



气动陶瓷旋转摆式阀-使用说明书
Pneumatic Ceramic Rotating Gate Valve
OPERATION MANUAL



地址: 郑州高新技术产业开发区紫竹路 93 号院

ADD: No.93 Zizhu Road, High-Tech Development Zone, Zhengzhou City, Henan, China

邮编 (Zip):450000

Tel:0086 371 55019379/ 0086 13523029957

Http://www.free-valve.com

Email:sales@free-valve.com

郑州孚瑞流体控制技术有限公司

Zhengzhou Free Fluid Control Technology Co.,Ltd

尊敬的用户：

您好！感谢您选用本公司的产品，谨致谢意！

为了您能够快速了解并熟练使用该产品，在使用该产品之前，请您仔细阅读本手册，这将有助于您更好的使用该产品。如果您在使用过程中有什么问题，请您尽快与本公司取得联系，谢谢您的合作。

对本手册所包含的内容，郑州孚瑞流体控制技术有限公司拥有最终解释权。

Dear Users:

Thank you for selecting our valves !

For your quickly understanding and operating the valves, please read this manual carefully before installation, which will help you better learning the valve. If you have any problems during your operation, please contact us as soon as possible. Thank you for your cooperation!

The contents of this manual, FREE-VALVE company has the right of final interpretation.

气动陶瓷旋转摆式阀 Pneumatic Ceramic Rotating Gate Valve

一 概述 General

气动陶瓷旋转摆式阀是我公司针对圆顶阀在使用过程中易出现的故障,采用工程陶瓷作为耐磨部件,开发出了可用在电厂除尘系统的新型进料阀。

The pneumatic ceramic rotating gate valve is developed according to the fault frequently occurred during the operation of the dome valve .The ceramics are used as the wear-resisting parts. The sealing surface of the product is made of toughened engineering ceramics with good abrasion resistance and prolonged service life. For this type of valve ,usually installed at ash handling system in coal fire power plant and work as new type feed valve .

二 产品特点 Product Feature

1、密封面采用工程增韧陶瓷,耐磨损,寿命长;

The pneumatic ceramic rotary gate valve has long working life.

2、结构长度和连接尺寸可按照客户的要求进行定制;

Product with customized structural length and connection size is available.

3、阀瓣为平面旋转运动,可克服密封面积灰现象;

The plane rotational motion of the valve disc can avoid the ash deposition on the sealing surface.

4、阀门启闭采用行程更短的回转结构,磨损量更小,寿命更长。

The rotation structure with shorter stroke makes for less abrasion and longer life time of the pneumatic ceramic rotating gate valve.

5、加工有刀型边沿的阀板,能顺利分开干灰介质,不堵灰;

Equipped with knife gate, the pneumatic rotating gate valve can separate the dry ash from the medium

三 技术参数 Technical Parameters

法兰标准 The standards of flange ends	ASME B16.5, GB/T9113
公称压力 Nominal Pressure	PN1.0/1.6MPa,Class150
公称通径 Size range	DN150~DN 300, NPS6 ~NPS12
连接形式 Connection type	法兰 Flange
阀体材质 Body material	WCB、A105
工作温度 Working Temperature	≤250℃
驱动方式 Operating Type	气动 Pneumatic
密封面材质 Sealing surface material	增韧陶瓷 Engineering ceramic
结构长度 Face to Face dimension	GB/T12221, API609
压力测试 Pressure test standard	GB/T13927, API598

四 性能规范 Performance

型号 Type	公称压力 Nominal Pressure	试验压力 (MPa)		适用介质 Application
		密封试验(气体) Sealing test (gas)	强度试验 Shell test	
FRZ643TC-6C	0.6MPa	0.6	0.9	气固混合介质如干燥灰、煤粉、水泥粉、 矿石粉等 Mixture medium of gas and solid ,such as dry ash, coal powder, core powder etc.
FRZ643TC-10C	1.0 MPa	0.6	1.5	
FRZ643TC-150Lb	CL150	0.6	3.0	

五 尺寸 Dimensions



对于定制阀门，尺寸可咨询郑州孚瑞流体控制技术有限公司。

For customized ceramic valve dimension can be discussed with Zhengzhou Free Fluid Control Technology Co., Ltd

六 陶瓷旋转摆式阀安装使用与维修保养注意事项:

Installation and maintenance

1、为了延长使用寿命，提高工作效益，本阀门在安装时切勿碰坏气缸。

In order to prolong the valve service life and improve the working efficiency, please protect the pneumatic actuator from being damaged when valve installation .

2、请置于干燥清洁的室内。长期存放后应先清洁后安装，并检查各螺栓是否有松动现象。

Keep the valve in the dry clean room. After long storage, please clean valve first before installation ,and check whether the bolts are loose or not .

3、安装前应仔细阅读本说明、并核对阀门技术参数。

Please read the instructions carefully and check the valve technical parameters before installing.

3、装上阀门后严禁施焊法兰，以免损坏阀门密封圈。管道间预留的阀门安装距离应适当，法兰两边加垫片。安装应保证阀门工作、维修、更换方便。

To avoid damaging valve sealing ring, It is forbidden to weld flange after installing the valve. Installing distance for valve between the pipes should be proper reserved , with gaskets on both sides of the flange. Installation should make sure valve easy to work, maintain and replace.

4、两管道中心与阀门通径中心应保持同轴，法兰面应平整，不允许法兰面有较大的偏斜，以保证阀门的夹紧和正常工作。拧紧螺栓应做到均匀对称。

The center of the two pipes and the valve should be kept in the same axis. To ensure valve clamping tightly and working in good situation, flange face should be flat and is not allowed to have a larger deflection . Please tighten bolts symmetrical and equably.

5、装卸过程中，吊索不允许用于气缸及活塞杆上。

The sling is not allowed to be used on pneumatic actuator and piston rod during installing valve.

七、陶瓷旋转摆式阀可能发生的故障、原因及消除方法

Trouble shooting and Solutions

可能发生的故障 Possible failure	发生故障的原因 Causes	消除方法 Solutions
阀门不动作或开关不到位 The valve does not move or the disc is not in fully position	1、气源压力不够 Not enough gas pressure	增大气源压力 Increase gas source pressure
	2、气缸缸筒是否损坏 The cylinder is damaged	检查缸筒是否失圆,如损坏更换缸筒 Check whether the cylinder is out of round, if yes ,please replace cylinder.
	3、电磁阀或行程开关信号故障 Solenoid valve or travel switch signal failure	检查或更换电磁阀、行程开关 Check or replace solenoid valve, travel switch
	4、阀体与阀板间（阀腔内）卡有污垢物、积灰 There are dirty or ash between valve body and valve disc .	清洗修整去除污垢 Remove the ash or dirty 延长空送时间 Extend the air transporting time
上下阀体间渗漏 Leakage between the upper and lower valve body	1、阀体上螺母未旋紧或松紧不匀 The nut is not tight on the valve body or is not equably tightened .	调整螺母 Adjusting nut
	2、垫片损坏或有污物 Gaskets are damaged or contaminated.	更换垫片，去除污垢 Replace the gaskets and remove the dirt
密封面泄露 Leakage of sealing surface	1、阀板关闭不到位 the disc is not in fully position	调整阀杆及圆螺母 Adjusting stem and round nut
	密封面有损伤。 sealing surface is damaged.	1、研磨密封面、去除污垢 Grind the sealing surface or remove the dirt 2、更换阀板、阀座 Replace the disc or seat