EICMATION®

## 规格

设计
一片式全通径
防静电设计和防火结构
设计： ASME B16.34

操作
手柄90°旋转

连接
法兰标准：DIN2633或HG/T20592
ASME B16.5或HG/T20615
GB/T 9113

结构长度：
DIN3202 F4/F5
GB/T12221 系列12

公称压力
PN10/PN16/PN25/40
150LB/300/LB

温度范围
-29℃ ~ 240℃（软密封）
-29℃ ~ 350℃ （金属密封）

材料
阀体： WCB
CF8
CF8M

球芯： 304
316

阀座：DEVLON/PEEK/PCTFE/METAL

填料：PTFE/R-PTFE/石墨

手柄： SS

选项
电子指示器
加长手柄
手轮装置

以上信息仅供参考，本公司保留修改的权利，恕不另行通知。

## Specification

**DESIGN**
1-piece design full bore
Anti-static and Fireproof structure
Design: ASME B16.34

**OPERATION**
Handle 90° rotation

**CONNECTION**
End flange standard: DIN2633 HG/T20592
ASME B16.5 HG/T20615
GB/T 9113

**FACE TO FACE LENGTH**
DIN3202 F4/F5
GB/T12221 series12

**NOMINAL PRESSURE**
PN10/PN16/PN25/40
150LB/300LB

**TEMPERATURE RANGE**
-29℃ ~ 240℃ (Soft Seat)
-29℃ ~ 350℃ (Metal Seat)

**MATERIALS**
Body: WCB
CF8
CF8M

Ball: 304
316

seat: DEVLON/PEEK/PCTFE/METAL

Packing:PTFE/R-PTFE/Graphite

Handle: SS

**OPTIONS**
Electrical position indicator
Lengthened handle
Handwheel device

The above information is for reference only and Eicmation reserves the right to alter without prior notice.

型号:
BTN
BTN法兰V型半球阀

PN10/PN16/25/40
150LB/300LB

WCB
CF8
CF8M



Type:
BTN
BTN Flanged V-port Segment Ball Valve

PN10/ PN16/25/40
150LB/300LB
WCB
CF8
CF8M



EICMATION®

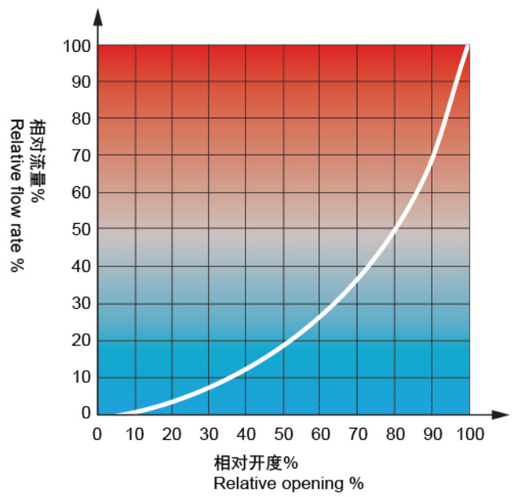
**举例说明：** 比如 BTN24D2515
=法兰V型半球阀，WCB，CF8，金属，PN10，对夹，DN25
球阀

| 1 .字符<br>产品 | 2.字符<br>阀体 | 3.字符<br>内件 | 4.字符<br>密封 | 5.字符<br>压力标准 | 6.字符<br>连接 | 7 + 8.字符<br>口径 |
|---|---|---|---|---|---|---|
| BTN=法兰V型半球阀 | 2=WCB<br>3=CF8<br>4=CF8M | 3=CF8<br>9=双相钢 | D=金属<br>L=WC<br>M=STL | 2=PN10<br>3=PN16/150LB<br>4=PN25<br>5=PN40/300LB | 5=对夹<br>6=国标法兰<br>7=德标法兰<br>M=美标法兰 | 15=1" (DN25) 23=6" (DN150)<br>16=1 1/4"(DN32) 24=8" (DN200)<br>17=1 1/2"(DN40) 25=10" (DN250)<br>18=2" (DN50) 26=12" (DN300)<br>19=2 1/2" (DN65) 27=14" (DN350)<br>20=3" (DN80) 28=16" (DN400)<br>21=4" (DN100) 29=18" (DN450)<br>22=5" (DN125) 30=20"(DN500) |

**Ordering example:** e.g. BTN24D2515
=Flanged V-port Segment Ball Valve,WCB，CF8，Meatal，PN10，Wafer，DN25
Ball valve

| A.<br>Type | B.<br>Body | C.<br>Trim | D.<br>Seal | E.<br>Standard pressure | F.<br>Connection | G + H.<br>Size |
|---|---|---|---|---|---|---|
| BTN=Flanged V-port Segment Ball Valve | 2=WCB<br>3=CF8<br>4=CF8M | 3=CF8<br>9=Duplex Steel | D=Meatal<br>L=WC<br>M=STL | 2=PN10<br>3=PN16/150LB<br>4=PN25<br>5=PN40/300LB | 5=Wafer<br>6=GB Flange<br>7=DIN Flange<br>M=ASME Flange | 15=1" (DN25) 23=6" (DN150)<br>16=1 1/4"(DN32) 24=8" (DN200)<br>17=1 1/2"(DN40) 25=10" (DN250)<br>18=2" (DN50) 26=12" (DN300)<br>19=2 1/2" (DN65) 27=14" (DN350)<br>20=3" (DN80) 28=16" (DN400)<br>21=4" (DN100) 29=18" (DN450)<br>22=5" (DN125) 30=20"(DN500) |

### 流量特性/Flow characteristic

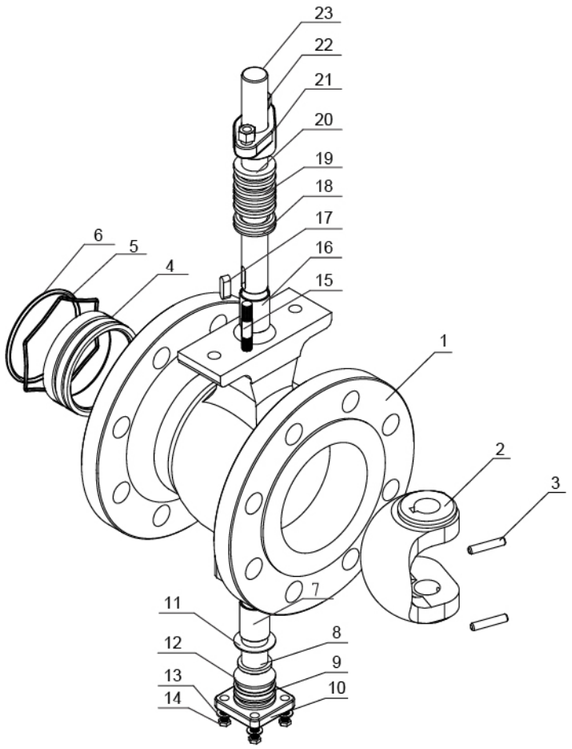



V型调节球阀固有的流量特性为近似
等百分比特性，如图1所示
The inherent flow characteristics of the V-shaped ball valve are approximately equal percentage characteristics, as shown in Figure 1

### CV值表/CV value table

| 规格/Specification | CV值/CV value |
|---|---|
| DN25(1") | 36 |
| DN32(11/4") | 56 |
| DN40(11/2") | 94 |
| DN50(2") | 152 |
| DN65(21/2") | 262 |
| DN80(3") | 358 |
| DN100(4") | 540 |
| DN125(5") | 906 |
| DN150(6") | 1424 |
| DN200(8") | 2176 |
| DN250(10") | 3532 |
| DN300(12") | 5732 |
| DN350(14") | 8245 |
| DN400(16") | 10651 |
| DN450(18") | 12878 |
| DN500(20") | 16343 |

## 零件说明/Parts list



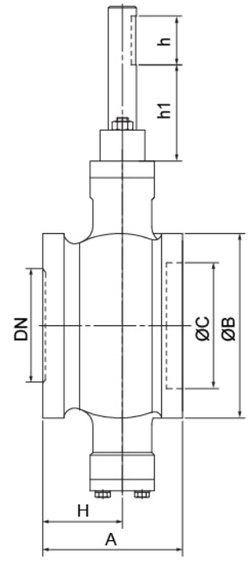

| 序号 | 描述 | 材料 |
|---|---|---|
| 1 | 阀体 | WCB/CF8/CF8M |
| 2 | 阀芯 | CF8表面镀硬铬 |
| 3 | 圆柱销 | 304/316 |
| 4 | 阀座 | 304堆焊硬质合金/316 |
| 5 | 弹簧 | 316 |
| 6 | O型圈 | 氟橡胶 |
| 7 | 自润滑轴承 | 304+PTFE/316+PTFE |
| 8 | 下阀杆 | 20Cr13/304/316 |
| 9 | O型圈 | 氟橡胶 |
| 10 | 后压盖 | WCB/CF8/CF8M |
| 11 | 环垫 | PTFE |
| 12 | 调节垫片 | PTFE |
| 13 | 平垫片 | Q235/304 |
| 14 | 螺栓 | 25/304 |
| 15 | 双头螺柱 | 25/304 |
| 16 | 自润滑轴承 | 304+PTFE/316+PTFE |
| 17 | 平键 | 20Cr13/304/316 |
| 18 | 下填料 | PTFE |
| 19 | 中填料 | PTFE |
| 20 | 上填料 | PTFE |
| 21 | 填料压盖 | WCB/CF8/CF8M |
| 22 | 螺母 | 35/304 |
| 23 | 上阀杆 | 20Cr13/304/316 |

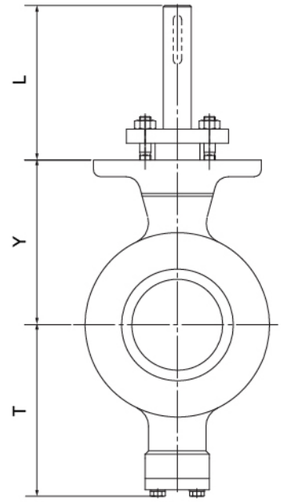
| No | Description | Material |
|---|---|---|
| 1 | Body | WCB/CF8/CF8M |
| 2 | Ball | CF8 Hard chrome plated surface |
| 3 | Round pin | 304/316 |
| 4 | Seat | 304/316 |
| 5 | Spring | 316 |
| 6 | O-ring | FKM |
| 7 | Self-lubricating bearing | 304+PTFE/316+PTFE |
| 8 | Lower stem | 20Cr13/304/316 |
| 9 | O-ring | FKM |
| 10 | Rear gland | WCB/CF8/CF8M |
| 11 | Ring gasket | PTFE |
| 12 | Regulating gasket | PTFE |
| 13 | Flat gasket | Q235/304 |
| 14 | Bolt | 25/304 |
| 15 | Double stud | 25/304 |
| 16 | Self-lubricating bearing | 304+PTFE/316+PTFE |
| 17 | Flat key | 20Cr13/304/316 |
| 18 | Lower packing | PTFE |
| 19 | Medium packing | PTFE |
| 20 | Upper packing | PTFE |
| 21 | Packing gland | WCB/CF8/CF8M |
| 22 | Nut | 35/304 |
| 23 | Upper stem | 20Cr13/304/316 |

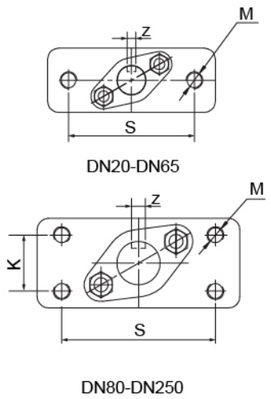
## 尺寸/Dimension

EICMATION®

对夹式/Wafer




PN16/150LB

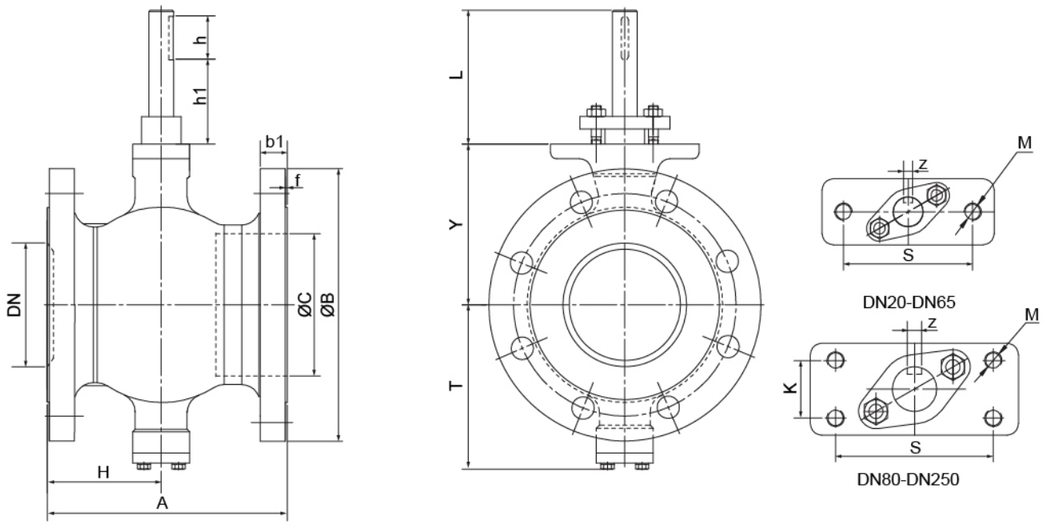
| DN | A | H | B | C | T | Y | L(长型) | L(短型) | h | S | K | M | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 50 | 30 | 68 | 38 | 81 | 73 | 102 | 75 | 35 | 75 | / | 2-M10 | 5 |
| 32 | 60 | 35 | 76 | 45 | 86 | 78 | 100 | 75 | 35 | 75 | / | 2-M10 | 5 |
| 40 | 60 | 35 | 84 | 50 | 90 | 80 | 102 | 75 | 35 | 75 | / | 2-M10 | 5 |
| 50 | 75 | 43 | 100 | 62 | 93 | 90 | 104 | 75 | 35 | 75 | / | 2-M10 | 5 |
| 65 | 100 | 50 | 118 | 73 | 108 | 105 | 102 | 75 | 35 | 75 | / | 2-M10 | 5 |
| 80 | 100 | 57 | 132 | 90 | 123 | 118 | 110 | 75 | 35 | 90 | 28 | 4-M10 | 6 |
| 100 | 115 | 65 | 158 | 115 | 138 | 130 | 108 | 75 | 35 | 90 | 28 | 4-M10 | 6 |
| 125 | 129 | 78 | 184 | 134 | 148 | 145 | 110 | 80 | 40 | 90 | 28 | 4-M10 | 8 |
| 150 | 160 | 95 | 216 | 164 | 170 | 170 | 124 | 94 | 50 | 110 | 40 | 4-M12 | 8 |
| 200 | 200 | 120 | 268 | 206 | 200 | 201 | 124 | 94 | 50 | 110 | 40 | 4-M12 | 8 |
| 250 | 240 | 148 | 326 | 260 | 240 | 237 | 140 | 98 | 60 | 135 | 40 | 4-M16 | 12 |

注:阀杆高出平台尺寸L,有两个选择，配PA气动执行器及圆阀杆可直接申入执行器内时，L尺寸选长型，需要用连接套过渡连接时选短型。

Note: The valve stem is higher than the platform size L, there are two choices, with PA pneumatic actuator and round valve stem can be directly inserted into the actuator, L size choose long type, need to use a connecting sleeve for transition connection choose short type.

## 尺寸/Dimension

法兰式/Flange




PN16

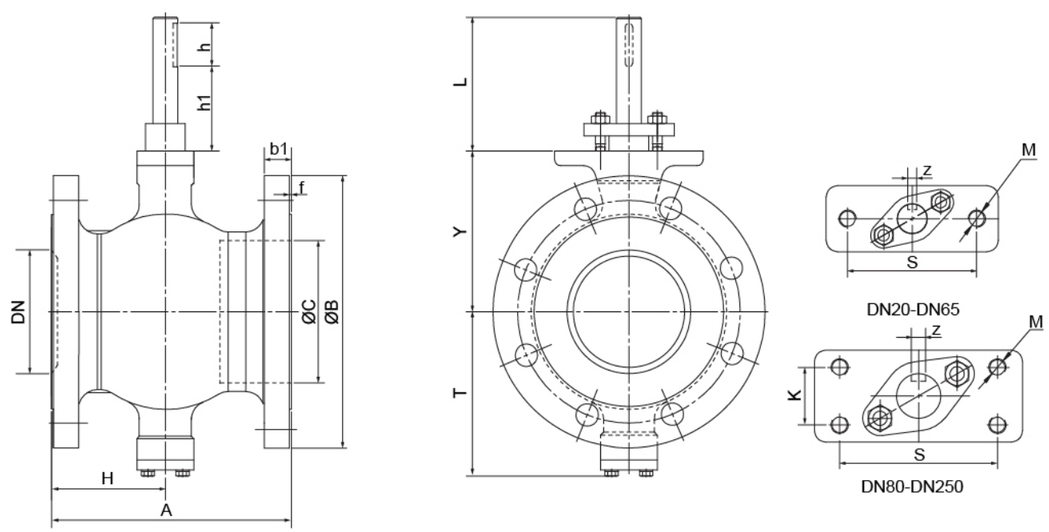
| DN | A | H | B | b1 | f | C | T | Y | L(长型) | L(短型) | h | S | K | M | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 102 | 51 | 115 | 16 | 2 | 38 | 81 | 73 | 102 | 75 | 35 | 75 | / | 2-M10 | 5 |
| 32 | 102 | 51 | 140 | 18 | 2 | 45 | 86 | 78 | 100 | 75 | 35 | 75 | / | 2-M10 | 5 |
| 40 | 114 | 57 | 150 | 18 | 2 | 50 | 90 | 80 | 102 | 75 | 35 | 75 | / | 2-M10 | 5 |
| 50 | 124 | 60 | 165 | 20 | 2 | 62 | 93 | 90 | 104 | 75 | 35 | 75 | / | 2-M10 | 5 |
| 65 | 145 | 70 | 185 | 20 | 2 | 73 | 108 | 105 | 102 | 75 | 35 | 75 | / | 2-M10 | 5 |
| 80 | 165 | 75 | 200 | 20 | 2 | 90 | 123 | 118 | 110 | 75 | 35 | 90 | 28 | 4-M10 | 6 |
| 100 | 194 | 92 | 220 | 22 | 2 | 115 | 138 | 130 | 108 | 75 | 35 | 90 | 28 | 4-M10 | 6 |
| 125 | 194 | 97 | 250 | 22 | 2 | 134 | 148 | 145 | 110 | 80 | 40 | 90 | 28 | 4-M10 | 8 |
| 150 | 229 | 110 | 285 | 24 | 2 | 164 | 170 | 170 | 124 | 94 | 50 | 110 | 40 | 4-M12 | 8 |
| 200 | 243 | 120 | 340 | 24 | 2 | 206 | 200 | 201 | 124 | 94 | 50 | 110 | 40 | 4-M12 | 8 |
| 250 | 297 | 148 | 405 | 26 | 2 | 260 | 240 | 237 | 140 | 98 | 60 | 135 | 40 | 4-M16 | 12 |
| 300 | 338 | 190 | 460 | 28 | 2 | 316 | 286 | 282 | 140 | 98 | 60 | 135 | 40 | 4-M16 | 12 |
| 350 | 400 | 221 | 520 | 30 | 2 | 372 | 330 | 337 | 170 | 125 | 60 | 140 | 64 | 4-M16 | 14 |
| 400 | 400 | 220 | 580 | 32 | 2 | 420 | 367 | 372 | 212 | 172 | 80 | 170 | 80 | 4-M20 | 18 |
| 450 | 520 | 290 | 640 | 40 | 2 | 470 | 422 | 432 | 240 | 172 | 90 | 190 | 90 | 4-M24 | 20 |
| 500 | 600 | 320 | 715 | 44 | 2 | 516 | 490 | 498 | 250 | 180 | 100 | 190 | 90 | 4-M24 | 22 |

注:阀杆高出平台尺寸L,有两个选择，配PA气动执行器及圆阀杆可直接申入执行器内时，L尺寸选长型，需要用连接套过渡连接时选短型。

Note: The valve stem is higher than the platform size L, there are two choices, with PA pneumatic actuator and round valve stem can be directly inserted into the actuator, L size choose long type, need to use a connecting sleeve for transition connection choose short type.

## 尺寸/Dimension

法兰式/Flange




150LB

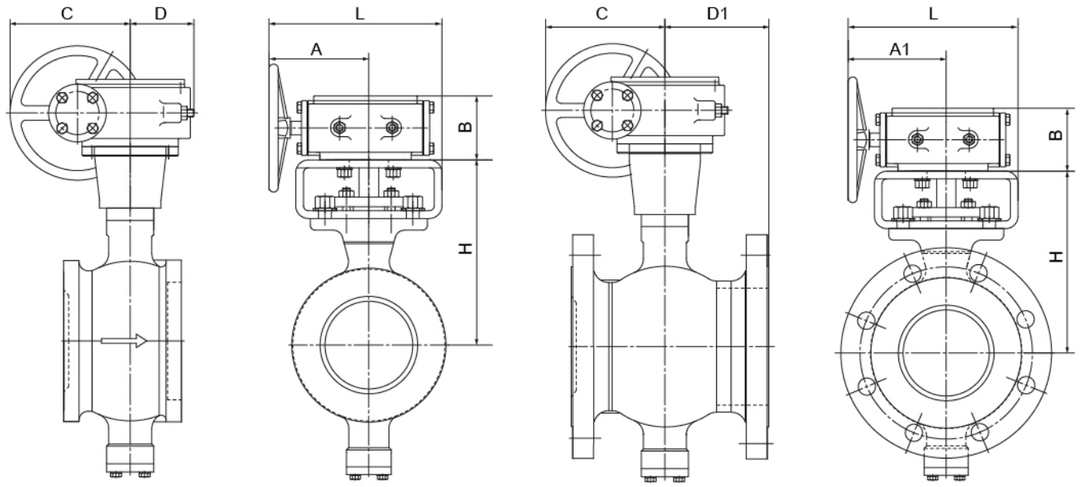
| inch | A | H | B | b1 | f | C | T | Y | L(长型) | L(短型) | h | S | K | M | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 102 | 51 | 108 | 14.5 | 2 | 38 | 81 | 73 | 102 | 75 | 35 | 75 | / | 2-M10 | 5 |
| 11/4 | 102 | 51 | 115 | 14.5 | 2 | 45 | 86 | 78 | 100 | 75 | 35 | 75 | / | 2-M10 | 5 |
| 11/2 | 114 | 57 | 127 | 14.5 | 2 | 50 | 90 | 80 | 102 | 75 | 35 | 75 | / | 2-M10 | 5 |
| 2 | 124 | 60 | 152 | 16.3 | 2 | 62 | 93 | 90 | 104 | 75 | 35 | 75 | / | 2-M10 | 5 |
| 21/2 | 145 | 70 | 180 | 18 | 2 | 73 | 108 | 105 | 102 | 75 | 35 | 75 | / | 2-M10 | 5 |
| 3 | 165 | 75 | 191 | 19.5 | 2 | 90 | 123 | 118 | 110 | 75 | 35 | 90 | 28 | 4-M10 | 6 |
| 4 | 194 | 92 | 230 | 24 | 2 | 115 | 138 | 130 | 108 | 75 | 35 | 90 | 28 | 4-M10 | 6 |
| 5 | 194 | 97 | 255 | 24.3 | 2 | 134 | 148 | 145 | 110 | 80 | 40 | 90 | 28 | 4-M10 | 8 |
| 6 | 229 | 110 | 280 | 26 | 2 | 164 | 170 | 170 | 124 | 94 | 50 | 110 | 40 | 4-M12 | 8 |
| 8 | 243 | 120 | 340 | 29 | 2 | 206 | 200 | 201 | 124 | 94 | 50 | 110 | 40 | 4-M12 | 8 |
| 10 | 297 | 148 | 405 | 30.6 | 2 | 260 | 240 | 237 | 140 | 98 | 60 | 135 | 40 | 4-M16 | 12 |
| 12 | 338 | 190 | 485 | 32.2 | 2 | 316 | 286 | 282 | 140 | 98 | 60 | 135 | 40 | 4-M16 | 12 |
| 14 | 400 | 221 | 535 | 35.4 | 2 | 372 | 330 | 337 | 170 | 125 | 60 | 140 | 64 | 4-M16 | 14 |
| 16 | 400 | 220 | 595 | 37 | 2 | 420 | 367 | 372 | 212 | 172 | 80 | 170 | 80 | 4-M20 | 18 |

注:阀杆高出平台尺寸L,有两个选择，配PA气动执行器及圆阀杆可直接申入执行器内时，L尺寸选长型，需要用连接套过渡连接时选短型。

Note: The valve stem is higher than the platform size L, there are two choices, with PA pneumatic actuator and round valve stem can be directly inserted into the actuator, L size choose long type, need to use a connecting sleeve for transition connection choose short type.

## 尺寸/Dimension

手动涡轮对夹式/Hand turbine clamp
手动涡轮法兰式/Hand turbine flange




PN10/150LB

PN16/150LB

| DN | A | L | B | H | C | D | D1 |
|---|---|---|---|---|---|---|---|
| 25 | 145 | 200 | 70 | 133 | 170 | 60 | 60 |
| 32 | 145 | 200 | 70 | 138 | 170 | 60 | 60 |
| 40 | 145 | 200 | 70 | 140 | 170 | 60 | 60 |
| 50 | 145 | 200 | 70 | 150 | 170 | 60 | 64 |
| 65 | 145 | 200 | 70 | 165 | 170 | 60 | 75 |
| 80 | 145 | 200 | 70 | 178 | 170 | 60 | 90 |
| 100 | 145 | 200 | 70 | 190 | 170 | 75 | 100 |
| 125 | 170 | 235 | 74 | 205 | 190 | 75 | 97 |
| 150 | 170 | 235 | 74 | 235 | 190 | 93 | 120 |
| 200 | 190 | 265 | 90 | 265 | 220 | 106 | 125 |
| 250 | 215 | 325 | 100 | 317 | 270 | - | 150 |
| 300 | 215 | 325 | 100 | 362 | 270 | - | 150 |
| 350 | 260 | 370 | 125 | 437 | 300 | - | 180 |
| 400 | 260 | 370 | 125 | 492 | 300 | - | 180 |
| 450 | 260 | 370 | 125 | 570 | 300 | - | 230 |
| 500 | 270 | 415 | 130 | 640 | 340 | - | 280 |



EICMATION®

## 规格

设计
一片式全通径
防静电设计和防火结构
设计： ASME B16.34

操作
手柄90°旋转

连接
法兰标准：DIN2633或HG/T20592
ASME B16.5或HG/T20615
GB/T 9113

结构长度：
DIN3202 F4/F5
GB/T12221 系列12

公称压力
PN10/PN16/PN25/40
150LB/300/LB

温度范围
-29℃ ~ 240℃ （软密封）
-29℃ ~ 350℃ （金属密封）

材料
阀体： WCB
CF8
CF8M

球芯： 304
316

阀座：DEVLON/PEEK/PCTFE/METAL

填料：PTFE/R-PTFE/石墨

选项
电子指示器
加长手柄
手轮装置

以上信息仅供参考，本公司保留修改的权利，恕不另行通知。

## Specification

**DESIGN**
1-piece design full bore
Anti-static and Fireproof structure
Design: ASME B16.34

**OPERATION**
Handle 90° rotation

**CONNECTION**
End flange standard: DIN2633 HG/T20592
ASME B16.5 HG/T20615
GB/T 9113

**FACE TO FACE LENGTH**
DIN3202 F4/F5
GB/T12221 series12

**NOMINAL PRESSURE**
PN10/PN16/PN25/40
150LB/300LB

**TEMPERATURE RANGE**
-29℃ ~ 240℃ (Soft Seat)
-29℃ ~ 350℃ (Metal Seat)

**MATERIALS**
Body: WCB
CF8
CF8M

Ball: 304
316

seat: DEVLON/PEEK/PCTFE/METAL

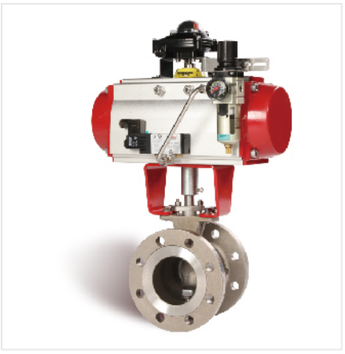
Packing:PTFE/R-PTFE/Graphite

**OPTIONS**
Electrical position indicator
Lengthened handle
Handwheel device

The above information is for reference only and Eicmation reserves the right to alter without prior notice.

型号:
BNT-PA
气动法兰V型半球阀

PN10/PN16/25/40
150LB/300LB
WCB
CF8
CF8M



Type:
BNT-PA
Pneumatic Flanged V-port
Segment Ball Valve

PN10/ PN16/25/40
150LB/300LB
WCB
CF8
CF8M

**举例说明：** 比如 BTN24D2515-PA1113110
=法兰V型半球阀，WCB，CF8，金属，PN10，对夹，DN25,气动执行器，双作用，铝合金，Ø52,NBR,齿轮，0-90°
球阀

| 1.字符<br>产品 | 2.字符<br>阀体 | 3.字符<br>内件 | 4.字符<br>密封 | 5.字符<br>压力标准 | 6.字符<br>连接 | 7 + 8.字符<br>口径 |
|---|---|---|---|---|---|---|
| BTN=法兰V型半球阀 | 2=WCB<br>3=CF8<br>4=CF8M | 3=CF8<br>9=双相钢 | D=金属<br>L=WC<br>M=STL | 2=PN10<br>3=PN16/150LB<br>4=PN25<br>5=PN40/300LB | 5=对夹<br>6=国标法兰<br>7=德标法兰<br>M=美标法兰 | 15=1" (DN25) 23=6" (DN150)<br>16=1 1/4"(DN32) 24=8" (DN200)<br>17=1 1/2"(DN40) 25=10" (DN250)<br>18=2" (DN50) 26=12" (DN300)<br>19=2 1/2" (DN65) 27=14" (DN350)<br>20=3" (DN80) 28=16" (DN400)<br>21=4" (DN100) 29=18" (DN450)<br>22=5" (DN125) 30=20"(DN500) |

执行器

| 9.字符<br>产品 | 10.字符<br>功能 | 11.字符<br>材质 | 12 + 13.字符<br>规格 | 14.字符<br>密封 | 15.字符<br>结构 | 16.字符<br>行程 |
|---|---|---|---|---|---|---|
| PA=气动执行器 | 1=双作用<br>2=单作用常闭<br>3=单作用常开 | 1=铝合金<br>2=不锈钢 | 13=Ø52 22=Ø190<br>14=Ø63 23=Ø210<br>15=Ø75 24=Ø240<br>16=Ø83 25=Ø270<br>17=Ø92 26=Ø300<br>18=Ø105 27=Ø350<br>19=Ø125 28=Ø400<br>20=Ø140<br>21=Ø160 | 1=NBR<br>2=HNBR<br>3=FKM | 1=齿轮 | 0=0-90°<br>1=0-120°<br>2=0-135°<br>3=0-150°<br>4=0-180°<br>5=0-270° |

**Ordering example:** e.g. BTN24D2515-PA1113110
=Flanged V-port Segment Ball Valve,WCB，CF8，Meatal，PN10，Wafer，DN25,Pneumatic actuator,Double acting,Aluminium alloy,Ø52,NBR,Gear, 0-90°
Ball valve

| A.<br>Type | B.<br>Body | C.<br>Trim | D.<br>Seal | E.<br>Standard pressure | F.<br>Connection | G + H.<br>Size |
|---|---|---|---|---|---|---|
| BTN=Flanged V-port Segment Ball Valve | 2=WCB<br>3=CF8<br>4=CF8M | 3=CF8<br>9=Duplex Steel | D=Meatal<br>L=WC<br>M=STL | 2=PN10<br>3=PN16/150LB<br>4=PN25<br>5=PN40/300LB | 5=Wafer<br>6=GB Flange<br>7=DIN Flange<br>M=ASME Flange | 15=1" (DN25) 23=6" (DN150)<br>16=1 1/4"(DN32) 24=8" (DN200)<br>17=1 1/2"(DN40) 25=10" (DN250)<br>18=2" (DN50) 26=12" (DN300)<br>19=2 1/2" (DN65) 27=14" (DN350)<br>20=3" (DN80) 28=16" (DN400)<br>21=4" (DN100) 29=18" (DN450)<br>22=5" (DN125) 30=20"(DN500) |

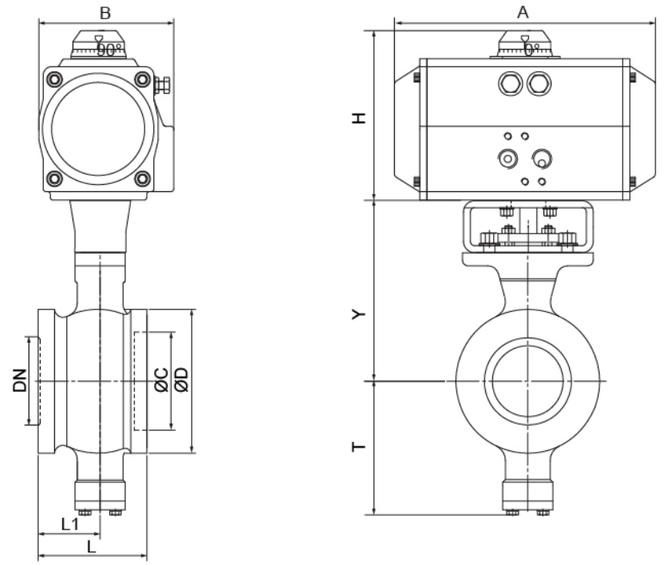
Actuator

| I .<br>Product | J.<br>Fail position | K.<br>Material | L + M.<br>Size | N.<br>Seal | O.<br>Structure | P.<br>Trip |
|---|---|---|---|---|---|---|
| PA=Pneumatic actuator | 1=Double acting<br>2=Single acting-close<br>3=Single acting-open | 1=Aluminium alloy<br>2=Stainless steel | 13=Ø52 22=Ø190<br>14=Ø63 23=Ø210<br>15=Ø75 24=Ø240<br>16=Ø83 25=Ø270<br>17=Ø92 26=Ø300<br>18=Ø105 27=Ø350<br>19=Ø125 28=Ø400<br>20=Ø140<br>21=Ø160 | 1=NBR<br>2=HNBR<br>3=FKM | 1=Gear | 0=0-90°<br>1=0-120°<br>2=0-135°<br>3=0-150°<br>4=0-180°<br>5=0-270° |

EICMATION®

## 尺寸/Dimension

对夹式/Wafer

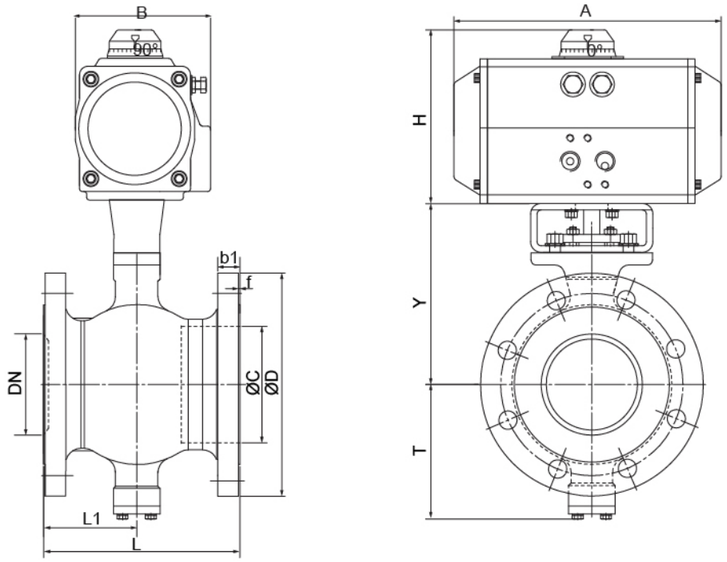



PN16/150LB

| DN | L | L1 | Actuator Model | Actuator Size | H | A | B | ØD | ØC | T | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 50 | 30 | PA2117110 | Ø92 | 137 | 262 | 109 | 68 | 38 | 81 | 175 |
| | | | PA1115110 | Ø75 | 120 | 184 | 95 | | | | |
| 32 | 60 | 35 | PA2118110 | Ø105 | 153 | 268 | 121 | 76 | 45 | 86 | 178 |
| | | | PA1115110 | Ø75 | 120 | 184 | 95 | | | | |
| 40 | 60 | 35 | PA2119110 | Ø125 | 175 | 301 | 143 | 84 | 50 | 90 | 182 |
| | | | PA1116110 | Ø83 | 129 | 204 | 103 | | | | |
| 50 | 75 | 43 | PA2119110 | Ø125 | 175 | 301 | 143 | 100 | 62 | 93 | 194 |
| | | | PA1116110 | Ø83 | 129 | 204 | 103 | | | | |
| 65 | 100 | 50 | PA2119110 | Ø125 | 175 | 301 | 143 | 118 | 73 | 108 | 207 |
| | | | PA1117110 | Ø92 | 137 | 262 | 109 | | | | |
| 80 | 100 | 57 | PA2120110 | Ø140 | 193 | 394 | 152 | 132 | 90 | 123 | 228 |
| | | | PA1118110 | Ø105 | 153 | 268 | 121 | | | | |
| 100 | 115 | 65 | PA2121110 | Ø160 | 218 | 458 | 174 | 158 | 115 | 138 | 238 |
| | | | PA1118110 | Ø105 | 153 | 268 | 121 | | | | |
| 125 | 129 | 78 | PA2121110 | Ø160 | 218 | 458 | 174 | 184 | 134 | 148 | 255 |
| | | | PA1119110 | Ø125 | 175 | 301 | 143 | | | | |
| 150 | 160 | 95 | PA2121110 | Ø160 | 218 | 458 | 174 | 216 | 164 | 170 | 294 |
| | | | PA1119110 | Ø125 | 175 | 301 | 143 | | | | |
| 200 | 200 | 120 | PA2123110 | Ø210 | 287 | 532 | 226 | 268 | 206 | 200 | 325 |
| | | | PA1121110 | Ø160 | 218 | 458 | 174 | | | | |
| 250 | 240 | 148 | PA2124110 | Ø240 | 221 | 660 | 260 | 326 | 260 | 240 | 377 |
| | | | PA1122110 | Ø190 | 262 | 528 | 206 | | | | |

## 尺寸/Dimension

### 法兰式/Flange




PN16

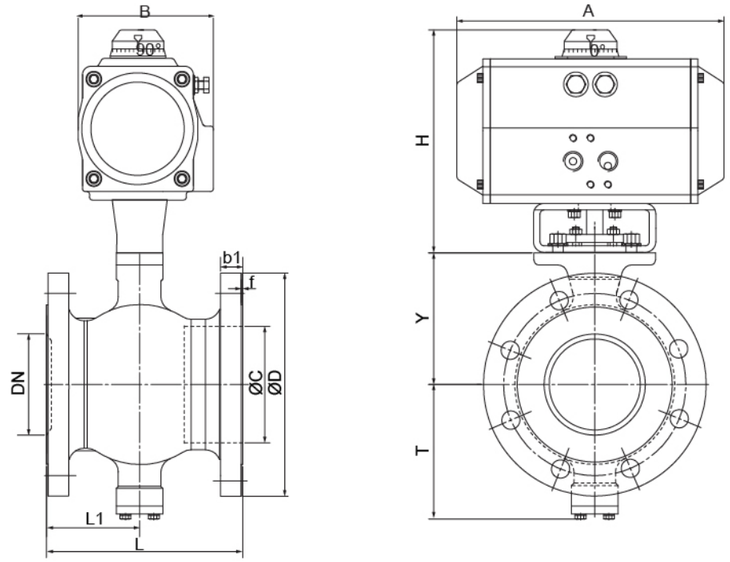
| DN | L | L1 | Actuator | | H | A | B | ØD | ØC | T | Y | b1 | f |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Model | Size | | | | | | | | | |
| 25 | 102 | 51 | PA2117110 | Ø92 | 137 | 262 | 109 | 115 | 38 | 81 | 175 | 16 | 2 |
| | | | PA1115110 | Ø75 | 120 | 184 | 95 | | | | | | |
| 32 | 102 | 51 | PA2118110 | Ø105 | 153 | 268 | 121 | 140 | 45 | 86 | 178 | 18 | 2 |
| | | | PA1115110 | Ø75 | 120 | 184 | 95 | | | | | | |
| 40 | 114 | 57 | PA2119110 | Ø125 | 175 | 301 | 143 | 150 | 50 | 90 | 182 | 18 | 2 |
| | | | PA1116110 | Ø83 | 129 | 204 | 103 | | | | | | |
| 50 | 124 | 60 | PA2119110 | Ø125 | 175 | 301 | 143 | 165 | 62 | 93 | 194 | 20 | 2 |
| | | | PA1116110 | Ø83 | 129 | 204 | 103 | | | | | | |
| 65 | 145 | 70 | PA2119110 | Ø125 | 175 | 301 | 143 | 185 | 73 | 108 | 207 | 20 | 2 |
| | | | PA1117110 | Ø92 | 137 | 262 | 109 | | | | | | |
| 80 | 165 | 75 | PA2120110 | Ø140 | 193 | 394 | 152 | 200 | 90 | 123 | 228 | 20 | 2 |
| | | | PA1118110 | Ø105 | 153 | 268 | 121 | | | | | | |
| 100 | 194 | 92 | PA2121110 | Ø160 | 218 | 458 | 174 | 220 | 115 | 138 | 238 | 22 | 2 |
| | | | PA1118110 | Ø105 | 153 | 268 | 121 | | | | | | |
| 125 | 194 | 97 | PA2121110 | Ø160 | 218 | 458 | 174 | 250 | 134 | 148 | 255 | 22 | 2 |
| | | | PA1119110 | Ø125 | 175 | 301 | 143 | | | | | | |
| 150 | 229 | 110 | PA2121110 | Ø160 | 218 | 458 | 174 | 285 | 164 | 170 | 294 | 24 | 2 |
| | | | PA1119110 | Ø125 | 175 | 301 | 143 | | | | | | |
| 200 | 243 | 120 | PA2123110 | Ø210 | 287 | 532 | 226 | 340 | 206 | 200 | 325 | 24 | 2 |
| | | | PA1121110 | Ø160 | 218 | 458 | 174 | | | | | | |
| 250 | 297 | 148 | PA2124110 | Ø240 | 221 | 660 | 260 | 405 | 260 | 240 | 377 | 26 | 2 |
| | | | PA1122110 | Ø190 | 262 | 528 | 206 | | | | | | |



## 尺寸/Dimension

### 法兰式/Flange

EICMATION®




150LB

| inch | L | L1 | Actuator | | H | A | B | ØD | ØC | T | Y | b1 | f |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Model | Size | | | | | | | | | |
| 1 | 102 | 51 | PA2117110 | Ø92 | 137 | 262 | 109 | 108 | 38 | 81 | 175 | 14.5 | 2 |
| | | | PA1115110 | Ø75 | 120 | 184 | 95 | | | | | | |
| 11/4 | 102 | 51 | PA2118110 | Ø105 | 153 | 268 | 121 | 115 | 45 | 86 | 178 | 14.5 | 2 |
| | | | PA1115110 | Ø75 | 120 | 184 | 95 | | | | | | |
| 11/2 | 114 | 57 | PA2119110 | Ø125 | 175 | 301 | 143 | 127 | 50 | 90 | 182 | 14.5 | 2 |
| | | | PA1116110 | Ø83 | 129 | 204 | 103 | | | | | | |
| 2 | 124 | 60 | PA2119110 | Ø125 | 175 | 301 | 143 | 152 | 62 | 93 | 194 | 16.3 | 2 |
| | | | PA1116110 | Ø83 | 129 | 204 | 103 | | | | | | |
| 21/2 | 145 | 70 | PA2119110 | Ø125 | 175 | 301 | 143 | 180 | 73 | 108 | 207 | 18 | 2 |
| | | | PA1117110 | Ø92 | 137 | 262 | 109 | | | | | | |
| 3 | 165 | 75 | PA2120110 | Ø140 | 193 | 394 | 152 | 191 | 90 | 123 | 228 | 19.5 | 2 |
| | | | PA1118110 | Ø105 | 153 | 268 | 121 | | | | | | |
| 4 | 194 | 92 | PA2121110 | Ø160 | 218 | 458 | 174 | 230 | 115 | 138 | 238 | 24 | 2 |
| | | | PA1118110 | Ø105 | 153 | 268 | 121 | | | | | | |
| 5 | 194 | 97 | PA2121110 | Ø160 | 218 | 458 | 174 | 255 | 134 | 148 | 255 | 24.3 | 2 |
| | | | PA1119110 | Ø125 | 175 | 301 | 143 | | | | | | |
| 6 | 229 | 110 | PA2121110 | Ø160 | 218 | 458 | 174 | 280 | 164 | 170 | 294 | 26 | 2 |
| | | | PA1119110 | Ø125 | 175 | 301 | 143 | | | | | | |
| 8 | 243 | 120 | PA2123110 | Ø210 | 287 | 532 | 226 | 340 | 206 | 200 | 325 | 29 | 2 |
| | | | PA1121110 | Ø160 | 218 | 458 | 174 | | | | | | |
| 10 | 297 | 148 | PA2124110 | Ø240 | 221 | 660 | 260 | 405 | 260 | 240 | 377 | 30.6 | 2 |
| | | | PA1122110 | Ø190 | 262 | 528 | 206 | | | | | | |

EICMATION®

## 规格

设计
一片式全通径，执行器安装执行ISO5211
防静电设计和防火结构设计：ASME B16.34

操作
电动含手动操作

结构长度：
DIN3202 F4/F5
GB/T12221 系列12

公称压力
PN10/PN16/PN25/40
150LB/300/LB

温度范围
-29℃ ~ 240℃（软密封）
-29℃ ~ 350℃（金属密封）

材料
阀体： WCB
CF8
CF8M

球芯： 304
316

阀座：DEVLON/PEEK/PCTFE/METAL

填料：PTFE/R-PTFE/石墨

环境温度
-20°C - +60°C

可选电压
24V DC,24V AC,110V AC
220V AC,380V AC

防护
IP 67

标准设备
限位开关,物理指示器,手动控制

选项
除湿加热器
过力矩保护
调节型4-20mA
Exd IIB T4

更多规范请根据球阀(BTN)和执行器(KL)
数据表

以上信息仅供参考，埃克美迅公司保留修改的权利，恕不另行通知

## Specification

**DESIGN**
1-piece design full bore,mounting pad for actuator according to ISO 5211.
Anti-static and Fireproof structure
Design: ASME B16.34

**OPERATION**
Electric include handle operation

**FACE TO FACE LENGTH**
DIN3202 F4/F5
GB/T12221 series12

**NOMINAL PRESSURE**
PN10/PN16/PN25/40
150LB/300LB

**TEMPERATURE RANGE**
-29℃ ~ 240℃ (Soft Seat)
-29℃ ~ 350℃ (Metal Seat)

**MATERIALS**
Body: WCB
CF8
CF8M

Ball: 304
316

seat: DEVLON/PEEK/PCTFE/METAL

Packing:PTFE/R-PTFE/Graphite

**EXTERNAL TEMPERATURE RANGE**
-20°C - +60°C

**OPTIONAL VOLTAGE**
24V DC,24V AC,110V AC
220V AC,380V AC

**PROTECTIVE**
IP 67

**STANDARD EQUIPMENT**
Additional limit switches, optical position indicator, manual override

**OPTIONS**
Dehumidification heater
Overtorque protection
Modulate type 4-20mA
Exd IIB T4

For further specifications please refer to the ball valve (BTN) and actuator (KL) data sheet

The above information is for reference only and Eicmation reserves the right to alter without prior notice

型号:
BTN-KL
法兰V型半球阀

PN10/PN16/25/40
150LB/300LB

WCB
CF8
CF8M



Type:
BTN-KL
Electric Flanged V-port Segment Ball Valve
PN10/ PN16/25/40
150LB/300LB

WCB
CF8
CF8M



EICMATION®

**举例说明：** 比如 BTN24D2515-KL111111
=法兰V型半球阀，WCB，CF8，金属，PN10，对夹，DN25,基本型角行程电动执行器,24V DC,不防爆，50NM,开关+干接点
球阀

| 1 .字符<br>产品 | 2.字符<br>阀体 | 3.字符<br>内件 | 4.字符<br>密封 | 5.字符<br>压力标准 | 6.字符<br>连接 | 7 + 8.字符<br>口径 |
|---|---|---|---|---|---|---|
| BTN=法兰V型半球阀 | 2=WCB<br>3=CF8<br>4=CF8M | 3=CF8<br>9=双相钢 | D=金属<br>L=WC<br>M=STL | 2=PN10<br>3=PN16/150LB<br>4=PN25<br>5=PN40/300LB | 5=对夹<br>6=国标法兰<br>7=德标法兰<br>M=美标法兰 | 15=1" (DN25) 23=6" (DN150)<br>16=1 1/4"(DN32) 24=8" (DN200)<br>17=1 1/2"(DN40) 25=10" (DN250)<br>18=2" (DN50) 26=12" (DN300)<br>19=2 1/2" (DN65) 27=14" (DN350)<br>20=3" (DN80) 28=16" (DN400)<br>21=4" (DN100) 29=18" (DN450)<br>22=5" (DN125) 30=20"(DN500) |

执行器

| 9.字符<br>产品 | 10.字符<br>电压 | 11.字符<br>防爆等级 | 12+13.字符<br>扭矩（NM） | 14.字符<br>附件 | 15.字符<br>备用 |
|---|---|---|---|---|---|
| KL=基本型角行程<br>电动执行器 | 1=24V DC<br>2=24V AC<br>3=110V AC<br>4=220V AC<br>5=380V AC | 1=无<br>2=Exd ⅡBT4<br>（50-600NM） | 11=50<br>13=100<br>15=200<br>17=400<br>19=600<br>21=1000<br>23=2000 | 1=开关+干接点<br>2=调节型4~20mA | 1=无<br>2=电位计1K~10K<br>3=电流位置传感器4~20mA<br>4=过载保护（200-2000NM）<br>8=除湿保护 |

**Ordering example:** e.g. BTN24D2515-KL111111
=Flanged V-port Segment Ball Valve,WCB，CF8，Meatal，PN10，Wafer，DN25, Electric actuator,24V DC,None，50NM,On/Off type +Limit switch
Ball valve

| A.<br>Type | B.<br>Body | C.<br>Trim | D.<br>Seal | E.<br>Standard pressure | F.<br>Connection | G + H.<br>Size |
|---|---|---|---|---|---|---|
| BTN=Flanged V-port Segment Ball Valve | 2=WCB<br>3=CF8<br>4=CF8M | 3=CF8<br>9=Duplex Steel | D=Meatal<br>L=WC<br>M=STL | 2=PN10<br>3=PN16/150LB<br>4=PN25<br>5=PN40/300LB | 5=Wafer<br>6=GB Flange<br>7=DIN Flange<br>M=ASME Flange | 15=1" (DN25) 23=6" (DN150)<br>16=1 1/4"(DN32) 24=8" (DN200)<br>17=1 1/2"(DN40) 25=10" (DN250)<br>18=2" (DN50) 26=12" (DN300)<br>19=2 1/2" (DN65) 27=14" (DN350)<br>20=3" (DN80) 28=16" (DN400)<br>21=4" (DN100) 29=18" (DN450)<br>22=5" (DN125) 30=20"(DN500) |

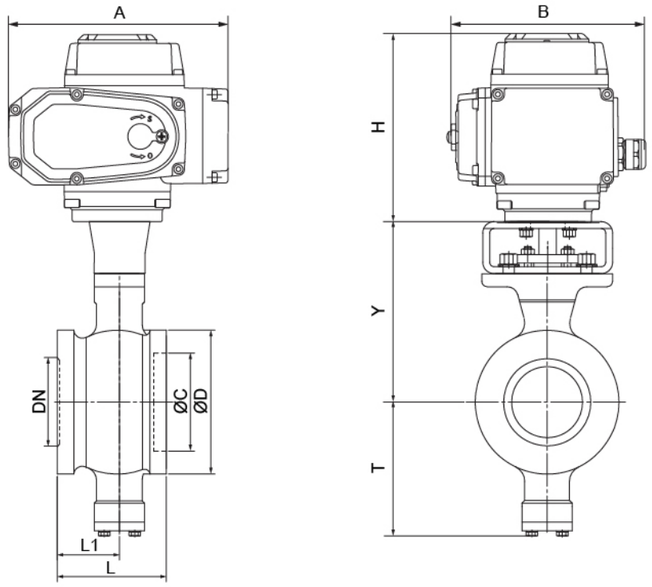
Actuator

| I .<br>Type | J.<br>Voltage | K.<br>Explosion proof grade | L+M.<br>Torque(NM) | N.<br>Extra | O.<br>Others |
|---|---|---|---|---|---|
| KL=Basic angle stroke Electric actuator | 1=24V DC<br>2=24V AC<br>3=110V AC<br>4=220V AC<br>5=380V AC | 1=None<br>2=Exd ⅡBT4<br>（50-600NM） | 11=50<br>13=100<br>15=200<br>17=400<br>19=600<br>21=1000<br>23=2000 | 1=On/Off type +Limit switch<br>2=Modulante type 4~20mA | 1=No<br>2=1K~10K potentiometer<br>3=Current position sensor 4~20mA<br>4=Overload protection (200-2000NM)<br>8=Dehumidification |

## 尺寸/Dimension

EICMATION®

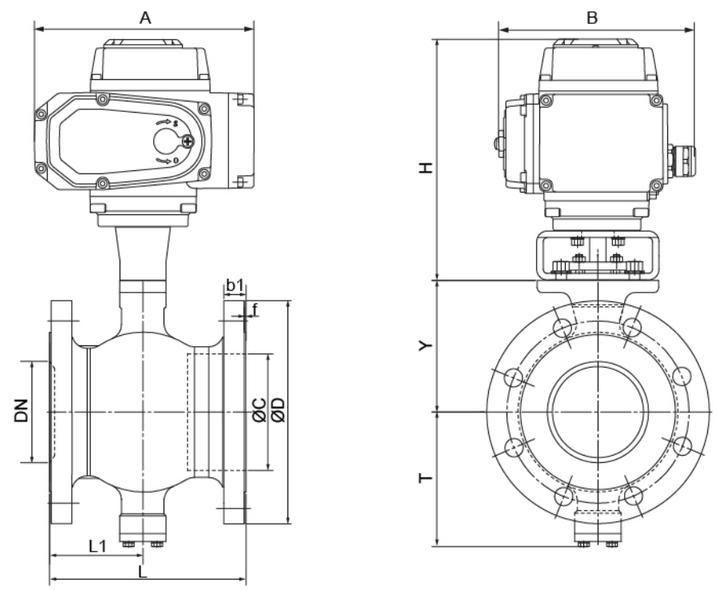
### 对夹式/Wafer




PN16/150LB

| DN | L | L1 | Actuator | | H | A | B | ØD | ØC | T | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Model | Torque(NM) | | | | | | | |
| 25 | 50 | 30 | KL121111 | 50 | 132 | 170 | 120 | 68 | 38 | 81 | 175 |
| | | | KL111111 | 50 | 137 | 165 | 140 | | | | |
| 32 | 60 | 35 | KL121311 | 100 | 150 | 217 | 139 | 76 | 45 | 86 | 178 |
| | | | KL111311 | 100 | 168 | 211 | 154 | | | | |
| 40 | 60 | 35 | KL121311 | 100 | 150 | 217 | 139 | 84 | 50 | 90 | 182 |
| | | | KL111311 | 100 | 168 | 211 | 154 | | | | |
| 50 | 75 | 43 | KL121511 | 200 | 150 | 217 | 139 | 100 | 62 | 93 | 194 |
| | | | KL111511 | 200 | 203 | 259 | 186 | | | | |
| 65 | 100 | 50 | KL121511 | 200 | 150 | 217 | 139 | 118 | 73 | 108 | 207 |
| | | | KL111511 | 200 | 203 | 259 | 186 | | | | |
| 80 | 100 | 57 | KL121511 | 200 | 150 | 217 | 139 | 132 | 90 | 123 | 228 |
| | | | KL111511 | 200 | 203 | 259 | 186 | | | | |
| 100 | 115 | 65 | KL121711 | 400 | 188 | 266 | 170 | 158 | 115 | 138 | 238 |
| | | | KL111711 | 400 | 203 | 259 | 186 | | | | |
| 125 | 129 | 78 | KL121711 | 400 | 188 | 266 | 170 | 184 | 134 | 148 | 255 |
| | | | KL111711 | 400 | 203 | 259 | 186 | | | | |
| 150 | 160 | 95 | KL121711 | 400 | 188 | 266 | 170 | 216 | 164 | 170 | 294 |
| | | | KL111711 | 400 | 203 | 259 | 186 | | | | |
| 200 | 200 | 120 | KL121911 | 600 | 188 | 266 | 170 | 268 | 206 | 200 | 325 |
| | | | KL111911 | 600 | 203 | 259 | 186 | | | | |
| 250 | 240 | 148 | KL112111 | 1000 | 193 | 283 | 229 | 326 | 260 | 240 | 377 |

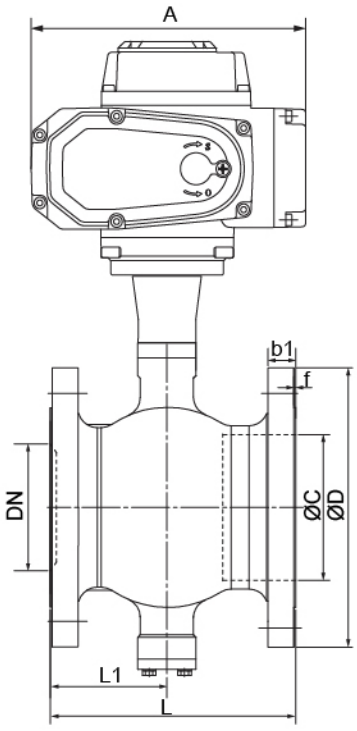
### 法兰式/Fange

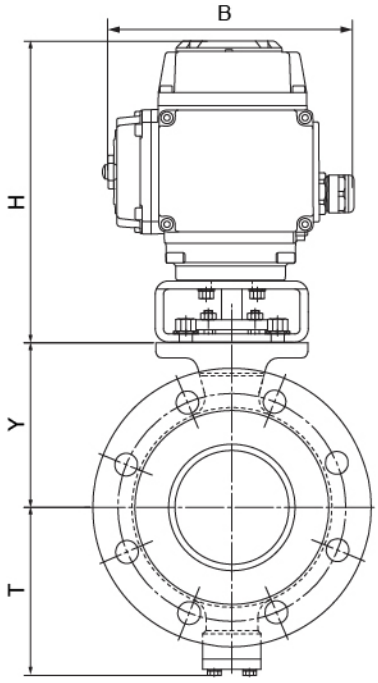



PN16

| DN | L | L1 | Actuator | | H | A | B | ØD | ØC | T | Y | b1 | f |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Model | Torque(NM) | | | | | | | | | |
| 25 | 102 | 51 | KL121111 | 50 | 132 | 170 | 120 | 115 | 38 | 81 | 175 | 16 | 2 |
| | | | KL111111 | 50 | 137 | 165 | 140 | | | | | | |
| 32 | 102 | 51 | KL121311 | 100 | 150 | 217 | 139 | 140 | 45 | 86 | 178 | 18 | 2 |
| | | | KL111311 | 100 | 168 | 211 | 154 | | | | | | |
| 40 | 114 | 57 | KL121311 | 100 | 150 | 217 | 139 | 150 | 50 | 90 | 182 | 18 | 2 |
| | | | KL111311 | 100 | 168 | 211 | 154 | | | | | | |
| 50 | 124 | 60 | KL121511 | 200 | 150 | 217 | 139 | 165 | 62 | 93 | 194 | 20 | 2 |
| | | | KL111511 | 200 | 203 | 259 | 186 | | | | | | |
| 65 | 145 | 70 | KL121511 | 200 | 150 | 217 | 139 | 185 | 73 | 108 | 207 | 20 | 2 |
| | | | KL111511 | 200 | 203 | 259 | 186 | | | | | | |
| 80 | 165 | 75 | KL121511 | 200 | 150 | 217 | 139 | 200 | 90 | 123 | 228 | 20 | 2 |
| | | | KL111511 | 200 | 203 | 259 | 186 | | | | | | |
| 100 | 194 | 92 | KL121711 | 400 | 188 | 266 | 170 | 220 | 115 | 138 | 238 | 22 | 2 |
| | | | KL111711 | 400 | 203 | 259 | 186 | | | | | | |
| 125 | 194 | 97 | KL121711 | 400 | 188 | 266 | 170 | 250 | 134 | 148 | 255 | 22 | 2 |
| | | | KL111711 | 400 | 203 | 259 | 186 | | | | | | |
| 150 | 229 | 110 | KL121711 | 400 | 188 | 266 | 170 | 285 | 164 | 170 | 294 | 24 | 2 |
| | | | KL111711 | 400 | 203 | 259 | 186 | | | | | | |
| 200 | 243 | 120 | KL121911 | 600 | 188 | 266 | 170 | 340 | 206 | 200 | 325 | 24 | 2 |
| | | | KL111911 | 600 | 203 | 259 | 186 | | | | | | |
| 250 | 297 | 148 | KL112111 | 1000 | 193 | 283 | 229 | 405 | 260 | 240 | 377 | 26 | 2 |

## 法兰式/Flange




## 150LB

| DN | L | L1 | Actuator | | H | A | B | ØD | ØC | T | Y | b1 | f |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Model | Torque(NM) | | | | | | | | | |
| 1” | 102 | 51 | KL121111 | 50 | 132 | 170 | 120 | 108 | 38 | 81 | 175 | 14.5 | 2 |
| | | | KL111111 | 50 | 137 | 165 | 140 | | | | | | |
| 11/4” | 102 | 51 | KL121311 | 100 | 150 | 217 | 139 | 115 | 45 | 86 | 178 | 14.5 | 2 |
| | | | KL111311 | 100 | 168 | 211 | 154 | | | | | | |
| 11/2” | 114 | 57 | KL121311 | 100 | 150 | 217 | 139 | 127 | 50 | 90 | 182 | 14.5 | 2 |
| | | | KL111311 | 100 | 168 | 211 | 154 | | | | | | |
| 2” | 124 | 60 | KL121511 | 200 | 150 | 217 | 139 | 152 | 62 | 93 | 194 | 16.3 | 2 |
| | | | KL111511 | 200 | 203 | 259 | 186 | | | | | | |
| 21/2” | 145 | 70 | KL121511 | 200 | 150 | 217 | 139 | 180 | 73 | 108 | 207 | 18 | 2 |
| | | | KL111511 | 200 | 203 | 259 | 186 | | | | | | |
| 3” | 165 | 75 | KL121511 | 200 | 150 | 217 | 139 | 191 | 90 | 123 | 228 | 19.5 | 2 |
| | | | KL111511 | 200 | 203 | 259 | 186 | | | | | | |
| 4” | 194 | 92 | KL121711 | 400 | 188 | 266 | 170 | 230 | 115 | 138 | 238 | 24 | 2 |
| | | | KL111711 | 400 | 203 | 259 | 186 | | | | | | |
| 5” | 194 | 97 | KL121711 | 400 | 188 | 266 | 170 | 255 | 134 | 148 | 255 | 24.3 | 2 |
| | | | KL111711 | 400 | 203 | 259 | 186 | | | | | | |
| 6” | 229 | 110 | KL121711 | 400 | 188 | 266 | 170 | 280 | 164 | 170 | 294 | 26 | 2 |
| | | | KL111711 | 400 | 203 | 259 | 186 | | | | | | |
| 8” | 243 | 120 | KL121911 | 600 | 188 | 266 | 170 | 340 | 206 | 200 | 325 | 29 | 2 |
| | | | KL111911 | 600 | 203 | 259 | 186 | | | | | | |
| 10” | 297 | 148 | KL112111 | 1000 | 193 | 283 | 229 | 405 | 260 | 240 | 377 | 30.6 | 2 |