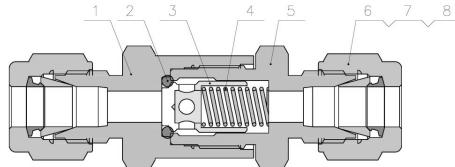


## DV系列 通用型紧凑式单向阀

### DV series Universal compact check valve



#### 功能简介

DV系列是一款通用型紧凑式单向阀，常用于在线分析，防止流体反向流动保护设备仪器，单向阀出厂设定好开启压力，常态为关闭，当系统压力达到设定值时打开，当下游压力大于上游压力时关闭，流体停止反向通过。

#### 性能特点

- 用于控制流体介质的流动方向；
- DV系列最高工作压力可达3000psig(207bar)
- 开启压力不可调节，提供多种开启压力可选择:0.05bar、0.08bar、0.34bar、0.68bar、1.7bar；
- 适用于气体及液体，广泛应用于多种流体系统领域；
- 提供公制3mm~12mm，英制1/8in.~1/2in.卡套及管螺纹接口。

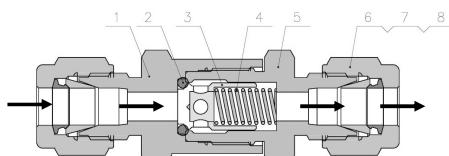
#### Functional Introduction

DV series is a universal compact check valve, commonly used in online analysis to prevent reverse flow of fluid to protect equipment and instruments. The check valve is factory-set with opening pressure, normally closed, opens when system pressure reaches the set value, closes when downstream pressure is greater than upstream pressure, and stops reverse flow of fluid.

#### Performance features

- Used to control the flow direction of fluid media;
- The maximum working pressure of DV series can reach 3000psig (207bar)
- The opening pressure cannot be adjusted, and a variety of opening pressures are available: 0.05bar, 0.08bar, 0.34bar, 0.68bar, 1.7bar;
- Suitable for gas and liquid, widely used in various fluid system fields;
- Provide metric 3mm~12mm, imperial 1/8in.~1/2in. ferrule and pipe thread interface.

#### 零件材料/Parts material



号码	零件/Parts	材料/Material
1	入口阀体/Inlet valve body	316SS
2	O型圈/O-ring	氟橡胶(标准配置) Fluororubber (standard configuration)
3	阀芯/Valve core	316SS
4	弹簧/Spring	SUS304
5	出口阀体/Outlet valve body	316SS
6	前卡套/Front ferrule	316SS
7	后卡套/Rear ferrule	316SS
8	螺帽/Nut	316SS

## 温度及压力/Temperature and pressure

阀体材料		316SS	
系列		8mm管径以下	8mm及8mm管径以上
温度 (°C)	工作压力 psig (bar)	工作压力 psig (bar)	
-23 ~ 37	3000 (207)	2000 (138)	
~ 93	2580 (178)	1711 (118)	
~ 121	2436 (168)	1624 (112)	
~ 148	2320 (160)	1552 (107)	
~ 190	2175 (150)	1450 (100)	
~ 204	—	—	

注:以上数据是依据配置氟橡胶密封圈的不锈钢单向阀  
(连接卡套管接头时耐压等级还取决于钢管的耐压等级)  
**Note:** The above data is based on a stainless steel one-way valve equipped with a fluororubber seal ring  
(When connecting a ferrule fitting, the pressure rating also depends on the pressure rating of the steel pipe)

公称开启压力 (bar)	开启压力范围 (bar)	再密封压力 (bar)
0.05	0.21以下	0.42以下背压
0.08	0.28以下	0.35以下背压
0.34	0.21~0.63以下	0.14以下背压
0.68	0.49~1.1	0.21或以上上游压力
1.7	1.4~2.1	1.2以上上游压力

表格内容仅供参考 (以上数据是在室温20°C下测试得到)

### 开启压力和再密封压力

开启压力——当出口开始有流量显示时的入口压力

再密封压力——当出口无流量显示时的压力

※对于一段时间未使用的单向阀,初始开启压力会略高于设定压力,启闭数次后可恢复

The table contents are for reference only (the above data are obtained by testing at room temperature 20C)

### Opening pressure and resealing pressure

Opening pressure - the inlet pressure when the outlet starts to display flow

Resealing pressure - the pressure when the outlet has no flow display

※For a one-way valve that has not been used for a period of time, the initial opening pressure will be slightly higher than the set pressure, and it can be restored after opening and closing several times

## 选型指南/Selection Guide

HF	-	DV	-	K3	-	F	-	1			
阀门材料		阀门分类	入口/出口端接		O形圈材料	开启压力					
SS	316L不锈钢		单向阀大类	公制有: 3mm、6mm、8mm、10mm、12mm		N	丁腈橡胶(NBR)	1 0.05bar			
				英制有: 1/8"、1/4"、3/8"、1/2"		F	氟橡胶(FPM)	2 0.08bar			
						E	三元乙丙橡胶(EPDM)	3 0.34bar			
						Z	全氟橡胶(KZ)	4 0.68bar			
								5 1.7bar			

## 测试/Test

阀门出厂前均经过1000psi(69bar)氮气检漏,漏率不超过0.1std·cm3/min。

All valves are leak tested with 1000psi (69bar) nitrogen before leaving the factory, and the leakage rate does not exceed 0.1std·cm3/min.

## 应用及安全/Application and security

- 开启压力为单向阀出口有流体溢出时的输入压力,对于一段时间内未启动的阀门,开启压力可能会比设定值略高;
- 单向阀开启压力不可调,每个阀门出厂前均经过再关闭性能测试,以保证在适当的再密封压力内关闭;
- 注意阀体上指示流体方向的箭头,请勿使流体反向通过;
- 单向阀只适用于控制流体单向通过,请勿用作安全泄压装置。
- The opening pressure is the input pressure when fluid overflows from the outlet of the one-way valve. For valves that have not been activated for a period of time, the opening pressure may be slightly higher than the set value;
- The opening pressure of the one-way valve is not adjustable. Each valve undergoes a reclosing performance test before leaving the factory to ensure that it closes within the appropriate resealing pressure;
- Pay attention to the arrow indicating the direction of the fluid on the valve body, and do not allow the fluid to pass in the reverse direction;
- The one-way valve is only suitable for controlling the one-way passage of fluid, and should not be used as a safety pressure relief device.

## 禁示!/Prohibited!

- 用户在选型时调慎考虑材料兼容性、应用环境及产品参数等细节;
- 产品是否适用,安装、操作、维护是否安全便利,生产厂家和用户需各自承担相应的责任;
- 错误的选型、安装和使用可能会造成财产损失,甚至危及人身安全。
- When selecting a product, users should carefully consider details such as material compatibility, application environment, and product parameters;
- Whether the product is applicable, and whether the installation, operation, and maintenance are safe and convenient, the manufacturer and the user shall each bear the corresponding responsibilities;
- Wrong selection, installation, and use may cause property loss and even endanger personal safety.

本册产品有未列出的规格和参数,详情请咨询我们的销售工程师。

The products in this catalog have specifications and parameters not listed in this catalog.

Please consult our sales engineers for details.