

产品概述 Product Overview

液控缓闭止回蝶阀是目前国内较先进的管理控制设备，主要安装于水电站水轮机进口，用作水轮机进口阀；或安装于水利、电力、给排水等各类泵站的水泵出口，替代止回阀和闸阀的功能。工作时，阀门与管道主机配合，按照水力过渡过程原理，通过预设的启闭程序，有效消除管路水锤，实现管路的可靠截止，起到保护管路系统安全的作用。

Hydraulic slow closing check valve is at present domestic and foreign advanced management and control equipment, mainly installed in the hydropower turbine inlet, used for water turbine inlet valve; or installed in the water, electricity, etc. to export pump drainage pumping station, replacing non-return valve and gate valve function. When working, the valve and the pipeline with the host, in accordance with the principle of hydraulic transition process, through the pre opening and closing procedures, effectively eliminate the pipeline water hammer, reliable implementation of stop line, to protect the safety of the pipeline system function.

产品特点 Product Features

1. 可取代水泵出口处原电动闸阀和止回阀的功能，且机、电、液系统集成为一个整体，减少占地面积及基建投资。
2. 电液控制功能齐全，无需另外配置即可以作为一个独立的系统单机就地调试、控制；也可以作为集散性控制系统(DCS)的一个设备单元，通过I/O通道由中央计算机进行集中管理，与水泵、水轮机、旁通阀及其他管道设备实现联动操作；并配有手动功能，无动力电源时也可以实现手动开、关阀，满足特殊工况下的阀门调试、控制要求。
3. 可控性好，调节范围大、适应性强。电液控制系统设有多处调节点，可以按不同的管道控制要求进行启闭程序设置，保证在满足开、关阀条件时，阀门能够且才能够自动按预先设定的时间、角度开启和分快、慢二阶段关闭。并能实现无电关阀，有效消除破坏性水锤，防止水泵和水轮机组飞逸事故的发生，降低管网系统的压力波动，保障设备的安全可靠运行。
4. 主阀密封副为三偏心金属或双偏心橡胶密封结构，启闭轻松、密封可靠；并有一道额外加大的偏心，使阀门具有良好的自关闭、自密封性能。中、小口径蝶板设计面双平板桁架式结构，排挤小、水流平顺，阀门流阻系数仅为0.1~0.6，远小于止回阀的流阻系数(1.7~2.6)，节能效果明显。

1. Can replace the pump outlet of the original electric gate valve and check valve function, and the machine, electricity, liquid systems integrated into a whole, reducing land space and infrastructure investment.
2. Electro-hydraulic control functions, without additional configuration that can be used as an independent system in stand-alone debugging and controlling; can also be used as a distributed control system (DCS) is a unit of equipment through the I/O channel by the central computer for centralized management, and realize linkage operation water pump and a water turbine, and bypass valve other pipeline equipment; and is equipped with manual function, no power supply can also be achieved manually open and close the valve, to meet the special conditions of the valve debugging and control requirements.
3. Good controllability, wide range of adjustment and strong adaptability. The electro-hydraulic control system is provided with a plurality of transfer nodes, can according to different pipeline control requirements for opening and closing procedures, ensure to meet the opening and closing the valve condition, the valve can also can automatically according to the preset time, the opening angle and the fast and slow closing stage two. And can be closed without electricity, effectively eliminate the destructive water hammer, water pump and hydraulic turbine to prevent runaway accident, reduce the fluctuation of pressure pipeline system, ensuring the safe and reliable operation of equipment.
4. The main valve sealing pairs of three eccentric metal or double eccentric rubber seal structure, open and close easy, sealed reliable, and there is an extra eccentric increase, so that the valve has a good self closing, self sealing performance. Medium and small diameter butterfly plate design plane double deck truss type structure, exclude small and smooth flow, the valve flow resistance coefficient is only 0.1~0.6, far less than the check valve flow resistance coefficient (1.7~2.6), the energy saving effect is obvious.

技术参数 Technical Parameter

公称通径 Nominal diameter	DN300-4000
公称压力 Nominal pressure	0.25~1.0MPa
适用温度 Applicable temperature	≤80°C
适用介质 Applicable media	水、海水、泥沙、水等 Water, seawater, sediment, water, etc
传动方式 Transmission mode	液动 Hydraulically driven

主要零部件材质 Materials of Main Parts

零件名称 Part name	材料 Material Science	零件名称 Part name	材料 Material Science
阀体 Body	灰铸铁、球墨铸铁、碳素钢 Grey iron, nodular cast iron, carbon steel	蝶板密封圈 Butterfly seal	优质丁腈橡胶、不锈钢/柔性石墨层叠 High quality nitrile rubber, stainless steel / flexible graphite lamination
蝶板 Disc	灰铸铁、球墨铸铁、碳素钢 Grey iron, nodular cast iron, carbon steel	滑动轴承 Sliding bearing	铜合金 Copper alloy
阀轴 Shaft	不锈钢、碳素钢 Stainless steel, carbon steel	填料 Filler	V形密封圈、柔性石墨 V shape sealing ring, flexible graphite
阀体密封面 Face	铜合金、不锈钢 Copper alloy, stainless steel	墙板 Wallboard	碳素钢 Carbon steel

以上资料仅供参考，具体参数以罗杰斯技术部规格书为标准。

The above information is for reference only. The specific parameters are based on the specifications provided by ROVV Technical Department.

