actuator | 防砂、防尘型、防盐腐蚀型、寒冷地区用、热带地区用、禁铜、特殊空气配管及特殊气源接头、真空工作条件用、指定涂层色<br>Sand and dust proof, salty environment proof, cold area proof, tropical area proof. Do not use copper alloy, special piping and fitting, vacuum service proof, SUS bolt and nut for exposed parts, Non-standard painting. |
| **认证 Authorization** | **通过中国 VTI 和美国 FMRC ISO9001 国际质量体系认证、国家技术监督局 CQC,<br>ISO 10012-1 完善计量检测体系认证<br>Authorization of China CQC, ISO9001 ISO 10012-1 VTI FMRC** |



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表 1 阀体、阀内件材质组合、使用温度范围、阀座允许泄漏量及各国材料对照

Table 1 BODY/TRIM STANDARD MATERIAL COMBINATION,OPERATING TEMPERATURE, SEAT LEAKAGE AND MATERIAL COMPARISION

阀内件材质、处理使用温度、压力范围 请参见图 1

Trim material/treatment vs operating temperature-pressure range:See Fig.1

表 1.1.阀体、阀内件材质组合、使用温度范围及阀座允许泄漏量

Table1.1.Body/trim standard material combination,operating temperature and seat leakage

| 阀体材质 Body material | | A216-WCB/ 1.0619 ,A217-WC6/1.7357,A217-C5, A217 WC9/1.7379,A352-LCB | | | A351-CF8/1.4308 A351-CF8M/1.4408 | | |
|---|---|---|---|---|---|---|---|
| 阀芯材质 Plug material | | 316/ 1.4571 | 316/ 1.4571 | 316/ 1.4571 | 316/ 1.4571 | 316/ 1.4571 | 316/ 1.4571 |
| 阀芯处理 Plug treatment | | — | — | 司太莱堆焊 Stellited | — | — | 司太莱堆焊 Stellited |
| 波纹管材质 Bellows material | | 316/ 1.4571 | 316/ 1.4571 | 316/ 1.4571 | 316/ 1.4571 | 316/ 1.4571 | 316/ 1.4571 |
| 阀座材质 Seat treatment | | 316/ 1.4571 | 316/ 1.4571 | SUS316/ 1.4571 | 316/ 1.4571 | 316/ 1.4571 | 316/ 1.4571 |
| 阀座处理 Seat treatment | | 增强聚四氟乙烯 Reinforced teflon | — | 司太莱堆焊 Stellited | 增强聚四氟乙烯 Reinforced teflon | — | 司太莱堆焊 Stellited |
| 导向套材质 Guide material | | 316/ 1.4571 | 316/ 1.4571 | 316/ 1.4571 | 316/ 1.4571 | 316/ 1.4571 | 316/ 1.4571 |
| 导向套处理 Guide treatment | | NT | NT | NT | NT | NT | NT |
| 密封垫圈 Gasket | | 316+ 石墨 316+Graphite | | | | | |
| 阀座允许泄漏量 Seat Leakage | ANSI B16.104 | CLASSVI | CLASSIV 或(or) V | | CLASS VI | CLASS IV 或(or)V | |
| 使用温度 Operating temperature℃ | A216-WCB/ 1.0619 | -5~+350℃ | | | | | |
| | A217-WC6/ 1.7357 | | | | | | |
| | A217-WC9/ 1.7379 | | | | | | |
| | A352-LCB | -45~+230℃ | | | | | |
| | A351-CF8/ 1.4308 | -45~+350℃ | | | | | |
| | A351-CF8M/ 1.4408 | | | | | | |

备注:1. HT= 硬化处理, NT= 渗氮处理;2. 可根据用户需求铸造双相不锈钢 ASTM A-890-99 Grade 3A(1.4468)及哈氏合金等特殊材质的阀门;

Remarks: 1. HT= Hardening Treatment,NT= Nitriding Treatment;2. Several stainless steels such as ASTM A-890-99 Grade 3A (1.4468)double metallic phases steel and Hastelloy etc. can be supplied according to clients' requirements。

表 1.2 各国常用阀门用铸钢对照表 Comparison table for steels used in valves

| 国家标准 Standard of country | 材 料 牌 号 Symbol of material | | | | | | |
|---|---|---|---|---|---|---|---|
| | 铸 钢 Casting steel | | | | | | |
| 美国 ASTM 标准 ASTM Standard | A216 WCB | A217 WC5 | A217 C6 | A217 WC9 | A315 CF8 | A351 CF8M | A-890-99 Grade3A |
| 德国 DIN 17001 W-NrGerman | 1.0619 | | 1.7357 | 1.7379 | 1.4308 | 1.4408 | 1.4468 |
| 中国 GB/T17616 China | ZG25I | ZG15Cr5Mo | ZG15Cr1MoG | ZG12Cr2MoG | ZG0Cr18Ni9 | ZG0Cr17Ni12Mo2 | ZG0Cr25Ni6Mo2N |
| 日本 JIS Japan | SCPH2 | SCPH61 | SCPH21 | SCPH32 | SCS13/SCS13A | SCS14 | |



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## 表 1.3 各国常用阀门用不锈钢对照表 Comparison table for stainless steels used in valves

| 国家标准 Standard of country | 材料牌号(近似对照) Symbol of material (approximately comparing) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 不锈钢 Stainless steel | | | | | | | |
| 美国 ASTM 标准 ASTM Standard | 316 | 316L | 304 | 304L | 410 | 420 | 440B | |
| 德国 DIN 17001 W-NrGerman | 1.4571 | 1.4435 | 1.4308 | 1.4306 | 1.4006 | 1.4021 | 1.4112 | 1.4122 |
| 中国 GB/T17616 China | 0Cr17Ni12Mo2 | 00Cr17Ni14Mo2 | 0Cr18Ni9 | 00Cr18Ni10 | 1Cr13 | 2Cr13 | 9Cr18MoV | 3Cr17NiMo |
| 日本 JIS Japan | SUS316 | SUS316L | SUS304 | SUS304L | SUS410 | SUS420J1 | SUS440B | |

## 表 2 阀体材质的使用温度·压力范围

## Table2 BODY MATERIAL/OPERATING PRESSURE-TEMPERATURE RATINGS

### 表 2.1Table2.1 ANSI

UNIT:MPa (G)

| 温度℃ Temp. | 150# | | | | | | 300# | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LCB | WCB | WC6/9 | C5 | CF8 | CF8M | LCB | WCB | WC6/9 | C5 | CF8 | CF8M |
| -196~38 | — | — | — | — | 1.90 | 1.90 | — | — | — | — | 4.95 | 4.95 |
| **-45~38** | **1.84** | — | — | — | **1.90** | **1.90** | **4.39** | — | — | — | **4.95** | **4.95** |
| -5~38 | 1.84 | 1.96 | 1.99 | 1.99 | 1.90 | 1.90 | 4.39 | 5.1 | 5.16 | 5.16 | 4.95 | 4.95 |
| **50** | **1.81** | **1.92** | **1.92** | **1.92** | **1.84** | **1.84** | **4.72** | **5.00** | **5.10** | **5.16** | **4.77** | **4.8** |
| 100 | 1.72 | 1.76 | 1.76 | 1.76 | 1.56 | 1.61 | 4.50 | 4.63 | 4.88 | 5.14 | 4.08 | 4.21 |
| **150** | **1.57** | **1.57** | **1.57** | **1.57** | **1.39** | **1.47** | **4.40** | **4.51** | **4.63** | **5.01** | **3.62** | **3.85** |
| 200 | 1.4 | 1.4 | 1.4 | 1.4 | 1.25 | 1.37 | 4.26 | 4.38 | 4.54 | 4.88 | 3.27 | 3.34 |
| **250** | **1.2** | **1.2** | **1.2** | **1.2** | **1.16** | **1.2** | **4.05** | **4.16** | **4.44** | **4.62** | **3.04** | **3.34** |
| 300 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 3.76 | 3.87 | 4.23 | 4.23 | 2.91 | 3.15 |
| **350** | **0.84** | **0.84** | **0.84** | **0.84** | **0.84** | **0.84** | **3.59** | **3.69** | **4.01** | **4.01** | **2.81** | **3.03** |
| 375 | | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | | 3.64 | 3.88 | 3.88 | 2.77 | 2.96 |
| **400** | | **0.64** | **0.64** | **0.64** | **0.64** | **0.64** | | **3.44** | **3.65** | **3.65** | **2.74** | **2.91** |
| 425 | | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | | 2.88 | 3.50 | 3.44 | 2.71 | 2.87 |
| **450** | | **0.47** | **0.47** | **0.47** | **0.47** | **0.47** | | **1.99** | **3.38** | **3.08** | **2.68** | **2.81** |
| 475 | | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | | 1.35 | 3.16 | 2.58 | 2.65 | 2.73 |
| **500** | | **0.28** | **0.28** | **0.28** | **0.28** | **0.28** | | **0.88** | **2.77** | **2.02** | **2.60** | **2.67** |
| 525 | | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | | 0.51 | 2.02 | 1.53 | 2.19 | 2.57 |
| **538** | | **0.15** | **0.15** | **0.15** | **0.15** | **0.15** | | **0.34** | **1.63** | **1.34** | **2.18** | **2.53** |



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表 2.2 Table2.2 JB/T79-94　　UNIT:MPa(G)

| 温度℃ Temp. | PN1.6 | PN4.0 |
|---|---|---|
| | ZG25 | |
| -5~200 | 1.6 | 4.0 |
| ~250 | 1.4 | 3.5 |
| ~300 | 1.2 | 3.0 |
| ~350 | 1.1 | 2.6 |
| ~400 | 0.9 | 2.3 |
| ~425 | 0.8 | 2.0 |
| ~435 | 0.7 | 1.8 |
| ~445 | 0.62 | 1.6 |
| ~455 | 0.57 | 1.4 |

| 温度℃ Temp. | PN1.6 | PN4.0 |
|---|---|---|
| | ZG0Cr18Ni9 | |
| -45~200 | 1.6 | 4.0 |
| ~300 | 1.4 | 3.5 |
| ~400 | 1.2 | 3.0 |
| ~480 | 1.1 | 2.6 |
| ~520 | 0.9 | 2.3 |
| ~560 | 0.8 | 2.0 |

图 1 阀内件材质·处理选定基准
Fig.1 TRIM TREATMENT/MATERIAL VS OPERATING PRESSURE-TEMPERATURE RATINGS

图 1-1 金属阀座司太莱堆焊的工作温度和压差范围
Fig.1-1 Steuited trim of metal to metel

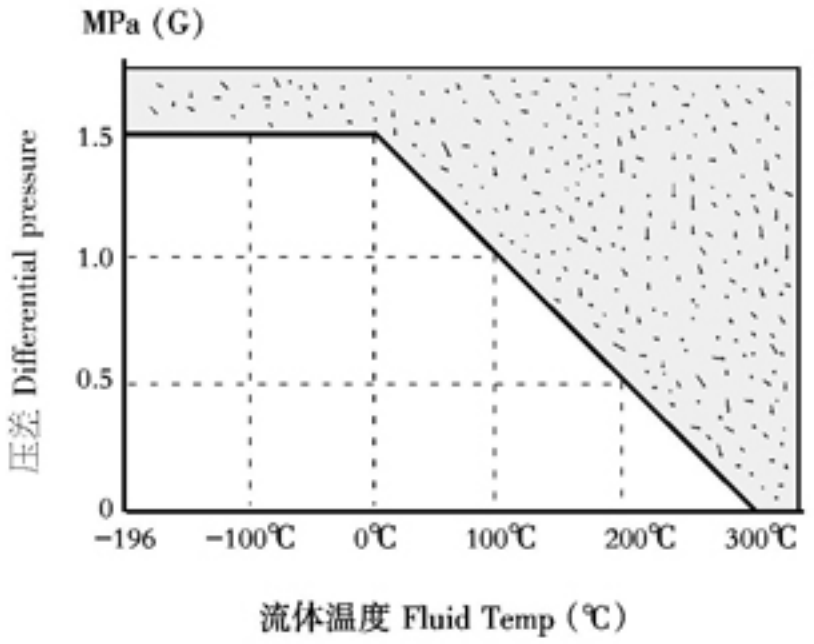


图 1-2 软密封(增强四氟乙烯)
Fig.1-2 Soft seat(Reinforced Teflon)

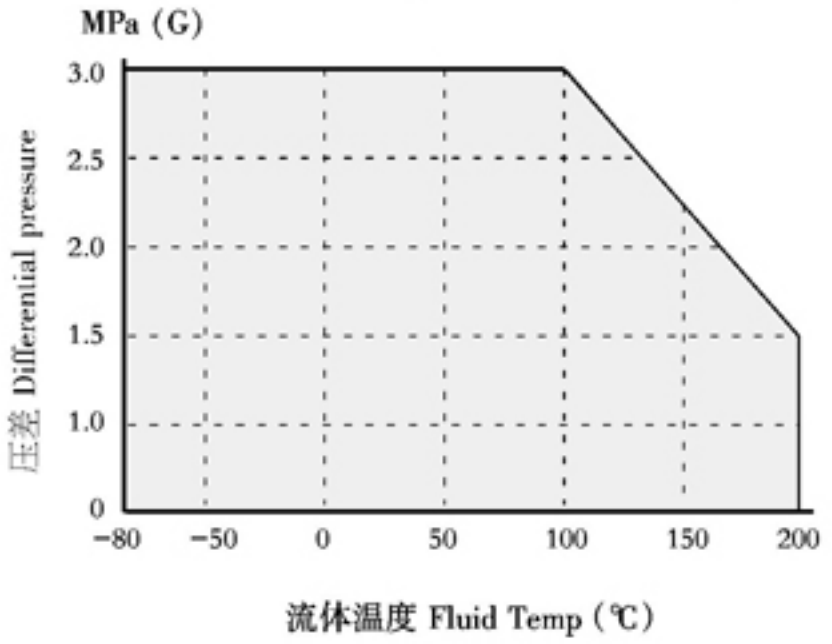


图 1-3 成形波纹管密封(SUS316)
Fig.1-3 SUS316 pressed bellows

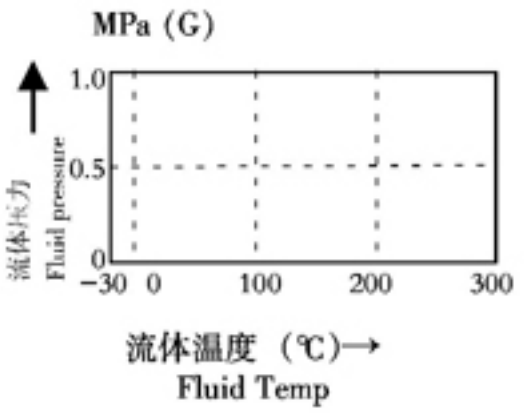


图 1-4 焊接波纹管密封(SUS316)
Fig.1-4 SUS316 welded bellows

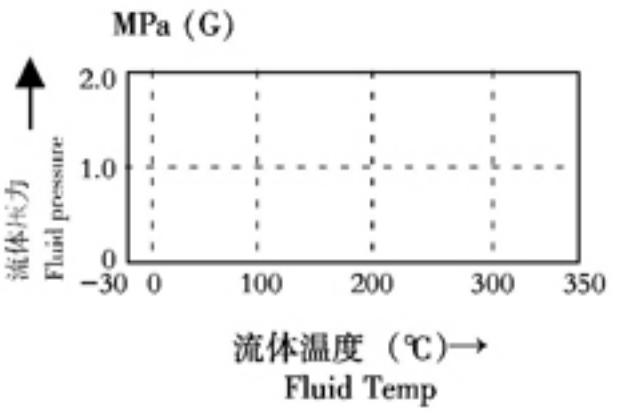




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**表 3:填料的使用温度及压力范围**

**Table 3: The allowable operating pressure-temperature limitation for packing**

| 填料类型（A 所示）Packing type Showed with A | 代码 Code | 微密封件材质（B 所示）Micro-sealing | O 型圈材质（C 所示）O-ring Showed with C | 防尘圈材质（D 所示）Wiper Showed with D | 温度范围 Temperature limitation | 上阀盖型式 Bonnet type | 备注 说明 Remarks |
|---|---|---|---|---|---|---|---|
| PTFE V 型填料 | 1 | EPDM(三元乙丙橡胶) | EPDM（三元乙丙橡胶） | NBR（丁腈橡胶） | -25℃ ~ 180℃ | 波纹管型 Bellows type | （交变载荷）带压缩弹簧 Reinforced by spring under alternative load |
| | 2 | VITON（氟橡胶） | | VITON（氟橡胶） | -25℃ ~ 200℃ | | |
| 石墨 + 因科镍填料 Graphite with Inconel | 3 | - | - | NBR(丁腈橡胶) VITON(氟橡胶) | -20℃ ~ 400℃ | 波纹管型 Bellows type | 一般场合 Common Service |
| 石墨 +PTFE Graphite +PTFE | 6 | - | - | NBR(丁腈橡胶) | -196℃ ~ 200℃ | 波纹管型 Bellows type | 高、温场合 High or low temperature |

注:选择温度范围时,如无特殊要求,应就近选择。

Note: If no special requirements, immediate temperature scope is recommended.

**图 2.填料使用温度·压力范围**

**Fig.2 GLAND PACKING OPERATING PRESSURE-TEMPERATURE RATINGS**

① 增强聚四氟乙烯 V 形填料　　② 柔性石墨

① REINFORCED TEFLON V-RING　　② GRAFOIL

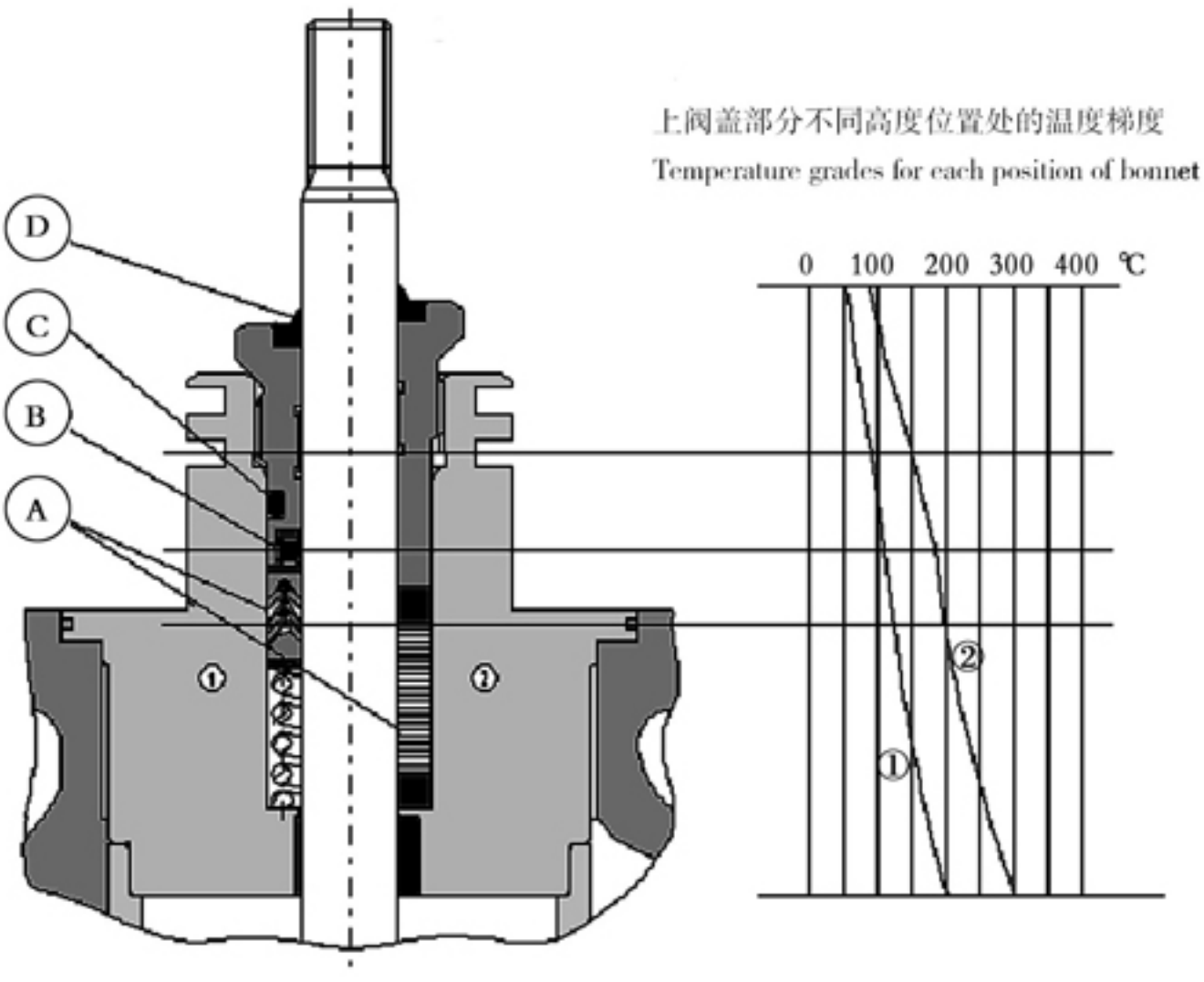




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**图 3.本体部构造 Fig.3 BODY SECTION VIEW**

**图 3-1 公称通径 DN65 以下　Fig.3-1BODY SIZE DN65 AND UNDER**

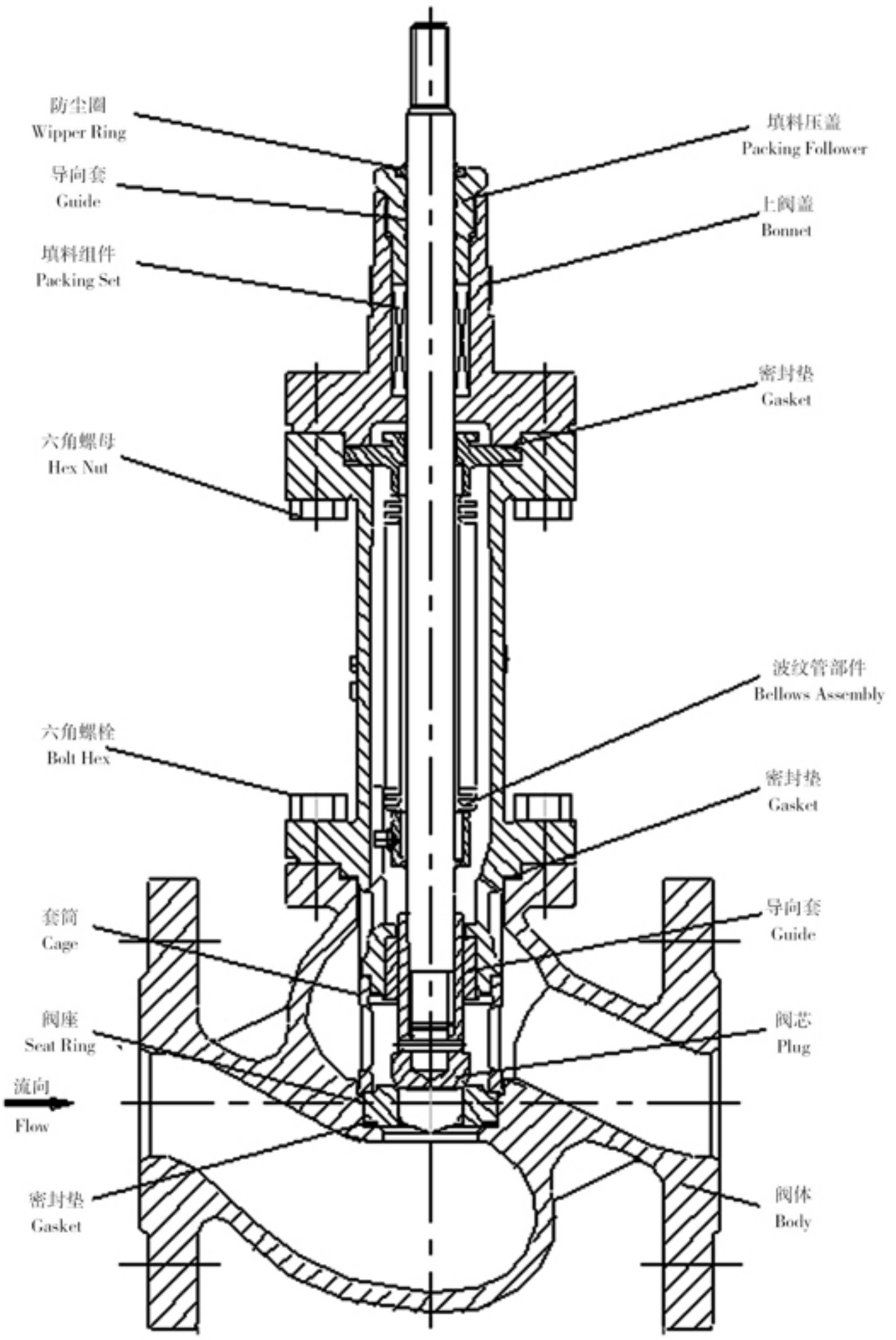




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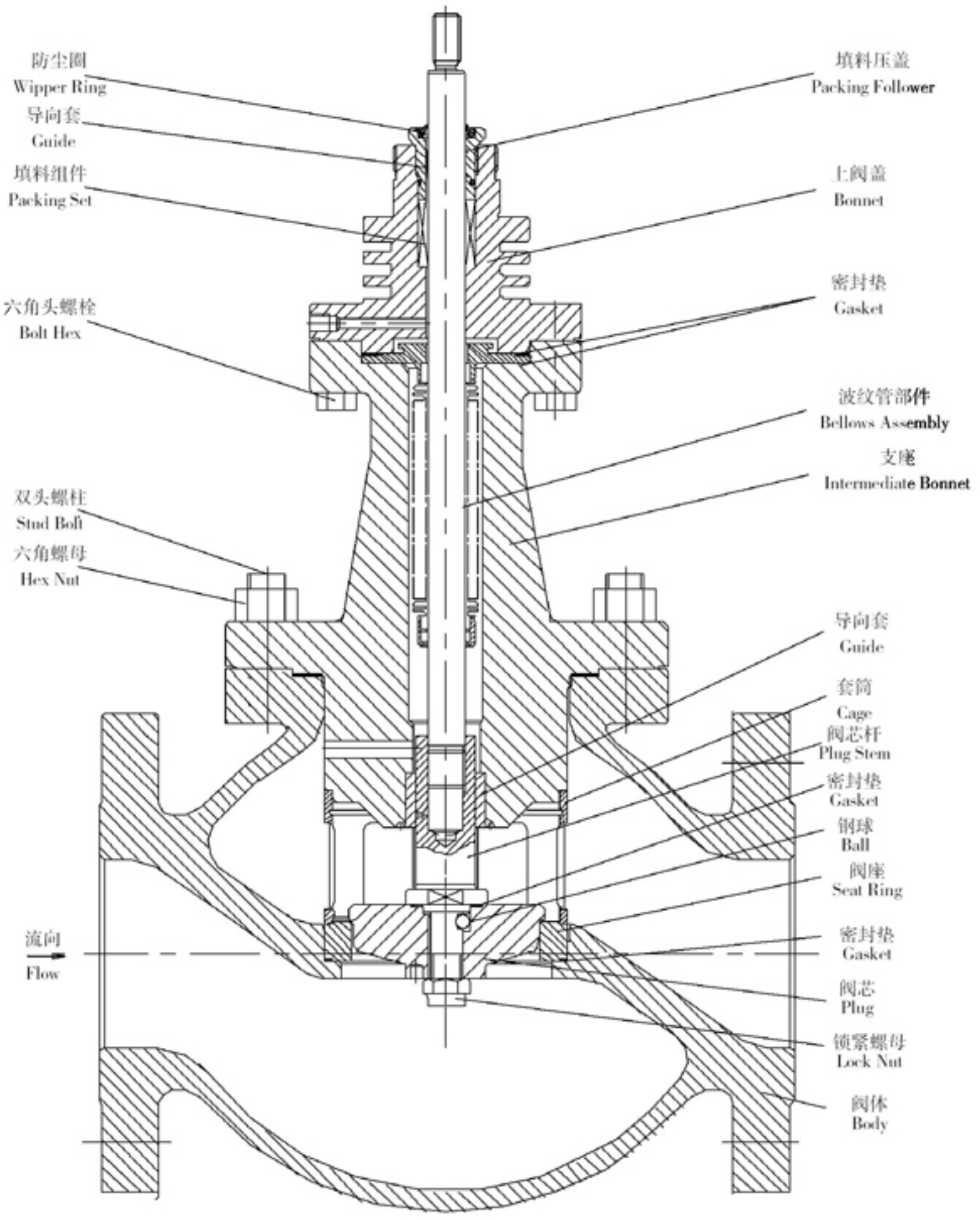
图 3–2.公称通径 DN80 (3") ~ DN300 (12")　Fig.3–2 BODY SIZED DN80 (3") ~ DN300 (12")



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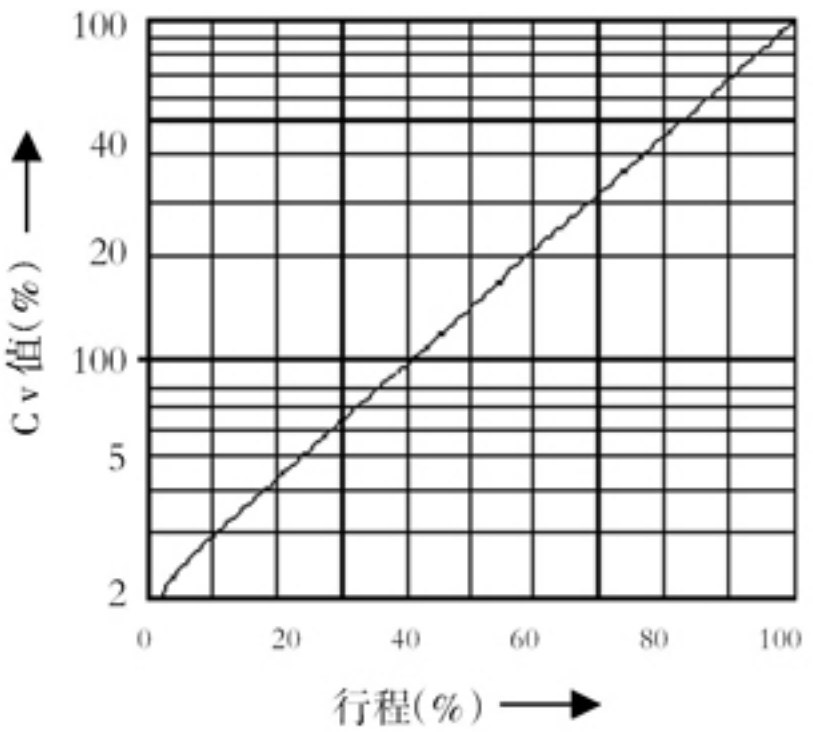
## 表 4.额定 Cv·行程及缩腔型阀芯制造范围

## Table 4 Cv,STROKE AND REDUCED PLUG MANUFACTURING RANGE

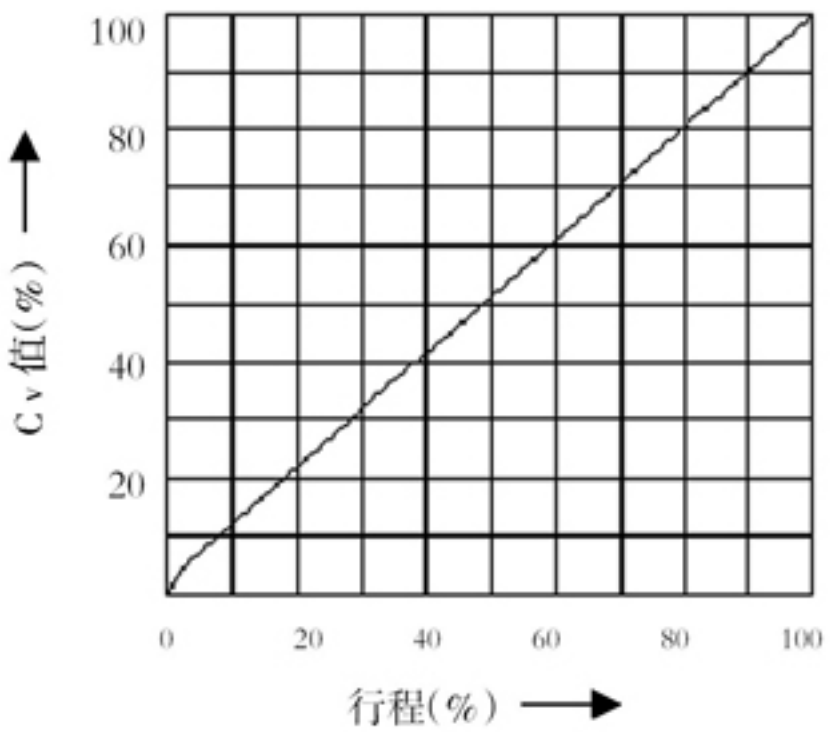
| 阀座类型 Seat type | | 金属阀座 Metal sealing | | | | | | | 软阀座 Soft sealing | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 流量特性 Flow characteristics | | 线性 Linear | | | 等百分比 Equal percentage | | | 快开 On/off | 线性 Linear | | | 等百分比 Equal percentage | | | 快开 On/off |
| 公称通径 Rated size | 行程 Stroke | Cv1 | Cv2 | Cv3 | Cv1 | Cv2 | Cv3 | Cv1 | Cv1 | Cv2 | Cv3 | Cv1 | Cv2 | Cv3 | Cv1 |
| **15** | 16 10(快开) (On-off) | **4.7** | **1.9** | **0.73** | **4.7** | **1.9** | **0.73** | **4.7** | **4.7** | **1.9** | **0.73** | **4.7** | **1.9** | **0.73** | **4.7** |
| 20 | | 4.7 | 1.9 | 0.73 | 4.7 | 1.9 | 0.73 | 4.7 | 4.7 | 1.9 | 0.73 | 4.7 | 1.9 | 0.73 | 4.7 |
| **25** | | **11.5** | **4.7** | **1.9** | **11.5** | **4.7** | **1.9** | **11.5** | **11.5** | **4.7** | **1.9** | **11.5** | **4.7** | **1.9** | **11.5** |
| 32 | | 11.5 | 4.7 | 1.9 | 11.5 | 4.7 | 1.9 | 11.5 | 11.5 | 4.7 | 1.9 | 11.5 | 4.7 | 1.9 | 11.5 |
| **40** | | **29** | **19** | **11.5** | **29** | **19** | **11.5** | **29** | **29** | **19** | **11.5** | **29** | **19** | **11.5** | **29** |
| 50 | | 46 | 29 | 19 | 46 | 29 | 19 | 46 | 46 | 29 | 19 | 46 | 29 | 19 | 46 |
| **65** | | **73** | **46** | **29** | **73** | **46** | **29** | **73** | **73** | **46** | **29** | **73** | **46** | **29** | **73** |
| 80 | 30 20(快开) On-off | 116 | 73 | 46 | 116 | 73 | 46 | 116 | 116 | 73 | 46 | 116 | 73 | 46 | 116 |
| **100** | | **186** | **116** | **73** | **186** | **116** | **73** | **186** | **186** | **116** | **73** | **186** | **116** | **73** | **186** |
| 150 | 60 45(快开) (On-off) | 445 | 304 | 176 | 445 | 304 | 176 | 445 | 445 | 304 | | 445 | 304 | | 445 |
| **200** | | **761** | **445** | **304** | **761** | **445** | **304** | **761** | **761** | | | **761** | | | **761** |
| 250 | 100 75(快开) (On-off) | 1053 | 761 | 445 | 1053 | 761 | 445 | 1053 | 1053 | | | 1053 | | | 1053 |
| **300** | | **1521** | **1053** | **761** | **1521** | **1053** | **761** | **1521** | **1521** | | | **1521** | | | **1521** |

## 图 4. 流量特性 Fig.4 FLOW CHARACTERISTICS

## 符合 IEC 标准 UNDER IEC STANDARD




等百分比特性(% 金属阀座)
Equal percentage (% metal sealing)




线性特性(L 金属阀座)
Linear (L metal sealing)



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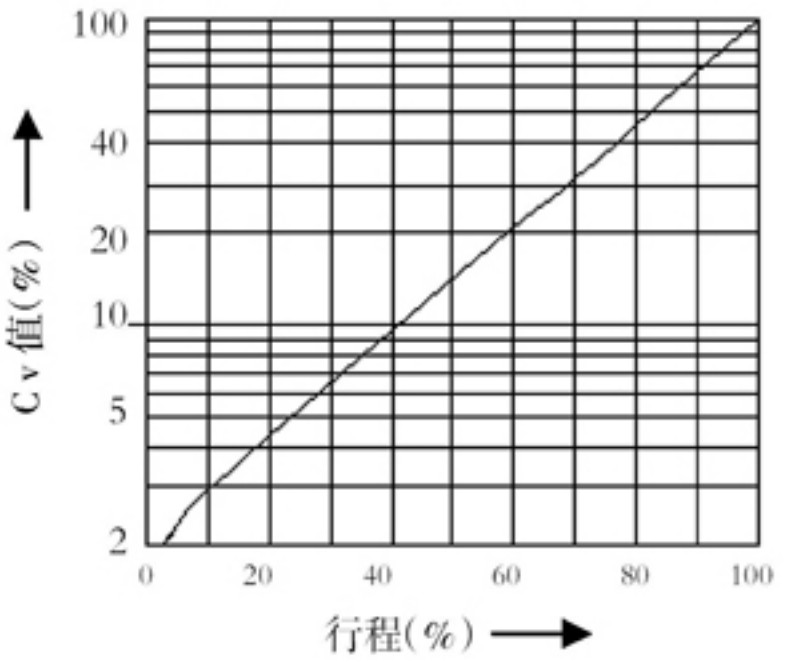
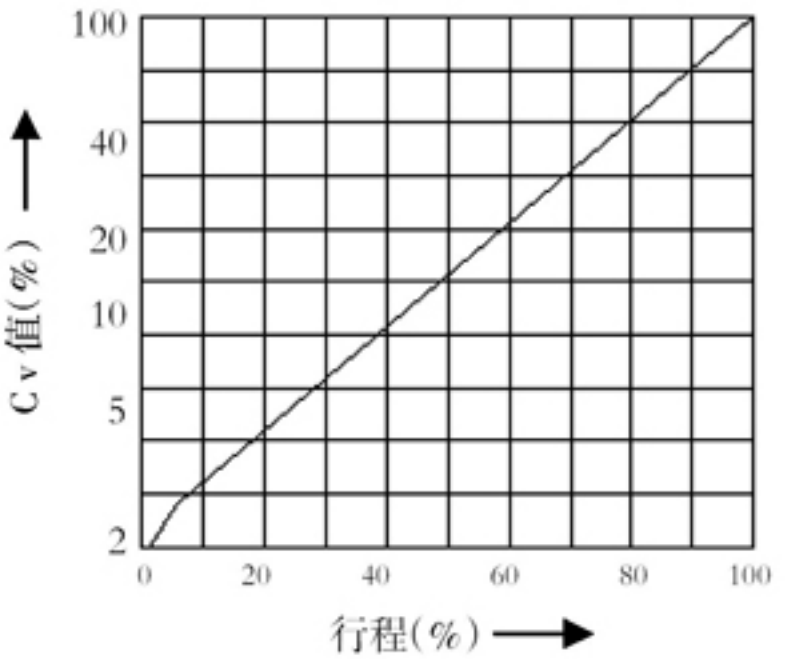



Stroke(%)

等百分比特性(% 软阀座)
Equal percentage (% soft sealing)




Stroke(%)

线性特性(L 软阀座)
Linear (% soft sealing)

**表 5.1、5.2、5.3、5.4. 5.5、5.6、5.7、5.8、5.9、5.10 最大允许压差(单位:bar)**

**Table 5.1、5.2、5.3、5.4. 5.5、5.6、5.7、5.8、5.9、5.10 Allowable pressure drops(Unit:bar)**

**表 5.1:允许压差(泄漏等级Ⅳ级 四氟填料):**

**Table 5.1: Allowable pressure drop ( leakage class Ⅳ with V-PTFE packing)**

| 执行机构 MF2、3 系列 MF2, 3 series actuator | | | | | 作用型式:气开 弹簧数量 Air to open Spring number | | | | 作用型式:气关 弹簧数量 Air to close Spring number | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 公称通径 Rated size DN(mm) | 行程 Stroke (mm) | 执行机构 尺寸参数 Actuator parameter | Cv | 阀座直径 Seat size (mm) | 3 | 6 | 9 | 12 | 3 | 3 | 3 | 6 | 6 |
| | | | | | 供气压力(bar)Air supply | | | | | | | | |
| | | | | | 2.5 | 4.0 | 4.5 | 5.5 | 3.0 | 4.5 | 6.0 | 4.5 | 6.0 |
| 15 1/2" | 16 10(快开) (On-off) | MF2 D/R -6XX 320cm²(50in²) | 4.7 | 15 | 50 | 50.0 | — | — | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 1.9 | 10 | 50 | 50.0 | — | — | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 0.73 | 5 | 50 | 50.0 | — | — | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| 20 3/4" | 16 10(快开) (On-off) | MF2 D/R -6XX 320cm²(50in²) | 4.7 | 15 | 50 | 50.0 | — | — | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 1.9 | 10 | 50 | 50.0 | — | — | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 0.73 | 5 | 50 | 50.0 | — | — | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| 25 1" | 16 10(快开) (On-off) | MF2 D/R -6XX 320cm²(50in²) | 11.5 | 25 | 25.5 | 42.7 | — | — | 25.5 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 4.7 | 15 | 50 | 50.0 | — | — | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 1.9 | 10 | 50 | 50.0 | — | — | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| 32 1 1/4" | 16 10(快开) (On-off) | MF2 D/R -6XX 320cm²(50in²) | 11.5 | 25 | 25.5 | 42.7 | — | — | 25.5 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 4.7 | 15 | 50 | 50.0 | — | — | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 1.9 | 10 | 50 | 50.0 | — | — | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| 40 1 1/2" | 16 10(快开) (On-off) | MF2 D/R -3XX 320cm²(50in²) | 29 | 36 | 10.6 | 34.1 | — | — | 34.1 | 50.0 | 50.0 | 34.1 | 50.0 |
| | | | 19 | 30 | 20.7 | 39.5 | — | — | 39.5 | 50.0 | 50.0 | 39.5 | 50.0 |
| | | | 11.5 | 25 | 25.5 | 42.7 | — | — | 25.5 | 50.0 | 50.0 | 50.0 | 50.0 |
| 50 2" | 16 10(快开) (On-off) | MF2 D/R -3XX 320cm²(50in²) | 46 | 46 | 5.5 | 19.8 | — | — | 19.8 | 47.8 | 50.0 | 19.8 | 50.0 |
| | | | 29 | 36 | 10.6 | 34.1 | — | — | 34.1 | 50.0 | 50.0 | 34.1 | 50.0 |
| | | | 19 | 30 | 20.7 | 39.5 | — | — | 39.5 | 50.0 | 50.0 | 39.5 | 50.0 |



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| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 65<br>2 1/2" | 16<br>10(快开)<br>(On-off) | MF2 D/R -3XX<br>320cm² (50in²) | 73 | 50 | 4.4 | 16.6 | — | — | 16.6 | 41.1 | 50.0 | 16.6 | 41.1 |
| | | | **46** | **46** | **5.5** | **19.8** | **—** | **—** | **19.8** | **47.8** | **50.0** | **19.8** | **50.0** |
| | | | 29 | 36 | 10.6 | 34.1 | — | — | 34.1 | 50.0 | 50.0 | 34.1 | 50.0 |
| **80**<br>**3"** | **30**<br>**20(快开)**<br>**(On-off)** | **MF2 D/R -5XX**<br>**320cm² (50in²)** | **116** | **80** | **—** | **4.5** | **—** | **—** | **4.5** | **14.0** | **23.6** | **4.5** | **14.0** |
| | | | 73 | 50 | 3.9 | 16.1 | — | — | 16.1 | 40.8 | 50.0 | 16.1 | 40.6 |
| | | | **46** | **46** | **4.9** | **19.3** | **—** | **—** | **19.3** | **50.0** | **50.0** | **19.3** | **50.0** |
| | | **MF3 D/R -1XX**<br>**720cm² (111in²)** | 116 | 80 | 4.9 | 14.8 | 20.8 | 26.8 | 16.4 | 37.9 | 50.0 | 16.4 | 37.9 |
| | | | **73** | **50** | **17.1** | **44.4** | **50.0** | **50.0** | **46.9** | **50.0** | **50.0** | **16.9** | **50.0** |
| | | | 46 | 46 | 20.2 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| 100<br>4" | 30<br>20(快开)<br>(On-off) | MF2 D/R -5XX<br>320cm² (50in²) | **186** | **100** | **—** | **2.5** | **—** | **—** | **2.5** | **8.6** | **14.7** | **2.5** | **8.6** |
| | | | 116 | 80 | — | 4.5 | — | — | 4.5 | 14.0 | 23.6 | 4.5 | 14.0 |
| | | | **73** | **50** | **3.9** | **16.1** | **—** | **—** | **16.1** | **40.8** | **50.0** | **16.1** | **40.6** |
| | | MF3 D/R -1XX<br>720cm² (111in²) | 186 | 100 | 2.7 | 9.1 | 12.9 | 16.7 | 10.1 | 23.9 | 37.6 | 10.1 | 23.9 |
| | | | **116** | **80** | **4.9** | **14.8** | **20.8** | **26.8** | **16.4** | **37.9** | **50.0** | **16.4** | **37.9** |
| | | | 73 | 50 | 17.1 | 44.4 | 50.0 | 50.0 | 46.9 | 50.0 | 50.0 | 16.9 | 50.0 |
| **150**<br>**6"** | **60**<br>**45(快开)**<br>**(On-off)** | **MF3 D/R -2XX**<br>**720cm² (111in²)** | **445** | **143** | **1.1** | **4.6** | **6.7** | **8.8** | **5.1** | **12.7** | **20.2** | **5.1** | **12.7** |
| | | | 304 | 113 | 1.7 | 6.5 | 9.4 | 12.3 | 7.3 | 17.7 | 28.1 | 7.3 | 17.7 |
| | | | **176** | **90** | **3.5** | **11.3** | **16** | **20.8** | **12.6** | **29.6** | **46.5** | **12.6** | **29.6** |
| 200<br>8" | 60<br>45(快开)<br>(On-off) | MF3 D/R -2XX<br>720cm² (111in²) | 761 | 172 | — | 2.2 | 3.4 | 4.6 | 2.5 | 6.7 | 11.0 | 2.5 | 6.7 |
| | | | **445** | **143** | **1.1** | **4.6** | **6.7** | **8.8** | **5.1** | **12.7** | **20.2** | **5.1** | **12.7** |
| | | | 304 | 113 | 1.7 | 6.5 | 9.4 | 12.3 | 7.3 | 17.7 | 28.1 | 7.3 | 17.7 |

| **执行机构 MF5 系列**<br>**MF5 series actuator** | | | | | 作用型式:气开<br>弹簧数量<br>Air to open<br>Spring number | | | 作用型式:气关<br>弹簧数量<br>Air to close<br>Spring number | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **4** | **6** | **8** | **4** | **4** | **4** | **4** | **4** | **6** | **6** | **6** | **6** |
| 公称通径<br>DN(mm)<br>Rated size | 行程<br>(mm)<br>Stroke | 执行机构尺寸参数<br>Actuator parameter | Cv | 阀座直径(mm)<br>Seat size | bar | bar | bar | 供气压力(bar) Air supply | | | | | | | | |
| | | | | | | | | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 4.0 | 4.5 | 5.0 | 5.5 |
| **150**<br>**6"** | **60**<br>**45(快开)**<br>**(On-off)** | **MF5 D/R -3X**<br>**1800cm² (279in²)** | **445** | **143** | **6.9** | **12.6** | **17.4** | **11.7** | **17.7** | **22.8** | **27.9** | **34.8** | **16.1** | **21.4** | **26.8** | **32.2** |
| | | | 304 | 113 | 10.5 | 20.4 | 28.5 | 21.6 | 30.7 | 37.9 | 45.6 | 50.0 | 26.4 | 34.4 | 43.6 | 50 |
| | | | **176** | **90** | **17.1** | **33.8** | **46.8** | **34.2** | **48.6** | **50.0** | **50.0** | **50.0** | **43.2** | **48.6** | **50.0** | **50.0** |
| 200<br>8" | 60<br>45(快开)<br>(On-off) | MF5 D/R -3X<br>1800cm² (279in²) | 761 | 172 | 4.4 | 8.2 | 11.8 | 8.3 | 12.1 | 15.3 | 18.1 | 23 | 11.3 | 13.6 | 18.1 | 20.9 |
| | | | **445** | **143** | **6.9** | **12.6** | **17.4** | **11.7** | **17.7** | **22.8** | **27.9** | **34.8** | **16.1** | **21.4** | **26.8** | **32.2** |
| | | | 304 | 113 | 10.5 | 20.4 | 28.5 | 21.6 | 30.7 | 37.9 | 45.6 | 50.0 | 26.4 | 34.4 | 43.6 | 50 |
| **250**<br>**10"** | **100**<br>**75(快开)**<br>**(On-off)** | **MF5 D/R -5X**<br>**1800cm² (279in²)** | **1053** | **220** | **–** | **4.5** | **6.8** | **1.8** | **3.8** | **5.9** | **8.6** | **10.7** | **–** | **3.2** | **5.5** | **7.8** |
| | | | 761 | 172 | – | 8.3 | 11.9 | 3.4 | 7.2 | 10.9 | 14.2 | 18.3 | – | 5.5 | 9.4 | 14.1 |
| | | | **445** | **143** | **–** | **12.0** | **14.9** | **5.0** | **10.7** | **16.2** | **22.0** | **27.7** | **–** | **8.3** | **14.0** | **20.7** |
| 300<br>12" | 100<br>75(快开)<br>(On-off) | MF5 D/R -5X<br>1800cm² (279in²) | 1521 | 282 | – | 2.3 | 3.6 | – | 1.7 | 3.4 | 4.7 | 7.3 | – | 1.6 | 2.9 | 4.4 |
| | | | **1053** | **220** | **–** | **4.5** | **6.8** | **1.8** | **3.8** | **5.9** | **8.6** | **10.7** | **–** | **3.2** | **5.5** | **7.8** |
| | | | 761 | 172 | – | 8.3 | 11.9 | 3.4 | 7.2 | 10.9 | 14.2 | 18.3 | – | 5.5 | 9.4 | 14.1 |

注:表中数值为最大允许关闭压差,当此数值大于 40 kg/cm²(bar),选择时,全开阀前、后压差不能超过 40 kg/cm²(bar);8 根弹簧只用在 MF5R 反作用执行机构中;执行机构型号中 "XX" 的代码详见执行机构样本。

Note: The number showed in above table is the max. of allowable pressure drops. When it is more than 40 kg/cm² (bar),The pressure drops between upstream and downstream of the valve which is fully opened should be less than 40 kg/cm² (bar); 8 springs is only used in the actuator of MF5R. The code "XX" of actuator type is detailed in the catalogue of actuator.



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**表 5.2:允许压差(泄漏等级Ⅳ级 石墨填料):**

**Table 5.2: Allowable pressure drops ( Leakage class: class Ⅳ with graphite packing)**

| 执行机构 MF2,3 系列<br>MF2, 3 series actuator | | | | | 作用型式:气开<br>弹簧数量<br>Air to open<br>Spring number | | | | 作用型式:气关<br>弹簧数量<br>Air to close<br>Spring number | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 公称通径<br>Rated size<br>DN(mm) | 最大行程<br>Stroke<br>(mm) | 执行机构<br>尺寸参数<br>Actuator parameter | Cv | 阀座直径<br>Seat size<br>(mm) | 3 | 6 | 9 | 12 | 3 | 3 | 3 | 6 | 6 |
| | | | | | 供气压力(bar)Air supply | | | | 供气压力(bar)Air supply | | | | |
| | | | | | 2.5 | 4.0 | 4.5 | 5.5 | 3.0 | 4.5 | 6.0 | 4.5 | 6.0 |
| 15<br>1/2" | 16<br>10(快开)<br>(On-off) | MF2D/R-6XX<br>320cm²(50in²) | 4.7 | 15 | 50 | 50.0 | – | – | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 1.9 | 10 | 50 | 50.0 | – | – | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 0.73 | 5 | 50 | 50.0 | – | – | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| 20<br>3/4" | 16<br>10(快开)<br>(On-off) | MF2D/R-6XX<br>320cm²(50in²) | 4.7 | 15 | 50 | 50.0 | – | – | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 1.9 | 10 | 50 | 50.0 | – | – | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 0.73 | 5 | 50 | 50.0 | – | – | 50 | 50 | 50 | 50 | 50 |
| 25<br>1" | 16<br>10(快开)<br>(On-off | MF2D/R-6XX<br>320cm²(50in²) | 11.5 | 25 | 25.5 | 42.7 | – | – | 25.5 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 4.7 | 15 | 50 | 50.0 | – | – | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 1.9 | 10 | 50 | 50.0 | – | – | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| 32<br>1 1/4" | 16<br>10(快开)<br>(On-off | MF2D/R-6XX<br>320cm²(50in²) | 11.5 | 25 | 25.5 | 42.7 | – | – | 25.5 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 4.7 | 15 | 50 | 50.0 | – | – | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 1.9 | 10 | 50 | 50.0 | – | – | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| 40<br>1 1/2" | 16<br>10(快开)<br>(On-off | MF2D/R-3XX<br>320cm²(50in²) | 29 | 36 | 4.6 | 28.2 | – | – | 28.2 | 46.4 | 50.0 | 28.2 | 50.0 |
| | | | 19 | 30 | 6.2 | 29.8 | – | – | 29.8 | 48 | 50.0 | 29.8 | 50.0 |
| | | | 11.5 | 25 | 13.2 | 42.7 | – | – | 42.7 | 50.0 | 50.0 | 42.7 | 50.0 |
| 50<br>2" | 16<br>10(快开)<br>(On-off) | MF2D/R-3XX<br>320cm²(50in²) | 46 | 46 | 2.9 | 16.3 | – | – | 16.3 | 45.2 | 50.0 | 16.3 | 47.4 |
| | | | 29 | 36 | 4.6 | 28.2 | – | – | 28.2 | 46.4 | 50.0 | 28.2 | 50.0 |
| | | | 19 | 30 | 6.2 | 29.8 | – | – | 29.8 | 48 | 50.0 | 29.8 | 50.0 |
| 65<br>2 1/2" | 16<br>10(快开)<br>(On-off) | MF2D/R-3XX<br>320cm²(50in²) | 73 | 50 | 1.3 | 13.6 | – | – | 13.6 | 38 | 50.0 | 13.8 | 38 |
| | | | 46 | 46 | 2.9 | 16.3 | – | – | 16.3 | 45.2 | 50.0 | 16.3 | 47.4 |
| | | | 29 | 36 | 4.6 | 28.2 | – | – | 28.2 | 46.4 | 50.0 | 28.2 | 50.0 |
| 80<br>3" | 30<br>20(快开)<br>(On-off) | MF2D/R-5XX<br>320cm²(50in²) | 116 | 80 | – | 3.1 | – | – | 3.1 | 12.6 | 22.2 | 3.1 | 12.6 |
| | | | 73 | 50 | – | 12.5 | – | – | 12.5 | 37 | 50.0 | 12.5 | 37 |
| | | | 46 | 46 | – | 15.1 | – | – | 15.1 | 44 | 50.0 | 15.2 | 44 |
| | | MF3D/R-1XX<br>720cm²(111in²) | 116 | 80 | 3.5 | 13.4 | 19.4 | 25.4 | 15 | 36.5 | 50.0 | 15 | 36.5 |
| | | | 73 | 50 | 13.6 | 39 | 50.0 | 48.2 | 43.1 | 48.2 | 50.0 | 43.1 | 50.0 |
| | | | 46 | 46 | 16.3 | 46.4 | 50.0 | 47.8 | 47.8 | 50.0 | 50.0 | 47.8 | 50.0 |
| 100<br>4" | 30<br>20(快开)<br>(On-off) | MF2D/R-5XX<br>320cm²(50in²) | 186 | 100 | – | 1.6 | – | – | 1.6 | 7.7 | 13.8 | 1.6 | 7.7 |
| | | | 116 | 80 | – | 3.1 | – | – | 3.1 | 12.6 | 22.2 | 3.1 | 12.6 |
| | | | 73 | 50 | – | 12.5 | – | – | 12.5 | 37 | 50.0 | 12.5 | 37 |
| | | MF3D/R-1XX<br>720cm²(111in²) | 186 | 100 | 1.8 | 8.2 | 12.0 | 15.9 | 9.2 | 23.0 | 36.7 | 9.2 | 23.0 |
| | | | 116 | 80 | 3.5 | 13.4 | 19.4 | 25.4 | 15 | 36.5 | 50.0 | 15 | 36.5 |
| | | | 73 | 50 | 13.6 | 39 | 50.0 | 48.2 | 43.1 | 48.2 | 50.0 | 43.1 | 50.0 |
| 150<br>6" | 60<br>50(快开)<br>(On-off) | MF3D/R-2XX<br>720cm²(111in²) | 445 | 143 | – | 4.1 | 6.2 | 8.3 | 4.6 | 11.6 | 19.7 | 4.6 | 12.2 |
| | | | 304 | 113 | 1.0 | 5.8 | 8.7 | 11.6 | 6.6 | 17.0 | 27.4 | 6.6 | 17.0 |
| | | | 176 | 90 | 2.4 | 10.2 | 14.9 | 19.7 | 11.5 | 28.5 | 45.4 | 11.5 | 28.5 |
| 200<br>8" | 60<br>50(快开)<br>(On-off) | MF3D/R-2XX<br>720cm²(111in²) | 761 | 172 | – | 1.9 | 3.1 | 4.3 | 2.3 | 6.5 | 10.8 | 2.3 | 6.5 |
| | | | 445 | 143 | – | 4.1 | 6.2 | 8.3 | 4.6 | 11.6 | 19.7 | 4.6 | 12.2 |
| | | | 304 | 113 | – | 5.8 | 8.7 | 11.6 | 6.6 | 17.0 | 27.4 | 6.6 | 17.0 |



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| 执行机构 MF5 系列 MF5 series actuator | | | | | 作用型式:气开 弹簧数量 Air to open Spring number | | | 作用型式:气关 弹簧数量 Air to close Spring number | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4 | 6 | 8 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 |
| 公称通径 DN(mm) Rated size | 最大行程 (mm) Stroke | 执行机构尺寸参数 Actuator parameter | Cv | 阀座直径(mm) Seat size | bar | bar | bar | 供气压力(bar) Air supply | | | | | | | | |
| | | | | | | | | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 4.0 | 4.5 | 5.0 | 5.5 |
| 150 6" | 60 45(快开) (On-off) | MF5 D/R -3X 1800cm² (279in²) | **445** | **143** | **6.4** | **12.1** | **16.9** | **11.2** | **16.9** | **22.3** | **27.4** | **34.3** | **15.4** | **20.9** | **26.1** | **31.7** |
| | | | 304 | 113 | 10.0 | 19.9 | 28.0 | 21.1 | 30.2 | 37.4 | 45.1 | 50.0 | 25.9 | 33.9 | 43.1 | 48.6 |
| | | | **176** | **90** | **16.3** | **33.0** | **46.0** | **33.4** | **47.8** | **50.0** | **50.0** | **50.0** | **42.4** | **47.8** | **50.0** | **50.0** |
| 200 8" | 60 45(快开) (On-off) | MF5 D/R -3X 1800cm² (279in²) | 761 | 172 | 4.0 | 7.8 | 11.4 | 7.9 | 11.7 | 14.9 | 17.7 | 22.6 | 10.9 | 13.2 | 17.7 | 20.5 |
| | | | **445** | **143** | **6.4** | **12.1** | **16.9** | **11.2** | **16.9** | **22.3** | **27.4** | **34.3** | **15.4** | **20.9** | **26.1** | **31.7** |
| | | | 304 | 113 | 10.0 | 19.9 | 28.0 | 21.1 | 30.2 | 37.4 | 45.1 | 50.0 | 25.9 | 33.9 | 43.1 | 48.6 |
| 250 10" | 100 75(快开) (On-off) | MF5 D/R -5X 1800cm² (279in²) | **1053** | **220** | – | **4.0** | **6.3** | **1.3** | **3.3** | **5.4** | **8.1** | **10.2** | – | **2.7** | **5.0** | **7.3** |
| | | | 761 | 172 | – | 7.8 | 11.4 | 2.9 | 6.7 | 10.4 | 13.7 | 17.8 | – | 5.0 | 8.9 | 13.6 |
| | | | **445** | **143** | – | **11.5** | **14.4** | **4.5** | **10.2** | **15.7** | **21.5** | **27.2** | – | **7.8** | **13.5** | **20.2** |
| 300 12" | 100 75(快开) (On-off) | MF5 D/R -5X 1800cm² (279in²) | 1521 | 282 | – | 1.8 | 3.1 | – | 1.2 | 2.9 | 4.2 | 6.8 | – | 1.1 | 2.4 | 3.9 |
| | | | **1053** | **220** | – | **4.0** | **6.3** | **1.3** | **3.3** | **5.4** | **8.1** | **10.2** | – | **2.7** | **5.0** | **7.3** |
| | | | 761 | 172 | – | 7.8 | 11.4 | 2.9 | 6.7 | 10.4 | 13.7 | 17.8 | – | 5.0 | 8.9 | 13.6 |

注:表中数值为最大允许关闭压差,当此数值大于 40kgf/cm²(bar),选择时,全开阀前、后压差不能超过 40kgf/cm²(bar);8 根弹簧只用在 MF5R 反作用执行机构中;执行机构型号中 "XX" 的代码详见执行机构样本。

Note: The number showed in above table is the max. of allowable pressure drops. When it is more than 40kgf/cm² (bar),The pressure drops between upstream and downstream of the valve which is fully opened should be less than 40kgf/cm²(bar); 8 springs is only used in the actuator of MF5R. The code "XX" of actuator type is detailed in the catalogue of actuator.

## 表 5.3:允许压差(泄漏等级 V 级 四氟填料):

## Table 5.3: Allowable pressure drops ( Leakage class: class V with V-PTFE packing)

| 执行机构 MF2,3 系列 MF2, 3 series actuator | | | | | 作用型式:气开 弹簧数量 Air to open Spring number | | | | 作用型式:气关 弹簧数量 Air to close Spring number | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 公称通径 Rated size DN(mm) | 最大行程 Stroke (mm) | 执行机构 尺寸参数 Actuator parameter | Cv | 阀座直径 Seat size (mm) | 3 | 6 | 9 | 12 | 3 | 3 | 3 | 6 | 6 |
| | | | | | 供气压力(bar)Air supply | | | | 供气压力(bar)Air supply | | | | |
| | | | | | 2.5 | 4.0 | 4.5 | 5.5 | 3.0 | 4.5 | 6.0 | 4.5 | 6.0 |
| 15 1/2" | 16 10(快开) (On-off) | MF2 D/R -6XX 320cm² (50in²) | 4.7 | 15 | 34.2 | 50.0 | – | – | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 1.9 | 10 | 50 | 50.0 | – | – | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 0.73 | 5 | 50 | 50.0 | – | – | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| 20 3/4" | 16 10(快开) (On-off) | MF2 D/R -6XX 320cm² (50in²) | **4.7** | **15** | **34.2** | **50.0** | – | – | **50** | **50.0** | **50.0** | **50.0** | **50.0** |
| | | | 1.9 | 10 | 50 | 50.0 | – | – | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | **0.73** | **5** | **50** | **50.0** | – | – | **50** | **50.0** | **50.0** | **50.0** | **50.0** |
| 25 1" | 16 10(快开) (On-off) | MF2 D/R -6XX 320cm² (50in²) | 11.5 | 25 | 25.5 | 42.7 | – | – | 25.5 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | **4.7** | **15** | **34.2** | **50.0** | – | – | **50** | **50.0** | **50.0** | **50.0** | **50.0** |
| | | | 1.9 | 10 | 50 | 50.0 | – | – | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| 32 1 1/4" | 16 10(快开) (On-off) | MF2 D/R -6XX 320cm² (50in²) | **11.5** | **25** | **25.5** | **42.7** | – | – | **25.5** | **50.0** | **50.0** | **50.0** | **50.0** |
| | | | 4.7 | 15 | 34.2 | 50.0 | – | – | 50 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | **1.9** | **10** | **50** | **50.0** | – | – | **50** | **50.0** | **50.0** | **50.0** | **50.0** |
| 40 1 1/2" | 16 10(快开) (On-off) | MF2 D/R -3XX 320cm² (50in²) | 29 | 36 | – | 11.9 | – | – | 11.9 | 46.4 | 50.0 | 11.9 | 50.0 |
| | | | **19** | **30** | – | **14.5** | – | – | **14.5** | **47.2** | **50.0** | **11.9** | **50.0** |
| | | | 11.5 | 25 | – | 42.4 | – | – | 42.4 | 45.0 | 50.0 | 42.4 | 50.0 |
| 50 2" | 16 10(快开) (On-off) | MF2 D/R -3XX 320cm² (50in²) | **46** | **46** | – | **2.5** | – | – | **2.5** | **31.4** | **47.8** | **2.5** | **31.4** |
| | | | 29 | 36 | – | 11.9 | – | – | 11.9 | 46.4 | 50.0 | 11.9 | 50.0 |
| | | | **19** | **30** | – | **14.5** | – | – | **14.5** | **47.2** | **50.0** | **11.9** | **50.0** |



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| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 65<br>2 1/2" | 16<br>10(快开)<br>(On-off) | MF2 D/R -3XX<br>320cm² (50in²) | 73 | 50 | – | – | – | – | – | 25.1 | 48.2 | – | 25.1 |
| | | | **46** | **46** | – | **2.5** | – | – | **2.5** | **31.4** | **47.8** | **2.5** | **31.4** |
| | | | 29 | 36 | – | 11.9 | – | – | 11.9 | 46.4 | 50.0 | 11.9 | 50.0 |
| **80**<br>**3"** | **30**<br>**20(快开)**<br>**(On-off)** | **MF2 D/R -5XX**<br>**320cm² (50in²)** | **116** | **80** | – | – | – | – | – | **4.0** | **13.6** | – | **4.0** |
| | | | 73 | 50 | – | – | – | – | – | 24.6 | 48.2 | – | 24.6 |
| | | | **46** | **46** | – | **1.9** | – | – | **1.9** | **30.8** | **47.8** | **1.9** | **30.8** |
| | | **MF3 D/R -1XX**<br>**720cm² (111in²)** | 116 | 80 | – | 4.8 | 10.8 | 16.8 | 6.4 | 27.9 | 50.0 | 6.4 | 27.9 |
| | | | **73** | **50** | – | **26.6** | **41.9** | **50.0** | **30.7** | **48.2** | **50.0** | **30.7** | **50.0** |
| | | | 46 | 46 | 3.2 | 33.3 | 47.8 | 50.0 | 38.1 | 47.8 | 50.0 | 38.1 | 50.0 |
| 100<br>4" | 30<br>20(快开)<br>(On-off) | MF2 D/R -5XX<br>320cm² (50in²) | **186** | **100** | – | – | – | – | – | – | **6.7** | – | – |
| | | | 116 | 80 | – | – | – | – | – | 4.0 | 13.6 | – | 4.0 |
| | | | **73** | **50** | – | – | – | – | – | **24.6** | **48.2** | – | **24.6** |
| | | MF3 D/R -1XX<br>720cm² (111in²) | 189 | 100 | – | – | 4.9 | 8.7 | 2.1 | 15.9 | 29.6 | 2.1 | 15.9 |
| | | | **116** | **80** | – | **4.8** | **10.8** | **16.8** | **6.4** | **27.9** | **50.0** | **6.4** | **27.9** |
| | | | 73 | 50 | – | 26.6 | 41.9 | 50.0 | 30.7 | 48.2 | 50.0 | 30.7 | 50.0 |
| **150**<br>**6"** | **60**<br>**45(快开)**<br>**(On-off)** | **MF3 D/R -2XX**<br>**720cm² (111in²)** | **445** | **143** | – | – | – | **2.8** | – | **6.7** | **14.3** | – | **6.7** |
| | | | 304 | 113 | – | – | 2.9 | 5.3 | – | 10.7 | 21.1 | – | 10.7 |
| | | | **176** | **90** | – | **2.4** | **7.1** | **11.9** | **3.7** | **20.7** | **37.1** | **3.7** | **20.7** |
| 200<br>8" | 60<br>45(快开)<br>(On-off) | MF3 D/R -2XX<br>720cm² (111in²) | 761 | 172 | – | – | – | – | – | 2.3 | 6.6 | – | 2.3 |
| | | | **445** | **143** | – | – | – | **2.8** | – | **6.7** | **14.3** | – | **6.7** |
| | | | 304 | 113 | – | – | 2.9 | 5.3 | – | 10.7 | 21.1 | – | 10.7 |

| **执行机构 MF5 系列**<br>**MF5 series actuator** | | | | | 作用型式:气开<br>弹簧数量<br>Air to open<br>Spring number | | | 作用型式:气关<br>弹簧数量<br>Air to close<br>Spring number | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **4** | **6** | **8** | **4** | **4** | **4** | **4** | **4** | **6** | **6** | **6** | **6** |
| 公称通径<br>DN(mm)<br>Rated size | 最大行程(mm)<br>Stroke | 执行机构尺寸参数<br>Actuator parameter | Cv | 阀座直径(mm)<br>Seat size | bar | bar | bar | 供气压力(bar) Air supply | | | | | | | | |
| | | | | | | | | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 4.0 | 4.5 | 5.0 | 5.5 |
| **150**<br>**6"** | **60**<br>**50(快开)**<br>**(On-off)** | **MF5 D/R -3X**<br>**1800cm² (279in²)** | **445** | **143** | **2.5** | **8.7** | **13.1** | – | **13.4** | **18.1** | **23.5** | **29.9** | **11.6** | **17.5** | **22.1** | **27.7** |
| | | | 304 | 113 | 7.1 | 14.4 | 24.4 | 14.6 | 23.7 | 30.9 | 37.6 | 42.0 | 15.3 | 23.4 | 30.9 | 38.6 |
| | | | **176** | **90** | **13.9** | **16.2** | **38.6** | **29.2** | **37.1** | **46.1** | **50** | **50** | **27.1** | **40.1** | **50** | **50** |
| 200<br>8" | 60<br>50(快开)<br>(On-off) | MF5 D/R -3X<br>1800cm² (279in²) | 761 | 172 | 1.2 | 5.3 | 8.8 | – | 8.6 | 11.7 | 16.0 | 19.2 | 7.3 | 10.9 | 14.9 | 18.9 |
| | | | **445** | **143** | **2.5** | **8.7** | **13.1** | – | **13.4** | **18.1** | **23.5** | **29.9** | **11.6** | **17.5** | **22.1** | **27.7** |
| | | | 304 | 113 | 7.1 | 14.4 | 24.4 | 14.6 | 23.7 | 30.9 | 37.6 | 42.0 | 15.3 | 23.4 | 30.9 | 38.6 |
| **250**<br>**10"** | **100**<br>**75(快开)**<br>**(On-off)** | **MF5 D/R -5X**<br>**1800cm² (279in²)** | **1053** | **220** | – | **0.8** | **3.2** | – | – | **3.0** | **5.2** | **7.7** | – | – | **2.2** | **4.2** |
| | | | 761 | 172 | – | 4.1 | 7.7 | – | 3.1 | 6.6 | 10.1 | 14.4 | – | 2.1 | 6.0 | 9.9 |
| | | | **445** | **143** | – | **7.5** | **12.9** | – | **5.7** | **11.4** | **17.0** | **22.6** | – | **4.5** | **10.1** | **15.8** |
| 300<br>12" | 100<br>75(快开)<br>(On-off) | MF5 D/R -5X<br>1800cm² (279in²) | 1521 | 282 | – | – | – | – | – | – | – | – | – | – | – | – |
| | | | **1053** | **220** | – | – | – | – | – | – | – | – | – | – | – | – |
| | | | 761 | 172 | – | – | – | – | – | – | – | – | – | – | – | – |

注:表中数值为最大允许关闭压差,当此数值大于 40 kgf/cm²(bar),选择时,全开阀前、后压差不能超过 40 kgf/cm²(bar);8 根弹簧只用在 MF5R 反作用执行机构中;执行机构型号中 "XX" 的代码详见执行机构样本。

Note: The number showed in above table is the max. of allowable pressure drops. When it is more than 40 kgf/cm²(bar), The pressure drops between upstream and downstream of the valve which is fully opened should be less than kgf/cm² (bar); 8 springs is only used in the actuator of MF5R. The code "XX" of actuator type is detailed in the catalogue of actuator.



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**表 5.4:允许压差(泄漏等级 V 级 石墨填料):**

**Table 5.4: Allowable pressure drops ( Leakage class: class V with graphite packing)**

| 执行机构 MF2,3 系列<br>MF2, 3 series actuator | | | | | 作用型式:气开<br>弹簧数量<br>Air to open<br>Spring number | | | | 作用型式:气关<br>弹簧数量<br>Air to close<br>Spring number | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 公称通径<br>Rated size<br>DN(mm) | 最大行程<br>Stroke<br>(mm) | 执行机构<br>尺寸参数<br>Actuator parameter | Cv | 阀座直径<br>Seat size<br>(mm) | 3 | 6 | 9 | 12 | 3 | 3 | 3 | 6 | 6 |
| | | | | | bar | bar | bar | bar | 供气压力(bar)Air supply | | | | |
| | | | | | | | | | 3.0 | 4.5 | 6.0 | 4.5 | 6.0 |
| 15<br>1/2" | 16<br>10(快开)<br>(On-off) | MF2D/R-6XX<br>320cm²(50in²) | 4.7 | 15 | 9.6 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 1.9 | 10 | 50.0 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 0.73 | 5 | 50.0 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| 20<br>3/4" | 16<br>10(快开)<br>(On-off) | MF2D/R-6XX<br>320cm²(50in²) | 4.7 | 15 | 9.6 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 1.9 | 10 | 50.0 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 0.73 | 5 | 50.0 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| 25<br>1" | 16<br>10(快开)<br>(On-off | MF2D/R-6XX<br>320cm²(50in²) | 11.5 | 25 | – | 34.5 | – | – | 34.5 | 50.0 | 50.0 | 34.5 | 50.0 |
| | | | 4.7 | 15 | 9.6 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 1.9 | 10 | 50.0 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| 32<br>1 1/4" | 16<br>10(快开)<br>(On-off | MF2D/R-6XX<br>320cm²(50in²) | 11.5 | 25 | – | 37.5 | – | – | 34.5 | 50.0 | 50.0 | 34.5 | 50.0 |
| | | | 4.7 | 15 | 9.6 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 1.9 | 10 | 50.0 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| 40<br>1 1/2" | 16<br>10(快开)<br>(On-off | MF2D/R-3XX<br>320cm²(50in²) | 29 | 36 | – | 6.6 | – | – | 6.6 | 50.0 | 50.0 | 6.6 | 50.0 |
| | | | 19 | 30 | – | 17.5 | – | – | 17.5 | 50.0 | 50.0 | 17.5 | 50.0 |
| | | | 11.5 | 25 | – | 34.5 | – | – | 34.5 | 50.0 | 50.0 | 34.5 | 50.0 |
| 50<br>2" | 16<br>10(快开)<br>(On-off) | MF2D/R-3XX<br>320cm²(50in²) | 46 | 46 | – | – | – | – | – | 27 | 50.0 | – | 27 |
| | | | 29 | 36 | – | 6.6 | – | – | 6.6 | 50.0 | 50.0 | 6.6 | 50.0 |
| | | | 19 | 30 | – | 17.5 | – | – | 17.5 | 50.0 | 50.0 | 17.5 | 50.0 |
| 65<br>2 1/2" | 16<br>10(快开)<br>(On-off) | MF2D/R-3XX<br>320cm²(50in²) | 73 | 50 | – | – | – | – | – | 20.8 | 45.3 | – | 20.8 |
| | | | 46 | 46 | – | – | – | – | – | 27 | 50.0 | – | 27 |
| | | | 29 | 36 | – | 6.6 | – | – | 6.6 | 50.0 | 50.0 | 6.6 | 50.0 |
| 80<br>3" | 30<br>20(快开)<br>(On-off) | MF2D/R-5XX<br>320cm²(50in²) | 116 | 80 | – | – | – | – | – | 3.0 | 10.6 | – | 3.0 |
| | | | 73 | 50 | – | – | – | – | – | 20.8 | 45.3 | – | 20.8 |
| | | | 46 | 46 | – | – | – | – | – | 26.8 | 50.0 | – | 26.8 |
| | | MF3D/R-1XX<br>720cm²(111in²) | 116 | 80 | – | 5.0 | 9.6 | 16 | 5.5 | 27 | 48.5 | 5.5 | 27 |
| | | | 73 | 50 | – | 23.6 | 39 | 50.0 | 27.6 | 50.0 | 50.0 | 27.6 | 50.0 |
| | | | 46 | 46 | 1.1 | 30 | 48 | 50.0 | 35 | 50.0 | 50.0 | 35 | 50.0 |
| 100<br>4" | 30<br>20(快开)<br>(On-off) | MF2D/R-5XX<br>320cm²(50in²) | 186 | 100 | – | – | – | – | – | – | 5.6 | – | – |
| | | | 116 | 80 | – | – | – | – | – | 3.2 | 12.6 | – | 3.2 |
| | | | 73 | 50 | – | – | – | – | – | 21.5 | 46.2 | – | 21.6 |
| | | MF3D/R-1XX<br>720cm²(111in²) | 186 | 100 | – | – | 4.0 | 7.6 | – | 15 | 28.6 | – | 15 |
| | | | 116 | 80 | – | 4.0 | 10.0 | 16 | 5.3 | 27.1 | 48.6 | 5.6 | 27 |
| | | | 73 | 50 | – | 23.6 | 39 | 49 | 27.6 | 50.0 | 50.0 | 27.6 | 50.0 |
| 150<br>6" | 60<br>45(快开)<br>(On-off) | MF3D/R-2XX<br>720cm²(111in²) | 445 | 143 | – | – | – | 1.9 | – | 5.9 | 13.4 | – | 5.9 |
| | | | 304 | 113 | – | – | 1.7 | 4.6 | – | 10 | 20.4 | – | 10 |
| | | | 176 | 90 | – | 1.7 | 6.4 | 11.2 | 3.0 | 20 | 37 | 3.0 | 20 |
| 200<br>8" | 60<br>45(快开)<br>(On-off) | MF3D/R-2XX<br>720cm²(111in²) | 761 | 172 | – | – | – | – | – | 2.0 | 6.3 | – | 2.1 |
| | | | 445 | 143 | – | – | – | 2.4 | – | 6.4 | 14 | – | 6.4 |
| | | | 304 | 113 | – | – | 2.0 | 5.0 | – | 10.4 | 20.8 | – | 10 |



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| 执行机构 MF5 系列 MF5 series actuator | | | | | 作用型式:气开 弹簧数量 Air to open Spring number | | | 作用型式:气关 弹簧数量 Air to close Spring number | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4 | 6 | 8 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 |
| 公称通径 DN(mm) Rated size | 最大行程(mm) Stroke | 执行机构尺寸参数 Actuator parameter | Cv | 阀座直径(mm) Seat size | bar | bar | bar | 供气压力(bar) Air supply | | | | | | | | |
| | | | | | | | | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 4.0 | 4.5 | 5.0 | 5.5 |
| 150 6" | 60 45(快开) (On-off) | MF5 D/R -3X 1800cm² (279in²) | 445 | 143 | 2.0 | 7.3 | 12.6 | – | 12.9 | 17.6 | 23.0 | 29.4 | 11.1 | 16.9 | 21.5 | 26.9 |
| | | | 304 | 113 | 6.6 | 13.9 | 23.9 | 14.1 | 23.2 | 30.4 | 37.1 | 41.5 | 14.8 | 22.9 | 30.4 | 38.1 |
| | | | 176 | 90 | 13.4 | 15.7 | 38.1 | 28.7 | 36.6 | 45.6 | 48.1 | 50 | 26.6 | 39.6 | 48.1 | 50 |
| 200 8" | 60 45(快开) (On-off) | MF5 D/R -3X 1800cm² (279in²) | 761 | 172 | 0.7 | 4.8 | 8.3 | – | 8.1 | 11.2 | 15.5 | 18.7 | 6.8 | 10.4 | 14.4 | 18.4 |
| | | | 445 | 143 | 2.0 | 7.3 | 12.6 | – | 12.9 | 17.6 | 23.0 | 29.4 | 11.1 | 16.9 | 21.5 | 26.9 |
| | | | 304 | 113 | 6.6 | 13.9 | 23.9 | 14.1 | 23.2 | 30.4 | 37.1 | 41.5 | 14.8 | 22.9 | 30.4 | 38.1 |
| 250 10" | 100 75(快开) (On-off) | MF5 D/R -5X 1800cm² (279in²) | 1053 | 220 | – | – | 2.7 | – | – | 2.5 | 4.7 | 7.2 | – | – | 1.7 | 3.7 |
| | | | 761 | 172 | – | 3.6 | 7.2 | – | 2.6 | 6.1 | 9.6 | 13.9 | – | 1.6 | 5.5 | 9.4 |
| | | | 445 | 143 | – | 7.1 | 12.5 | – | 5.3 | 11.0 | 16.6 | 22.2 | – | 4.1 | 9.7 | 15.4 |
| 300 12" | 100 75(快开) (On-off) | MF5 D/R -5X 1800cm² (279in²) | 1521 | 282 | – | – | – | – | – | – | – | – | – | – | – | – |
| | | | 1053 | 220 | – | – | – | – | – | – | – | – | – | – | – | – |
| | | | 761 | 172 | – | – | – | – | – | – | – | – | – | – | – | – |

注:表中数值为最大允许关闭压差,当此数值大于 40 kg/cm²(bar),选择时,全开阀前、后压差不能超过 40 kg/cm²(bar);8 根弹簧只用在 MF5R 反作用执行机构中;执行机构型号中 "XX" 的代码详见执行机构样本。

Note: The number showed in above table is the max. of allowable pressure drops. When it is more than 40 kg/cm²(bar), The pressure drops between upstream and downstream of the valve which is fully opened should be less than 40 kg/cm² (bar); 8 springs is only used in the actuator of MF5R. The code "XX" of actuator type is detailed in the catalogue of actuator.

## 表 5.5:允许压差(泄漏等级Ⅵ级):

## Table 5.5: Allowable pressure drop ( Leakage class Ⅵ)

| 执行机构 MF2,3 系列 MF2, 3 series actuator | | | | | 作用型式:气开 弹簧数量 Air to open Spring number | | | | 作用型式:气关 弹簧数量 Air to close Spring number | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 公称通径 Rated size DN(mm) | 最大行程 Stroke (mm) | 执行机构 尺寸参数 Actuator parameter | Cv | 阀座直径 Seat size (mm) | 3 | 6 | 9 | 12 | 3 | 3 | 3 | 6 | 6 |
| | | | | | 供气压力(bar)Air supply | | | | 供气压力(bar)Air supply | | | | |
| | | | | | 2.5 | 4.0 | 4.5 | 5.5 | 3.0 | 4.5 | 6.0 | 4.5 | 6.0 |
| 15 1/2" | 16 10(快开) (On-off) | MF2 D/R -6XX 320cm² (50in²) | 4.7 | 15 | 21.5 | 45.5 | – | – | 45.5 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 1.9 | 10 | 50.0 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 0.73 | 5 | 50.0 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| 20 3/4" | 16 10(快开) (On-off) | MF2 D/R -6XX 320cm² (50in²) | 4.7 | 15 | 21.5 | 45.5 | – | – | 45.5 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 1.9 | 10 | 50.0 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| | | | 0.73 | 5 | 50.0 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| 25 1" | 16 10(快开) (On-off) | MF2 D/R -6XX 320cm² (50in²) | 11.5 | 25 | 5.1 | 34.9 | – | – | 34.9 | 50.0 | 50.0 | 34.9 | 50.0 |
| | | | 4.7 | 15 | 21.5 | 38 | – | – | 38 | 50.0 | 50.0 | 38 | 50.0 |
| | | | 1.9 | 10 | 50.0 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| 32 1 1/4" | 16 10(快开) (On-off) | MF2 D/R -6XX 320cm² (50in²) | 11.5 | 25 | 5.1 | 34.9 | – | – | 34.9 | 50.0 | 50.0 | 34.9 | 50.0 |
| | | | 4.7 | 15 | 21.5 | 38 | – | – | 38 | 50.0 | 50.0 | 38 | 50.0 |
| | | | 1.9 | 10 | 50.0 | 50.0 | – | – | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| 40 1 1/2" | 16 10(快开) (On-off) | MF2 D/R -3XX 320cm² (50in²) | 29 | 36 | – | 16.8 | – | – | 16.8 | 46.4 | 50.0 | 16.8 | 50.0 |
| | | | 19 | 30 | 3.3 | 25 | – | – | 25 | 50.0 | 50.0 | 25 | 50.0 |
| | | | 11.5 | 25 | 5.1 | 34.9 | – | – | 34.9 | 50.0 | 50.0 | 34.9 | 50.0 |
| 50 2" | 16 10(快开) (On-off) | MF2 D/R -3XX 320cm² (50in²) | 46 | 46 | – | 7.8 | – | – | 7.8 | 26.3 | 44.8 | 7.8 | 26.3 |
| | | | 29 | 36 | – | 16.8 | – | – | 16.8 | 46.4 | 50.0 | 16.8 | 50.0 |
| | | | 19 | 30 | 3.3 | 25 | – | – | 25 | 50.0 | 50.0 | 25 | 50.0 |



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| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 65<br>2 1/2″ | 16<br>10(快开)<br>(On-off) | MF2 D/R -3XX<br>320cm²(50in²) | 73 | 50 | – | 7.4 | – | – | 7.4 | 25.8 | 43.6 | 7.4 | 25.8 |
| | | | **46** | **46** | – | **7.8** | – | – | **7.8** | **26.3** | **44.8** | **7.8** | **26.3** |
| | | | 29 | 36 | – | 16.8 | – | – | 16.8 | 46.4 | 50.0 | 16.8 | 50.0 |
| **80**<br>**3″** | **30**<br>**20(快开)**<br>**(On-off)** | **MF2 D/R -5XX**<br>**320cm²(50in²)** | **116** | **80** | – | – | – | – | – | **8.4** | **16** | – | **8.4** |
| | | | 73 | 50 | – | 7.8 | – | – | 7.8 | 26.3 | 44.8 | 7.8 | 27.3 |
| | | | **46** | **46** | – | **8.0** | – | – | **8.0** | **27.0** | **45.2** | **8.0** | **28** |
| | | **MF3 D/R -1XX**<br>**720cm²(111in²)** | 116 | 80 | 1.1 | 9.0 | 13.8 | 18.6 | 10.3 | 27.5 | 44.8 | 10.3 | 27.5 |
| | | | **73** | **50** | **8.6** | **27.8** | **39.4** | **48.2** | **30.9** | **48.2** | **50.0** | **30.9** | **50.0** |
| | | | 46 | 46 | 8.2 | 27.4 | 39 | 50.0 | 30.5 | 50.0 | 50.0 | 30.5 | 50.0 |
| 100<br>4″ | 30<br>20(快开)<br>(On-off) | MF2 D/R -5XX<br>320cm²(50in²) | **186** | **100** | – | – | – | – | – | **5.0** | **10.1** | – | **5.0** |
| | | | 116 | 80 | – | 0.8 | – | – | 0.8 | 8.4 | 16 | 0.8 | 8.4 |
| | | | **73** | **50** | – | **7.8** | – | – | **7.8** | **26.3** | **44.8** | **7.8** | **27.3** |
| | | MF3 D/R -1XX<br>720cm²(111in²) | 186 | 100 | – | 5.4 | 8.6 | 11.8 | 6.3 | 17.8 | 29.2 | 6.3 | 17.8 |
| | | | **116** | **80** | **1.1** | **9.0** | **13.8** | **18.6** | **10.3** | **27.5** | **44.8** | **10.3** | **27.5** |
| | | | 73 | 50 | 8.6 | 27.8 | 39.4 | 48.2 | 30.9 | 48.2 | 50.0 | 30.9 | 50.0 |
| **150**<br>**6″** | **60**<br>**45(快开)**<br>**(On-off)** | **MF3 D/R -2XX**<br>**720cm²(111in²)** | **445** | **143** | – | **2.0** | **3.6** | **5.3** | **2.4** | **8.3** | **14.3** | **2.4** | **8.3** |
| | | | 304 | 113 | – | 3.9 | 6.4 | 9.0 | 4.6 | 13.7 | 22.9 | 4.6 | 13.7 |
| | | | **176** | **90** | – | **6.8** | **10.7** | **14.5** | **7.8** | **21.7** | **35.6** | **7.8** | **21.7** |
| 200<br>8″ | 60<br>45(快开)<br>(On-off) | MF3 D/R -2XX<br>720cm²(111in²) | 761 | 172 | – | – | 1.9 | 2.9 | 1.1 | 4.8 | 8.6 | 1.1 | 4.8 |
| | | | **445** | **143** | – | **2.0** | **3.6** | **5.3** | **2.4** | **8.3** | **14.3** | **2.4** | **8.3** |
| | | | 304 | 113 | – | 3.9 | 6.4 | 9.0 | 4.6 | 13.7 | 22.9 | 4.6 | 13.7 |

| **执行机构 MF5 系列**<br>**MF5 series actuator** | | | | | 作用型式:气开<br>弹簧数量<br>Air to open<br>Spring number | | | 作用型式:气关<br>弹簧数量<br>Air to clos<br>Spring number | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **4** | **6** | **8** | **4** | **4** | **4** | **4** | **4** | **6** | **6** | **6** | **6** |
| 公称通径<br>DN(mm)<br>Rated size | 最大行程(mm)<br>Stroke | 执行机构尺寸参数<br>Actuator parameter | Cv | 阀座直径(mm)<br>Seat size | bar | bar | bar | 供气压力(bar) Air supply | | | | | | | | |
| | | | | | | | | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 4.0 | 4.5 | 5.0 | 5.5 |
| **150**<br>**6″** | **60**<br>**45(快开)**<br>**(On-off)** | **MF5 D/R -3X**<br>**1800cm²(279in²)** | **445** | **143** | **3.5** | **9.6** | **15.6** | – | **7.8** | **13.5** | **18.7** | **25.2** | **13.7** | **6.9** | **11.9** | **18.0** |
| | | | 304 | 113 | 10.4 | 18.1 | 27.2 | **17.7** | **26.9** | **34.1** | **41.1** | **45.1** | **18.3** | **26.7** | **33.5** | **42.0** |
| | | | **176** | **90** | **6.2** | **13.6** | **22.7** | **23.8** | **22.9** | **29.4** | **38.1** | **40.9** | **19.1** | **27.1** | **34.2** | **41.8** |
| 200<br>8″ | 60<br>45(快开)<br>(On-off) | MF5 D/R -3X<br>1800cm²(279in²) | 761 | 172 | 3.0 | 7.1 | 10.1 | **2.5** | **4.7** | **8.7** | **12.6** | **16.6** | **8.7** | **4.2** | **8.0** | **12.9** |
| | | | **445** | **143** | **3.5** | **9.6** | **15.6** | – | **7.8** | **13.5** | **18.7** | **25.2** | **13.7** | **6.9** | **11.9** | **18.0** |
| | | | 304 | 113 | 10.4 | 18.1 | 27.2 | **17.7** | **26.9** | **34.1** | **41.1** | **45.1** | **18.3** | **26.7** | **33.5** | **42.0** |
| **250**<br>**10″** | **100**<br>**75(快开)**<br>**(On-off)** | **MF5 D/R -5X**<br>**1800cm²(279in²)** | **1053** | **220** | – | **3.4** | **5.8** | – | **2.7** | **5.3** | **7.8** | **10.0** | – | **3.6** | **5.7** | **7.3** |
| | | | 761 | 172 | 3.0 | 7.1 | 10.1 | **2.5** | **4.7** | **8.7** | **12.6** | **16.6** | **8.7** | **4.2** | **8.0** | **12.9** |
| | | | **445** | **143** | **3.5** | **9.6** | **15.6** | – | **7.8** | **13.5** | **18.7** | **25.2** | **13.7** | **6.9** | **11.9** | **18.0** |
| 300<br>12″ | 100<br>75(快开)<br>(On-off) | MF5 D/R -5X<br>1800cm²(279in²) | 1521 | 282 | – | 0.9 | 2.3 | – | – | **2.0** | **3.3** | **4.6** | – | – | – | **2.6** |
| | | | **1053** | **220** | – | **3.4** | **5.8** | – | **2.7** | **5.3** | **7.8** | **10.0** | – | **3.6** | **5.7** | **7.3** |
| | | | 761 | 172 | 3.0 | 7.1 | 10.1 | **2.5** | **4.7** | **8.7** | **12.6** | **16.6** | **8.7** | **4.2** | **8.0** | **12.9** |

注:表中数值为最大允许关闭压差,当此数值大于 40 kgf/cm²(bar),选择时,全开阀前、后压差不能超过 40 kgf/cm²(bar);8 根弹簧只用在 MF5R 反作用执行机构中;执行机构型号中 "XX" 的代码详见执行机构样本。

Note: The number showed in above table is the max. of allowable pressure drops. When it is more than 40 kgf/cm² (bar),The pressure drops between upstream and downstream of the valve which is fully opened should be less than 40 kgf/cm² (bar); 8 springs is only used in the actuator of MF5R. The code "XX" of actuator type is detailed in the catalogue of actuator.

## MF5R 弹簧范围、供气 SPRING RANGE AND AIR SUPPLY FOR MF5R ACTUATOR

| 执行机构型号<br>Actuator type | 行程(mm)<br>Stroke | 弹簧个数<br>Spring number | 弹簧范围(MPa)<br>Spring range(MPa) | 供气压力(MPa)<br>Air supply(MPa) |
|---|---|---|---|---|
| **MF5R-34** | **60** | **4** | **0.096-0.171** | **0.30** |
| MF5R-36 | 60 | 6 | 0.145-0.256 | 0.35 |
| **MF5R-38** | **60** | **8** | **0.192-0.342** | **0.45** |
| MF5R-56 | 100 | 6 | 0.145-0.331 | 0.45 |
| **MF5R-58** | **100** | **8** | **0.194-0.442** | **0.55** |



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表 5.6:配 PEL 系列电动执行机构允许压差(泄漏等级Ⅳ 四氟填料):

Table 5.6 Allowable pressure drops with PEL electric motor ( Leakage class Ⅳ/ Packing: V–PTFE)

| 公称通径 mm Rated size | 行程 mm Stroke | Cv | 阀座直径 mm Seat size | 允许压差(bar) Allowable pressure drop (bar) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PEL202 | PEL204 | PEL206 | PEL208 | PEL210 | PEL312 | PEL316 | PEL320 |
| 15 1/2" | 16 10(快开) (On–off) | 4.7 | 15 | 38.5 | 50 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| | | 0.73 | 5 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 20 3/4" | 16 10(快开) (On–off) | 4.7 | 15 | 38.5 | 50 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| | | 0.73 | 5 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 25 1" | 16 10(快开) (On–off) | 11.5 | 25 | 16.6 | 42.7 | 50 | 50 | 50 | – | – | – |
| | | 4.7 | 15 | 38.5 | 50 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 32 1 1/4" | 16 10(快开) (On–off) | 11.5 | 25 | 16.6 | 42.7 | 50 | 50 | 50 | – | – | – |
| | | 4.7 | 15 | 38.5 | 50 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 40 1 1/2" | 16 10(快开) (On–off) | 29 | 36 | 7.9 | 21.0 | 30.6 | 42.8 | 50 | – | – | – |
| | | 19 | 30 | 9.7 | 22.8 | 32.4 | 44.6 | 50 | – | – | – |
| | | 11.5 | 25 | 16.6 | 42.7 | 50 | 50 | 50 | – | – | – |
| 50 2" | 16 10(快开) (On–off) | 46 | 46 | 4.9 | 12.9 | 20.9 | 29 | 35.8 | 43.8 | 50 | – |
| | | 29 | 36 | 7.9 | 21.0 | 30.6 | 42.8 | 50 | 50 | 50 | – |
| | | 19 | 30 | 9.7 | 22.8 | 32.4 | 44.6 | 50 | 50 | 50 | – |
| 65 2 1/2" | 16 10(快开) (On–off) | 73 | 50 | 4.2 | 11.0 | 17.8 | 24.6 | 30.3 | 37.2 | 48.2 | – |
| | | 46 | 46 | 4.9 | 12.9 | 20.9 | 29 | 35.8 | 43.8 | 50 | – |
| | | 29 | 36 | 7.9 | 21.0 | 30.6 | 42.8 | 50 | 50 | 50 | – |
| 80 3" | 30 20(快开) (On–off) | 116 | 80 | – | – | 6.0 | 8.7 | 11.0 | 13.6 | 18.9 | 24.2 |
| | | 73 | 50 | – | – | 17.8 | 24.6 | 30.3 | 37.2 | 48.2 | 50 |
| | | 46 | 46 | – | – | 21.9 | 29 | 35.8 | 43.8 | 49 | 50 |
| 100 4" | 30 20(快开) (On–off) | 186 | 100 | – | – | 3.9 | 5.6 | 7.0 | 8.7 | 12.1 | 15.5 |
| | | 116 | 80 | – | – | 6.0 | 8.7 | 11.0 | 13.6 | 18.9 | 24.2 |
| | | 73 | 50 | – | – | 17.8 | 24.6 | 30.3 | 37.2 | 48.2 | 50 |
| 150 6" | 60 45(快开) (On–off) | 445 | 143 | – | – | – | – | – | 4.1 | 5.8 | 7.5 |
| | | 304 | 113 | – | – | – | – | – | 6.7 | 9.4 | 12.0 |
| | | 176 | 90 | – | – | – | – | – | 10.6 | 14.8 | 19 |
| 200 8" " | 60 45(快开) (On–off) | 761 | 172 | – | – | – | – | – | 2.9 | 4.0 | 5.2 |
| | | 445 | 143 | – | – | – | – | – | 4.1 | 5.8 | 7.5 |
| | | 304 | 113 | – | – | – | – | – | 6.7 | 9.4 | 12.0 |

注:表中数值为最大允许关闭压差,当此数值大于 40 kgf/cm²(bar),选择时,全开阀前、后压差不能超过 40 kgf/cm²(bar)。

Note: The number showed in above table is the max. of allowable pressure drops. When it is more than 40 kgf/cm² (bar),The pressure drops between upstream and downstream of the valve which is fully opened should be less than 40 kgf/cm²(bar).



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**表 5.7:配 PEL 系列电动执行机构允许压差(泄漏等级Ⅳ 石墨填料):**

**Table 5.7 Allowable pressure drops with PEL electric motor ( Leakage class Ⅳ/ Packing: Graphite)**

| 公称通径 mm Rated size | 行程 mm stroke | Cv | 阀座直径 mm Seat size | 允许压差(bar) Allowable pressure drop (bar) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PEL202 | PEL204 | PEL206 | PEL208 | PEL210 | PEL312 | PEL316 | PEL320 |
| 15 1/2" | 16 10(快开) (On-off) | 4.7 | 15 | 36.5 | 50 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| | | 0.73 | 5 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 20 3/4" | 16 10(快开) (On-off) | 4.7 | 15 | 36.5 | 50 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| | | 0.73 | 5 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 25 1" | 16 10(快开) (On-off) | 11.5 | 25 | 14.6 | 42.7 | 50 | 50 | 50 | – | – | – |
| | | 4.7 | 15 | 36.5 | 50 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 32 1 1/4" | 16 10(快开) (On-off) | 11.5 | 25 | 14.6 | 42.7 | 50 | 50 | 50 | – | – | – |
| | | 4.7 | 15 | 36.5 | 50 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 40 1 1/2" | 16 10(快开) (On-off) | 29 | 36 | 2.0 | 15.1 | 28.1 | 40.5 | 43.1 | – | – | – |
| | | 19 | 30 | 3.8 | 16.9 | 29.9 | 42.3 | 50 | – | – | – |
| | | 11.5 | 25 | 4.3 | 30.4 | 35.0 | 37.7 | 50 | – | – | – |
| 50 2" | 16 10(快开) (On-off) | 46 | 46 | – | 9.3 | 17.3 | 25.3 | 32.2 | 40.2 | 44.2 | – |
| | | 29 | 36 | 2.0 | 15.1 | 28.1 | 40.5 | 43.1 | 48.2 | 50 | – |
| | | 19 | 30 | 3.8 | 16.9 | 29.9 | 42.3 | 50 | 50 | 50 | – |
| 65 2 1/2" | 16 10(快开) (On-off) | 73 | 50 | – | 7.9 | 14.7 | 21.5 | 27.2 | 34.2 | 45.1 | – |
| | | 46 | 46 | – | 9.3 | 17.3 | 25.3 | 32.2 | 40.2 | 44.2 | – |
| | | 29 | 36 | 2.0 | 15.1 | 28.1 | 40.5 | 43.1 | 42.4 | 46.4 | – |
| 80 3" | 30 20(快开) (On-off) | 116 | 80 | – | – | 4.0 | 6.6 | 9.0 | 11.6 | 16.9 | 22.2 |
| | | 73 | 50 | – | 7.9 | 14.7 | 21.5 | 27.2 | 34.2 | 45.1 | 46 |
| | | 46 | 46 | – | 9.3 | 17.3 | 25.3 | 32.2 | 40.2 | 44.2 | 46.1 |
| 100 4" | 30 20(快开) (On-off) | 186 | 100 | – | – | – | – | – | 1.6 | 5.0 | 8.4 |
| | | 116 | 80 | – | – | – | 4.6 | 7.2 | 9.6 | 12.2 | 22.2 |
| | | 73 | 50 | – | 7.9 | 14.7 | 21.5 | 27.2 | 34.2 | 45.1 | 46 |
| 150 6" | 60 45(快开) (On-off) | 445 | 143 | – | – | – | – | – | 3.6 | 5.3 | 7.0 |
| | | 304 | 113 | – | – | – | – | – | 6.0 | 8.7 | 11.3 |
| | | 176 | 90 | – | – | – | – | – | 9.5 | 13.7 | 17.9 |
| 200 8" " | 60 45(快开) (On-off) | 761 | 172 | – | – | – | – | – | 2.6 | 3.7 | 5.9 |
| | | 445 | 143 | – | – | – | – | – | 3.6 | 5.3 | 7.0 |
| | | 304 | 113 | – | – | – | – | – | 6.0 | 8.7 | 11.3 |

注:表中数值为最大允许关闭压差,当此数值大于 40 kgf/cm²(bar),选择时,全开阀前、后压差不能超过 40 kgf/cm²(bar)。

Note: The number showed in above table is the max. of allowable pressure drops. When it is more than 40 kgf/cm² (bar),The pressure drops between upstream and downstream of the valve which is fully opened should be less than 40 kgf/cm²(bar)



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**表 5.8:配 PEL 系列电动执行机构允许压差(泄漏等级 V 四氟填料):**

**Table 5.8 Allowable pressure drops with PEL electric motor ( Leakage class V / Packing: V–PTFE)**

| 公称通径 mm Rated size | 行程 mm stroke | Cv | 阀座直径 mm Seat size | 允许压差(bar) Allowable pressure drop (bar) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PEL202 | PEL204 | PEL206 | PEL208 | PEL210 | PEL312 | PEL316 | PEL320 |
| 15 1/2" | 16 10(快开) (On–off) | 4.7 | 15 | 33.5 | 37.5 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| | | 0.73 | 5 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 20 3/4" | 16 10(快开) (On–off) | 4.7 | 15 | 33.5 | 37.5 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| | | 0.73 | 5 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 25 1" | 16 10(快开) (On–off) | 11.5 | 25 | 8.5 | 35.5 | 42.5 | 50 | 50 | – | – | – |
| | | 4.7 | 15 | 33.5 | 37.5 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 32 1 1/4" | 16 10(快开) (On–off) | 11.5 | 25 | 8.5 | 35.5 | 42.7 | 50 | 50 | – | – | – |
| | | 4.7 | 15 | 33.5 | 37.5 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 40 1 1/2" | 16 10(快开) (On–off) | 29 | 36 | – | 10.3 | 22.4 | 33.7 | 43.5 | – | – | – |
| | | 19 | 30 | – | 12.5 | 30.5 | 35.6 | 45.5 | – | – | – |
| | | 11.5 | 25 | 13.9 | 38.5 | 40.2 | 42.2 | 50 | – | – | – |
| 50 2" | 16 10(快开) (On–off) | 46 | 46 | – | – | 5.3 | 13.3 | 20.3 | 29 | 32.2 | – |
| | | 29 | 36 | – | 10.3 | 23 | 35.2 | 44 | 50 | 50 | – |
| | | 19 | 30 | – | 12 | 28 | 33 | 45.6 | 50 | 50 | – |
| 65 2 1/2" | 16 10(快开) (On–off) | 73 | 50 | – | – | 3.2 | 9.5 | 15.3 | 22.4 | 28 | – |
| | | 46 | 46 | – | – | 5.6 | 13.4 | 20.3 | 29.3 | 32.4 | – |
| | | 29 | 36 | – | 11.3 | 23.3 | 35.5 | 43.5 | 50 | 50 | – |
| 80 3" | 30 20(快开) (On–off) | 116 | 80 | – | – | – | – | – | – | 8.2 | 13.2 |
| | | 73 | 50 | – | – | 3.5 | 9.6 | 15.0 | 22.3 | 28.5 | 47.5 |
| | | 46 | 46 | – | – | 5.3 | 13.5 | 20.1 | 29.1 | 32.2 | 49 |
| 100 4" | 30 20(快开) (On–off) | 186 | 100 | – | – | – | – | – | – | 3.1 | 6.9 |
| | | 116 | 80 | – | – | – | – | – | 3.8 | 8.6 | 14.5 |
| | | 73 | 50 | – | – | 2.8 | 10.2 | 15.4 | 22.4 | 28.3 | 49 |
| 150 6" | 60 45(快开) (On–off) | 445 | 143 | – | – | – | – | – | – | – | 1.8 |
| | | 304 | 113 | – | – | – | – | – | – | 3.0 | 6.4 |
| | | 176 | 90 | – | – | – | – | – | 5.5 | 9.7 | 18.6 |
| 200 8" " | 60 45(快开) (On–off) | 761 | 172 | – | – | – | – | – | – | – | – |
| | | 445 | 143 | – | – | – | – | – | – | – | 1.5 |
| | | 304 | 113 | – | – | – | – | – | – | 3.0 | 6.4 |

注:表中数值为最大允许关闭压差,当此数值大于 40 kgf/cm²(bar),选择时,全开阀前、后压差不能超过 40 kgf/cm²(bar)。

Note: The number showed in above table is the max. of allowable pressure drops. When it is more than 40 kgf/cm² (bar),The pressure drops between upstream and downstream of the valve which is fully opened should be less than 40 kgf/cm²(bar)



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**表 5.9:配 PEL 系列电动执行机构允许压差(泄漏等级 V 石墨填料):**

**Table 5.9 Allowable pressure drops with PEL electric motor ( Leakage class V / Packing: Graphite)**

| 公称通径 mm Rated size | 行程 mm stroke | Cv | 阀座直径 mm Seat size | 允许压差(bar) Allowable pressure drop (bar) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PEL202 | PEL204 | PEL206 | PEL208 | PEL210 | PEL312 | PEL316 | PEL320 |
| 15 1/2" | 16 10(快开) (On-off) | 4.7 | 15 | – | 32.8 | 38.5 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| | | 0.73 | 5 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 20 3/4" | 16 10(快开) (On-off) | 4.7 | 15 | – | 32.8 | 38.5 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| | | 0.73 | 5 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 25 1" | 16 10(快开) (On-off) | 11.5 | 25 | – | 28.2 | 42.7 | 50 | 50 | – | – | – |
| | | 4.7 | 15 | – | 32.8 | 38.5 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 32 1 1/4" | 16 10(快开) (On-off) | 11.5 | 25 | – | 28.2 | 42.7 | 50 | 50 | – | – | – |
| | | 4.7 | 15 | – | 32.8 | 38.5 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 40 1 1/2" | 16 10(快开) (On-off) | 29 | 36 | – | – | 13.8 | 26 | 30.1 | 48 | 50 | – |
| | | 19 | 30 | – | 12.5 | 14.3 | 28.2 | 32.5 | 49 | 50 | – |
| | | 11.5 | 25 | – | 32.4 | 48 | 50 | 50 | 50 | 50 | – |
| 50 2" | 16 10(快开) (On-off) | 46 | 46 | – | – | – | 10.7 | 16.3 | 24.2 | 37.5 | – |
| | | 29 | 36 | – | – | 13.8 | 26 | 30.1 | 48 | 50 | – |
| | | 19 | 30 | – | 12.5 | 14.3 | 28.2 | 32.5 | 49 | 50 | – |
| 65 2 1/2" | 16 10(快开) (On-off) | 73 | 50 | – | – | – | 6.7 | 11.8 | 18.7 | 29.8 | 48 |
| | | 46 | 46 | – | – | – | 10.7 | 16.3 | 24.2 | 37.5 | 50 |
| | | 29 | 36 | – | – | 13.8 | 26 | 30.1 | 48 | 50 | 50 |
| 80 3" | 30 20(快开) (On-off) | 116 | 80 | – | – | – | – | – | 2.5 | 7.5 | 13.3 |
| | | 73 | 50 | – | – | – | 6.7 | 11.8 | 18.7 | 29.8 | 48 |
| | | 46 | 46 | – | – | – | 10.7 | 16.3 | 24.2 | 37.5 | 50 |
| 100 4" | 30 20(快开) (On-off) | 186 | 100 | – | – | – | – | – | 5.4 | 7.6 | 11.5 |
| | | 116 | 80 | – | – | – | – | – | 2.5 | 7.5 | 13.3 |
| | | 73 | 50 | – | – | – | 6.7 | 11.8 | 18.7 | 29.8 | 48 |
| 150 6" | 60 45(快开) (On-off) | 445 | 143 | – | – | – | – | – | – | – | 1.7 |
| | | 304 | 113 | – | – | – | – | – | – | 2.1 | 4.7 |
| | | 176 | 90 | – | – | – | – | – | – | 4.7 | 10.7 |
| 200 8" " | 60 45(快开) (On-off) | 761 | 172 | – | – | – | – | – | – | – | – |
| | | 445 | 143 | – | – | – | – | – | – | – | 1.7 |
| | | 304 | 113 | – | – | – | – | – | – | 2.1 | 4.7 |

注:表中数值为最大允许关闭压差,当此数值大于 40 kg/cm2(bar),选择时,全开阀前、后压差不能超过 40 kgf/cm²(bar)。

Note: The number showed in above table is the max. of allowable pressure drops. When it is more than 40 kgf/cm² (bar),The pressure drops between upstream and downstream of the valve which is fully opened should be less than 40 kgf/cm²(bar)



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表 5.10:配 PEL 系列电动执行机构允许压差(泄漏等级 VI):

Table 5.10 Allowable pressure drops with PEL electric motor ( Leakage class VI)

| 公称通径 mm Rated size | 行程 mm stroke | Cv | 阀座直径 mm Seat size | 允许压差(bar) Allowable pressure drop (bar) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PEL202 | PEL204 | PEL206 | PEL208 | PEL210 | PEL312 | PEL316 | PEL320 |
| 15<br>1/2" | 16<br>10(快开)<br>(On-off) | 4.7 | 15 | 23 | 37.0 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| | | 0.73 | 5 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 20<br>3/4" | 16<br>10(快开)<br>(On-off) | 4.7 | 15 | 15.5 | 37.0 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| | | 0.73 | 5 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 25<br>1" | 16<br>10(快开)<br>(On-off) | 11.5 | 25 | – | 27.0 | 38.5 | 50 | 50 | – | – | – |
| | | 4.7 | 15 | 23 | 37.0 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 32<br>1 1/4" | 16<br>10(快开)<br>(On-off) | 11.5 | 25 | – | 27.0 | 38.5 | 50 | 50 | – | – | – |
| | | 4.7 | 15 | 23 | 37.0 | 50 | 50 | 50 | – | – | – |
| | | 1.9 | 10 | 50 | 50 | 50 | 50 | 50 | – | – | – |
| 40<br>1 1/2" | 16<br>10(快开)<br>(On-off) | 29 | 36 | – | 3 | 24.6 | 26.7 | 46.4 | – | – | – |
| | | 19 | 30 | – | 10.6 | 29.4 | 45.6 | 50 | – | – | – |
| | | 11.5 | 25 | – | 20 | 35.5 | 50 | 50 | – | – | – |
| 50<br>2" | 16<br>10(快开)<br>(On-off) | 46 | 46 | – | 2.6 | 11.8 | 20.0 | 27.0 | 36.8 | 47.8 | – |
| | | 29 | 36 | – | 3 | 24.6 | 26.7 | 28.6 | 50 | 50 | – |
| | | 19 | 30 | – | 10.6 | 29.4 | 45.6 | 50 | 50 | 50 | – |
| 65<br>2 1/2" | 16<br>10(快开)<br>(On-off) | 73 | 50 | – | 3.6 | 12.2 | 20.4 | 27.4 | 37.2 | 48.2 | – |
| | | 46 | 46 | – | 2.6 | 11.8 | 20.0 | 27.0 | 36.8 | 50 | – |
| | | 29 | 36 | – | 3 | 24.6 | 26.7 | 28.6 | 50 | 50 | – |
| 80<br>3" | 30<br>20(快开)<br>(On-off) | 116 | 80 | – | – | 2.1 | 4.8 | 7.1 | 9.9 | 15.0 | 20.4 |
| | | 73 | 50 | – | 3.6 | 12.2 | 20.4 | 27.4 | 37.2 | 48.2 | 50 |
| | | 46 | 46 | – | 2.6 | 11.8 | 20.0 | 27.0 | 36.8 | 50 | 50 |
| 100<br>4" | 30<br>20(快开)<br>(On-off) | 186 | 100 | – | – | – | 1.9 | 3.3 | 4.4 | 8.4 | 11.8 |
| | | 116 | 80 | – | – | 2.1 | 4.8 | 7.1 | 9.9 | 15.0 | 20.4 |
| | | 73 | 50 | – | 3.6 | 12.2 | 20.4 | 27.4 | 37.2 | 48.2 | 50 |
| 150<br>6" | 60<br>45(快开)<br>(On-off) | 445 | 143 | – | – | – | – | – | 1.5 | 2.8 | 4.4 |
| | | 304 | 113 | – | – | – | – | – | 3.7 | 6.4 | 9.0 |
| | | 176 | 90 | – | – | – | – | – | 5.3 | 9.5 | 13.7 |
| 200<br>8"<br>" | 60<br>45(快开)<br>(On-off) | 761 | 172 | – | – | – | – | – | 1.2 | 2.6 | 3.6 |
| | | 445 | 143 | – | – | – | – | – | 1.5 | 2.8 | 4.4 |
| | | 304 | 113 | – | – | – | – | – | 3.7 | 6.4 | 9.0 |

注:表中数值为最大允许关闭压差,当此数值大于 40 kgf/cm²(bar),选择时,全开阀前、后压差不能超过 40 kgf/cm²(bar)。

Note: The number showed in above table is the max. of allowable pressure drops. When it is more than 40 kgf/cm² (bar),The pressure drops between upstream and downstream of the valve which is fully opened should be less than 40 kgf/cm²(bar)



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图 5.调节阀安装位置

Fig. 5. MOUNTING FORMS FOR THE CONTRL VALVE

图 5–1 .配 MF2,3 执行机构的安装位置 Fig.5–1. Mounting forms with MF2, 3 actuator

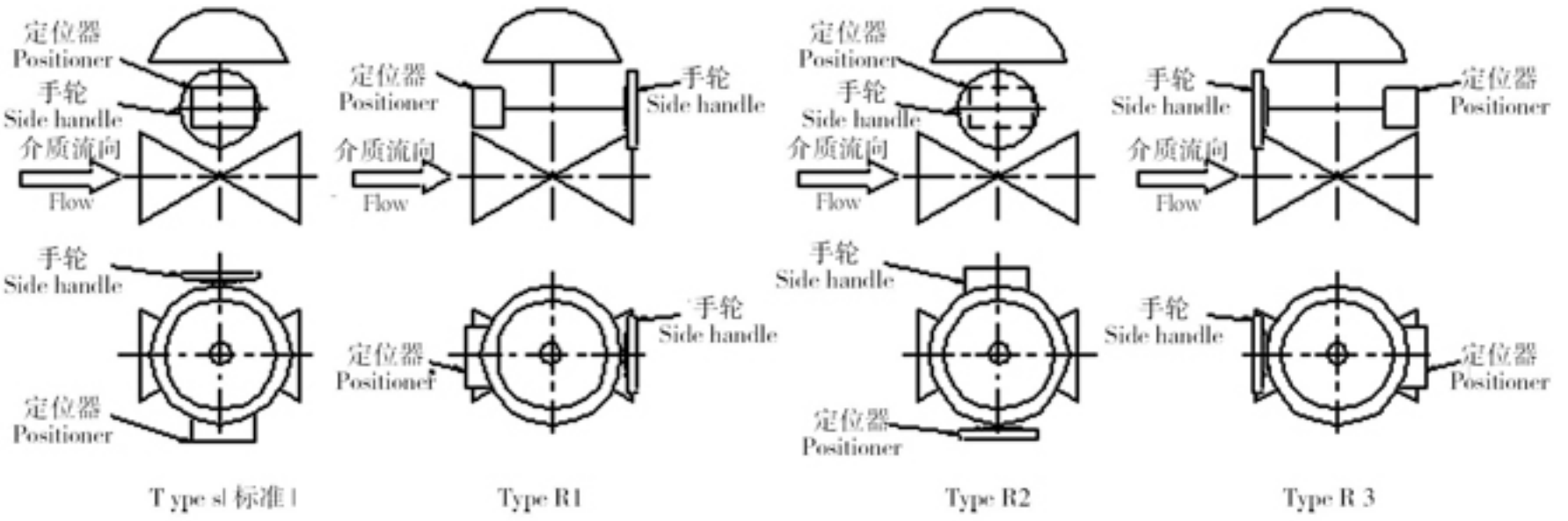


图 5–2 配 MF5 执行机构的安装位置 Fig.5–2. Mounting forms with MF5 actuator

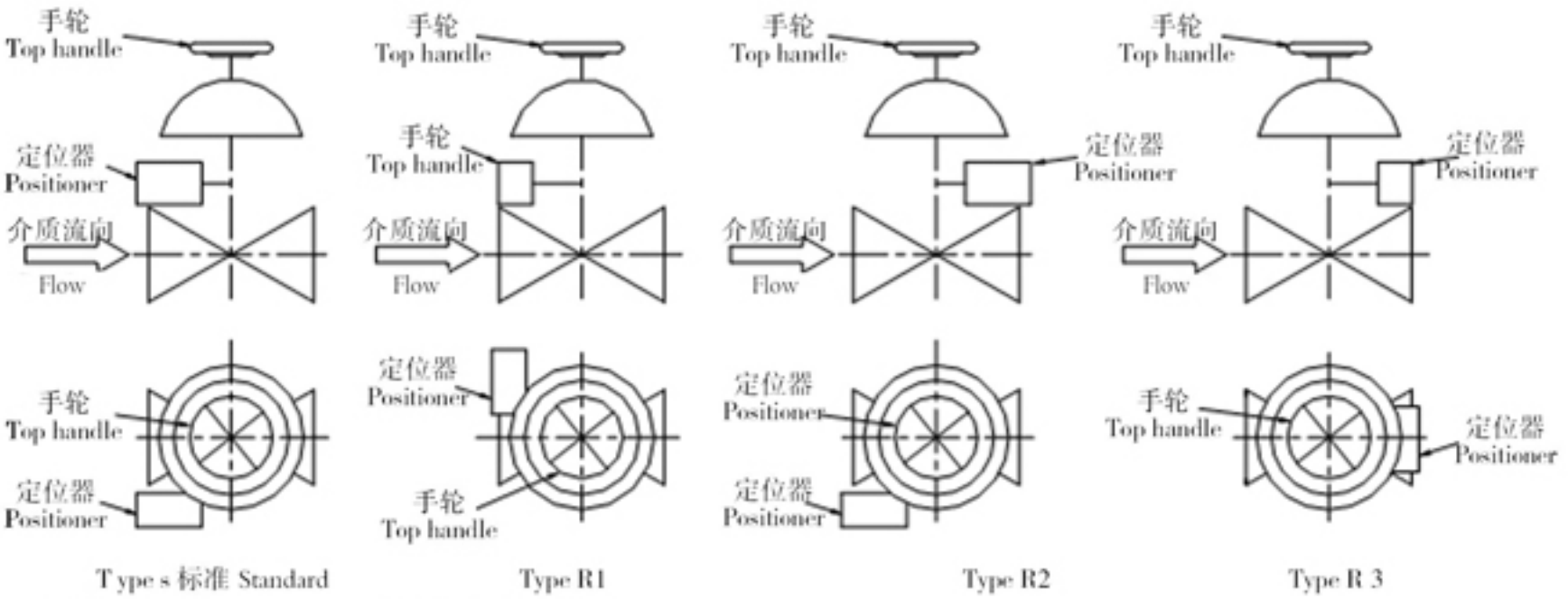


图 6.外形图. Outline (带气动执行机构 With pneumatic actuator)

图 6–1 DN15 ~ DN100(1/2″ ~ 4″ )带顶装手轮机构外形图

Figure 6–1 Outline with top handwheel for DN15 DN15 ~ DN100(1/2″ ~ 4″ )

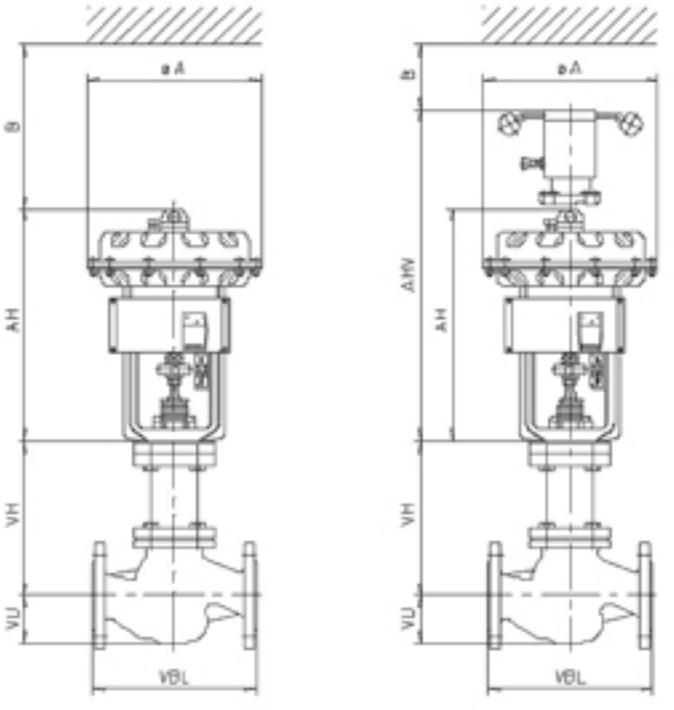




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图 6-2 DN15 ~ DN200(1/2″ ~ 8″ )带侧装手轮机构外形图

Figure 6-2 Outline with side handwheel from DN15 to DN100(1/2″ ~ 8″ )

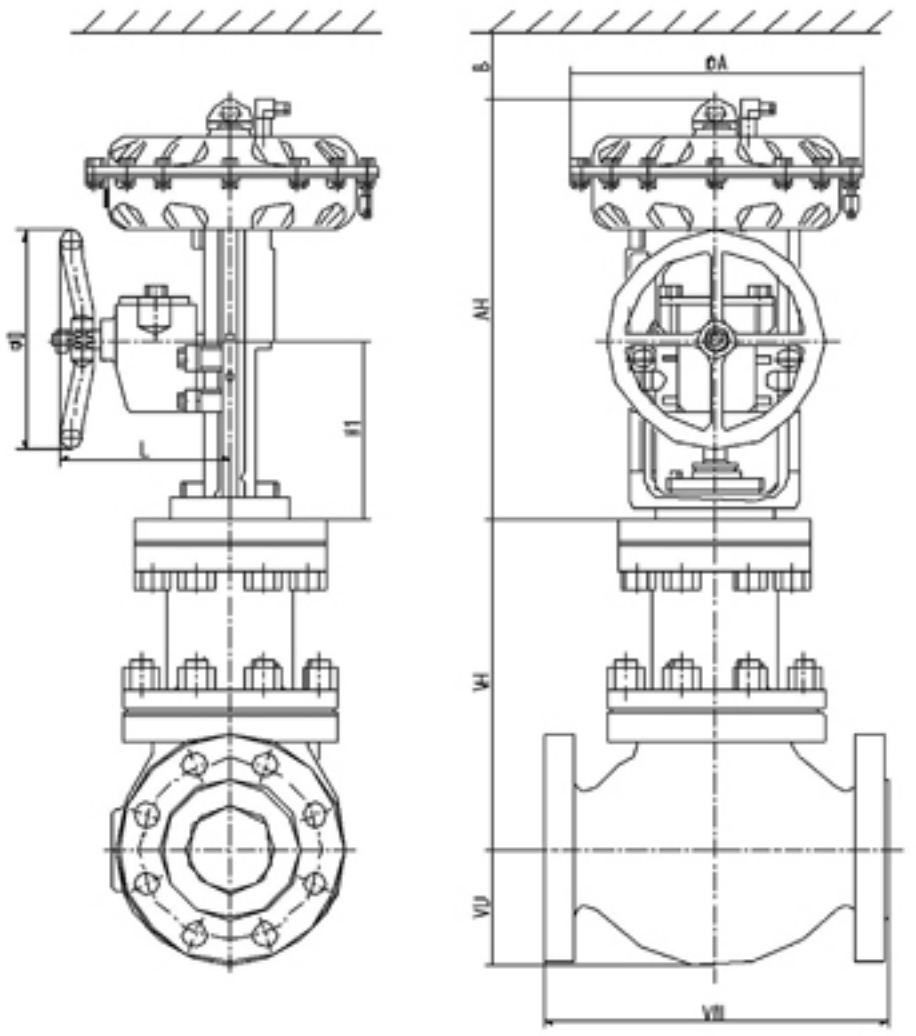


图 6-3 DN150 ~ DN400(6″ ~ 16″ )带顶装手轮机构外形图

Figure6-3 Outline with top handwheel from DN150 to DN400(6″ ~ 16″ )

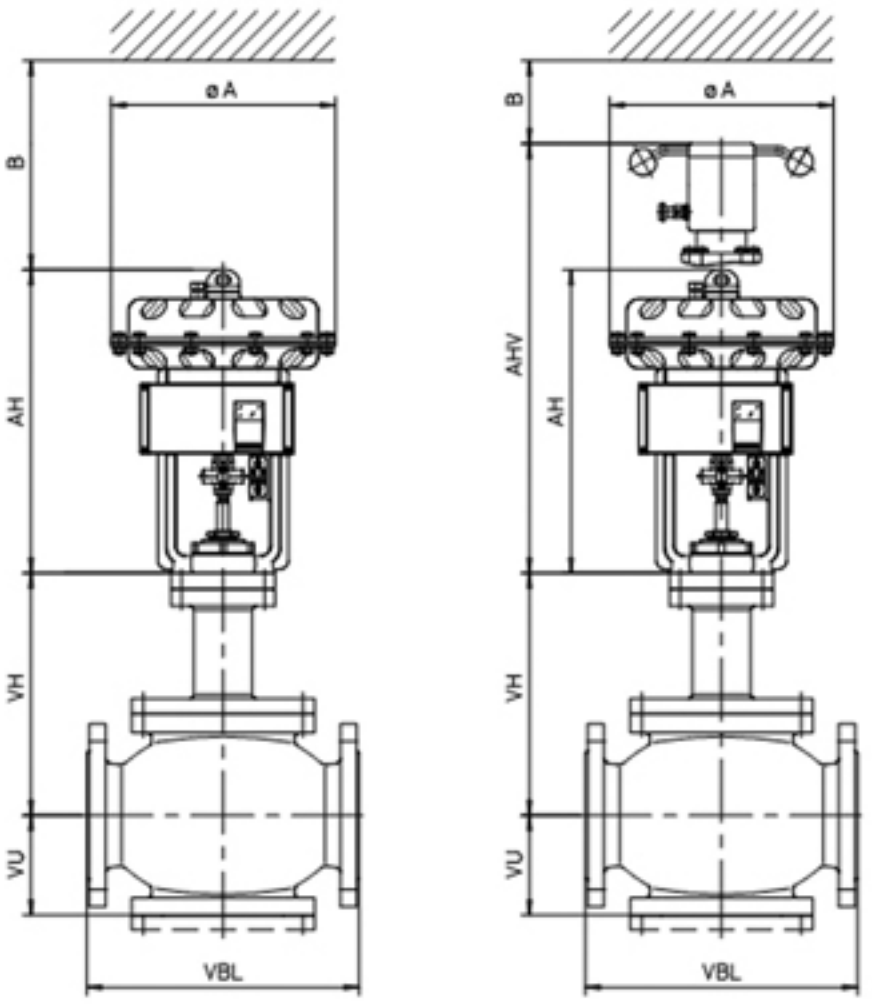




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表 6.1:外形尺寸及重量(配气动执行机构 DN15 ~ DN100,PN16/25/40)外形见图 6-1、6-2

Table6.1: Outline size and weight (with pneumatic actuator DN15 ~ DN100,PN16/25/40), see Figure 6-1、6-2 for outline

阀体主要外形尺寸 ( mm), 阀体法兰尺寸符合 DIN 2543/2544/2545 、JB/T79.1 、JB/T79.2 、HG20592-97
法兰距符合 DIN 3202-F1
Main outline sizes (mm), connection sizes of flange comply with DIN 2543/2544/2545 、JB/T79.1 、JB/T79.2 、HG20592-97 , face-to face dimensions comply with DIN 3202-F1.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 阀 Valve | **DN** | | **15** | **20** | **25** | **32** | **40** | **50** | **65** | **80** | **100** |
| | VBL | | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 |
| | **VH** | | **228** | | | | **233** | | | **365** | **389** |
| | VU | | 48 | 59 | 62 | 70 | 78 | 83 | 93 | 106 | 136 |
| 执行机构 Actuator | **ϕ A** | **MF2** | **270** | | | | | | | | |
| | | MF3 | 400 | | | | | | | | |
| | AH | **MF2** | **346** | | | | | | | **404** | |
| | | MF3 | 489 | | | | | | | | |
| | **AHV** | **MF2** | **493** | | | | | | | **551** | |
| | | MF3 | 651 | | | | | | | | |
| | **B** | | **130** | | | | | | | **150** | |
| | ϕ D | MF2 | 200 | | | | | | | | |
| | | **MF3** | **355** | | | | | | | | |
| | **L** | MF2 | 147.5 | | | | | | | | |
| | | **MF3** | **240** | | | | | | | | |
| | H1 | MF2 | 165( MF2R )或(or)108( MF2D ) | | | | | | | | |
| | | **MF3** | **226( MF3R )或(or)125( MF3D )** | | | | | | | | |
| | Weight (kg) approxi-mately | MF2 | 22.5 | 24.5 | 25 | 26 | 35 | 37 | 45.5 | 75 | 98 |
| | | **MF3** | **101** | **124** | | | | | | | |

重量: 阀 + 不带手轮的执行机构 Weight: valve +actuator without handwheel



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表 6.2:外形尺寸及重量(DN1/2" ~ 4",ANSI150/300)外形见图 6-1、6-2

Table 6.2: Outline size and weight (DN1/2" ~ 4",ANSI150/300), see Figure 6-1、6-2 for outline

阀体主要外形尺寸 (mm),阀体法兰尺寸符合 ANSI class 150/300,HG20615-97 PN2.0/5.0 RF/RTJ/SW/BW
Main outline sizes(mm), connection sizes of flange comply with ANSI class 150/300,HG20615-97 PN2.0/5.0 RF/RTJ/SW/BW

| | DN | | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 21/2" | 3" | 4" |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 阀 Valve | VBL Class 150 | RF | 178 | 181 | 184 | 200 | 222 | 254 | 276 | 298 | 352 |
| | | **RTJ** | — | — | **197** | **213** | **235** | **267** | **289** | **311** | **365** |
| | | SW/BW | 187 | 206 | 210 | 245 | 251 | 286 | 311 | 337 | 394 |
| | VBL Class 300 | **RF** | **190** | **194** | **197** | **213** | **235** | **267** | **292** | **317** | **368** |
| | | RTJ | 202 | 206 | 210 | 225 | 248 | 282 | 308 | 333 | 384 |
| | | **SW/BW** | **187** | **206** | **210** | **245** | **251** | **286** | **311** | **337** | **394** |
| | VH | | 228 | | | | 233 | | | 365 | 389 |
| | **VU** | | **48** | **59** | **62** | **70** | **78** | **83** | **93** | **106** | **136** |
| 执行机构 Actuator | ϕA | MF2 | 270 | | | | | | | | |
| | | **MF3** | | | | | | | | **400** | |
| | **AH** | MF2 | 346 | | | | | | | 404 | |
| | | **MF3** | | | | | | | | **489** | |
| | AHV | MF2 | 493 | | | | | | | 551 | |
| | | **MF3** | | | | | | | | **651** | |
| | **B** | MF2 | 130 | | | | | | | | |
| | | **MF3** | | | | | | | | **150** | |
| | ϕD | MF2 | 200 | | | | | | | | |
| | | **MF3** | | | | | | | | **355** | |
| | **L** | MF2 | 147.5 | | | | | | | | |
| | | **MF3** | | | | | | | | **240** | |
| | Weight (kg) Approxi-mately | MF2 | 22.5 | 24.5 | 25 | 26 | 35 | 38 | 45.5 | 75 | 98 |
| | | **MF3** | **96** | | | | | | | **101** | **124** |

重量: 阀 + 不带手轮的执行机构,公称通径小于等于 2" 以下的焊接式阀体法兰形式为 SW,其余为 BW;

Weight: valve+actutor without handwheel. SW is applicable to the valves up to DN 50(2"), BW is to others.



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表 6.3 外形尺寸及重量(配气动执行机构 DN150–DN400, PN16/25/40) 外形尺寸见图 6–3

Table 6.3: Outline size and weight （With pneumatic actuator DN150 ~ DN400, PN16/25/40), see Figure 6–3 for outline

| 阀体主要外形尺寸 ( mm) 阀体法兰尺寸符合 DIN 2543/2544/2545 ,JB/T79.1,JB/T79.2,HG20592 PN16/25/40 法兰距符合 DIN 3202–F1<br>Main outline sizes (mm), connection sizes of flange comply with DIN 2543/2544/2545 ,JB/T79.1,JB/T79.2,HG20592 PN16/25/40, face–to face dimensions comply with DIN 3202–F1. | | | | | | |
|---|---|---|---|---|---|---|
| 阀 Valve | DN | | 150 | 200 | 250 | 300 |
| | VBL | | 480 | 600 | 730 | 850 |
| | VH | 根据用户要求 according to the requirements of customer | | | | |
| | VU | 3 法兰 3Flanges | 189 | 239 | 305 | 335 |
| 执行机构 Actuator | φA | MF3 | 400 | | | |
| | | MF5 | 596 | | | |
| | AH | MF3 | 625 | | | |
| | | MF5 | 840 | | 1010 | |
| | AHV | MF3 | 888 | | | |
| | | MF5 | 1250 | | 1310 | |
| | B | | 200 | | 450 | |
| | φD | MF3 | 355 | | | |
| | | MF5 | 570 | | | |
| | L | MF3 | 240 | | | |
| | | MF5 | 370 | | | |
| | 重量约为 (kg) Weight approximately | MF3 | 190 | 250 | | |
| | | MF5 | 330 | 390 | 450 | 750 |

表 6.4:外形尺寸及重量(配气动执行机构 DN6" ~ 12",ANSI150/300,HG20615 PN2.0/5.0)外形尺寸见图 6–3

Table 6.4: Outline size and weight （With pneumatic actuator DN6" ~ 12",ANSI150/300,HG20615 PN2.0/5.0), see Figure 6–3 for outline

| 阀体主要外形尺寸 (mm) 阀体法兰尺寸符合 ANSI class 150/300 ,HG20615 RF/RTJ/BW<br>Main outline sizes (mm), connection sizes of flange xomply wirh ANSI class 150/300 ,HG20615 RF/RTJ/BW | | | | | | |
|---|---|---|---|---|---|---|
| 阀 Valve | DN | | 6" | 8" | 10" | 12" |
| | VBL Cl. 150 | RF | 451 | 543 | 730 | 850 |
| | | RTJ | 464 | 556 | 742 | 862 |
| | | BW | 473 | 568 | – | – |
| | VBL Cl. 300 | RF | 473 | 568 | 730 | 850 |
| | | RTJ | 488 | 585 | 742 | 862 |
| | | BW | 508 | 610 | – | – |
| | VH | | 根据用户要求 According to the requirements of customer | | | |
| | VU | 3 法兰 3Flanges | 189 | 239 | 305 | 335 |



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| | | | | | | |
|---|---|---|---|---|---|---|
| 执行机构 Actuator | ϕA | MF3 | 400 | | | |
| | | MF5 | 596 | | | |
| | AH | MF3 | 625 | | | |
| | | MF5 | 840 | | 1010 | |
| | AHV | MF3 | 888 | | | |
| | B | | 200 | | 340 | |
| | ϕD | MF3 | 355 | | | |
| | | MF5 | 570 | | | |
| | L | MF3 | 240 | | | |
| | | MF5 | 370 | | | |
| | 重量约为(kg) Weight Approximately | MF3 | 190 | 250 | | |
| | | MF5 | 330 | 390 | 450 | 750 |

图 7 DN15 ~ DN200(1/2″ ~ 8″ )带 PEL 电动执行机构外形图

Figure 7 Outline with PEL electric motor for DN15 ~ DN200(1/2″ ~ 8″ )

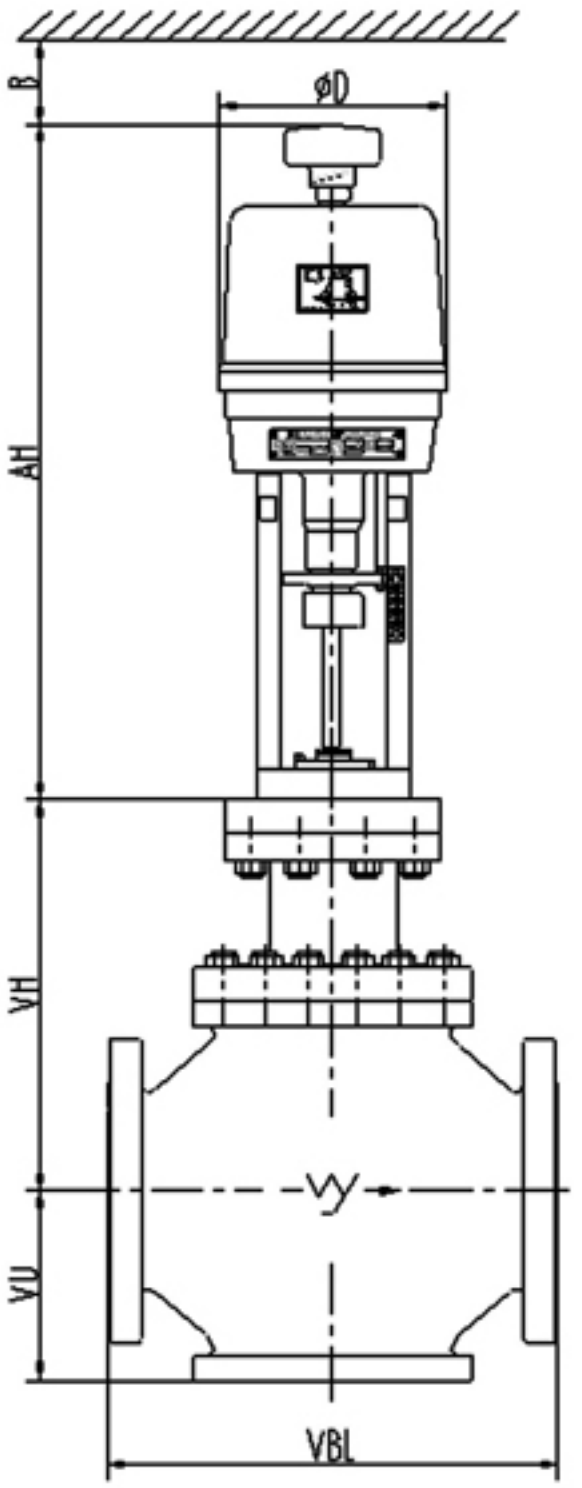




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表 7.1: 外形尺寸及重量(配 PEL 电动执行机构 DN15 ~ DN200,PN16/25/40 )外形见图 7

Table7.1: Outline size and weight (With PEL Electric Motor DN15 ~ DN200,PN16/25/40), see Figure 7 for outline

阀体主要外形尺寸 ( mm), 阀体法兰尺寸符合 DIN 2543/2544/2545 、JB/T79.1 、JB/T79.2 、HG20592-97
法兰距符合 DIN 3202-F1
Main outline sizes (mm), connection sizes of flange comply with DIN 2543/2544/2545 、JB/T79.1 、JB/T79.2 、HG20592-97, face-to face dimensions comply with DIN 3202-F1

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 阀 Valve | DN | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 150 | 200 |
| | VBL | | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 480 | 600 |
| | VH | | 228 | | | | 233 | | | 365 | 389 | 根据用户要求 According to customer's requirements | |
| | VU | | 48 | 59 | 62 | 70 | 78 | 83 | 93 | 106 | 136 | 189 | 239 |
| 执行机构 Electric Motor | φD | PEL2XX 系列 | φ195 | | | | | | | | | — | |
| | | PEL3XX 系列 | — | | | | | φ280 | | | | | |
| | AH | PEL2XX 系列 | 580 | | | | | | | | | — | |
| | | PEL3XX 系列 | — | | | | | 745 | | | | 785 | |
| | B | PEL2XX 系列 | 140 | | | | | | | | | — | |
| | Weight (kg) approxi-mately | PEL3XX 系列 | — | | | | | | | 240 | | | |
| | | PEL202 | 22.5 | 24.5 | 25 | 26 | 35 | 36 | 44.5 | | | | |
| | | PEL204 | 24.5 | 26.5 | 27 | 28 | 37 | 38 | 46.5 | | | | |
| | | PEL206 | 26.5 | 28.5 | 29 | 30 | 39 | 40 | 48.5 | 78 | 101 | | |
| | | PEL208 | 30.5 | 32.5 | 33 | 34 | 43 | 44 | 52.5 | 80 | 103 | | |
| | | PEL210 | 34.5 | 36.5 | 37 | 38 | 47 | 48 | 56.5 | 84 | 107 | | |
| | | PEL312 | | | | | | | | 86 | 109 | 169 | 229 |
| | | PEL316 | | | | | | | | 89 | 112 | 172 | 232 |
| | | PEL320 | | | | | | | | 94 | 118 | 177 | 237 |

重量: 阀 + 执行机构 Weight: valve +actuator

PEL2XX 系列: PEL202、PEL204、PEL206、PEL208、PEL210

PEL3XX 系列: PEL312、PEL316、PEL320



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表 7.2: 外形尺寸及重量（配 PEL 电动执行机构 DN1/2"~8",ANSI150/300,HG20615 PN2.0/5.0 ）外形见图 7

Table7.2: Outline size and weight (With PEL Electric Motor DN1/2"~8",ANSI150/300,HG20615 PN2.0/5.0), see Figure7 for outline

阀体主要外形尺寸 ( mm), 阀体法兰尺寸符合 ANSI class 150/300 ,HG20615-97 PN2.0/5.0 RF/RTJ/SW/BW
Main outline sizes (mm), connection sizes of flange comply with ANSI class 150/300 ,HG20615-97 PN2.0/5.0 RF/RTJ/SW/BW

| DN | | | 1/2" | 3/4" | 1" | 11/4" | 11/2" | 2" | 21/2" | 3" | 4" | 6" | 8" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 阀 Valve | VBL Class150 | RF | 178 | 181 | 184 | 200 | 222 | 254 | 276 | 298 | 352 | 451 | 543 |
| | | RTJ | — | — | 197 | 213 | 235 | 267 | 289 | 311 | 365 | 464 | 556 |
| | | SW/BW | 187 | 206 | 210 | 245 | 251 | 286 | 311 | 337 | 394 | 473 | 568 |
| | VBL Class300 | RF | 190 | 194 | 197 | 213 | 235 | 267 | 292 | 317 | 368 | 473 | 568 |
| | | RTJ | 202 | 206 | 210 | 225 | 248 | 282 | 308 | 333 | 384 | 488 | 585 |
| | | SW/BW | 187 | 206 | 210 | 245 | 251 | 286 | 311 | 337 | 394 | 508 | 610 |
| | VH | | 228 | | | | 233 | | | 365 | 389 | 根据用户要求 Acording to customer's requirements | |
| | VU | | 48 | 59 | 62 | 70 | 78 | 83 | 93 | 106 | 136 | 189 | 239 |
| 执行机构 Electric Motor | ϕD | PEL2XX 系列 | ϕ195 | | | | | | | | | — | |
| | | PEL3XX 系列 | — | | | | | ϕ280 | | | | | |
| | AH | PEL2XX 系列 | 580 | | | | | | | | | — | |
| | | PEL3XX 系列 | — | | | | | 745 | | | | 785 | |
| | B | PEL2XX 系列 | 140 | | | | | | | | | — | |
| | | PEL3XX 系列 | — | | | | | | | 240 | | | |
| | Weight (kg) Approxi-mately | PEL202 | 21.5 | 23.5 | 24 | 25 | 34 | 35 | 43.5 | | | | |
| | | PEL204 | 23.5 | 25.5 | 26 | 27 | 36 | 37 | 45.5 | | | | |
| | | PEL206 | 25.5 | 27.5 | 28 | 29 | 38 | 39 | 47.5 | 76 | 100 | | |
| | | PEL208 | 29.5 | 31.5 | 32 | 33 | 42 | 43 | 51.5 | 80 | 102 | | |
| | | PEL210 | 33.5 | 35.5 | 36 | 37 | 41 | 43 | 55.5 | 85 | 107 | | |
| | | PEL312 | | | | | | | | 86 | 109 | 169 | 229 |
| | | PEL316 | | | | | | | | 89 | 112 | 172 | 232 |
| | | PEL320 | | | | | | | | 94 | 118 | 177 | 237 |

重量: 阀 + PEL 执行机构,公称通径小于等于 2" 以下的焊接式阀体法兰形式为 SW,其余为 BW.

Weight: valve+PEL elecltric motor. SW is applicable to the valves up to DN 50(2"), BW is to others.

PEL2XX 系列: PEL202、PEL204、PEL206、PEL208、PEL210　　PEL3XX 系列: PEL312、PEL316、PEL320



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## 附表一 ATSW 单座调节阀型号编制说明

APS —— | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | — | 14 |

阀体组件　　执行机构

### 一、阀体组件

| 1 编码 | 公称通径 INCH | mm |
|---|---|---|
| 07 | 1/2 | 15 |
| 08 | 3/4 | 20 |
| 21 | 1 | 25 |
| 22 | 1 1/4 | 32 |
| 23 | 1 1/2 | 40 |
| 24 | 2 | 50 |
| 25 | 2 1/2 | 65 |
| 26 | 3 | 80 |
| 27 | 4 | 100 |
| 29 | 6 | 150 |
| 30 | 8 | 200 |
| 31 | 10 | 250 |
| 32 | 12 | 300 |

| 2 编码 | 公称压力 |
|---|---|
| 04 | JB/79.1-94 PN1.6 |
| 05 | JB/79.1-94 PN2.5 |
| 06 | JB/79.2-94 PN4.0 |
| 41 | ANSI150 |
| 42 | ANSI300 |
| 74 | HG20592 PN1.6 |
| 75 | HG20592 PN2.5 |
| 76 | HG20592 PN4.0 |
| 83 | DIN2543 PN1.6 |
| 84 | DIN2544 PN2.5 |
| 85 | DIN2545 PN4.0 |
| X | 特殊规格 |

| 3 编码 | 连接形式 法兰形状 |
|---|---|
| 1 | RF |
| 2 | FM |
| 3 | FF |
| 4 | RTJ |
| 5 | SW |
| 6 | BW |
| 7 | LG |
| X | 特殊规格 |

| 4 编码 | 额定 Cv | 4 编码 | 额定 Cv | 4 编码 | 额定 Cv |
|---|---|---|---|---|---|
| 32 | 4.7 | 30 | 1.9 | b7 | 0.73 |
| 35 | 11.5 | 38 | 19 | 39 | 29 |
| 41 | 46 | 44 | 73 | 46 | 116 |
| 51 | 176 | 52 | 186 | 55 | 304 |
| 56 | 445 | 58 | 761 | 60 | 1053 |
| 61 | 1521 | | | | |

| 5 编码 | 流量特性 |
|---|---|
| L | 线性 |
| % | 等百分比 |
| QS | 快开 |

| 6 编码 | 波纹管型式 |
|---|---|
| 1 | 焊接波纹管(-30℃~350℃) |
| 2 | 挤压式波纹管(-30℃~300℃) |

| 7 编码 | 泄漏等级 |
|---|---|
| Ⅳ | ANSI B16.104Ⅳ |
| Ⅴ | ANSI B16.104Ⅴ |
| Ⅵ | ANSI B16.104Ⅵ(软密封) |

| 8 编码 | 填料 |
|---|---|
| 1 | V+EPDM |
| 2 | V+VITON |
| 3 | Graphite with Inconel |
| 6 | Graphite +PTFE |

| 9 编码 | 阀体材质 |
|---|---|
| 03 | WCB |
| 04 | CF8M |
| 05 | CF8 |
| 30 | A217 WC6 |
| 31 | A217 WC9 |
| 32 | A217-C5 |
| 55 | CF3M |
| L9 | CF3 |
| Y6 | A352-LCB |
| X | 其它材质 |

| 10 编码 | 阀内件材质 |
|---|---|
| 04 | 316 |
| 05 | 304 |
| 55 | 316L |
| L9 | 304L |
| 39 | 304+ST |
| 40 | 316+ST |
| s9 | 哈氏 C 合金 |
| t3 | 哈氏 B 合金 |
| X | 其它材质 |

| 11 编码 | 阀芯及处理 |
|---|---|
| 0 | 不处理 |
| 1 | HT |
| X | 特殊要求 |

| 12 编码 | 阀座及处理 |
|---|---|
| 0 | 不处理 |
| 1 | HT |
| X | 特殊要求 |

| 13 编码 | 特殊要求 |
|---|---|
| b | 禁铜 |
| c | 禁水 |
| d | 禁硫 |
| e | 禁油 |
| X | 其它要求 |

### 二、执行机构

见执行机构代码表。

注:当内件材质为哈氏 B、C 合金时,只能用焊接式波纹管



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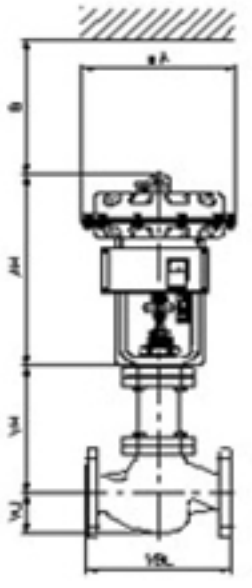
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| WUYI | 银星能源·吴忠仪表<br>YINXING ENERGY·WUZHONG INSTRUMENT<br>调节阀数据表<br>SPECIFICATION FOR CONTROL VALVE | | | 项目名称 PROJECT | | | |
| | | | | 合 同 号 CONT.NO | | | |
| | | | | 装置名称 DEVICE | | | |
| 概况 GENERAL | 第 1 / 1 页 Sheet 1 of1 | | | 阀体组件 BODY | 型 式 | Type | ECOTROL 系列 |
| | 位 号 TAG No | 用户提供 | | | 型 号 | Mode No. | ATSW |
| | 数 量 Quantity | 用户提供 | | | 公称通径 | Body Size (DN) | 公司提供 |
| | 管道编号 P & ID No | 用户提供 | | | 阀座直径 | Ports Size(dN) | 公司提供 |
| | 管道规格 Line Size | 用户提供 | | | 额定 CV 值 | Valve CV | 公司提供 |
| | 管道材质 Line Material | 用户提供 | | | 公称压力 | Rating | 公司提供 |
| | 用 途 Server | 用户提供 | | | 法兰型式 | Connect | 公司提供 |
| 操作条件及结果 OPERATION AND RESULT | 流体名称 Fluid Name | 用户提供 | | | | 阀体 Body | 公司提供 |
| | 流体状态 Fluid State | 用户提供 | | | | 阀芯 Plug | 公司提供 |
| | | 最大 Max | 正常 Nor 最小 Min | | | 阀座 Seat | 公司提供 |
| | 操作温度 Operation Temp (℃) | 用户提供 | | | | 阀杆 Stem | 公司提供 |
| | 流量单位 Flow Rate Unit | 用户提供 | | | 泄漏等级 | Leakage Class | 公司提供 |
| | 流 量 Flow Rate | 用户提供 | | | 流量特性 | Characteristic | 公司提供 |
| | 压力单位 Pressure Unit | MPa(A) | | | 上盖型式 | Bonnet Type | 公司提供 |
| | 阀前压力 Input Pressure | 用户提供 | | | 填 料 | Packing | 公司提供 |
| | 阀后压力 Outlet Pressure | 用户提供 | | | 作用型式 | Action | 公司提供 |
| | 压 差 Different Pressure | 系统生成 | | 执行机构 ACTUATOR | 型 式 | Type | 公司提供 |
| | 关闭压力 Shut off Pressure | 用户提供 | | | 型 号 | Mode № | 公司提供 |
| | 比 重 SP.Gr. | 用户提供 | | | 行 程 | Travel(mm) | 公司提供 |
| | 操作密度 Opera Density(Kg/m³) | 用户提供 | | | 供气压力 | Air Supply (MPa) | 公司提供 |
| | 标准密度 ST Density (Kg/m³) | 用户提供 | | | 弹簧范围 | Spring (MPa) | 公司提供 |
| | 气体分子量 M.W | 系统生成 | | | 电 压 | Voltage | 公司提供 |
| | 动力粘度 Dynamic Viscosity(CP) | 用户提供 | | | 输入信号 | Input Signal | 公司提供 |
| | 压力恢复系数 FL | 系统生成 | | | 手轮机构 | Hand Wheel | 公司提供 |
| | 汽化压力 Vapor Pressure | 系统生成 | | | 关闭压差 | Shut Off DP (Mpa) | 公司提供 |
| | 临界压力 Critical Pressure | 系统生成 | | 定位器 POSITONER | 型 号 | Mode № | 公司提供 |
| | 气源故障时阀位 Possition Of Air Fail | 关(FC) | | | 供气压力 | Air Supply (MPa) | 公司提供 |
| | 计算 CV 值 Calculate CV | 系统生成 | | | 输入信号 | Input Signal | 公司提供 |
| | 开 度 Travel(%) | 系统生成 | | | 防爆等级 | EXP.Class | 公司提供 |
| | 噪 音 Noise Level (dB) | 系统生成 | | | 气源接口 | Air Input Connect | 公司提供 |
| 特殊需求 SEPCIAL REQUIREMENTS | 特殊检查 Sepcial Inspection | 用户提供 | | | 电气接口 | Electric.Connect | 公司提供 |
| | 禁铜处理 Forbidding Copper Treatment | | 用户提供 | 电磁阀 SOLENOID | 型 号 | Mode № | 公司提供 |
| | 指定色涂层 Specified Painting Coat | | 用户提供 | | 电 压 | Voltage | 公司提供 |
| | 除油除水处理 Removing Oil and Water | | 用户提供 | | 气源接口 | Air Input Connect | 公司提供 |
| | 热寒带地区 Used in Tropic or Frigid Zone | | 用户提供 | 减压阀 | AIR SET | | 公司提供 |
| | 防沙防尘型 Preventing Sand and Dust | | 用户提供 | 外形尺寸 DIMENSIONS | VBL= mm<br>YU= mm<br>B= mm<br>YH= mm<br>Φ A=mm<br>AH=mm<br>重量=Kg |  | |
| | 防强腐蚀型 High-crodent substance Proof | | 用户提供 | | | | |
| | 动作频次高 High frequent Action | | 用户提供 | | | | |
| | 开启关闭时间 Open/Close Time | | 用户提供 | | | | |
| 备注 REMARKED | | | | | | | |



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VER.WY-0901-E-ATSW

50年控制阀制造经验

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