

液动封闭式盲板阀

Hydraulic closed type blind plate valve

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Instruction Manual

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TIANJIN TANGGU JINBIN VALVE CO.,LTD.

一、产品概述 Product description

本系列盲板阀，适用于冶金、市政环保、工矿行业的气体介质管道系统中，为可靠切断气体介质的设备，尤其适用于有害、有毒、易燃气体的绝对切断，和做管道终端的盲闭，以便缩短检修时间或方便连接新的管路系统。

This series of blind plate valves are suitable for the gas medium pipeline system of metallurgy, municipal environmental protection and industrial and mining industries. It is a device for reliably cutting off the gas medium, especially suitable for the absolute cutting of harmful, toxic and flammable gases, and blinding the pipeline terminal. Closed to shorten the inspection time or to easily connect to the new piping system.

该盲板阀使用液动驱动方式。满足用户的能源条件、环境条件和工况条件的要求。

This blind plate valve used hydraulic drive. Meeting the user's energy, environmental and working conditions.

二、主要性能参数 Main performance parameters

公称压力 MPa/Nominal pressure	0.1MPa
密封试验压力 MPa/Seal test pressure	0.11MPa
强度试验压力 MPa/Shell test pressure	0.15MPa
密封材料/Seal	硅橡胶/Silicone rubber
适用温度/Suitable temperature	-20-250℃
适用介质/Suitable medium	空气、煤气、含尘煤气/Air,Coal gas,Dusty gas

三、主要零件材料 Main material

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适用温度 (°C) Suitable temperature		≤250
主要材料 Maine material	阀体 Body	Q235B 焊接 Q235B carbon steel welding
	阀板 Disc	Q235B 焊接 Q235B carbon steel welding
	液压缸 Hydraulic cylinder	组合件 Component
	密封圈 Sealing ring	硅橡胶 Silicone rubber
	波纹管 Bellow	双层 316L Double side 316L

四、工作原理 Working principle

1、封闭式盲板阀工作原理是通过液缸动作松开阀体，将扭矩直接作用在阀体上，使其带动浮动座压缩向波纹管方向移动，使阀板密封圈与两面阀体密封圈完全脱离。此过程大约需要 20S；

The working principle of the closed type blind plate valve is to loosen the valve body by the action of the liquid cylinder, and directly apply the torque to the valve body, so that the floating seat is compressed and moved toward the bellows. Completely disengage the valve plate seal from the two-sided body seal. This process requires approximately 20S;

2、启动液压马达驱动装置将门板进行水平移动，使门板的盲圈和通圈相对阀体管路位置发生更换，门板是由盲板和通圈组成。当夹紧机构松开后，门板旋转变换位置即可实现阀门开关。此过程需要 30-40S；

The hydraulic motor drive device is activated to horizontally move the door panel, so that the blind ring and the through ring of the door panel are replaced with respect to the valve body pipeline position, and the door panel is composed of a blind plate and a through ring. When the clamping mechanism is released, the door panel can be rotated to change position to realize the valve on/off. This process requires 30-40S;

3、夹紧驱动装置动作（单作用液缸失油后、依靠弹簧应力动作），使浮动座向阀体密封圈移动，将门板橡胶密封圈夹紧，从而完成阀门的密封动作。此过程需要 8-10S；

The action of the clamping drive device (after the single-acting liquid cylinder loses oil and relies on the spring stress), the floating seat is moved to the valve body sealing ring, and the rubber sealing ring of the door panel is clamped, thereby completing the sealing action of the

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valve. This process requires 8-10S;

五、结构特点 Structural features

1、封闭式盲板阀的阀体采用框架式结构;

The valve body of the closed type blind valve adopts a frame structure;

2、密封副部位采用不锈钢与硅橡胶密封，密封可靠，寿命长。

The sealing part is sealed with stainless steel and silicone rubber, which has reliable sealing and long service life.

3、封闭式盲板阀采用液压缸弹簧夹紧机构，同步性好。

The closed type blind plate valve adopts the hydraulic cylinder spring clamping mechanism, and the synchronization is good.

4、封闭式盲板阀密封圈装在阀板上，便于更换。

The closed type blind plate valve seal is mounted on the valve plate for easy replacement.

六、安装注意事项 Installation precautions

1、盲板阀在开启时左、右阀体应有 16-20mm 的轴向位移。因此，管路在阀门开启闭的过程也应具有满足上述位移的弹性变形或位移空间;

When the blind plate valve is opened, the left and right valve bodies should have an axial displacement of 16-20 mm. Therefore, the pipeline should also have elastic deformation or displacement space that satisfies the above displacement during the process of opening and closing the valve;

2、盲板阀在能够保证管道外力不作用于阀门上的情况下对安装位置不做规定。

The blind plate valve does not regulate the installation position when it can ensure that the external force of the pipe does not act on the valve.

3、本阀不得承受由于管道热胀冷缩或其它原因发生的外力对其产生推拉扭曲作用，阀体上的波纹管只用于阀门本身的启闭,不能代替管路中应设有的膨胀器。管道中各种因素产生的外力也不应作用于该波纹管。

The valve shall not bear the push-pull distortion effect caused by the external force generated by the thermal expansion and contraction of the pipeline or other reasons. The bellows on the valve body is only used for the opening and closing of the valve itself, and cannot replace the booster that should be provided in the pipeline. . External forces generated by various factors in

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the pipeline should not act on the bellows.

4、本阀门在水平管道上垂直安装使用，本阀安装完毕后应做支架固定阀门底座，在动作时受力于支架上。

The valve is installed vertically on the horizontal pipe. After the valve is installed, the valve should be fixed to the base of the valve, and the force is applied to the bracket during the action.

5、安装本阀门时事先清理阀腔和密封面，不允许有污物附着而影响密封性能。使用时定期清洗密封面。

When installing the valve, clean the valve cavity and sealing surface beforehand, and do not allow dirt to adhere and affect the sealing performance. Clean the sealing surface regularly during use.

6、清理阀腔的同时要清理(清洗)所要安装之管道内杂质，以防止污物杂质轧伤密封面而影响密封性能。

While cleaning the valve cavity, it is necessary to clean (clean) the impurities in the pipe to be installed to prevent the dirt impurities from crushing the sealing surface and affecting the sealing performance.

7、在使用中应靠控制箱来控制该阀，不得借助于其它辅助工具。

The valve should be controlled by the control box during use, do not rely on other auxiliary tools.

8、暂不使用本阀时应存放在干燥室内，二端通径堵塞，不准将产品任意堆放，以免损伤产品的有关零件。

When the valve is not used, it should be stored in the drying room. The two ends are blocked. It is not allowed to stack the products arbitrarily to avoid damage to the relevant parts of the product.

七、施工方案 Construction plan

1、准备工具 Preparation tools

吊车、梅花扳手、阀门垫片等必须工具

Must-have tools such as cranes, plum wrenches, valve gaskets, etc.

2、安装 Installation:

安装施工必须小心，切忌撞击阀体。

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Care must be careful during installation and construction. Do not hit the valve body.

安装前，应将阀门仔细检查，核对规格型号，鉴定有无损坏。还要清除阀内的杂物。

Before installation, the valve should be carefully inspected, and the specifications and models should be checked to determine whether there is any damage. Also remove debris from the valve.

对于阀门所连接的管路，一定要清扫干净。可用压缩空气吹去氧化铁屑、泥砂、焊渣和其他杂物。这些杂物，不但容易擦伤阀门的密封面，其中大颗粒杂物（如焊渣），还能堵死小阀门，使其失效。

Always clean the piping connected to the valve. Compressed air can be used to blow off iron oxide chips, mud sand, welding slag and other debris. These debris, not only easy to scratch the sealing surface of the valve, wherein large particles of debris (e.g., slag), also blocked the small valve, it can be disabled.

阀门起吊时，应该系阀门的吊环上。

When the valve is lifted, it should be attached to the lifting ring of the valve.

先用吊车将阀门吊到安装位置，安装阀门时，要注意法兰对称均匀地把紧螺栓。阀门法兰与管子法兰必须平行，间隙合理，以免阀门产生过大压力，甚至开裂。

Firstly, lift the valve to the installation position with a crane. When installing the valve, pay attention to the flange and tighten the bolt symmetrically and evenly. The valve flange and the pipe flange must be parallel and the clearance is reasonable to avoid excessive pressure or even cracking of the valve.

施工完成后，工完料净产地清。

After the completion of the construction, the net production of the finished material is cleared.