

产品概述

1、刀形浆 闸阀按照口径不同制成暗杆和明杆两种形式（暗杆DN100~1600mm，明杆DN50~900mm），全圆形的直流通道设计不存渣、不卡阻。刀板底端加工成刀刃状，对松软物料如纤维、纸浆、木浆具有切断功能，同时有良好的开启和关闭作用。在刀板上端安装有硬聚四氟乙烯刮泥器，可防止粉尘、沙砾等擦伤性物质进入填料盒，可显著提高刀板寿命。阀板材质选用不锈钢、精磨抛光处理可获得最佳密封效果。

2、阀体、填料函均为精密铸造，其中阀体采用凸缘式整体铸造，不锈钢、硬质合金材质可根据用户需要选用304、316、316L、2520、WCB、2Cr13，密封圈采用硬密封或PTFE增强聚四氟乙烯材质，耐腐蚀、耐磨损、不沾渣。

3、阀板有多个支撑点，使阀板有很好的自对中。当阀门处于关闭状态，并承受背压时，阀板不发生偏移。

4、刀形浆 闸阀可以配置手轮、手动拉链、正齿轮传动、伞齿轮传动、气动、电动和电液动。

5、刀形浆 闸阀内部可制成V形、三角形、五角形通道、以适应流体调节控制要求。

6、刀形浆 闸阀连接形式有对夹式、法兰支耳式，密封有金属对金属硬密封、金属对聚氨酯、带增强的聚四氟乙烯橡胶等软密封。

7、工作温度：

软密封（NBR）≤80℃；（PTFE）：-40℃~180℃ 碳素钢：-29℃~425℃

不锈钢：-40℃~600℃ 铬钼钒钢：≤550℃ 高铬镍钢：≤900℃

工作压力：0.6、1.0、1.6MPa

执行标准：设计按JB/T8691-1998 结构长度按GB/T15188.2-94

法兰按GB/T9113.1-2000 试验和验收按GB/T13927

Product introduction

1. Knife gate valve consists of two types based on caliber: inside screw and outside screw (inside screw: DN100-1600mm; outside screw: DN50-900mm). The full-round direct flow channel design prevents slag residue and blocking. The bottom of knife board is designed to blade shape so as to cut soft, loose materials including fiber, paper pulp, wood pulp, etc. and switch on and off freely. Hard Teflon sludge scraper is mounted on the upper part of knife board to prevent abrasive substances including dust, sand, etc. from entering the filling box. The useful life of knife board will be prolonged significantly. The valve plate, made of finely grinded and polished stainless steel, is provided with optimum sealing performance.

2. The valve body and filling box are all precision castings. The valve body adopts flange-type integral casting, made of stainless steel or hard alloy. The material is optional: 304, 316, 316L, 2520, WCB, and 2Cr13. The seal ring is made of hard sealing material or PTFE the reinforced tetrafluoroethylene, highly resistant to corrosion and abrasion and free of slag.

3. The valve plate has several supporting points, allowing of favorable self-alignment for the plate. The valve plate will not displace when the valve is closed and bears back pressure.

4. The driving of knife gate valve is optional: hand wheel, manual chain, spur gear, bevel gear, pneumatic, electric, and electric and hydraulic.

5. The internal passage of knife gate valve could be V-shaped, triangular or quinquangular in order to best satisfy the specification of liquid regulation and control.

6. The connection of knife gate valve provides butt-clamp connection and flange journal connection. In terms of sealing, it allows metal-to-metal hard sealing, metal-to-polyurethane soft sealing, reinforced PTFE rubber soft sealing, etc.

7. Operating temperature:

Soft sealing (NBR) ≤ 80℃; (PTFE): -40℃~180℃ carbon steel: -29℃~425℃

Stainless steel: -40℃~600℃ chromium-molybdenum-vanadium steel: ≤550℃ high chrome nickel steel working pressure: ≤900℃

Standards: design - JB/T8691-1998 structural length - GB/T15188.2-94

flange - GB/T9113.1-2000 testing and acceptance - GB/T13927

应用

金矿粉、尾矿、纸浆、木浆、纤维、粉尘、化学品处理污水、沉淀池、矿砂、炉渣、煤泥、沥青、料仓出口、水果、谷物、水泥浆、屠宰厂废水、气动输送管线或啤酒酿制的介质。

发电厂给排水、排渣（适用于高温≤540℃，超高温≤900℃）。

Application

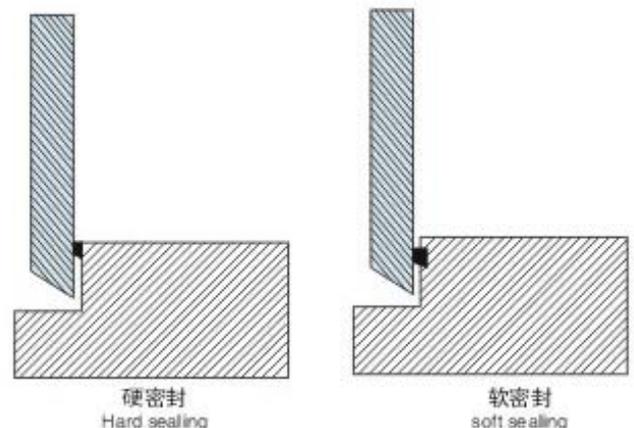
Gold mine powder, gangue, paper pulp, wood pulp, fiber, dust, sewage disposal by chemical, sedimentation tank, ore sand, slag, slime, bitumen, bunker outlet, fruit, corn, cement sludge, wastewater from butchery, pneumatic conveying line, or medium of brewing. Power plant water supply and drainage, slag-off (suitable for high temperature =540 ° C, extra-high temperature =900 ° C).

产品特点

设计紧凑、占据空间小、重量轻、价格便宜、易于安装、耐磨防堵措施完善、便于维修、使用方便及寿命长，并且可任意选用驱动装置

Features

Compact construction, small size, limited weight, reasonable price, ease of installation, abrasion resistance, block proof, convenience of maintenance and use, considerable useful life, optional driving.





公称压力Nominal pressure (MPa)	壳体试验Shell test (MPa)	密封试验Seal test (MPa)	工作温度 Working temperature (°C)	适用介质 Applicable medium
1.0	1.5	1.1	≤150	渣水混合物、煤浆、污水等 Slag water mixture, CWM, sewage, etc

技术标准

- 1、设计制造标准: JB/T8691-1998
- 2、结构长度标准:GB/T15188.2-94
- 3、试验检验标准:GB/T13927-92
- 4、法兰连接标准:GB/T9113.1-2000 JB/T79-94

Technical standards

- 1, design and manufacture of standard: JB/T8691-1998
- 2, the structural length standard GB/T15188.2-94
- 3, test inspection standard GB/T13927-92
- 4, flange connection standard GB/T9113.1-2000 JB/T79-94

9	销轴Pin shaft	304		18	手轮锁紧螺母 Handwheel lock nut	Q235	
8	双头螺柱 Double end studs	B8		17	手轮 The handwheel	QT400	
7	螺母nut	B8		16	键key		
6	填料压盖gland	CF8		15	锁紧螺钉screw	B8	
5	填料packing	PTFE		14	轴承压盖 Bearing gland	35	
4	内六角螺钉 Hex screws	B8		13	轴承bearing		
3	阀座seat	FEPM		12	阀杆螺母 Stem nut	铜合金Copper alloy	
2	阀板disc	304		11	阀杆stem	304	
1	阀体body	H1200		10	支架stents	CF8	
序号 Serial number	名称name	材料materials	备注note	序号 Serial number	名称name	材料materials	备注note

刀形闸阀系列 Knife gate valve series

特点

- 结构简单：轻便、密封性能好。
- 操作方式：手轮、电动、电液动、气动。

Features

- Simple construction: low weight, fine sealing performance.
- Operational mode: hand wheel, electric, electric and hydraulic, pneumatic.

用途

本阀门适用于糖浆、纸浆、泥浆、污水、煤浆等介质管路上，作启闭调节和节流使用，适用于水平安装，亦可倾斜安装。

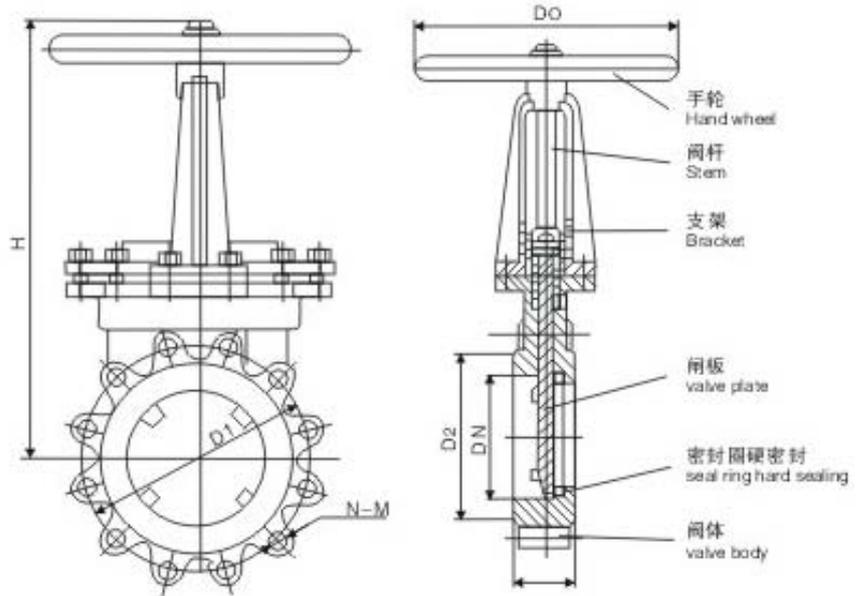
适用温度：-10~110℃

Purpose

The valve is suitable for pipeline conveying such mediums including syrup, paper pulp, sludge, sewage, coal slurry, etc. for controlling switching on/off and throttling. It allows horizontal mounting as well as inclined mounting.

Applicable temperature: -10~110℃





设计制造 Design and manufacture: JB/T8691-1998
 结构长度 Structural length: GB/T15188.2-94

法兰连接 Flange connection: GB/T9113.1-2000 JB/T79-94
 试验与验收 Testing and acceptance: GB/T13927-92

主要零部件材质 Key parts material

阀体、上盖 Valve body, upper cap	碳钢、不锈钢 Carbon steel, stainless steel
阀板 Valve plate	不锈钢 stainless steel
阀杆 Stem	不锈钢 stainless steel
密封圈 Seal ring	橡胶、四氟、不锈钢、硬质合金 Rubber, PTFE, stainless steel, hard alloy

主要性能规范 Key performance indicators

公称压力 Nominal pressure	PN
壳体试验 Casing test	1.5XPN
密封试验 Leak test	1.1XPN
工作温度 Operating temperature	橡胶 ≤ 80℃ 四氟密封 ≤ 180℃ 硬密封 ≤ 425℃ Rubber ≤ 80℃, PTFE ≤ 180℃, hard sealing ≤ 425℃
适用介质 Working medium	糖浆、纸浆、污水、煤浆、灰、渣水混合物 Syrup, paper pulp, sewage, coal slurry, dust, slag-water mix

主要外形及连接尺寸 Profile and connection dimension

单位 Unit:mm

公称压力 Nominal pressure (MPa)	公称口径 Nominal through diameter (mm)	L	D	D ₁	D ₂	H	N-M	D ₀
1.0	50	50	160	125	100	285	4-M16	180
	65	50	180	145	120	298	4-M16	180
	80	50	195	160	135	315	4-M16	220
	100	50	215	180	155	365	8-M16	220
	125	50	245	210	185	400	8-M16	230
	150	60	280	240	210	475	8-M20	280
	200	60	335	295	265	540	8-M20	360
	250	70	390	350	320	630	12-M20	360
	300	76	440	400	368	780	12-M20	400
	350	76	500	460	428	885	16-M20	400
	400	100	565	515	482	990	16-M22	400
	450	114	615	565	532	1100	20-M22	530
	500	114	670	620	585	1200	20-M22	530
	600	114	780	725	685	1450	20-M27	600
	700	165	895	840	800	1700	24-M27	600
800	180	1010	950	905	2000	24-M30	680	
900	180	1110	1050	1005	2300	28-M30	680	

注：0.6MPa、1.0MPa、1.6MPa及美标150Lb等连接尺寸见附录。
 Note: see the appendix for connection dimensions of 0.6MPa, 1.0MPa, 1.6MPa, American Standard 150Lb, etc.



产品概述

该气动刀型闸阀是较为复杂的自动化控制仪表，由多种气动元件及阀体组成。多用于要求快速切断或开启的场合。

- 双作用：对阀门开启和关闭的两位式控制；
- 单作用：（弹簧复位）；在电器和气路切断或故障时，阀门自动开启或关闭。

Product introduction

Pneumatic knife gate valve is a kind of complicated automatic control instrument consisting of a variety of pneumatic elements and valve body. It is suitable for situations requesting quick cutting or opening.

- Double-action type: two-position control for valve switching on and off.
- Single-action type (spring reset): the valve switches on/off automatically when power supply or air supply is cut off or there is any failure.

可选附件

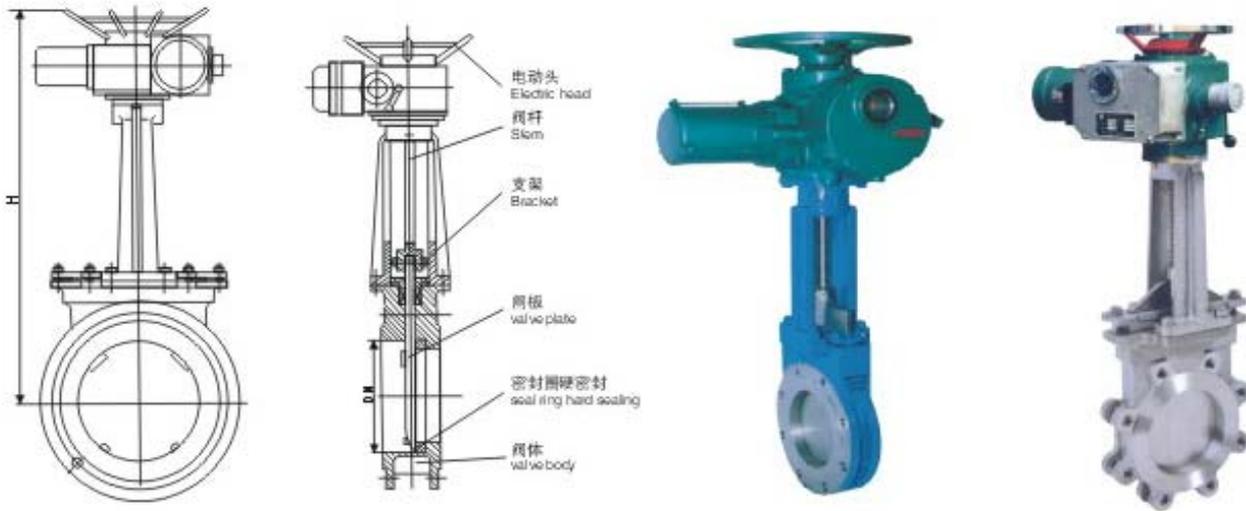
- 1、单或双控电磁阀（有24V、220V等电压供选择，必要时可选防爆电磁阀）。
- 2、接近开关
- 3、气源处理三联件（包括减压阀、过滤器、油雾器）。
- 4、电/气阀门定位器（调节型用）。

Optional accessories

- 1.Single-control or double-control solenoid valve (24V, 220V, etc. optional voltage; explosion-proof solenoid valve is optional when necessary)
- 2.Proximity switch
- 3.Air supply processing triple-connection unit (including air reducing valve, filter, and a atomized lubricator)
- 4.Electric/pneumatic valve positioner (for regulating type use)

单位 Unit: mm

公称通径 Nominal through diameter	50	65	80	100	125	150	200
高度 Height	335	363	395	465	530	630	750
公称通径 Nominal through diameter	250	300	350	400	450	500	600
高度 Height	900	1125	1260	1450	1600	1900	2300



产品概述

该产品驱动部分采用多回转电动装置，用以驱动和控制阀门的开启和关闭，操作人员可以在控制室内远距离对阀门进行控制也可以现场手动操作，也可以与计算机配合实现计算机自动控制。广泛应用于排水、供热、电站、化工、食品、造纸、制药、煤碳、采矿等工程，满足了现代工、农业自动化要求。

Product introduction

The driving part of the product is a multi-revolving electric device for driving the valve and controlling on/off of the valve. Operator could control valve remotely in control room as well as run the valve manually on site. Automatic control is available as well by linking to computer. The product is now widely used in such sectors including drainage, heating, electricity generation, chemical industry, foodstuff, papermaking, pharmaceutical, coal mining, mining, etc., Satisfying the needs of automation in modern industry and modern agriculture.

电动装置参数

- 电源：AC380V、50HZ。
- 标准型：标准型产品具有防尘、防雨水的外壳 保护能力、保护等级IP65，可直接用于户外。
- 防水型：产品具有防尘、防浸水（IP67）的外壳防护等级。
- 防爆型（EX）：防爆等为D II BT4/D II CT4（不含乙炔）。
- 环境温度：-20℃~40℃
- 可选：配电气控制器

Electric device parameters

- Power supply: AC380AV, 50HZ.
- Standard type: Standard type is equipped with dust-resistant, rain-proof casing. The protective level is IP65. It could be used directly outdoors.
- Waterproof type: The casing is resistant to dust and water immersion (IP67 protective level).
- Explosion-proof type (EX) DII BT4/DII CT4 explosion-proof level (excluding acetylene).
- Ambient temperature: -20-40℃.
- Optional: electrical controller

特点

- 启闭迅速，平衡可靠，自动化程度高。
- 安装高度及位置不受限制。
- 采用防爆型电动装置，在易燃易爆，甚至有毒气体环境中可以正常工作。
- 配有手动，万一供电中断，可以手动操作开启或关闭阀门，有效控制介质，防止事故发生。

Features

- Quick switching on/off, reliability, equilibrium, high level of automation.
- Unlimited installation height and position.
- Explosion-proof electric device that allows normal operation in inflammable and explosive environment or environment with poisonous gas.
- Manual operating mechanism allowing manual switching on/off of the valve in case of power failure. The medium will be controlled effectively for prevention against accident.

单位 Unit: mm

公称口径 Nominal through diameter	50	65	80	100	125	150	200
高度 Height	375	460	590	780	950	980	1055
公称口径 Nominal through diameter	250	300	350	400	450	500	600
高度 Height	1060	1230	1250	1767	1920	2010	2110

浆液阀系列 parallel slide valve

特点

- ◎结构简单：轻便、密封性能好。
- ◎操作方式：手轮、电动、电液动、气动。

Features

- ◎ Simple construction: low weight, fine sealing performance.
- ◎ Operational mode: hand wheel, electric, electric and hydraulic, pneumatic.

用途

本阀门适用于糖浆、纸浆、泥浆、污水、煤浆等介质管路上，作启闭调节和节流使用，适用于水平安装，亦可倾斜安装。

适用温度：-10~80℃

Purpose

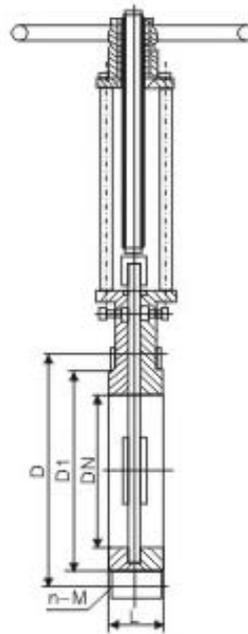
The valve is suitable for pipeline conveying such mediums including syrup, paper pulp, sludge, sewage, coal slurry, etc. for controlling switching on/off and throttling. It allows horizontal mounting as well as inclined mounting.

Applicable temperature: -10~80℃



主要性能规范 Key performance indicators

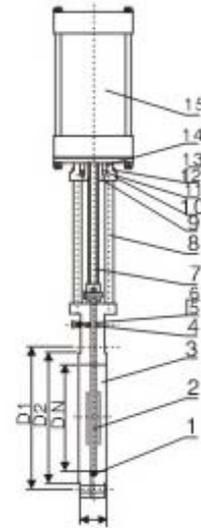
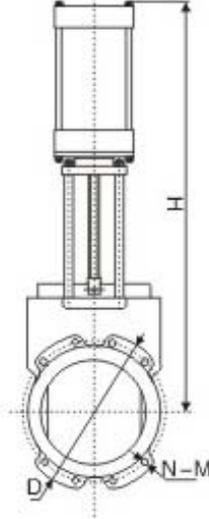
公称压力 Nominal pressure	0.6	1.0
壳体试验 Casing test	0.9	1.5
密封试验 Leak test	0.66	1.1
工作温度 Operating temperature	≤ 80℃	≤ 80℃
适用介质 Working medium	煤浆、水 coal slurry, water	



主要外形及连接尺寸 Profile and connection dimension

单位 Unit:mm

公称压力Nominal pressure (MPa)	DN	L	D	D1	Do	H	n-M
1.0MPa	50	40	125	100	180	295	4-M16
	65	40	145	120	180	305	4-M16
	80	50	160	135	220	330	4-M16
	100	50	180	155	220	380	4-M16
	125	50	210	185	240	415	4-M16
	150	60	240	210	280	490	4-M20
	200	60	295	265	280	550	4-M20
	250	70	350	320	360	693	8-M20
	300	80	400	368	400	796	8-M20
	350	90	460	428	400	895	10-M20
	400	120	515	482	500	1004	10-M22
	450	120	565	532	500	1110	14-M22
	500	130	620	585	600	1210	14-M22
	600	140	825	685	700	1460	14-M27
	700	140	840	800	800	1680	16-M27
	800	150	950	905	800	1910	16-M30
	900	150	1050	1005	800	2130	20-M30
1000	200	1160	1115	900	2380	20-M30	



主要性能规范:

公称压力Nominal pressure (MPa)	壳体试验Shell test (MPa)	密封试验Seal test (MPa)	工作温度 Working temperature (°C)	适用介质 Applicable medium
1.0	1.5	1.1	≤ 120	渣水混合物、煤浆、灰、纸浆 Slag water mixture, CWM, grey, pulp

技术标准

- 1、设计制造标准：JB/T8691
- 2、结构长度标准：GB/T15188.2
- 3、法兰连接标准：GB/9113
- 4、检验试验标准：JB/T13927

Technical standards

- 1, design and manufacture of standard: JB/T8691
- 2, the structural length standard GB/T15188.2
- 3, flange connection standard GB/9113
- 4, inspection test standard JB/T13927.

DN	L	D	D1	D2	H	N-M
500	130	640	600	568	1760	20-M22

9	阀杆螺母 Stem nut	铜合金 Copper alloy	1				
8	支柱 pillar	Q235	4	17		1	
7	阀杆 stem	2CR13	1	16		1	
6	螺母 nut	2H		15	气缸 Cylinder	1	
5	锁紧螺钉 screw	B7		14	轴承压盖 Bearing Gland	1035 1	
4	上密封副 Sealed vice	NBR	2	13	螺母 Nut	2H 4	
3	阀体 body	HT200	1	12	垫圈 Gasket	1010 4	
2	阀板 disc	SS304	1	11	轴承 Bearing	1045 1	
1	阀座 seat	NBR	1	10	联接 Connection	HT200 1	
序号 Serial number	名称 name	材料 materials	数量 quantity	序号 Serial number	名称 name	材料 materials	数量 quantity