

调速阀

PSB系列(带刻度)



► 技术参数

|             |      |             |                        |
|-------------|------|-------------|------------------------|
| 工作介质        | 压缩空气 | 最低使用压力(MPa) | 0.1                    |
| 保证耐压力(MPa)  | 1.5  | 环境温度及使用流体温度 | -5~60℃（未冻结）            |
| 最高使用压力(MPa) | 1    | 适合接管材质      | FEP、PFA、尼龙、软尼龙、聚氨酯、聚烯烃 |

※ 请注意使用接管的最高使用压力

► 型号

| 型号               | 螺纹规格          | 密封方式                   | 适合接管外径 |   |   |    |    |        |       |        |       |       |
|------------------|---------------|------------------------|--------|---|---|----|----|--------|-------|--------|-------|-------|
|                  |               |                        | 公制尺寸   |   |   |    |    | 英制尺寸   |       |        |       |       |
|                  |               |                        | 4      | 6 | 8 | 10 | 12 | ø5/32" | ø1/4" | ø5/16" | ø3/8" | ø1/2" |
| PSB12□1-M5-□     | M5×0.8        | 密封垫密封                  | ●      | ● |   |    |    |        |       |        |       |       |
| PSB12□1-U10/32-□ | 10-32UNF      |                        |        |   |   |    | ●  | ●      |       |        |       |       |
| PSB22□1-□01-□    | R<br>G<br>NPT | 密封剂(R/NPT)<br>密封圈密封(G) |        | ● | ● |    |    |        | ●     | ●      |       |       |
| PSB22□1-□02-□    |               |                        |        | ● | ● |    |    | ●      | ●     | ●      |       |       |
| PSB32□1-□03-□    |               |                        |        |   | ● |    |    |        | ●     | ●      | ●     |       |
| PSB42□1-□04-□    |               |                        |        |   |   |    | ●  |        |       |        | ●     | ●     |

※ 关于排气节流型、进气节流型的外观，可通过主体上的流向记号区分

► 流量及声速传导

| 型号                     |      | PSB12□1-M5-□ | PSB12□1-U10/32-□ | PSB22□1-□01-□         | PSB22□1-□02-□                     | PSB32□1-□03-□          | PSB42□1-□04-□          |
|------------------------|------|--------------|------------------|-----------------------|-----------------------------------|------------------------|------------------------|
| 接管外径                   |      | ø4, ø6       | ø5/32", ø1/4"    | ø6, ø1/4", ø8, ø5/16" | ø6, ø1/4", ø8, ø5/16", ø10, ø3/8" | ø8, ø5/16", ø10, ø3/8" | ø10, ø3/8", ø12, ø1/2" |
| C值：声速流导<br>dm³/(s·bar) | 自由流动 | 0.3          | 0.3              | 0.7                   | 1.4                               | 2.7                    | 2.9                    |
|                        | 控制流动 | 0.3          | 0.3              | 0.7                   | 1.8                               | 2.8                    | 4.9                    |
| b值：临界压力比               | 自由流动 | 0.2          | 0.2              | 0.25                  | 0.3                               | 0.25                   | 0.25                   |
|                        | 控制流动 | 0.4          | 0.4              | 0.2                   | 0.3                               | 0.20                   | 0.20                   |

※ C值、b值是控制流动针阀全开状态及自由流动的针阀全闭状态时的值

► 选型表

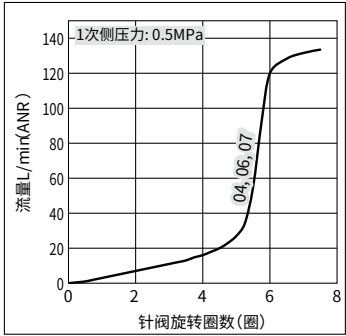
|                 |        |     |  |   |  |   |   |  |   |  |  |  |
|-----------------|--------|-----|--|---|--|---|---|--|---|--|--|--|
| 系列              | 代码     | PSB |  | 2 |  | 1 | - |  | - |  |  |  |
| 金属控制阀           | 代码     | PSB |  |   |  |   |   |  |   |  |  |  |
| 尺寸              | 代码     |     |  |   |  |   |   |  |   |  |  |  |
| M5×0.8 10-32UNF | 1      |     |  |   |  |   |   |  |   |  |  |  |
| 1/8,1/4         | 2      |     |  |   |  |   |   |  |   |  |  |  |
| 3/8             | 3      |     |  |   |  |   |   |  |   |  |  |  |
| 1/2             | 4      |     |  |   |  |   |   |  |   |  |  |  |
| 控制方式            | 代码     |     |  |   |  |   |   |  |   |  |  |  |
| 排气节流            | 0      |     |  |   |  |   |   |  |   |  |  |  |
| 进气节流            | 1      |     |  |   |  |   |   |  |   |  |  |  |
| 螺纹种类            | 代码     |     |  |   |  |   |   |  |   |  |  |  |
| R               | -      |     |  |   |  |   |   |  |   |  |  |  |
| NPT             | N      |     |  |   |  |   |   |  |   |  |  |  |
| G               | G      |     |  |   |  |   |   |  |   |  |  |  |
| 连接螺纹            | 代码     |     |  |   |  |   |   |  |   |  |  |  |
| M5×0.8          | M5     |     |  |   |  |   |   |  |   |  |  |  |
| 10-32UNF        | U10/32 |     |  |   |  |   |   |  |   |  |  |  |
| 1/8             | 01     |     |  |   |  |   |   |  |   |  |  |  |
| 1/4             | 02     |     |  |   |  |   |   |  |   |  |  |  |
| 3/8             | 03     |     |  |   |  |   |   |  |   |  |  |  |
| 1/2             | 04     |     |  |   |  |   |   |  |   |  |  |  |

|                |     |
|----------------|-----|
| 可选项            | 代码  |
| 黄铜外部:镀镍(一般环境)  | H   |
| 黄铜外部:无镀层(焊接环境) | BH  |
| 密封方式           | 代码  |
| 无密封剂           | 无记号 |
| 带密封剂           | S   |
| 管外径            | 代码  |
| ø4             | 04  |
| ø6             | 06  |
| ø8             | 08  |
| ø10            | 10  |
| ø12            | 12  |

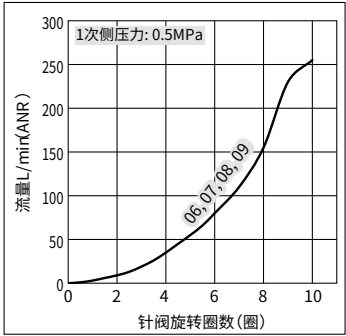
※ 英制尺寸请咨询PLIEM

► 流量特性 - 针阀

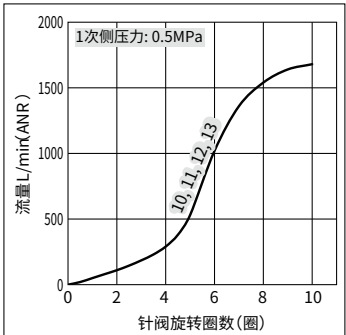
PSB12 □1-M5-□



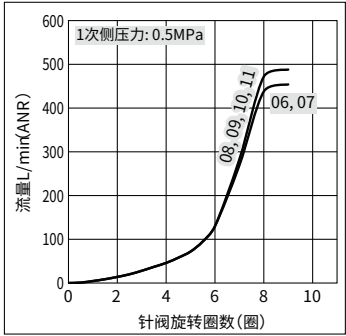
PSB22 □1-01-□



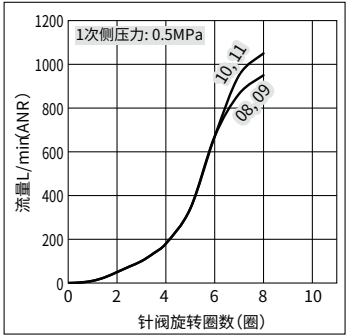
PSB42 □1-04-□



PSB22 □1-02-□



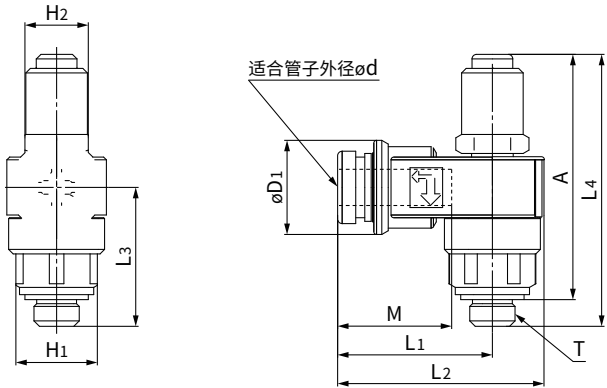
PSB32 □1-03-□



※ 流量特性是代表值。  
图中流量特性上的数字表示适合管子外径的型号记号。

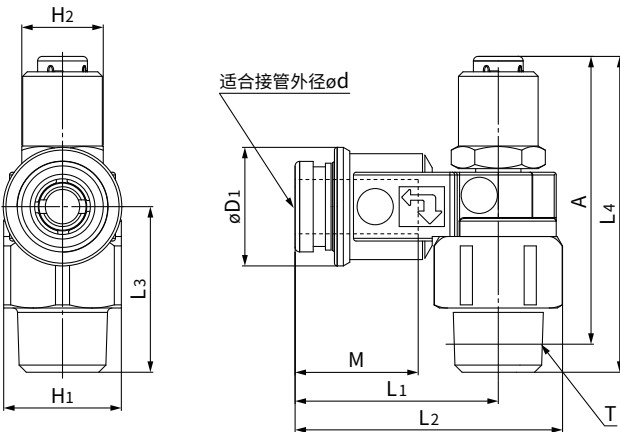
► 尺寸图

螺纹种类 M5



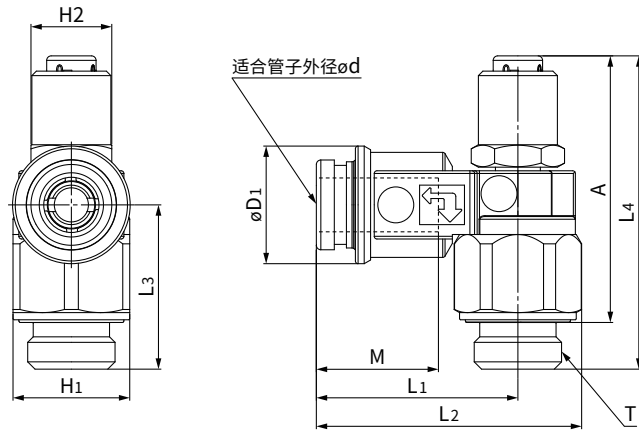
| 型号             | d | T      | H1 | H2 | D1   | A <sub>max</sub> | L1   | L2   | L3   | L4 <sub>max</sub> | M    | 重量(g) |
|----------------|---|--------|----|----|------|------------------|------|------|------|-------------------|------|-------|
| PSB12□1-M5-04H | 4 | M5×0.8 | 9  | 7  | 10.4 | 30.1             | 17.1 | 22.8 | 15.4 | 33.1              | 12.6 | 12    |
| PSB12□1-M5-06H | 6 |        |    |    | 13.1 |                  | 20.8 | 26.5 | 14.2 |                   | 13.6 | 35    |

螺纹种类 R, NPT



| 型号             | d  | T    | H1 | H2 | D1   | A <sub>max</sub> | L1   | L2   | L3   | L4 <sub>max</sub> | M    | 重量(g) |
|----------------|----|------|----|----|------|------------------|------|------|------|-------------------|------|-------|
| PSB22□1-01-06H | 6  | R1/8 | 13 | 9  | 13.1 | 35.7             | 22.5 | 29.6 | 18.3 | 38.7              | 13.6 | 21    |
| PSB22□1-01-08H | 8  |      |    |    | 15.1 |                  | 25.4 | 32.5 | 23.2 |                   | 16.1 | 24    |
| PSB22□1-02-06H | 6  | R1/4 | 17 | 12 | 13.1 | 39.3             | 24.7 | 34.0 | 26.9 | 44.8              | 13.6 | 34    |
| PSB22□1-02-08H | 8  |      |    |    | 15.1 |                  | 28.4 | 37.7 | 33.5 |                   | 16.1 | 36    |
| PSB22□1-02-10H | 10 |      |    |    | 18.0 |                  | 30.8 | 40.1 | 15.4 |                   | 17.0 | 41    |
| PSB32□1-03-08H | 8  | R3/8 | 22 | 14 | 15.1 | 45.9             | 30.0 | 41.9 | 14.2 | 51.1              | 16.1 | 70    |
| PSB32□1-03-10H | 10 |      |    |    | 18.0 |                  | 32.1 | 44.0 | 15.4 |                   | 17.0 | 76    |
| PSB42□1-04-10H | 10 | R1/2 | 27 | 17 | 18.0 | 53.8             | 34.4 | 48.8 | 14.2 | 60.2              | 17.0 | 122   |
| PSB42□1-04-12H | 12 |      |    |    | 21.0 |                  | 36.3 | 50.7 | 15.4 |                   | 18.6 | 131   |

螺纹种类 G



| 型号              | d  | T    | H1 | H2 | D1   | A <sub>max</sub> | L1   | L2   | L3   | L4 <sub>max</sub> | M    | 重量(g) |
|-----------------|----|------|----|----|------|------------------|------|------|------|-------------------|------|-------|
| PSB22□1-G01-06H | 6  | G1/8 | 13 | 9  | 13.1 | 33.2             | 22.5 | 29.6 | 18.3 | 38.7              | 13.6 | 22    |
| PSB22□1-G01-08H | 8  |      |    |    | 15.1 |                  | 25.4 | 32.5 |      |                   | 16.1 | 25    |
| PSB22□1-G02-06H | 6  | G1/4 | 17 | 12 | 13.1 | 35.9             | 24.7 | 34.0 | 22   | 43.6              | 13.6 | 36    |
| PSB22□1-G02-08H | 8  |      |    |    | 15.1 |                  | 28.4 | 37.7 |      |                   | 16.1 | 39    |
| PSB22□1-G02-10H | 10 |      |    |    | 18.0 |                  | 30.8 | 40.1 |      |                   | 17.0 | 43    |
| PSB32□1-G03-08H | 8  | G3/8 | 22 | 14 | 15.1 | 44.0             | 30.0 | 41.9 | 26.9 | 51.1              | 16.1 | 72    |
| PSB32□1-G03-10H | 10 |      |    |    | 18.0 |                  | 32.1 | 44.0 |      |                   | 17.0 | 78    |
| PSB42□1-G04-10H | 10 | G1/2 | 27 | 17 | 18.0 | 51.5             | 34.4 | 48.8 | 33.5 | 60.2              | 17.0 | 130   |
| PSB42□1-G04-12H | 12 |      |    |    | 21.0 |                  | 36.3 | 50.7 |      |                   | 18.6 | 139   |