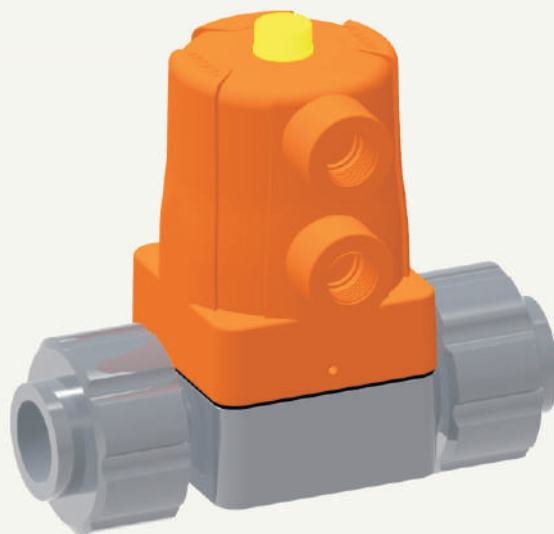


## 气动隔膜阀 MV300

# 高性能 低成本



KOSCN Control Valves MV300经济型隔膜阀为紧凑的一体式气动执行器结构，独特的鸭嘴流道设计确保最佳的流通能力。在耐腐蚀的前提下，我们提供多样化材质的选配以保证高性价比的应用。

### 方便安装和维护

- \* 一体化紧凑设计确保在有限的空间安装
- \* 全塑的外观结构，无外露金属件和螺栓，美观耐腐蚀
- \* 膜片内嵌设计，使之受力匀称，延长寿命
- \* 优越的润滑性能，免维护
- \* G螺纹双由令，和国际市场阀门保持一致安装长度
- \* 集成可视位置反馈，且易于观察
- \* 激光刻码，长久使用后标识清晰保证

### 高安全性能

- \* 阀体和气动执行器过压余量设计，保证安全性应用
- \* 多种材质可选，可以耐受高温和腐蚀
- \* 优化的曲径可以保证阀门在高流速应用时的有效闭合
- \* 膜片止挡采用耐高温设计，完善密闭性能

### 高灵活性

- \* 执行机构可选NC、NO、DA
- \* 膜片EPDM、FPM、PTFE，选用于水、酸和碱性介质
- \* 阀体PVC-U、CPVC、PP-H、PVDF
- \* 接口标准有公制、美标、日标
- \* 高质量和高可靠性，可实现高操作次数

### 最佳流通性能

- \* 良好的线性流体特性可以实现简单控制
- \* 平滑过度的鸭嘴流道，实现比传统隔膜阀的双倍流通能力
- \* 适合含有少量颗粒和固体的介质

### 应用

- \* 加药
- \* 电子半导体
- \* 光伏
- \* 集成电路板
- \* 水处理
- \* 离子回收

## 技术特性

尺寸 DN 15、G 3/8、Flare LINK 3/4

压力等级 PN 6

阀体  
PVC-U (聚氯乙烯)  
CPVC (氯化聚氯乙烯)  
PP-H (均聚聚丙烯)  
PVDF (聚偏二氟乙烯)  
SUS

膜片  
EPDM  
EPDM-PER  
FPM  
FPM-70  
PTFE覆合 EPDM

壳体 PP-GF 橙黄

连接  
双由令 G 螺纹标准  
内螺纹标准  
Flare LINK 标准

流量 流通能力比市场传统堰坝式阀门更大

标准  
DIN 8063  
ISO 9393

### 流通能力

以下流量基于20°C清水介质1bar 压差时数据

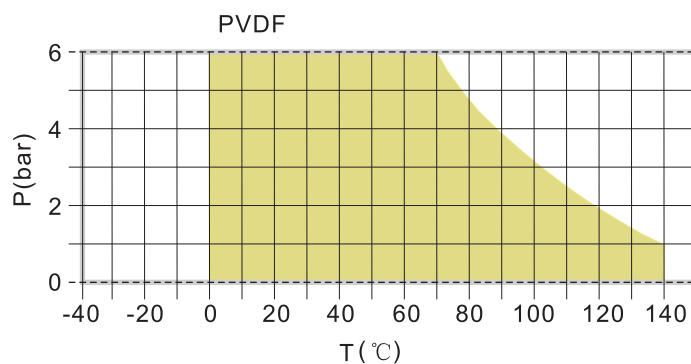
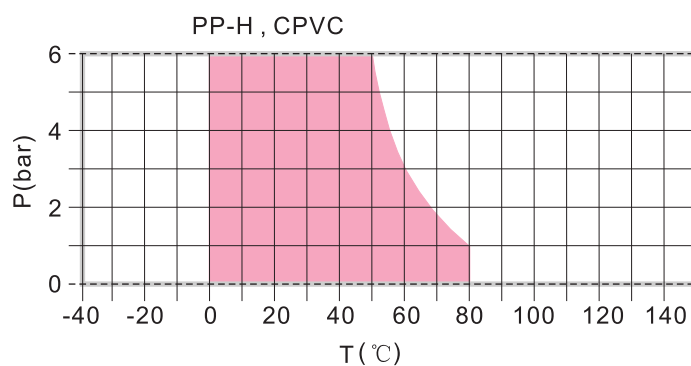
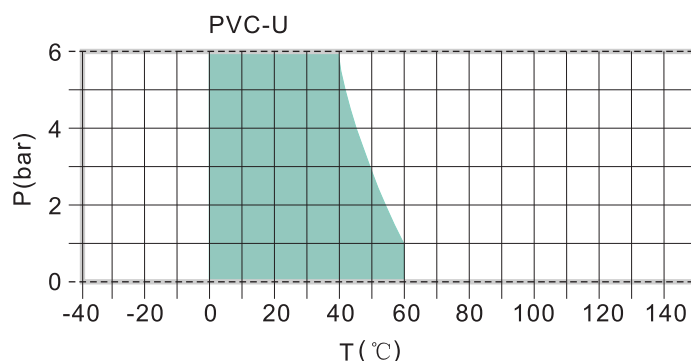
| 材质        | DN | d  | inch | Kv 100 |      |
|-----------|----|----|------|--------|------|
|           |    |    |      | l/min  | m³/h |
| PVC-U     | 15 | 20 | 1/2" | 125    | 7,5  |
| CPVC      | 15 | 20 | 1/2" | 125    | 7,5  |
| PP-H      | 15 | 20 | 1/2" | 125    | 7,5  |
| PVDF      | 15 | 20 | 1/2" | 125    | 7,5  |
| V2A1,4571 | 15 | 20 | 1/2" | 90     | 5,4  |

$C_v = k_v \times 0,07$  ;  $F_v = k_v \times 0,0585$

Kv (l/min) ; Cv (gal/min) US ; Fv (gal/min) GB

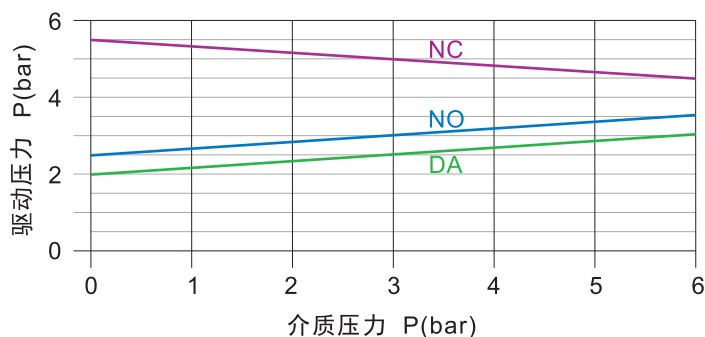
### 压力/温度曲线

以下温度曲线基于清水类介质及25年寿命

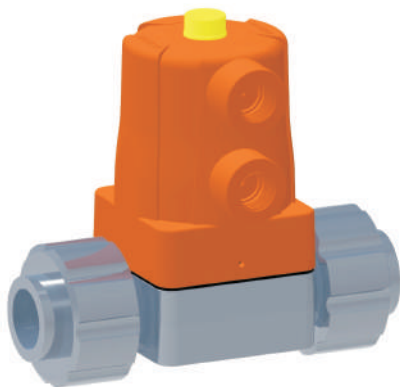


### 启闭驱动压力

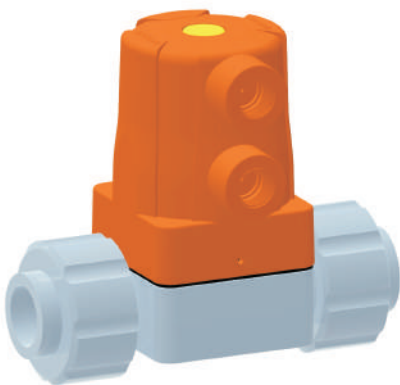
驱动压力空气的输入值, 最大限制 6 bar



MV300 , 紧凑型气动薄膜阀, PNEUMATIC

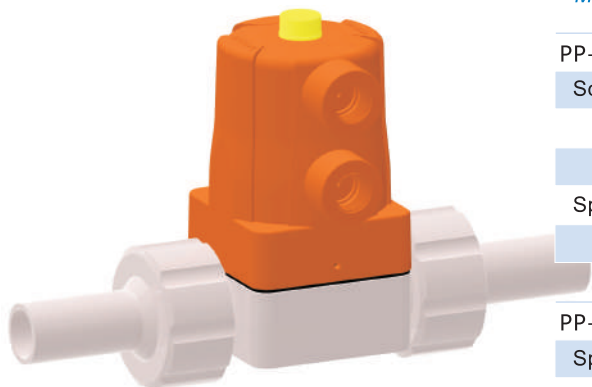


| Material                 | Diaphragm | Sealing | Ident No.    |              |              |
|--------------------------|-----------|---------|--------------|--------------|--------------|
|                          |           |         | NC           | NO           | DA           |
| PVC-U 双由令 Union DN15/d20 |           |         |              |              |              |
| Socket DIN               | EPDM      | EPDM    | 300.022.1020 | 300.024.1020 | 300.026.1020 |
|                          | FPM       | FPM     | 300.042.1020 | 300.044.1020 | 300.046.1020 |
|                          | PTFE      | FPM     | 300.062.1020 | 300.064.1020 | 300.066.1020 |
| Socket JIS               | EPDM      | EPDM    | 300.022.1220 | 300.024.1220 | 300.026.1220 |
|                          | FPM       | FPM     | 300.042.1220 | 300.044.1220 | 300.046.1220 |
|                          | PTFE      | FPM     | 300.062.1220 | 300.064.1220 | 300.066.1220 |
| Socket ANSI              | EPDM      | EPDM    | 300.022.1420 | 300.024.1420 | 300.026.1420 |
|                          | FPM       | FPM     | 300.042.1420 | 300.044.1420 | 300.046.1420 |
|                          | PTFE      | FPM     | 300.062.1420 | 300.064.1420 | 300.066.1420 |
| PVC-U 内螺纹 Thread G3/8    |           |         |              |              |              |
| Thread                   | EPDM      |         | 300.022.9610 | 300.024.9610 | 300.026.9610 |
|                          | FPM       |         | 300.042.9610 | 300.044.9610 | 300.046.9610 |
|                          | PTFE      |         | 300.072.9610 | 300.074.9610 | 300.076.9610 |

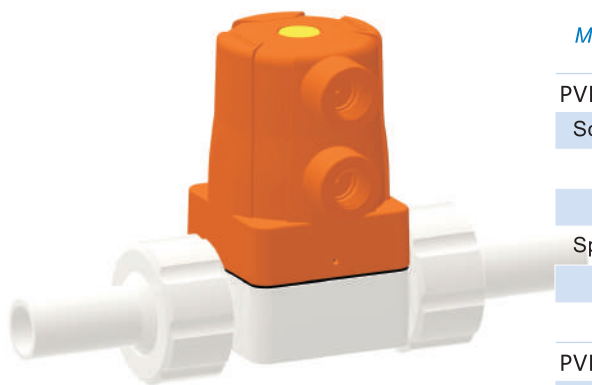


| Material                 | Diaphragm | Sealing | Ident No.    |              |              |
|--------------------------|-----------|---------|--------------|--------------|--------------|
|                          |           |         | NC           | NO           | DA           |
| PVC-C 双由令 Union DN15/d20 |           |         |              |              |              |
| Socket DIN               | EPDM      | EPDM    | 300.222.1020 | 300.224.1020 | 300.226.1020 |
|                          | FPM       | FPM     | 300.242.1020 | 300.244.1020 | 300.246.1020 |
|                          | PTFE      | FPM     | 300.262.1020 | 300.264.1020 | 300.266.1020 |
| Socket JIS               | EPDM      | EPDM    | 300.222.1220 | 300.224.1220 | 300.226.1220 |
|                          | FPM       | FPM     | 300.242.1220 | 300.244.1220 | 300.246.1220 |
|                          | PTFE      | FPM     | 300.262.1220 | 300.264.1220 | 300.266.1220 |
| Socket ANSI              | EPDM      | EPDM    | 300.222.1420 | 300.224.1420 | 300.226.1420 |
|                          | FPM       | FPM     | 300.242.1420 | 300.244.1420 | 300.246.1420 |
|                          | PTFE      | FPM     | 300.262.1420 | 300.264.1420 | 300.266.1420 |
| PVC-C 内螺纹 Thread G3/8    |           |         |              |              |              |
| Thread                   | EPDM      |         | 300.222.9610 | 300.224.9610 | 300.226.9610 |
|                          | FPM       |         | 300.242.9610 | 300.244.9610 | 300.246.9610 |
|                          | PTFE      |         | 300.272.9610 | 300.274.9610 | 300.276.9610 |

MV300, 紧凑型气动薄膜阀, PNEUMATIC



| Material                      | Diaphragm | Sealing | Ident No.    |              |              |
|-------------------------------|-----------|---------|--------------|--------------|--------------|
|                               |           |         | NC           | NO           | DA           |
| PP-H 双由令 Union DN15/d20       |           |         |              |              |              |
| Socket DIN                    | EPDM      | EPDM    | 300.422.1020 | 300.424.1020 | 300.426.1020 |
|                               | FPM       | FPM     | 300.442.1020 | 300.444.1020 | 300.446.1020 |
|                               | PTFE      | FPM     | 300.462.1020 | 300.464.1020 | 300.466.1020 |
| Spigot Butt-IR                | EPDM      | EPDM    | 300.422.3020 | 300.424.3020 | 300.426.3020 |
|                               | FPM       | FPM     | 300.442.3020 | 300.444.3020 | 300.446.3020 |
|                               | PTFE      | FPM     | 300.462.3020 | 300.464.3020 | 300.466.3020 |
| PP-Natural 双由令 Union DN15/d20 |           |         |              |              |              |
| Spigot Butt-IR                | EPDM      | EPDM    | 300.522.3020 | 300.524.3020 | 300.526.3020 |
|                               | FPM       | FPM     | 300.542.3020 | 300.544.3020 | 300.546.3020 |
|                               | PTFE      | FPM     | 300.562.3020 | 300.564.3020 | 300.566.3020 |
| PP-H 内螺纹 Thread G3/8          |           |         |              |              |              |
| Thread                        | EPDM      |         | 300.422.9610 | 300.424.9610 | 300.426.9610 |
|                               | FPM       |         | 300.442.9610 | 300.444.9610 | 300.446.9610 |
|                               | PTFE      |         | 300.472.9610 | 300.474.9610 | 300.476.9610 |
| PP-H 扩口Flare LINK 3/4 "       |           |         |              |              |              |
| Flare LINK                    | EPDM      |         | 300.422.0419 | 300.424.0419 | 300.426.9619 |
|                               | FPM       |         | 300.442.0419 | 300.444.0419 | 300.446.0419 |
|                               | PTFE      |         | 300.472.0419 | 300.474.0419 | 300.476.0419 |
| PP-Natural 扩口 Flare LINK 3/4" |           |         |              |              |              |
| Flare LINK                    | EPDM      |         | 300.522.0419 | 300.524.0419 | 300.526.9619 |
|                               | FPM       |         | 300.542.0419 | 300.544.0419 | 300.546.0419 |
|                               | PTFE      |         | 300.572.0419 | 300.574.0419 | 300.576.0419 |



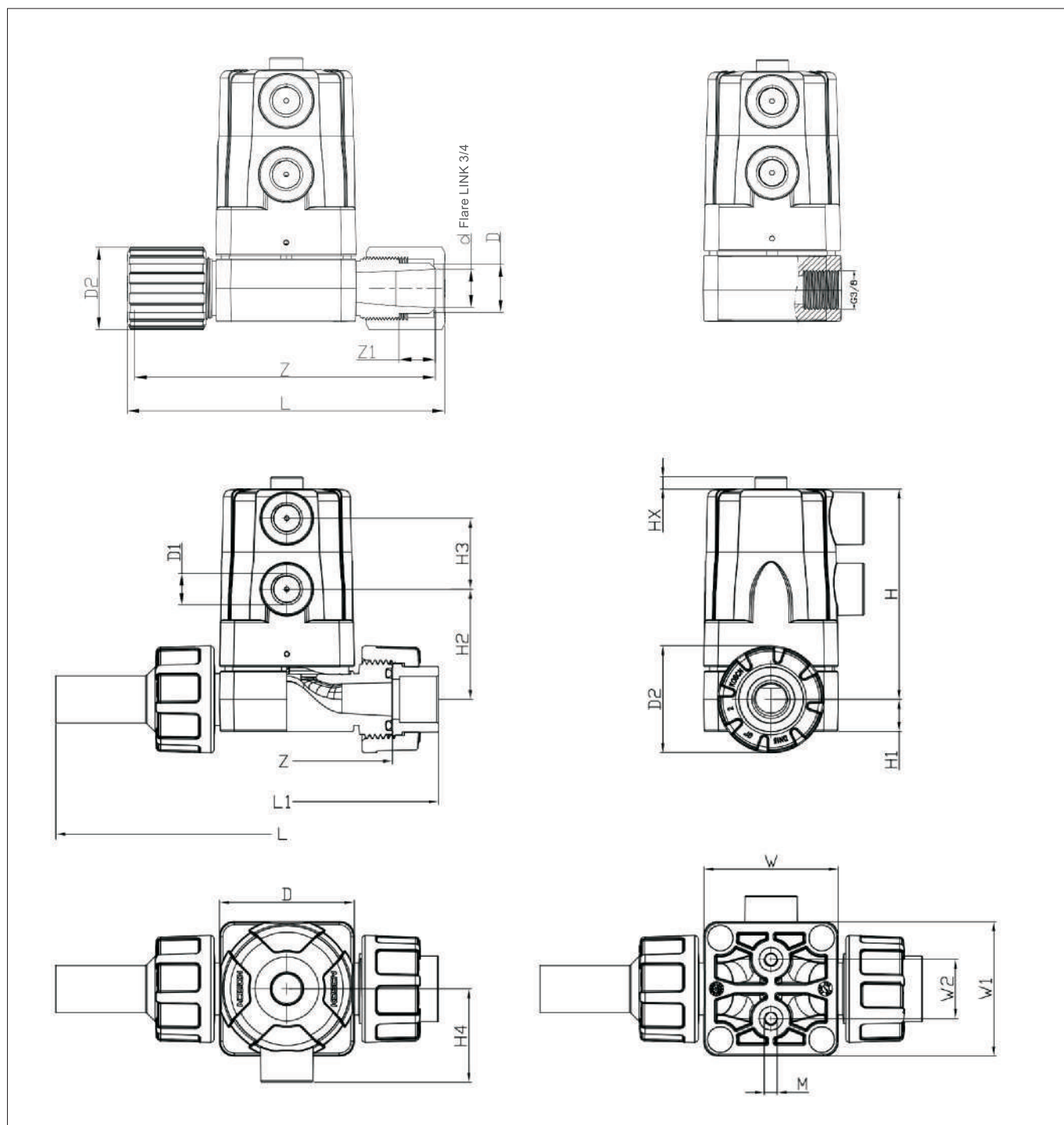
| Material                | Diaphragm | Sealing | Ident No.    |              |              |
|-------------------------|-----------|---------|--------------|--------------|--------------|
|                         |           |         | NC           | NO           | DA           |
| PVDF 双由令 Union DN15/d20 |           |         |              |              |              |
| Socket DIN              | EPDM      | EPDM    | 300.622.1020 | 300.624.1020 | 300.626.1020 |
|                         | FPM       | FPM     | 300.642.1020 | 300.644.1020 | 300.646.1020 |
|                         | PTFE      | FPM     | 300.662.1020 | 300.664.1020 | 300.666.1020 |
| Spigot Butt-IR          | EPDM      | EPDM    | 300.622.3020 | 300.624.3020 | 300.626.3020 |
|                         | FPM       | FPM     | 300.642.3020 | 300.644.3020 | 300.646.3020 |
|                         | PTFE      | FPM     | 300.662.3020 | 300.664.3020 | 300.666.3020 |
| PVDF内螺纹 Thread G3/8     |           |         |              |              |              |
| Thread                  | EPDM      |         | 300.622.9610 | 300.624.9610 | 300.626.9610 |
|                         | FPM       |         | 300.642.9610 | 300.644.9610 | 300.646.9610 |
|                         | PTFE      |         | 300.672.9610 | 300.674.9610 | 300.676.9610 |
| PVDF扩口 Flare LINK 3/4 " |           |         |              |              |              |
| Flare LINK              | EPDM      |         | 300.622.0419 | 300.624.0419 | 300.626.9619 |
|                         | FPM       |         | 300.642.0419 | 300.644.0419 | 300.646.0419 |
|                         | PTFE      |         | 300.672.0419 | 300.674.0419 | 300.676.0419 |

MV300 , 紧凑型气动薄膜阀 , PNEUMATIC



| Material            | Diaphragm | Sealing | Ident No.    |              |              |
|---------------------|-----------|---------|--------------|--------------|--------------|
|                     |           |         | NC           | NO           | DA           |
| SUS 不锈钢 Thread G3/8 |           |         |              |              |              |
| Thread              | EPDM      |         | 300.922.9610 | 300.924.9610 | 300.926.9610 |
|                     | FPM       |         | 300.942.9610 | 300.944.9610 | 300.946.9610 |
|                     | PTFE      |         | 300.972.9610 | 300.974.9610 | 300.976.9610 |

## ✚ 外形尺寸数据



| d   | D<br>(mm) | D1_G | D2<br>(mm) | H<br>(mm) | H1<br>(mm) | H2<br>(mm) | H3<br>(mm) | H4<br>(mm) | L<br>(mm) | L1<br>(mm) | M<br>(mm) | Z<br>(mm) | W<br>(mm) | W1<br>(mm) | W2<br>(mm) | Lift = Hx<br>(mm) |
|-----|-----------|------|------------|-----------|------------|------------|------------|------------|-----------|------------|-----------|-----------|-----------|------------|------------|-------------------|
| 20  | 57        | 1/4  | 46         | 89        | 14         | 46         | 30         | 39         | 198       | 130        | 6         | 89        | 57        | 57         | 25         | 6                 |
| 3/8 | 57        | 1/4  | -          | 89        | 14         | 46         | 30         | 39         | -         | -          | 6         | -         | 57        | 57         | 25         | 6                 |
| 3/4 | 57        | 1/4  | 34         | 89        | 14         | 46         | 30         | 39         | 128       | -          | 6         | 121       | 57        | 57         | 25         | 6                 |

以上尺寸技术数据不具有约束力。它们既不构成明确的特性保证，也不保证永久性不变。将随着产品的改进或升级而改变。此适用于一般销售条款。

# 选型指南

MV300  
紧凑型气动薄膜隔膜阀

|                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                       | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 产品系列                  | 3                    | 0                    | 0                    |                      |                      |                      |                      |                      |                      |                      |
| 主体材质                  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| PVC-U                 |                      |                      |                      | 0                    |                      |                      |                      |                      |                      |                      |
| PVC-C                 |                      |                      |                      | 2                    |                      |                      |                      |                      |                      |                      |
| PPH                   |                      |                      |                      | 4                    |                      |                      |                      |                      |                      |                      |
| PP-N                  |                      |                      |                      | 5                    |                      |                      |                      |                      |                      |                      |
| PVDF                  |                      |                      |                      | 6                    |                      |                      |                      |                      |                      |                      |
| SUS                   |                      |                      |                      | 9                    |                      |                      |                      |                      |                      |                      |
| 膜片和密封                 |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| EPDM(PER)-EPDM        |                      |                      |                      | 2                    |                      |                      |                      |                      |                      |                      |
| FPM(70)-FPM           |                      |                      |                      | 4                    |                      |                      |                      |                      |                      |                      |
| PTFE-EPDM             |                      |                      |                      | 5                    |                      |                      |                      |                      |                      |                      |
| PTFE-FPM              |                      |                      |                      | 6                    |                      |                      |                      |                      |                      |                      |
| PTFE                  |                      |                      |                      | 7                    |                      |                      |                      |                      |                      |                      |
| 控制方式                  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| NC                    |                      |                      |                      |                      | 2                    |                      |                      |                      |                      |                      |
| NO                    |                      |                      |                      |                      | 4                    |                      |                      |                      |                      |                      |
| DA                    |                      |                      |                      |                      | 6                    |                      |                      |                      |                      |                      |
| 接口形式                  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Flare LINK            |                      |                      |                      |                      |                      | 0                    |                      |                      |                      |                      |
| Union: Socket-end     |                      |                      |                      |                      |                      | 1                    |                      |                      |                      |                      |
| Union: Spigot Bitt+IR |                      |                      |                      |                      |                      | 3                    |                      |                      |                      |                      |
| Thread                |                      |                      |                      |                      |                      | 9                    |                      |                      |                      |                      |
| 接口标准                  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| DIN                   |                      |                      |                      |                      |                      |                      | 0                    |                      |                      |                      |
| JIS                   |                      |                      |                      |                      |                      |                      | 2                    |                      |                      |                      |
| ANSI                  |                      |                      |                      |                      |                      |                      | 4                    |                      |                      |                      |
| G                     |                      |                      |                      |                      |                      |                      | 6                    |                      |                      |                      |
| 接口尺寸                  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 3/8                   |                      |                      |                      |                      |                      |                      |                      |                      | 10                   |                      |
| 3/4                   |                      |                      |                      |                      |                      |                      |                      |                      | 19                   |                      |
| d20, DN15             |                      |                      |                      |                      |                      |                      |                      |                      | 20                   |                      |

