

两位三通防混阀
Double seat mixproof valve



两位四通防混阀
Double seat 4 way unique mixproof valve



气动防混阀
Pneumatic anti-mixing valve



两位防混阀
Double seat divert mixproof valve



三通防混阀
3way mixproof valve



智能防混阀
Intelligent anti-mixing valve



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Synopsis 简介

◎ As the name implies mix-proof prevents the mixing of the incompatible fluids while enabling the safe processing of 2 distinct fluid at the same time. In order to maximize the efficiency of the operating complex operation automated piping system use these valves.

◎ 顾名思义，防混阀可以防止不相容流体的混合，同时安全地处理两种不同的流体。为了最大限度地提高操作复杂的自动化管道系统的效率，我们使用了这种阀门。



Description 设计说明

◎ This valve is composed of a self-drainable body which provides acid resistance as made up of stainless steel; This shape helps by offering a minimum resistance to the inline flow which in turn offers the minimum pressure drop. Due to the valves one-piece compact construction the space can be during the valve installation. Thanks to the open yoke system valve plug can easily be cleaned. The valves are water hammer safe because of the balanced valve stems.

◎ 该阀门由一个可自排水的阀体组成，阀体由不锈钢制成，具有耐酸性；这种形状有助于将管道内流动的阻力降至最低，从而将压降降至最低。由于阀门采用一体式紧凑结构，因此在安装阀门时可节省空间。由于采用了开放式轭系统，阀芯很容易清洗。由于采用了平衡阀杆，阀门不会产生水锤。



Working principle 工作原理

◎ The double-seat mixproof valve is remotely operated by compressed air. The valve is normally closed. This type of valve has two independent valve core seals. Under normal operating conditions, a leakage cavity connected to the atmosphere will be formed between the two seals. In the event of an occasional accident or product leakage, the product will flow into the leakage chamber and be discharged from the discharge port, without causing product contamination or mixing. When the valve is in the open state, the leakage cavity is closed, and there is no product spillage during normal operation of the valve. The transported product can therefore flow from one pipeline to another. This type of valve can be CIP cleaned.

◎ 基本型双座防混阀系列是通过压缩空气进行遥控操作的。该阀门于正常情况下常闭。该型阀门具有两个独立的阀芯密封件，在正常工作状态时这两个密封件之间就会形成一个与大气相通的泄漏腔。在偶尔可能出现的事故或产品泄漏的情况下，产品就会流进这个泄漏腔，并且从排出口被排放出去，不会造成产品的污染或混料。当阀门处于于启状态时，该漏腔是闭合的，在阀门正常运行过程中，并不存在产品溢出的情况。因此所输送的产品就能够从一条管线流到另一条去。该型阀门可以进行CIP清洗。



Features Introductor 功能特性介绍

◎ This series of mix-proof valves can effectively perform anti-mix separation for two types of media that cannot be mixed. When the door is closed, there is a double seal between the upper and lower pipelines, thus effectively preventing mixed flow between the pipelines. If the seal is damaged, the leakage can be discharged from the body through the leakage cavity in the valve core, which can be effectively observed and repaired and replaced in time. This series of products is available in a variety of specifications and forms.

◎ 此系列防混阀，对二种不可混合的介质能有效进行防混分隔。当门关闭时上下管路间为双密封，从而有效防止管道间的混流。若密封件受损时，泄漏物可通过阀心中的泄漏腔排出体外，有效观测及时维修更换配件。本系列产品有多种规格和形式可供选择。



Features 特点

- ◎ Reduction of cross contamination
- ◎ Increased efficiency of the process
- ◎ Safe, reliable, durable
- ◎ Product separation
- ◎ Improved SIP and CIP capabilities

- ◎ 减少交叉污染
- ◎ 提高流程效率
- ◎ 安全、可靠、耐用
- ◎ 产品分离
- ◎ 改进 SIP 和 CIP 功能



Application 应用

◎ Stainless steel sanitary mixproof valves are widely used in automated piping systems in the food, dairy, beverage, pharmaceutical and daily chemical industries. They are often used in key locations for switching between production and CIP cleaning, material diversion and collection, or preventing cross contamination of different media to ensure product purity and safe system operation.

◎ 不锈钢卫生防混阀广泛应用于食品、乳品、饮料、制药及日化等行业的自动化管路系统中，常用于生产与CIP清洗切换、物料分流汇集或防止不同介质交叉污染的关键位置，确保产品纯净度和系统运行安全。



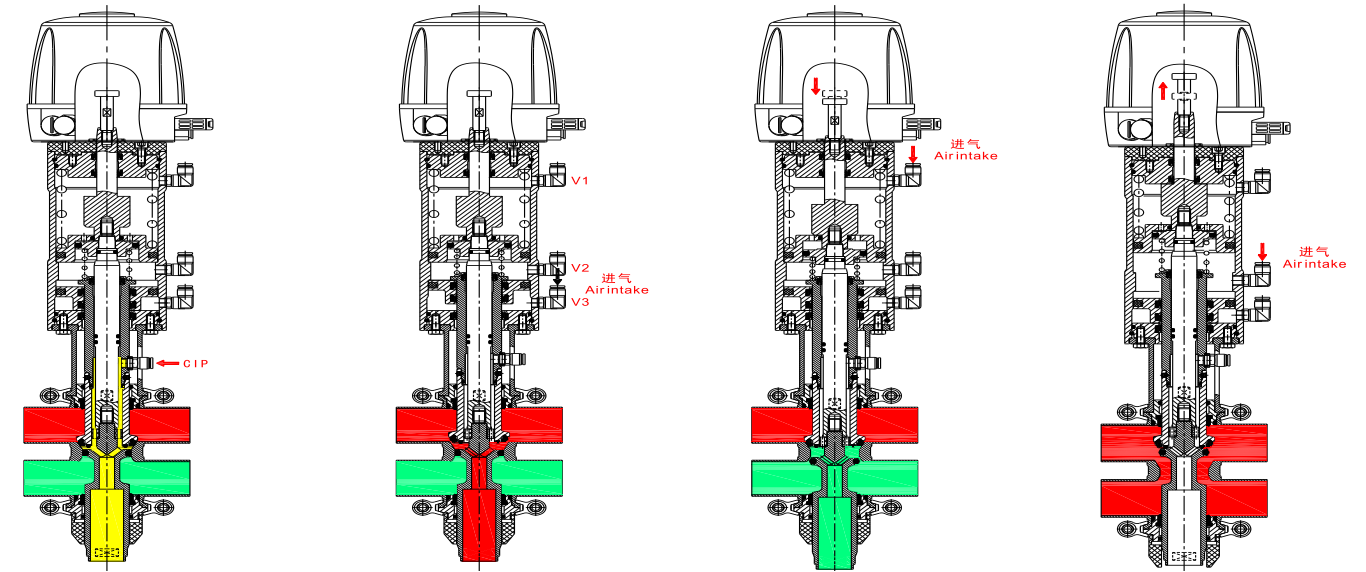
Technical design SPEC 技术规格

- ◎ Size: 1 1/2" to 4"
- ◎ Material: SS304, SS316L
- ◎ End connection: sanitary clamp, butt weld
- ◎ Seals: EPDM, PTFE
- ◎ Max pressure: 0 to 8 bar
- ◎ Max temp: -20°C ~ 150°C

- ◎ 尺寸：1 1/2 英寸至 4 英寸
- ◎ 材料：SS304、SS316L
- ◎ 端接：卫生卡箍，对焊
- ◎ 密封件：三元乙丙橡胶（EPDM）、聚四氟乙烯（PTFE）
- ◎ 最大压力：0 至 8 巴
- ◎ 最高温度：-20°C ~ 150°C



Schematic diagram of working principle 工作原理示意图



阀门关闭时，上下阀腔各自由单独的阀座密封。中间泄露通道可通过外部进行单独 CIP 清洗。

◎ When the valve shuts, both upper and lower chambers are sealed by individual seats. External cleaning for intermediate leakage passages is possible via separate CIP.

阀门开启时，上阀座向上提升，上阀体内的液体可从泄露通道中流出。下阀座由单独阀座密封。

◎ When the valve opens, the upper seat lifts upward and the liquid in the upper valve body can flow out of the leakage channel. The lower seat is sealed by a separate seat.

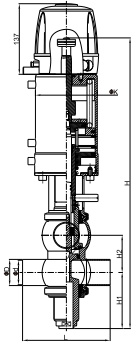
阀门开启时，下阀座向下提升，上阀体内的液体可从泄露通道中流出。上阀座由单独阀座密封。

◎ When the valve opens, the lower seat lifts downward and the liquid in the upper valve body can flow out of the leakage channel. The upper seat is sealed by a separate seat.

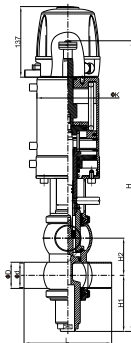
阀门开启，下阀座提升，下阀座提升时和上阀座间的隔离腔关闭，使得阀门开启时泄露通道无泄露。

◎ When the valve opens, the lower seat rises and seals off the isolation chamber from the upper seat, preventing any leakage through the channel.

智能气动防混阀(JN-Fh01)



智能气动防混阀(JN-Fh01)



Intelligent pneumatic Anti-mix Valve(N-Fh01) JN-MXPRFSQ-23 1001

SIZE	d	D	K	L	H1	H2	H
DN40	37	40	89	130	83	56	499
DN50	49	52	120	180	123	71	558
DN65	66	70	120	200	115	92	684
DN80	81	85	173	250	140	111	875
Dn100	100	104	173	300	173	128	910

Intelligent pneumatic Anti-mix Valve(N-Fh01) JN-MXPRFSQ-23 1002

SIZE	d	D	K	L	H1	H2	H
1.5"	35.1	38.1	89	130	83	56	499
2"	47.8	50.5	120	180	123	71	558
2.5"	59.5	63.5	120	200	123	85	684
3"	72.2	76.2	133	220	133	103	875
4"	97.6	101.6	173	300	173	128	910



Synopsis 简介

◎ This valve is designed where it is essential to prevent the cross contamination between 2 different products while allowing the product to flow flexibly in the multiple direction.



Description 设计说明

◎ These valves are versatile and designed in a way where there can be switch between different product or media without risking the contamination. These valves are composed of valve body, actuator. There are leakage detection holes which helps in inspecting visually with disassembling the valve. The operation of this valve is achieved through the combination of the valve seat arrangement. The design and the sealing mechanism provides a high level of reliability and product safety and ensuring there is no cross contamination.



Working principle 工作原理

◎ The crucial principle of this valve is to control the flow to stop the cross contamination while enabling the separation of 2 media. This valve is controlled by means of compressed air through a remote location. This has 2 individual plugs and seals for separating the liquid. The space left between the seals forms a leakage chamber. This chamber remains closed when the valve is open. The valves are cleaned by clean in place connection.



Features 特点

- ◎ Prevention of cross contamination
- ◎ Flexible and efficient
- ◎ Easy maintenance and cleaning
- ◎ Safe and reliable
- ◎ Product quality

◎ 这种阀门设计用于防止两种不同产品之间的交叉污染，同时允许产品灵活地向多个方向流动。

◎ 这些阀门用途广泛，在设计上可以在不同产品或介质之间进行切换，而不会有污染的风险。这些阀门由阀体和执行机构组成。阀体上有检漏孔，有助于在拆卸阀门时进行目视检查。这种阀门的操作是通过阀座的组合布置来实现的。这种设计和密封机制提供了高度的可靠性和产品安全性，并确保不会发生交叉污染。

◎ 该阀门的关键原理是控制流量，防止交叉污染，同时实现 2 种介质的分离。该阀门通过压缩空气远程控制。它有 2 个独立的塞子和密封件，用于分离液体。密封件之间的空间形成一个泄漏室。阀门打开时，泄漏室保持关闭。阀门通过就地清洁连接进行清洁。

- ◎ 防止交叉污染
- ◎ 灵活高效
- ◎ 易于维护和清洁
- ◎ 安全可靠
- ◎ 产品质量



Application 应用

◎ This valves are applicable more in the areas where there are risk of cross contamination. It is used in industries like food and beverage industries, pharmaceutical, biotechnological, cosmetics, personal care and others.

◎ 这种阀门更适用于存在交叉污染风险的领域。它可用于食品和饮料、制药、生物技术、化妆品、个人护理等行业。



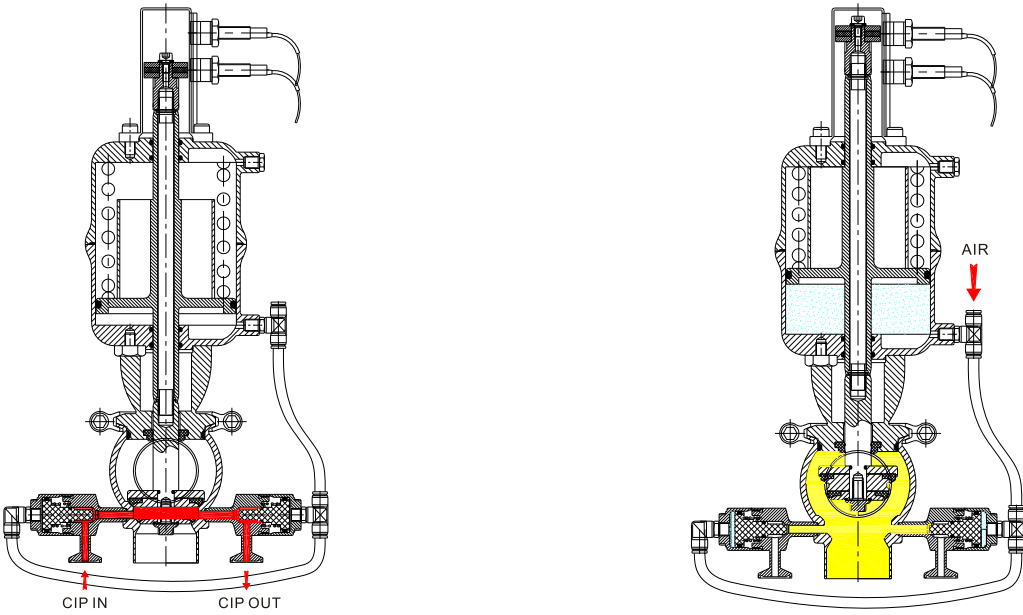
Technical design SPEC 技术规格

- ◎ Size: 1 ½ " to 4"
- ◎ Material: ss304, ss316L
- ◎ Max. pressure: 0 to 10 bar
- ◎ Max temperature -5 °C to 125 °C
- ◎ Seals: EPDM, NBR, PTFE
- ◎ End connections: Tri clamp, DIN, SMS, flanged, welded

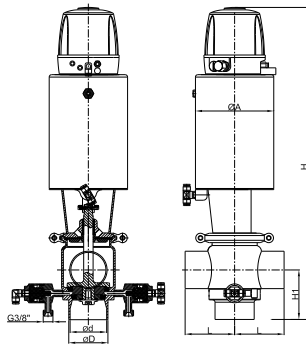
- ◎ 尺寸：1 ½ 英寸至 4 英寸
- ◎ 材料：SS304、SS316L
- ◎ 最大压力：0 至 10 巴
- ◎ 最高温度：-5 °C 至 125 °C
- ◎ Seals: EPDM, NBR, PTFE
- ◎ 端接：三夹钳、DIN、SMS、法兰、焊接



Schematic diagram of working principle 工作原理示意图



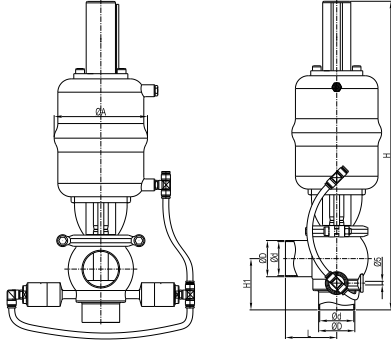
智能气动防混阀(JN-Fh02)



Intelligent Pneumatic Anti-Mix Valve(j-Fh02) JN-MXPRFSQ-23 1003

SIZE	d	D	A	H1	L	H
1.5"	35.1	38.1	86	68	69	488
2"	47.8	50.8	108	76	72	509
2.5"	59.5	63.5	133	82	82	550
3"	72.2	76.2	133	90	90	564

气动防混阀(JN-Fh01)



Pneumatic Anti-Mix Valve(N-Fh01) JN-MXPRFSQ-23 1004

SIZE	d	D	L	A	H1	H
1.5"	28.8	31.8	65	126	62	418
1.5"	35.1	38.1	65	126	65	418
2"	47.8	50.8	72	126	72	433
2.5"	59.5	63.5	85	126	85	453
3"	72.2	76.2	97	152	97	500
3.5"	84.9	88.9	115	178	115	559
4"	97.6	101.6	135	178	135	593

