

FLOWX Sluice Valve With Actuator  
**弗雷西插板阀系列**



## 关于弗雷西

FLOWX弗雷西阀门起源于意大利罗马，多年来专注于阀门研发、生产、销售及服务，产品品质与服务广受称赞。

随着全球经济一体化进程，制造板块向亚太地区迁移，FLOWX弗雷西阀门抓住契机，在香港成立弗雷西香港公司，主要从事弗雷西阀门亚太区销售及售后服务。由于总部发现中国市场对于弗雷西阀门认知度日益提高；需求量不断增加，FLOWX通过一类调研、评估决定授权香港弗雷西全权处理成立上海弗雷西公司相关事宜上海弗雷西正式成立初期主要负责大中华区弗雷西阀门销售与售后服务，随后意大利弗雷西FLOWX将弗雷西产品的组装与测试工作引入中国上海。现今，上海弗雷西秉承意大利弗雷西FLOWX的设计及服务理念，在大中华区已经形成了执行器、回信器、球阀、蝶阀、闸阀、止回阀等十几个系类产品，并通过了ISO，CE，GB等产品质量标准体系认证。弗雷西阀门系类产品已经广泛应用于环保、食品、化工、冶金、水电及机械等行业，销售及售后服务涵盖中国32个省市，产品质量及售后服务一致受到使用单位好评。上海弗雷西传承意大利弗雷西FLOWX设计、工艺、制造、服务，维护，为客户提供一站式服务，并与国内知名企业开展领域合作，提升企业技术含量，优化公司产品结构，不断提升弗雷西品牌在国内行业的品牌知名度及影响度。意大利弗雷西FLOWX——引领水流，展现价值。

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## 刀型闸阀产品概述

### 刀型闸阀产品概述

刀型闸阀，又称刀闸阀或刀型浆闸阀，从八十年代引进中国。其应用范围非常广泛，从矿山、电厂的选煤、排矸、排渣，到城市的污水处理；从水泥、造纸厂的浆液输送，到食品、卫生、医药等专业管道。超薄设计的刀型闸阀以其体积小、重量轻、阻流小、不积渣，易安装，易拆卸的优点彻底解决了普通闸阀、平板闸阀、球阀、截止阀、调节阀、蝶阀等闸门的阻流大，占空间，易积渣，不易安装和维修等疑难问题。因而大量的通用切断类闸阀和调节阀型闸阀被刀型闸阀取代。

### 刀型闸阀适用介质

金矿粉、尾矿、矿砂、炉渣、煤泥、沙石、钢灰、纸浆、木浆、水泥浆、纤维、粉尘、粉料、晶粒、化学品处理污水、屠宰厂废水、城市污水、沉淀池、沥青、料仓进出口、水果、谷物、啤酒、饮料、油品、蒸汽、气体输送以及电厂给排水、排渣等。

### 刀型闸阀选购说明

1. 用户选购时，必须注明闸阀的工作条件、流体介质、工作压力、介质温度、公称口径及闸阀材质和数量。
2. 所需闸阀如有特殊要求时，客户必须提供图纸资料且在购销合同中注明，本公司按客户要求生产。
3. 闸阀驱动装置的品牌和型号如无特别要求说明，以本公司标配型号予以装置。

### 刀型闸阀参数范围

设计制造标准：JB/T 8691-1998、MSS-SP-81

结构长度标准：GB/T 15188.2-94、MSS-SP-81

试验检验标准：GB/T 13927-92

法兰连接标准：GB/T 9113.1-2000 JB/T 79-94 JIS 10K  
ANSI B16.5 150Lb EN1092(DIN,BS,NF) PN10 PN16

|                       |                   |                 |
|-----------------------|-------------------|-----------------|
| 阀体材质：灰铸铁 (HT250/GG25) | 球墨铸铁(QT450/GGG45) | 铸钢(WCB)         |
| 不锈钢(CF8,CF3M)         | 铬钼钢(ZG1Cr5Mo)     | 双相钢(06Cr25Ni20) |
| 密封材料：橡胶 (NBR,EPDM)    | 四氟(VITON,PTFE)    | 聚氨酯(PU)         |
| 不锈钢(Cr13,304,316L)    | 硬质合金(STL/K20/YG8) | 工程陶瓷 (AL2O3)    |

密封结构：单向密封，双向密封

阀门结构：明杆或暗杆，穿透或双开

支架形式：三角式，四柱式，钢板式，暗板式

连接形式：圆形法兰，凸缘式法兰（梅花式），支耳式（对夹式）

公称口径：DN50~DN2000 NPS 2"~80"（可根据客户需求设计DN40, DN225等特殊口径更大口径）

工作温度：-40℃~900℃（以具体选型的温度区间为准）

公称压力：DN50~600(0.6Mpa,1.0Mpa,1.6Mpa,2.5Mpa,10K,150Lb)

DN700~DN1200(0.25Mpa,0.6Mpa,1.0Mpa)

DN1400~DN2000(无试验)

执行机构：手轮 (DN50-DN600)

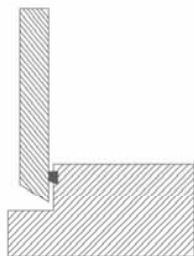
链轮和链条 (DN50-DN2000)

气动执行器 (DN50-DN1000)

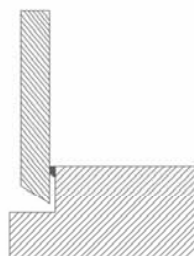
电动执行器 (DN50-DN2000)

伞齿轮驱动 (DN50-DN2000)

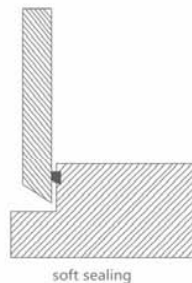
液动执行器 (DN50-DN1200)



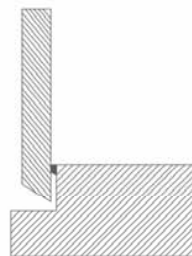
软密封



硬密封



soft sealing



Hard sealing

## How To Order-Product Overview

### Product Introduction

Knife gate valve, also known as slurry gate valves, introduced into China from the eighties. The range of applications are very large, for mining, power plant coal preparation, discharge refuse, slag, to the city's sewage treatment, cement slurry transport, paper mills, food, health, medicine, and other professional pipeline. Design with its slim, small size, light weight, small spoiler, no accumulation of slag, easy to install, easy to disassemble, the advantages completely solve the baffles large space, slag accumulation, install and maintenance problems more better and easy than the ordinary gate valve, flat gate valve, ball valve, globe valve, regulating valve, butterfly valve. Thus the common cut class valve and regulator valve are replaced by knife gate valve.

### Application Medium:

Gold mine powder, tailings, ore, slag, slime, gravel, steel dry residue, pulp, wood pulp, cement slurry, fibers, dust, powder, grain, chemicals, sewage treatment, slaughterhouse waste, urban sewage, sedimentation tanks, asphalt, silos pass in and out, fruit, cereal, beer, beverage, oil, steam, gas transportation, and power plant water supply and drainage, slag, etc.

### Procurement notice:

1. Users to buy, must indicate the valve working conditions, the fluid medium, working pressure, medium temperature, nominal diameter and valve material and quantity.
2. valves required for any special requirements, the customer must provide drawings and indicated in the purchase and sales contracts, factory for production according to customer requirements.
3. the brand and model of the valve actuator, such as no special requirements description, be in the standard model of the device.

### Technical Parameter Range

Design and manufacture: JB/T8691-1998、MSS-SP-81

Face to Face: GB/T15188.2-94、MSS-SP-81

Testing and acceptance: GB/T13927-92

Flange Drilling: GB/T9113.1-2000 JB/T79-94 JIS 10k、

ANSI B16.5 150LB EN 1092(DIN,BS,NF) PN10 PN16

Body Material: cast iron (HT250/GG25) ductile iron (QT450/GGG45)

cast steel (WCB) stainless steel (CF8, CF3M)

chromium-molybdenum steel (ZG1Cr5Mo) dual-phase steel (06Cr25Ni20)

Sealing material: rubber (NBR, EPDM) tetrafluoroethylene (VITON, PTFE) polyurethane (PU)

stainless steel (Cr13, 304, 316, 2520)

cemented carbide (STL/K20/YG8) the engineering ceramic (AL2O3)

Seal structure: one-way seal, bi-directional sealing

Valve structure: inside screw or outside screw, penetration or double open

Yoke Type: Triangle-style, four-poster, steel plate, inside plate

Connection Type: round flange, Full lug (quincuncial), Lug (wafer)

Nominal Diameter: DN50~DN2000 the NPS 2 "to 80" (can be designed according to customer demand, DN40, DN225, special caliber, larger caliber)

Operating Temperature: -40℃~900℃ (subject specific selection temperature range)

Nominal pressure: DN50 to 600 (0.6Mpa, 1.0Mpa, 1.6Mpa, 2.5Mpa, 10K, 150Lb)

DN700 ~ DN1200 (0.25Mpa, 0.6Mpa, 1.0Mpa)

DN1400 ~ DN2000 (no test)

Actuating device: hand wheel (DN50-DN600)

Sprocket and chain (DN50-DN2000)

Pneumatic actuators (DN50-DN1000)

Electric actuator (DN50-DN2000)

Bevel gear drive (DN50-DN2000)

Hydraulic actuators (DN50-DN1200)

## 刀型闸阀型号编制说明

### ■ 型号范例

手动刀闸阀, 铸钢体, 圆型法兰, 硬密封, 三角支架, PN10 : C3Z-FD10CH

气动刀闸阀, 不锈钢CF8体, 梅花型法兰, 橡胶密封, 三联件24V, 四柱式, PN10 : C4Z-6ASD10PX3L

电动刀闸阀, 暗板结构, 不锈钢CF8M体, 圆型法兰, 氟橡胶密封, PN16 : CMZ-9FD16RF

电液动刀闸阀, 铸钢体, 对夹式, 橡胶密封, 钢板支架 : CSZ-2TD10ZX

气动穿透式刀闸阀, 不锈钢304体, 四柱式支架, 氟橡胶密封, 含三联件220V : C4CZ-6ATD10PF3M

|    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|
| ①  | ②  | ③  | ④  | ⑤  | ⑥  | ⑦  | ⑧  | ⑨  | ⑩  |
| 支架 | 结构 | 类型 | 传动 | 连接 | 闸板 | 压力 | 阀体 | 密封 | 附件 |
| C3 | A  | Z  | 6A | F  | D  | 10 | C  | H  | 3L |

#### ① 支架形式

|    |     |     |     |     |
|----|-----|-----|-----|-----|
| 代号 | C3  | C4  | C5  | CM  |
| 含义 | 三角式 | 四柱式 | 钢板式 | 暗板式 |

#### ② 结构形式

|    |    |     |     |      |
|----|----|-----|-----|------|
| 代号 | A  | C   | D   | S    |
| 含义 | 暗杆 | 穿透式 | 双开式 | 双向密封 |

#### ③ 阀门类型

|    |     |
|----|-----|
| 代号 | Z   |
| 含义 | 刀闸阀 |

#### ④ 传动类型 手动时无代号

|    |     |     |       |       |    |      |    |       |    |
|----|-----|-----|-------|-------|----|------|----|-------|----|
| 代号 | 2   | 5   | 6A    | 6B    | 7  | 8    | 9  | 6S    | 4L |
| 含义 | 电液动 | 伞齿轮 | 气动双作用 | 气动单作用 | 液动 | 气动液动 | 电动 | 手气动切换 | 链轮 |

#### ⑤ 连接形式

|    |      |       |         |
|----|------|-------|---------|
| 代号 | F    | S     | T       |
| 含义 | 圆形法兰 | 梅花型法兰 | 对夹式/支耳式 |

#### ⑥ 闸板形式

|    |       |
|----|-------|
| 代号 | D     |
| 含义 | 平行单闸板 |

#### ⑦ 阀门压力

|    |        |        |        |        |          |        |
|----|--------|--------|--------|--------|----------|--------|
| 代号 | 6      | 10     | 16     | 25     | 150      | 10K    |
| 含义 | 0.6Mpa | 1.0Mpa | 1.6Mpa | 2.5Mpa | 150Lb(美) | 10K(日) |

#### ⑧ 阀体材质

|    |       |       |        |       |        |       |       |      |
|----|-------|-------|--------|-------|--------|-------|-------|------|
| 代号 | C     | P     | PL     | R     | RL     | Q     | Z     | NR   |
| 含义 | WCB   | CF8   | CF3    | CF8M  | CF3M   | GGG40 | GG25  | 2520 |
| 钢牌 | Q235A | SS304 | SS304L | SS316 | SS316L | QT450 | Ht250 | 310S |

#### ⑨ 密封材质

|    |            |          |      |      |     |      |         |                                |
|----|------------|----------|------|------|-----|------|---------|--------------------------------|
| 代号 | F          | X        | H    | Y    | N   | XS   | W       | G                              |
| 含义 | 聚四氟乙烯      | 丁腈橡胶     | 硬密封  | 硬质合金 | 聚胺脂 | 活动橡胶 | 本体硬密封   | 工程陶瓷                           |
| 材质 | PTFE/VITON | NBR/EPDM | Cr13 | STL  | PU  | NBR  | 304/316 | AL <sub>2</sub> O <sub>3</sub> |

#### ⑩ 气动附件

|    |               |               |     |
|----|---------------|---------------|-----|
| 代号 | 3L            | 3M            | 5   |
| 含义 | 气源三联件 (24VDC) | 气源三联件 (22VDC) | 定位器 |

## How To Order-Type Arrangement

### ■ Model example

Manual knife gate valve, Body:WCB, Flange, Sealing:Cr13, Yoke:A-Frame, PN10: C3Z-FD10CH

Pneumatic knife gate valve, Body:CF8, Wafer(Full lug), Sealing:EPDM, FRL:24VDC, Yoke:tetrastyle, PN10: C4Z-6ASD10PX3L

Electric knife gate valve, Lidded(Fully-closed), Body:CF8M, Flange, Sealing:Viton, PN16: CMZ-9FD16RF

Electric Hydraulic knife gate valve, Body:GG25, Wafer(lug), Sealing:NBR, Yoke:Sheet steel: CSZ-2TD10ZX

Pneumatic Through conduit knife gate valve, Body:CF8, Yoke:tetrastyle, Sealing:Viton, FRL:220V: C4CZ-6ATD10PF3M

|      |           |            |          |            |       |          |      |         |               |
|------|-----------|------------|----------|------------|-------|----------|------|---------|---------------|
| ①    | ②         | ③          | ④        | ⑤          | ⑥     | ⑦        | ⑧    | ⑨       | ⑩             |
| Yoke | Structure | Valve Type | Actuated | Connection | Plate | Pressure | Body | Sealing | Pneumatic FRL |
| C3   | A         | Z          | 6A       | F          | D     | 10       | C    | H       | 3L            |

#### ① Yoke Type

|      |         |            |             |              |
|------|---------|------------|-------------|--------------|
| Code | C3      | C4         | C5          | CM           |
| Type | A-Frame | tetrastyle | sheet steel | Fully-closed |

#### ② Structure Type

|      |                 |                 |             |                |
|------|-----------------|-----------------|-------------|----------------|
| Code | A               | C               | D           | S              |
| Type | Non-rising stem | Through-conduit | double gate | Bi-directional |

#### ③ Valve Type

|      |                  |
|------|------------------|
| Code | Z                |
| Type | Knife gate valve |

#### ④ Actuated Type ( Handweel have no code)

|      |                    |            |                                  |                                  |           |                   |          |                         |            |
|------|--------------------|------------|----------------------------------|----------------------------------|-----------|-------------------|----------|-------------------------|------------|
| Code | 2                  | 5          | 6A                               | 6B                               | 7         | 8                 | 9        | 6S                      | 4L         |
| Type | Electric hydraulic | bevel gear | double acting pneumatic cylinder | single-acting pneumatic cylinder | Hydraulic | Pneumatic&dynamic | Electric | Manual-pneumatic switch | Chainwheel |

#### ⑤ Connection Type

|      |        |                 |                |
|------|--------|-----------------|----------------|
| Code | F      | S               | T              |
| Type | Flange | Wafer(Full lug) | Wafer(two lug) |

#### ⑥ Valve Plate

|      |                      |
|------|----------------------|
| Code | D                    |
| Type | Parallel single disc |

#### ⑦ Valve Pressure

|       |        |        |        |        |             |          |
|-------|--------|--------|--------|--------|-------------|----------|
| Code  | 6      | 10     | 16     | 25     | 150         | 10K      |
| Grade | 0.6MPa | 1.0MPa | 1.6MPa | 2.5MPa | 150Lb(ANSI) | 10K(JIS) |

#### ⑧ Valve Body material

|               |       |       |        |       |        |       |       |      |
|---------------|-------|-------|--------|-------|--------|-------|-------|------|
| Code          | C     | P     | PL     | R     | RL     | Q     | Z     | NR   |
| Casting Grade | WCB   | CF8   | CF3    | CF8M  | CF3M   | GGG40 | Gg25  | 2520 |
| Steel Grade   | Q235A | SS304 | SS304L | SS316 | SS316L | QT450 | Ht250 | 310S |

#### ⑨ Sealing material

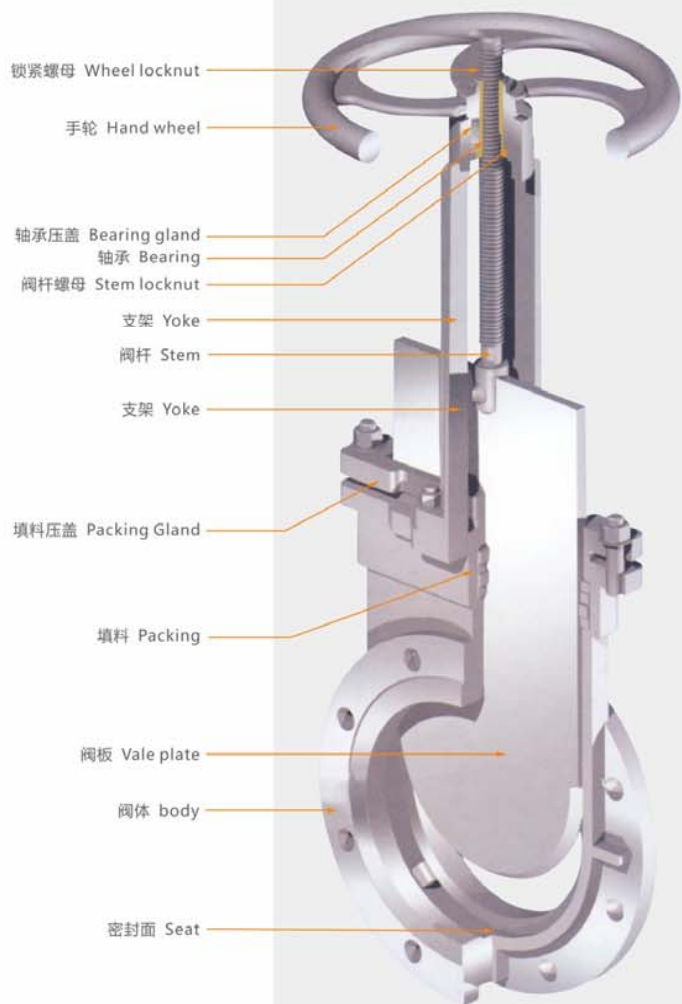
|                |            |          |      |         |    |     |         |                                |
|----------------|------------|----------|------|---------|----|-----|---------|--------------------------------|
| Code           | F          | X        | H    | Y       | N  | XS  | W       | G                              |
| Material Grade | PTFE/Viton | NBR/EPDM | Cr13 | STL/K20 | PU | NBR | 304/316 | AL <sub>2</sub> O <sub>3</sub> |
| Material       | PTFE/VITON | NBR/EPDM | Cr13 | STL     | PU | NBR | 304/316 | AL <sub>2</sub> O <sub>3</sub> |

#### ⑩ Pneumatic FRL

|       |       |        |            |
|-------|-------|--------|------------|
| Code  | 3L    | 3M     | 5          |
| Grade | 24VDC | 220VDC | positioner |

### 刀型闸阀结构图

Structure Characteristic



FC5Z-TD10ZX  
铸铁刀型闸阀  
CI Knife Gate Valve



FC5Z-TD10QX  
球铁刀型闸阀  
DI Knife Gate Valve

### 铸铁刀型闸阀/整体式浆液阀 Wafer Knife Gate Valve

#### 产品概述

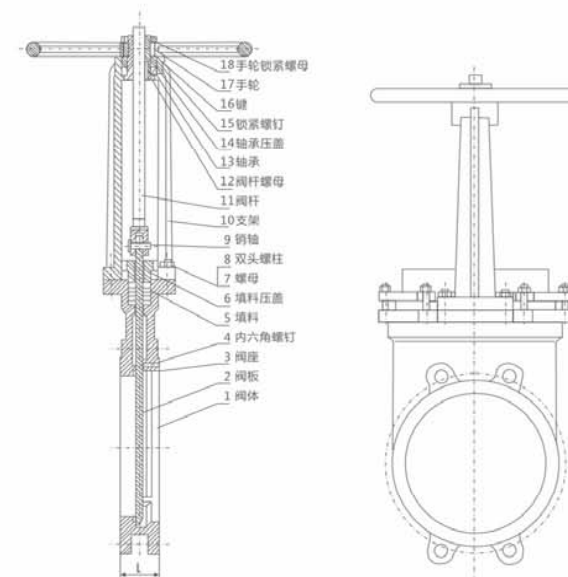
铸铁刀型闸阀又叫一体式浆液阀或整体式浆液阀，铸铁刀型闸阀相对于传统两片组合式浆液阀具有结构更合理，密封性更好，启闭更轻松，维修更方便等优点，是传统铸铁浆液阀更新换代的最新产品。该产品适用于纸浆、煤浆、污水、粮浆、糊剂、空气、液体等介质，特别是造纸行业是一种理想的密封阀门。

#### 主要技术参数和性能：

公称压力：0.6MPa、1.0MPa  
公称通径：DN50~600mm NPS 2"~24" (可定制DN700~1400mm口径)  
适用温度：NBR(-40~+100°C)、EPDM (-50~+150°C)、VITON(-20~+260°C)  
连接法兰：ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS  
主体材料：GG25/HT250、GGG45/QT450、WCB、CF8、CF3M  
密封材质：NBR、EPDM、VITON  
泄漏量：A级（零泄漏）  
可选驱动：手轮、伞齿轮、气动、电动、液动等。

#### Main technical parameters and performance:

Nominal pressure: 0.6MPa、1.0MPa  
Nominal diameter: DN50~600 mm NPS 2"~24"  
Suitable temperature: NBR(-40~+100°C)、EPDM(-50~+150°C)、VITON(-20~+260°C)  
flange drilling: ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS  
Main materials: GG25/HT250、GGG45/QT450、WCB、CF8、CF3M  
Seal type: NBR、EPDM、VITON  
Leakage: Grade A (Zero Leakage)  
Optional drive: Hand wheel, bevel gear, pneumatic, electric, hydraulic etc.





## 手动 (明杆) 刀型闸阀 Manual Knife Gate Valve

### ■ 产品概述

手动刀型闸阀又叫手动插板阀或手动闸板阀,适用于糖浆、纸浆、污水、煤浆、灰渣、粉尘、渣水混合物等介质管道,可作为介质切断和节流使用,该刀型闸阀适合水平安装,亦倾斜安装。

### ■ 技术参数范围

公称压力: 0.6MPa, 1.0MPa, 1.6MPa, 2.5MPa, 150Lb

公称口径: DN50~2000 mm NPS 2"~80"

适用温度: -38~+1100°C (具体温度范围视密封副材质和介质性质而定)

连接法兰: ANSI B16.5, GB/T9113, JB/T79, HG, SH, JIS, DIN, NF, BS

主体材料: C.I, WCB, ZG1Cr18Ni9Ti, ZG1Cr18Ni12Mo2Ti, CF8, CF8M, CF3, CF3M, 2Cr25Ni20

密封形式: 硬密封、软密封

泄漏量: 硬密封: D级 (液体0.1XDN mm<sup>3</sup>/s) 软密封: A级 (零泄漏)

配套附件: 安装法兰

### ■ Product introduction

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 in clined mounting.

### ■ Technical Parameter Range

Nominal pressure: 0.6MPa, 1.0MPa, 1.6MPa, 2.5MPa, 150Lb

Nominal diameter: DN50~2000 mm NPS 2"~80"

Suitable temperature: -38~+1100°C

(Range of temperature subject to the material of sealing and property of medium)

Flange drilling: ANSI B16.5, GB/T9113, JB/T79, HG, SH, JIS, DIN, NF, BS

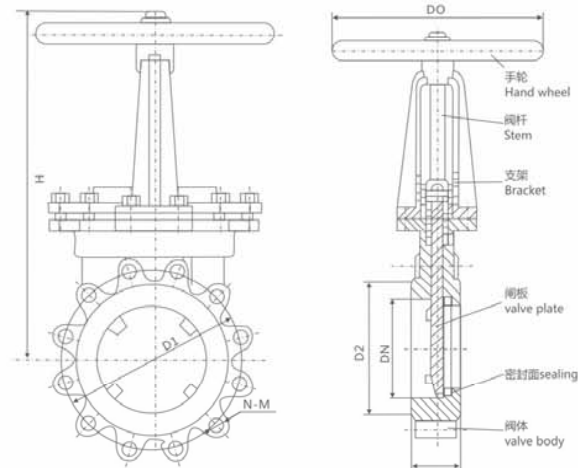
Main materials: C.I, WCB, ZG1Cr18Ni9Ti, ZG1Cr18Ni12Mo2Ti, CF8, CF8M, CF3, CF3M, 2Cr25Ni20

Seal type: Stainless steel hard seal, Teflon soft seal

Leakage: Stainless steel hard seal: Grade D (Liquid 0.1XDN mm<sup>3</sup>/s)

Teflon soft seal: Grade A (Zero Leakage)

Accessories: Flange



FC3Z-SD10NRW  
手动 (明杆) 刀型闸阀  
Manual Knife Gate Valve



FC3Z-FD10RLW  
手动 (明杆) 刀型闸阀  
Manual Knife Gate Valve



FC3Z-6ASD10CH3M  
气动刀型闸阀  
Pneumatic Knife Gate Valve



FC4Z-6AFD10CH3M5  
气动刀型闸阀  
Pneumatic Knife Gate Valve

## 气动刀型闸阀 Pneumatic Knife Gate Valve

### ■ 产品概述

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。适用于糖浆、纸浆、污水、煤浆、灰渣、粉尘、渣水混合物等介质管道。常用作介质调节和节流使用,该刀型闸阀适合水平安装,亦倾斜安装。双作用气缸:对阀门开启和关闭的两位式控制;单作用气缸:在电路和气路切断或故障时,阀门自动开启或自动关闭(即常闭或常开)。

### ■ 技术参数范围

公称压力: 0.6MPa, 1.0MPa, 1.6MPa, 2.5MPa, 150Lb

公称口径: DN50~2000 mm NPS 2"~48"

适用温度: 0~+1100°C (具体温度范围视密封副材质和介质性质而定)

连接法兰: ANSI B16.5, GB/T9113, JB/T79, HG, SH, JIS, DIN, NF, BS

主体材料: C.I, WCB, ZG1Cr18Ni9Ti, ZG1Cr18Ni12Mo2Ti, CF8, CF8M, CF3, CF3M, 2Cr25Ni20

密封形式: 硬密封、软密封

泄漏量: 硬密封: D级 (液体0.1XDN mm<sup>3</sup>/s) 软密封: A级 (零泄漏)

配套附件: 1. 安装法兰, 2. 电磁阀, 空气过滤器 行程开关

气源压力: 0.4~0.6MPa

电磁阀电压: DC24V AC220V

### ■ Technical Parameter Range

Nominal pressure: 0.6MPa, 1.0MPa, 1.6MPa, 2.5MPa, 150Lb

Nominal diameter: DN50~2000 mm NPS 2"~48"

Suitable temperature: 0~+1100°C

(Range of temperature subject to the material of sealing and property of medium)

Flange drilling: ANSI B16.5, GB/T9113, JB/T79, HG, SH, JIS, DIN, NF, BS

Main materials: C.I, WCB, ZG1Cr18Ni9Ti, ZG1Cr18Ni12Mo2Ti, CF8, CF8M, CF3, CF3M, 2Cr25Ni20

Seal type: Stainless steel hard seal, Teflon soft seal

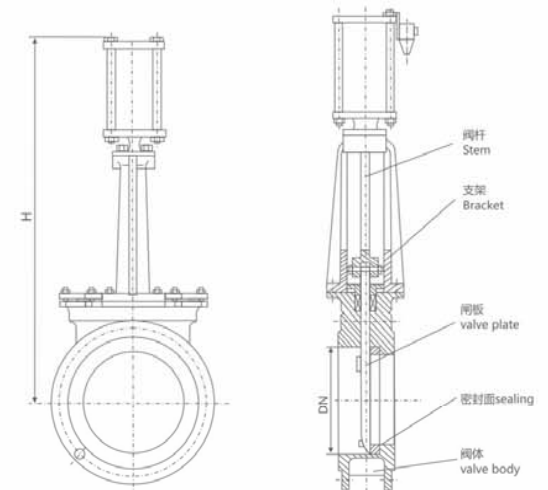
Leakage: Stainless steel hard seal: Grade D (Liquid 0.1XDN mm<sup>3</sup>/s)

Teflon soft seal: Grade A (Zero Leakage)

Accessories: 1. Flange 2. Solenoid valve 3. Air filter 4. Limit switch

Air-supply pressure: 0.4~0.6MPa

Solenoid valve voltage: DC24V AC220V



## 电动刀型闸阀

### Electric Knife Gate Valve

#### ■ 产品概述

FLOWX电动刀型闸阀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、煤炭、采矿等工程,满足了现代工、农业自动化要求。

#### ■ 技术参数范围

公称压力: 0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb

公称通径: DN50~2000 mm NPS 2"~80"

适用温度: -38~+1100°C (具体温度范围视密封副材质和介质性质而定)

连接法兰: ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS

主体材料: C.I、WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、2Cr25Ni20

密封形式: 硬密封、软密封

泄漏量: 硬密封: D级 (液体0.1XDN mm3/s) 软密封: A级 (零泄漏)

配套附件: 安装法兰

电动装置: 380V (220V或660V需特别订货), 50Hz (60Hz需特别订货);

控制线为220V, 50Hz(60Hz需特别订货); 远程控制为24VDC,

防护等级: 普通户外型: IP55; 隔爆型: IP67

防爆等级: 普通户外型: 无; 隔爆型: dIIBt4

#### ■ Technical Parameter Range

Nominal pressure: 0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb

Nominal diameter: DN50~2000 mm NPS 2"~80"

Suitable temperature: -38~+1100°C

(Range of temperature subject to the material of sealing and property of medium)

Connecting flange: ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS

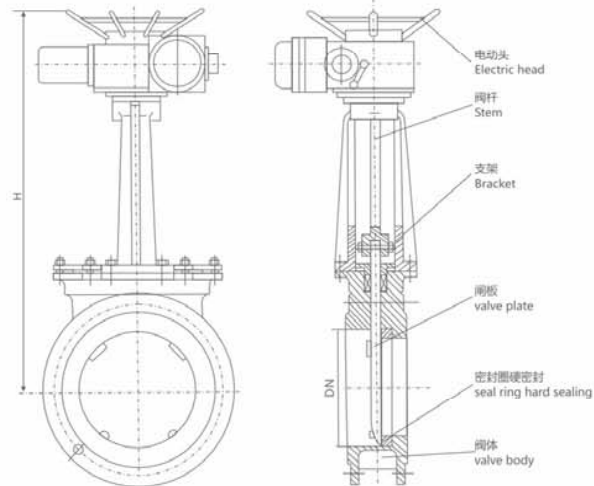
Main materials: C.I、WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、2Cr25Ni20

Seal type: Stainless steel hard seal、Teflon soft seal

Leakage: Stainless steel hard seal: Grade D (Liquid 0.1XDN mm3/s)

Teflon soft seal: Grade A (Zero Leakage)

Accessories: Flange



**FC3Z-9SD10PW**  
电动刀型闸阀  
Electric Knife Gate Valve



**FC3Z-9FD16CH**  
电动刀型闸阀  
Electric Knife Gate Valve



**FC4Z-2FD10CH**  
电液动力型闸阀  
electric & Hydraulic Knife Gate Valve



**FC3Z-2FD16CH**  
电液动力型闸阀  
electric & Hydraulic Knife Gate Valve

## 电液动力型闸阀

### Electric & Hydraulic Knife Gate Valve

#### ■ 产品概述

FLOWX电液动力型闸阀通过电液联动装置在复推位来控制阀门的开启和关闭,如配置传感器或数字显示装置,可进行远距离,高空危险地区集中或程序控制,广泛应用于冶金、电力、煤炭、矿山、水利等行业,是一种应用性强的新型更新替代产品。

#### ■ 技术参数范围

公称压力: 0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb

公称通径: DN50~2000 mm NPS 2"~80"

适用温度: -38~+200°C (具体温度范围视密封副材质和介质性质而定)

连接法兰: ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS

主体材料: WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、C.I、2Cr25Ni20

密封形式: 硬密封、软密封

泄漏量: 硬密封: D级 (液体0.1XDN mm3/s) 软密封: A级 (零泄漏)

配套附件: 安装法兰

#### ■ Technical Parameter Range

Nominal pressure: 0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb

Nominal diameter: DN50~2000 mm NPS 2"~80"

Suitable temperature: -38~+200°C

(Range of temperature subject to the material of sealing and property of medium)

Connecting flange: ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS

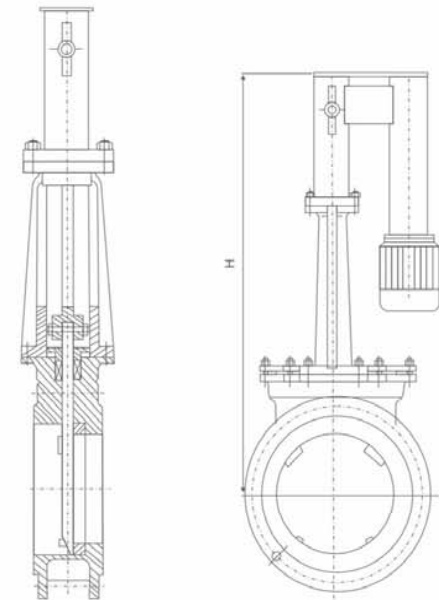
Main materials: WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、C.I、2Cr25Ni20

Seal type: Stainless steel hard seal、Teflon soft seal

Leakage: Stainless steel hard seal: Grade D (Liquid 0.1XDN mm3/s)

Teflon soft seal: Grade A (Zero Leakage)

Accessories: Flange





## 气动带手动刀型闸阀

### Manual & Pneumatic Switch Knife Gate Valve

#### ■ 产品概述

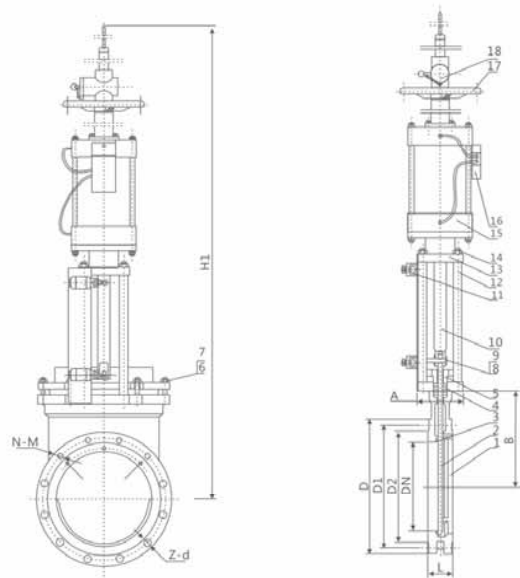
手气动切换刀型闸阀也叫手动气控刀型闸阀或气动带手动刀型闸阀，就是在气动装置的基础上加专手轮装置，实现手气两用的功能。该款刀型闸阀主要应用于当气动装置无法使用时需要立即切断或开启的工况。产品适用于各类浆液、污水、灰渣、粉尘，空气，渣水混合物等介质管道。

#### ■ 技术参数范围

公称压力：0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb  
 公称口径：DN50~2000 mm NPS 2"~80"  
 适用温度：0~+1100°C (具体温度范围视密封副材质和介质性质而定)  
 连接法兰：ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS  
 主体材料：WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、C.I.、2Cr25Ni20  
 密封形式：硬密封、软密封  
 泄漏量：硬密封：D级 (液体0.1XDN mm<sup>3</sup>/s) 软密封：A级 (零泄漏)  
 配套附件：安装法兰

#### ■ Technical Parameter Range

Nominal pressure: 0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb  
 Nominal diameter: DN50~2000 mm NPS 2"~80"  
 Suitable temperature: 0~+1100°C  
 (Range of temperature subject to the material of sealing and property of medium)  
 Connecting flange: ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS  
 Main materials: WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、C.I.、2Cr25Ni20  
 Seal type: Stainless steel hard seal、Teflon soft seal  
 Leakage: Stainless steel hard seal: Grade D (Liquid 0.1XDN mm<sup>3</sup>/s)  
 Teflon soft seal: Grade A (Zero Leakage)  
 Accessories: Flange



FC3Z-6SSD10PW

气动带手动刀型闸阀  
Manual & Pneumatic Switch Knife Gate Valve

FC3Z-7SD10PW

液动刀型闸阀  
Hydraulic Knife Gate Valve

FC5Z-6SFD10CH

气动带手动刀型闸阀  
Manual & Pneumatic Switch Knife Gate Valve

FC3Z-7FD16CH

液动刀型闸阀  
Hydraulic Knife Gate Valve

## 液动刀型闸阀

### Hydraulic Knife Gate Valve

#### ■ 产品概述

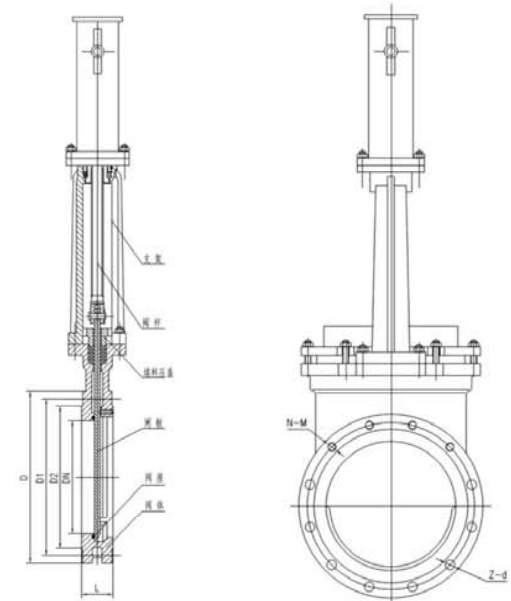
FLOWX液动刀型闸阀通过液动装置往复推位来控制阀门的开启和关闭，如配置传感器或数字显示装置，可进行远距离，高空危险地区集中或程序控制，广泛应用于冶金、电力、煤炭、矿山、水利等行业，是一种应用性强的新型更新替代产品。

#### ■ 技术参数范围

公称压力：0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb  
 公称口径：DN50~2000 mm NPS 2"~80"  
 适用温度：-38~+200°C (具体温度范围视密封副材质和介质性质而定)  
 连接法兰：ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS  
 主体材料：WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、C.I.、2Cr25Ni20  
 密封形式：硬密封、软密封  
 泄漏量：硬密封：D级 (液体0.1XDN mm<sup>3</sup>/s) 软密封：A级 (零泄漏)  
 配套附件：安装法兰

#### ■ Technical Parameter Range

Nominal pressure: 0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb  
 Nominal diameter: DN50~2000 mm NPS 2"~80"  
 Suitable temperature: -38~+200°C  
 (Range of temperature subject to the material of sealing and property of medium)  
 Connecting flange: ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS  
 Main materials: WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、C.I.、2Cr25Ni20  
 Seal type: Stainless steel hard seal、Teflon soft seal  
 Leakage: Stainless steel hard seal: Grade D (Liquid 0.1XDN mm<sup>3</sup>/s)  
 Teflon soft seal: Grade A (Zero Leakage)  
 Accessories: Flange





## 伞齿轮刀型闸阀

### Bevel Gear Knife Gate Valve

#### ■ 产品概述

FLOWX伞齿轮刀型闸阀为伞齿轮驱动，操作轻松灵活，常用于较大口径或较高压力场合人工手动操作。

#### ■ 技术参数范围

公称压力：0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb

公称口径：DN50~2000 mm NPS 2"~80"

适用温度：-38~+1100°C（具体温度范围视密封副材质和介质性质而定）

连接法兰：ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS

主体材料：WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、C.I.、2Cr25Ni20

密封形式：硬密封、软密封

泄漏量：硬密封：D级（液体0.1XDN mm<sup>3</sup>/s）软密封：A级（零泄漏）

配套附件：安装法兰

#### ■ Technical Parameter Range

Nominal pressure: 0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb

Nominal diameter: DN50~2000 mm NPS 2"~80"

Suitable temperature: -38~+1100°C

(Range of temperature subject to the material of sealing and property of medium)

Connecting flange: ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS

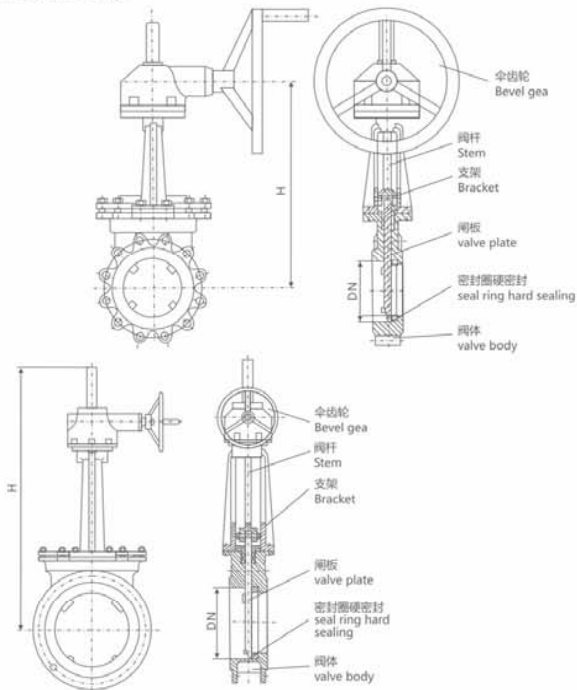
Main materials: WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、C.I.、2Cr25Ni20

Seal type: Stainless steel hard seal、Teflon soft seal

Leakage: Stainless steel hard seal: Grade D (Liquid 0.1XDN mm<sup>3</sup>/s)

Teflon soft seal: Grade A (Zero Leakage)

Accessories: Flange



FC4Z-5SD10KXC

伞齿轮刀型闸阀

Bevel Gear Knife Gate Valve



FC3Z-5FD10CH

伞齿轮刀型闸阀

Bevel Gear Knife Gate Valve



FC3Z-4LSD16PW

链轮传动刀型闸阀

Chainwheel Kinife Gate Valve



FC3Z-4LFD16CH

链轮传动刀型闸阀

Chainwheel Kinife Gate Valve

## 链轮传动刀型闸阀

### Chainwheel Kinife Gate Valve

#### ■ 产品概述

链轮刀型闸阀通常在操作空间较为苛刻的工况下选用，链条操作时应当使链条与链轮保持平行，切勿90度拉扯。产品适用于糖浆、纸浆、污水、煤浆、灰渣、粉尘、渣水混合物等介质管道。可作为介质切断和节流使用，该刀型闸阀适合水平安装，亦倾斜安装。

#### ■ 技术参数范围

公称压力：0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb

公称口径：DN50~2000 mm NPS 2"~80"

适用温度：-38~+1100°C（具体温度范围视密封副材质和介质性质而定）

连接法兰：ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS

主体材料：C.I.、WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、2Cr25Ni20

密封形式：硬密封、软密封

泄漏量：硬密封：D级（液体0.1XDN mm<sup>3</sup>/s）软密封：A级（零泄漏）

配套附件：安装法兰

#### ■ Technical Parameter Range

Nominal pressure: 0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb

Nominal diameter: DN50~2000 mm NPS 2"~80"

Suitable temperature: -38~+1100°C

(Range of temperature subject to the material of sealing and property of medium)

Connecting flange: ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS

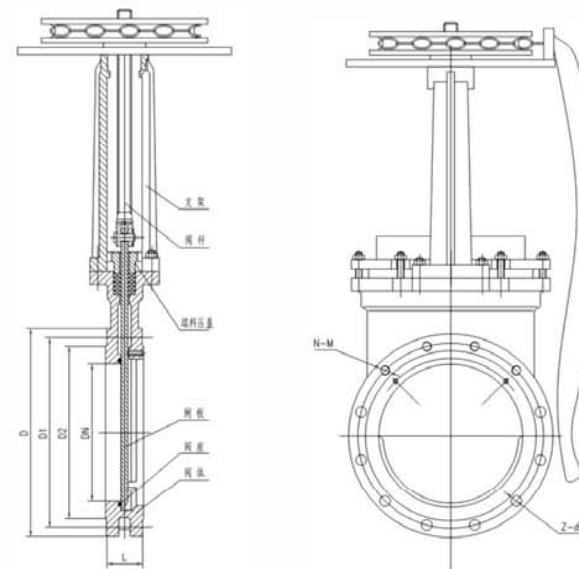
Main materials: C.I.、WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、2Cr25Ni20

Seal type: Stainless steel hard seal、Teflon soft seal

Leakage: Stainless steel hard seal: Grade D (Liquid 0.1XDN mm<sup>3</sup>/s)

Teflon soft seal: Grade A (Zero Leakage)

Accessories: Flange



## 暗杆刀型闸阀

### Non-rising Stem Knife Gate Valve

#### ■ 产品概述

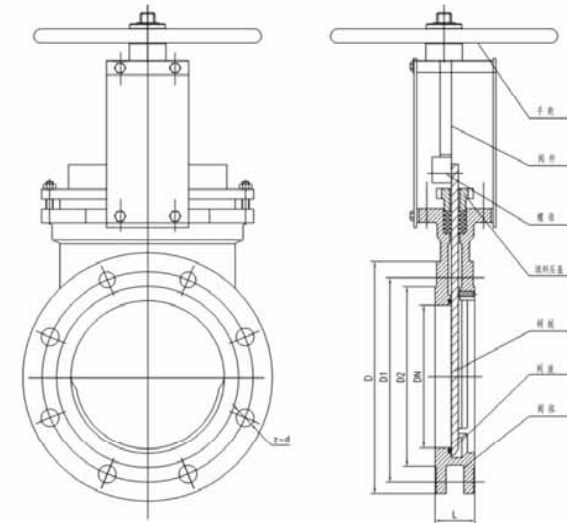
暗杆刀型闸阀采用闸杆侧装，启闭时闸杆无升降动作，节约安装空间。手动刀型闸阀只能作全开和全关，不能作调节和节流。暗杆刀型闸阀具有结构简单紧凑、设计合理、轻型节材、密封可靠、操作轻便灵活、体积小、通道流畅、流阻小、重量轻、易安装、易拆卸等优点。

#### ■ 技术参数范围

公称压力：0.6MPa, 1.0MPa, 1.6MPa, 2.5MPa, 150Lb  
 公称口径：DN50~600 mm NPS 2"~24"  
 适用温度：-38~+1100°C (具体温度范围视密封副材质和介质性质而定)  
 连接法兰：ANSI B16.5, GB/T9113, JB/T79, HG, SH, JIS, DIN, NF, BS  
 主体材料：C.I, WCB, ZG1Cr18Ni9Ti, ZG1Cr18Ni12Mo2Ti, CF8, CF8M, CF3, CF3M, 2Cr25Ni20  
 密封形式：硬密封、软密封  
 泄漏量：硬密封：D级 (液体0.1XDN mm<sup>3</sup>/s) 软密封：A级 (零泄漏)  
 配套附件：安装法兰

#### ■ Technical Parameter Range

Nominal pressure: 0.6MPa, 1.0MPa, 1.6MPa, 2.5MPa, 150Lb  
 Nominal diameter: DN50~2000 mm NPS 2"~24"  
 Suitable temperature: -38~+1100°C  
 (Range of temperature subject to the material of sealing and property of medium)  
 Connecting flange: ANSI B16.5, GB/T9113, JB/T79, HG, SH, JIS, DIN, NF, BS  
 Main materials: C.I, WCB, ZG1Cr18Ni9Ti, ZG1Cr18Ni12Mo2Ti, CF8, CF8M, CF3, CF3M, 2Cr25Ni20  
 Seal type: Stainless steel hard seal, Teflon soft seal  
 Leakage: Stainless steel hard seal: Grade D (Liquid: 0.1XDN mm<sup>3</sup>/s)  
 Teflon soft seal: Grade A (Zero Leakage)  
 Accessories: Flange



FC5AZ-5FD10CH  
暗杆刀型闸阀  
Non-rising Stem Knife Gate Valve



FC4AZ-FD10CH  
手动暗杆刀型闸阀  
Non-rising Stem Knife Gate Valve

## 暗板刀型闸阀产品概述

### Lidded Knife Gate Valve

#### ■ 产品概述

此刀型闸阀是闸阀中的新品种，体积小，重量轻，轻型节材，是污水、煤浆、糖浆、泥浆、空气、渣水混合物、供水、造纸、矿山等行业中的理想产品。

暗板刀型闸阀采用金属对金属的硬密封，或采用金属对橡胶的软密封。在开启和关闭的过程中，闸板与密封面采用了特殊的设计，摩擦较少，经久耐用。

此种刀型闸的上密封突破了常规的密封形式，采用上盖结构，使得上密封由大面积的矩形密封改成了小面积的圆周密封，密封性能大大提高。在圆周密封的基础上，又采用了目前国际上先进的浮动密封结构 (见图一)，使得上密封达到了与管道同寿命的程度，从而整体上提高了阀门的使用寿命。

此种闸阀在手轮顶部加装封套装置后，可以使阀门活动部件全部处于封闭状态，闸板和闸杆的丝杆传动不会因润滑油干涸而卡涩。特别适合于粉尘及干燥的恶劣环境中长期正常工作 (见图二)。

注：可根据使用单位的环境和要求来设计与生产，适合用户的安装和使用。

#### ■ Product introduction

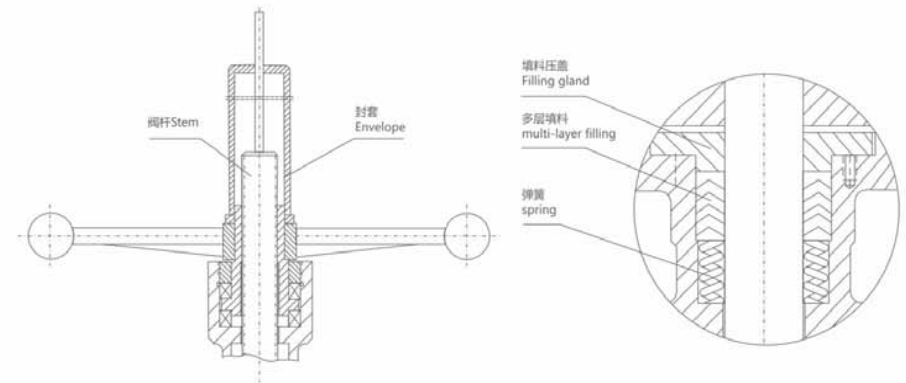
This knife gate valve is a new generation gate valve characteristic of small construction, low weight, and high material utilization. It is an ideal product for such sectors including sewage disposal, coal slurry, syrup, sludge, air, slag-water mix, water supply, papermaking, mining, etc.

The knife gate valve adopts metal-to-metal hard sealing or metal-to-rubber soft sealing. In the processing of valve switching on/off, the gate plate and sealing face are provided with special design, featuring limited friction and high durability.

The sealing of the knife gate valve represents a breakthrough in traditional sealing form. Upper cap structure changes large area rectangular sealing face of the upper sealing to small area circular sealing, with much enhanced sealing performance. Based on circular sealing, the valve is further provided with latest floating sealing construction (see Figure 1) in the world. Thus the upper sealing shares the same useful life with pipeline, so the overall useful life of the valve increases.

After envelope is added to the top of hand wheel, all the moving parts of the gate valve will be enclosed. Therefore, the rotation of lead screws between gate plate and stem will not block because of short supply of lubricating oil. In particular, the valve is applicable for long-term service in severely dusty and dry environment (see Figure 2).

Note: The valve could be designed and manufactured based on client's site conditions and requirements for better installation and application.



图(二)  
Figure 2

图(一)  
浮动密封，自动补偿磨损  
Figure 1 Floating sealing, automatic abrasion compensating



## 手动暗板刀型闸阀

### Manual Lidded Knife Gate Valve

#### 产品概述

带盖刀型闸阀（暗板刀型闸阀）又称为燃气专用阀，主要应用于燃气以及排污等气体或液体管道。有利于防止上封盖泄漏。主要特点是安装方便，节约成本，耐磨耐损。一般应用于粉料、浆液、气体等介质传输管道。

#### 技术参数范围

公称压力：0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb

公称口径：DN50~2000 mm NPS 2"~80"

适用温度：-38~+1100°C（具体温度范围视密封副材质和介质性质而定）

连接法兰：ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS

主体材料：WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、C.I、2Cr25Ni20

密封形式：硬密封、软密封

泄漏量：硬密封：D级（液体0.1XDN mm<sup>3</sup>/s）软密封：A级（零泄漏）

配套附件：安装法兰

#### Technical Parameter Range

Nominal pressure: 0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb

Nominal diameter: DN50~2000 mm NPS 2"~80"

Suitable temperature: -38~+1100°C

(Range of temperature subject to the material of sealing and property of medium)

Connecting flange: ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS

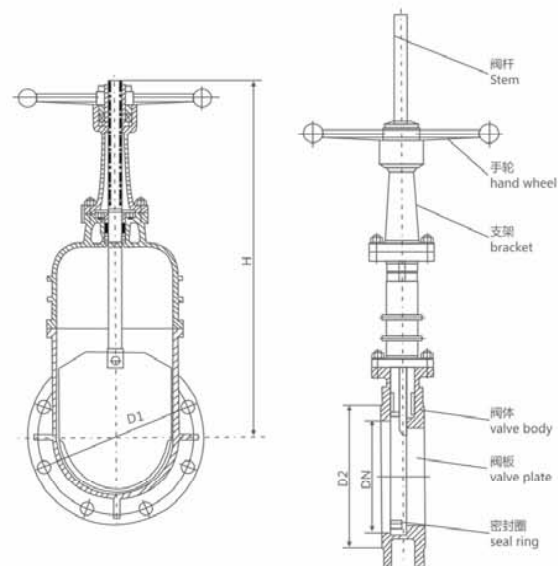
Main materials: WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、C.I、2Cr25Ni20

Seal type: Stainless steel hard seal、Teflon soft seal

Leakage: Stainless steel hard seal: Grade D (Liquid 0.1XDN mm<sup>3</sup>/s)

Teflon soft seal: Grade A (Zero Leakage)

Accessories: Flange



FCMZ-FD10RLW  
手动暗板刀型闸阀  
Manual Lidded Knife Gate Valve



FCMZ-SD10PW  
梅花型暗板刀型闸阀  
Manual Lidded Knife Gate Valve



FCMZ-6AFD10CH  
气动暗板刀型闸阀  
Pneumatic Lidded Knife Gate Valve



FCMZ-6AFD10CX  
气动暗板刀型闸阀  
Pneumatic Lidded Knife Gate Valve

## 气动暗板刀型闸阀

### Pneumatic Lidded Knife Gate Valve

#### 产品概述

FLOWX气动暗板刀型闸阀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。

#### 技术参数范围

公称压力：0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb

公称口径：DN50~2000 mm NPS 2"~80"

适用温度：-38~+1100°C（具体温度范围视密封副材质和介质性质而定）

连接法兰：ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS

主体材料：C.I、WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、2Cr25Ni20

密封形式：硬密封、软密封

泄漏量：硬密封：D级（液体0.1XDN mm<sup>3</sup>/s）软密封：A级（零泄漏）

配套附件：安装法兰

#### Technical Parameter Range

Nominal pressure: 0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb

Nominal diameter: DN50~2000 mm NPS 2"~80"

Suitable temperature: -38~+1100°C

(Range of temperature subject to the material of sealing and property of medium)

Connecting flange: ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS

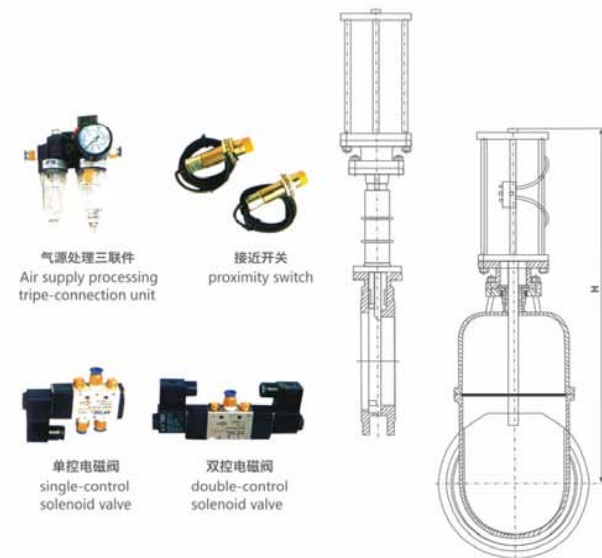
Main materials: C.I、WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、2Cr25Ni20

Seal type: Stainless steel hard seal、Teflon soft seal

Leakage: Stainless steel hard seal: Grade D (Liquid 0.1XDN mm<sup>3</sup>/s)

Teflon soft seal: Grade A (Zero Leakage)

Accessories: Flange



## 伞齿轮暗板刀型闸阀

### Bevel Gear Lidded Knife Gate Valve

#### ■ 产品概述

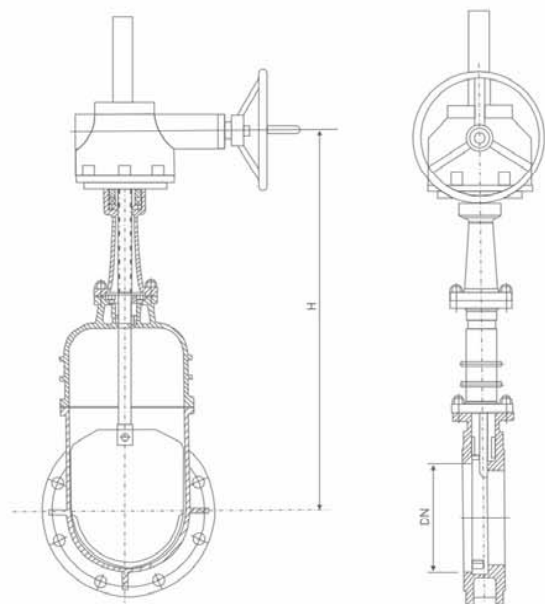
FLOWX伞齿轮暗板刀型闸阀为伞齿轮驱动，操作轻松灵活，常用于较大口径或较高压力场合人工手动操作。

#### ■ 技术参数范围

公称压力：0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb  
 公称口径：DN50~2000 mm NPS 2"~80"  
 适用温度：-38~+1100°C（具体温度范围视密封副材质和介质性质而定）  
 连接法兰：ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS  
 主体材料：C.I、WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、2Cr25Ni20  
 密封形式：硬密封、软密封  
 泄漏量：硬密封：D级（液体0.1XDN mm<sup>3</sup>/s）软密封：A级（零泄漏）  
 配套附件：安装法兰

#### ■ Technical Parameter Range

Nominal pressure: 0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb  
 Nominal diameter: DN50~2000 mm NPS 2"~80"  
 Suitable temperature: -38~+1100°C  
 (Range of temperature subject to the material of sealing and property of medium)  
 Connecting flange: ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS  
 Main materials: C.I、WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、2Cr25Ni20  
 Seal type: Stainless steel hard seal、Teflon soft seal  
 Leakage: Stainless steel hard seal: Grade D (Liquid 0.1XDN mm<sup>3</sup>/s)  
 Teflon soft seal: Grade A (Zero Leakage)  
 Accessories: Flange



**FCMZ-5FD10CF**  
伞齿轮暗板刀型闸阀  
Bevel Gear Lidded Knife Gate Valve



**FCMZ-5FD10PW**  
伞齿轮暗板刀型闸阀  
Bevel Gear Lidded Knife Gate Valve



**FCMZ-9FD10CH**  
电动暗板刀型闸阀  
Electric Lidded Knife Gate Valve



**FCMZ-9FD10PW**  
电动暗板刀型闸阀  
Electric Lidded Knife Gate Valve

## 电动暗板刀型闸阀

### Electric Lidded Knife Gate Valve

#### ■ 产品概述

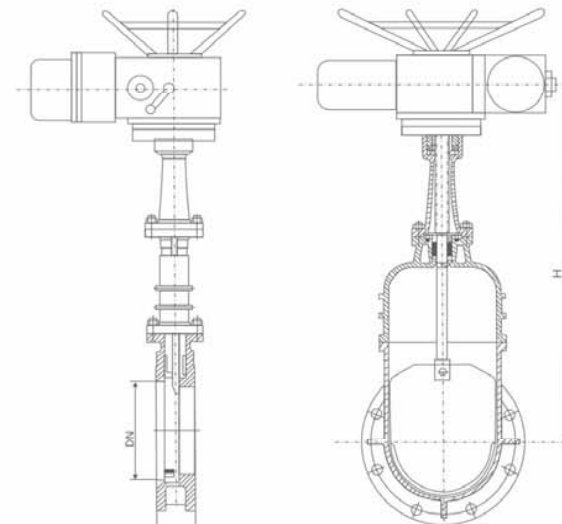
FLOWX电动暗板刀型闸阀驱动部分采用多回转电动装置，用以驱动和控制阀门的开启和关闭，操作人员可以在控制室内远距离对阀门进行控制也可以现场手动操作，也可以与计算机配合实现计算机自动控制。广泛应用于排水、供热、电站、化工、食品、造纸、制药、煤炭、采矿等工程，满足了现代工、农业自动化要求。

#### ■ 技术参数范围

公称压力：0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb  
 公称口径：DN50~2000 mm NPS 2"~80"  
 适用温度：-38~+2000°C（具体温度范围视密封副材质和介质性质而定）  
 连接法兰：ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS  
 主体材料：C.I、WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、2Cr25Ni20  
 密封形式：硬密封、软密封  
 泄漏量：硬密封：D级（液体0.1XDN mm<sup>3</sup>/s）软密封：A级（零泄漏）  
 配套附件：安装法兰

#### ■ Technical Parameter Range

Nominal pressure: 0.6MPa、1.0MPa、1.6MPa、2.5MPa、150Lb  
 Nominal diameter: DN50~2000 mm NPS 2"~80"  
 Suitable temperature: -38~+2000°C  
 (Range of temperature subject to the material of sealing and property of medium)  
 Connecting flange: ANSI B16.5、GB/T9113、JB/T79、HG、SH、JIS、DIN、NF、BS  
 Main materials: C.I、WCB、ZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3、CF3M、2Cr25Ni20  
 Seal type: Stainless steel hard seal、Teflon soft seal  
 Leakage: Stainless steel hard seal: Grade D (Liquid 0.1XDN mm<sup>3</sup>/s)  
 Teflon soft seal: Grade A (Zero Leakage)  
 Accessories: Flange





## 电液动暗板刀型闸阀

### Electric & Hydraulic Lidded Knife Gate Valve

#### ■ 产品概述

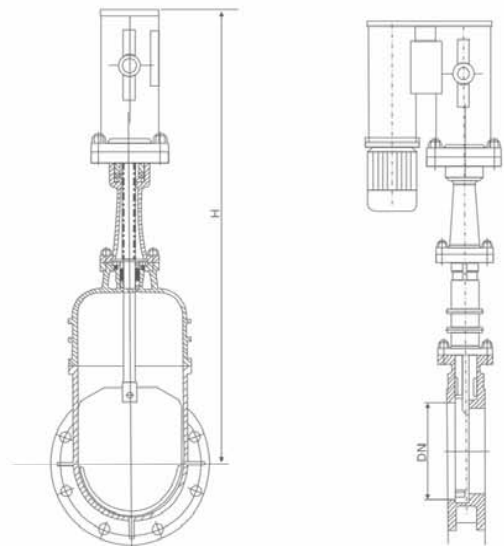
FLOWX电液动暗板刀型闸阀通过电液联动装置往复推位来控制阀门的开启和关闭,如配置传感器或数字显示装置,可进行远距离,高空的危险地区集中或程序控制,广泛应用于冶金、电力、煤炭、矿山、水利等行业,是一种应用性强的新型更新替代产品。

#### ■ 技术参数范围

公称压力: 0.6MPa, 1.0MPa, 1.6MPa, 2.5MPa, 150Lb  
 公称口径: DN50~2000 mm NPS 2"~80"  
 适用温度: -38~+1100°C (具体温度范围视密封副材质和介质性质而定)  
 连接法兰: ANSI B16.5, GB/T9113, JB/T79, HG, SH, JIS, DIN, NF, BS  
 主体材料: C.I, WCB, ZG1Cr18Ni9Ti, ZG1Cr18Ni12Mo2Ti, CF8, CF8M, CF3, CF3M, 2Cr25Ni20  
 密封形式: 硬密封, 软密封  
 泄漏量: 硬密封: D级 (液体0.1XDN mm<sup>3</sup>/s) 软密封: A级 (零泄漏)  
 配套附件: 安装法兰

#### ■ Technical Parameter Range

Nominal pressure: 0.6MPa, 1.0MPa, 1.6MPa, 2.5MPa, 150Lb  
 Nominal diameter: DN50~2000 mm NPS 2"~80"  
 Suitable temperature: -38~+1100°C  
 (Range of temperature subject to the material of sealing and property of medium)  
 Connecting flange: ANSI B16.5, GB/T9113, JB/T79, HG, SH, JIS, DIN, NF, BS  
 Main materials: C.I, WCB, ZG1Cr18Ni9Ti, ZG1Cr18Ni12Mo2Ti, CF8, CF8M, CF3, CF3M, 2Cr25Ni20  
 Seal type: Stainless steel hard seal, Teflon soft seal  
 Leakage: Stainless steel hard seal: Grade D (Liquid 0.1XDN mm<sup>3</sup>/s)  
 Teflon soft seal: Grade A (Zero Leakage)  
 Accessories: Flange



**FCMZ-2FD10CX**  
电液动暗板刀型闸阀  
Electric & Hydraulic Lidded Knife Gate Valve

**FCMZ-4LFD10PW**  
链轮暗板刀型闸阀  
Chainwheel Lidded Knife Gate Valve

**FCMZ-2FD10PW**  
电液动暗板刀型闸阀  
Electric & Hydraulic Lidded Knife Gate Valve

**FCMZ-4LFD10PW**  
链轮暗板刀型闸阀  
Chainwheel Lidded Knife Gate Valve

## 链轮暗板刀型闸阀

### Chainwheel Lidded Knife Gate Valve

#### ■ 产品概述

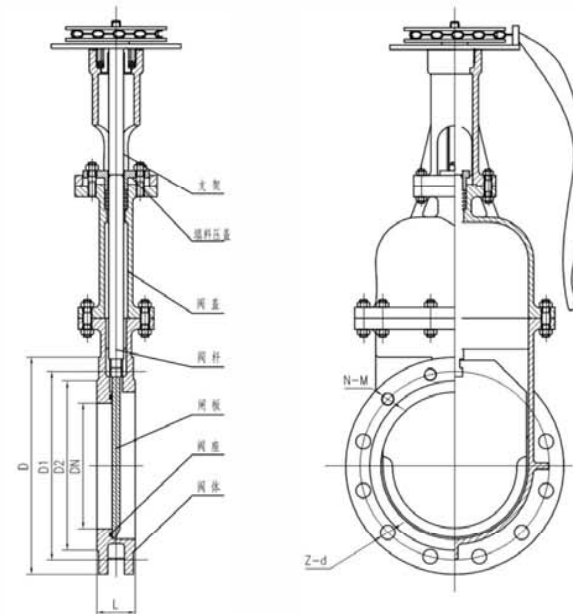
FLOWX链轮暗板刀型闸阀适用于糖浆、纸浆、泥浆、污水、煤浆等介质管路上,作启闭调节和节流使用,适用于水平安装,亦可倾斜安装。

#### ■ 技术参数范围

公称压力: 0.6MPa, 1.0MPa, 1.6MPa, 2.5MPa, 150Lb  
 公称口径: DN50~2000 mm NPS 2"~80"  
 适用温度: -38~+1100°C (具体温度范围视密封副材质和介质性质而定)  
 连接法兰: ANSI B16.5, GB/T9113, JB/T79, HG, SH, JIS, DIN, NF, BS  
 主体材料: C.I, WCB, ZG1Cr18Ni9Ti, ZG1Cr18Ni12Mo2Ti, CF8, CF8M, CF3, CF3M, 2Cr25Ni20  
 密封形式: 硬密封, 软密封  
 泄漏量: 硬密封: D级 (液体0.1XDN mm<sup>3</sup>/s) 软密封: A级 (零泄漏)  
 配套附件: 安装法兰

#### ■ Technical Parameter Range

Nominal pressure: 0.6MPa, 1.0MPa, 1.6MPa, 2.5MPa, 150Lb  
 Nominal diameter: DN50~2000 mm NPS 2"~80"  
 Suitable temperature: -38~+1100°C  
 (Range of temperature subject to the material of sealing and property of medium)  
 Connecting flange: ANSI B16.5, GB/T9113, JB/T79, HG, SH, JIS, DIN, NF, BS  
 Main materials: C.I, WCB, ZG1Cr18Ni9Ti, ZG1Cr18Ni12Mo2Ti, CF8, CF8M, CF3, CF3M, 2Cr25Ni20  
 Seal type: Stainless steel hard seal, Teflon soft seal  
 Leakage: Stainless steel hard seal: Grade D (Liquid 0.1XDN mm<sup>3</sup>/s)  
 Teflon soft seal: Grade A (Zero Leakage)  
 Accessories: Flange



## FZ73X 手动浆液阀

### Manual Slurry Valve

#### ■ 产品概述

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。

#### ■ 技术参数范围

公称压力：0.6MPa、1.0MPa、1.6MPa  
公称口径：DN50~1000 mm  
适用温度：-15~+200°C  
连接法兰：GB/T9113、JB/T79  
主体材料：HT250、WCB、CF8  
密封形式：软密封  
泄漏量：A级（零泄漏）  
配套附件：安装法兰

#### ■ Technical Parameter Range

Nominal pressure: 0.6MPa、1.0MPa、1.6MPa  
Nominal diameter: DN50~1000 mm  
Suitable temperature: -15~+200°C  
Connecting flange: GB/T9113、JB/T79  
Main materials: HTC250、WCB、CF8  
Seal type: Teflon soft seal  
Accessories: Flange



FZA73X  
手动浆液阀  
Manual Slurry Valve



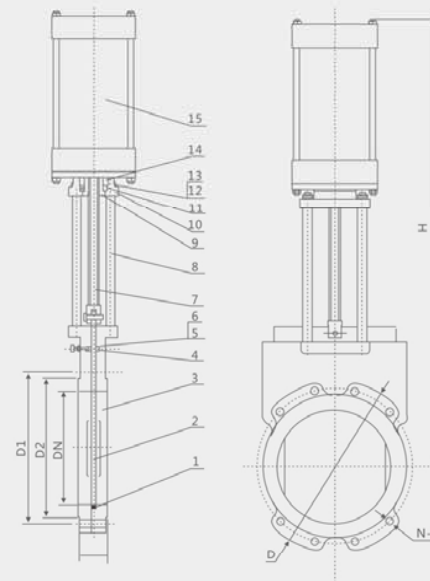
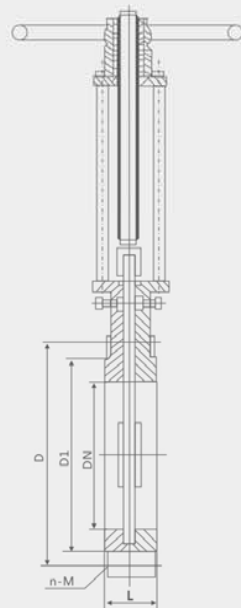
FZ73X  
手动浆液阀  
Manual Slurry Valve



FZ673X  
气动浆液阀  
Pneumatic Slurry Valve



FC5Z-6ATD10CX  
气动浆液阀  
Pneumatic Slurry Valve



## FZ673X 气动浆液阀

### Pneumatic Slurry Valve

#### ■ 产品概述

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。

#### ■ 技术参数范围

公称压力：0.6MPa、1.0MPa、1.6MPa  
公称口径：DN50~1000 mm  
适用温度：-15~+200°C  
连接法兰：GB/T9113、JB/T79  
主体材料：HT250、WCB、CF8  
密封形式：软密封  
泄漏量：A级（零泄漏）  
配套附件：安装法兰

#### ■ Technical Parameter Range

Nominal pressure: 0.6MPa、1.0MPa、1.6MPa  
Nominal diameter: DN50~1000 mm  
Suitable temperature: -15~+200°C  
Connecting flange: GB/T9113、JB/T79  
Main materials: HTC250、WCB、CF8  
Seal type: Teflon soft seal  
Accessories: Flange



## FZ973X 电动浆液阀

### Electric Slurry Valve

#### ■ 产品概述

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。

#### ■ 技术参数范围

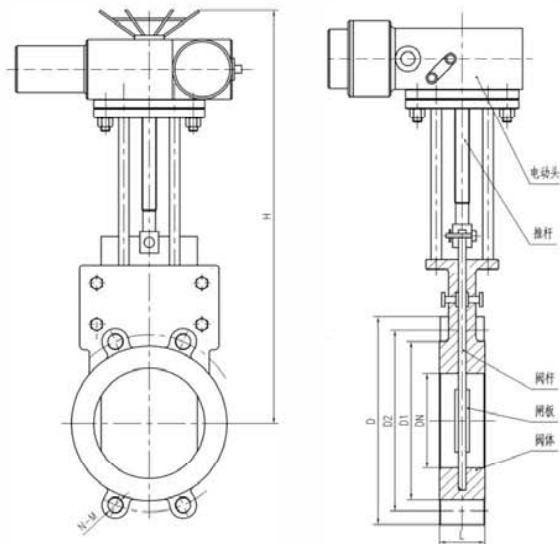
公称压力：0.6MPa、1.0MPa、1.6MPa  
公称口径：DN50~700 mm  
适用温度：-38~+200°C  
连接法兰：GB/T9113、JB/T 79  
主体材料：HT250、WCB、CF8  
密封形式：软密封  
泄漏量：A级（零泄漏）  
配套附件：安装法兰

#### ■ Product introduction

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.

#### ■ Technical Parameter Range

Nominal pressure: 0.6MPa, 1.0MPa, 1.6MPa  
Nominal diameter: DN50~700 mm  
Suitable temperature: -38~+200°C  
Connecting flange: GB/T9113, JB/T 79  
Main materials: HT250, WCB, CF8  
Seal type: Teflon soft seal  
Leakage: Grade A (Zero Leakage)  
Accessories: Flange



FZ973X  
电动浆液阀  
Electric Slurry Valve



FZ973X  
电动浆液阀  
Electric Slurry Valve



FZ573X  
伞齿轮浆液阀  
Bevel Gear Slurry Valve



FZ573X  
伞齿轮浆液阀  
Bevel Gear Slurry Valve

## FZ573X 伞齿轮浆液阀

### Bevel Gear Slurry Valve

#### ■ 产品概述

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。

#### ■ 技术参数范围

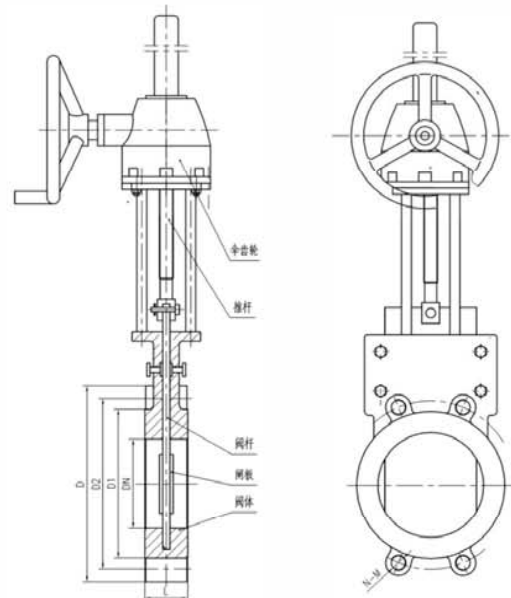
公称压力：0.6MPa、1.0MPa、1.6MPa  
公称口径：DN50~1000 mm  
适用温度：-15~+200°C  
连接法兰：GB/T9113、JB/T 79  
主体材料：HT250、WCB、CF8  
密封形式：软密封  
泄漏量：A级（零泄漏）  
配套附件：安装法兰

#### ■ Product introduction

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.

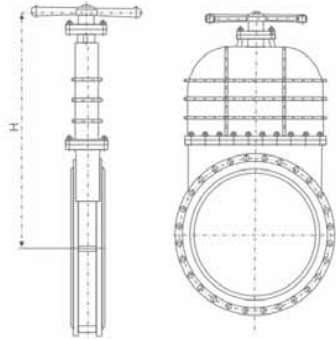
#### ■ Technical Parameter Range

Nominal pressure: 0.6MPa, 1.0MPa, 1.6MPa  
Nominal diameter: DN50~600 mm  
Suitable temperature: -15~+200°C  
Connecting flange: GB/T9113, JB/T 79  
Main materials: HT250, WCB, CF8  
Seal type: Teflon soft seal  
Leakage: Grade A (Zero Leakage)  
Accessories: Flange



## FCMAZ刀型污水闸阀（暗板暗杆）

Lidded Knife Gate Valve (cover & non-rising stem)



### 产品概述

FLOWX刀型污水闸阀（暗板暗杆）是我公司最新开发出来的新一代污水处理刀型闸阀，结构紧凑，重量轻，无论开启还是关闭，阀门高度均无变化，大大节省了安装空间，可以在室内安装使用。

### 特点

- 阀门高度低、重量轻，节省材料。
- 安装空间小，适用性强。
- 采用浮动密封，性能好，是环保型刀型闸阀

单位 Unit: mm

|                                  |      |      |      |      |      |      |      |      |      |
|----------------------------------|------|------|------|------|------|------|------|------|------|
| 公称通径<br>Nominal through diameter | 500  | 600  | 700  | 800  | 900  | 1000 | 1200 | 1400 | 1600 |
| 高度<br>Height                     | 1014 | 1201 | 1357 | 1480 | 1550 | 1950 | 2280 | 2660 | 3100 |

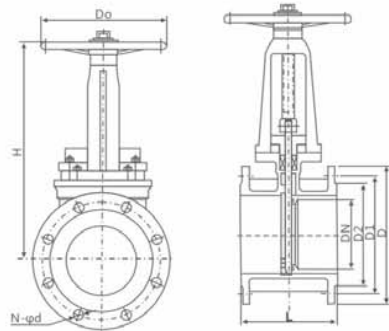
## Fpz43 法兰式刀型闸阀

Flange Knife Gate Valve



### 主要零部件材质 Key parts material

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



### 产品说明

该阀是我厂结合国内闸阀使用过程中的实际问题，新开发出的一种用于替代普通闸阀的更新换代产品。

- 结构长度可根据用户要求订做；
- 可根据用户要求做成明杆或暗杆。

## 穿透式插板阀

Through-Conduit Knife Gate Valve

### 产品概述 Product introduction

插板阀显著特点：阀腔不积渣，特别适合于浆体输送及粉体颗粒的输送。

Distinct features of gate valve: no slag accumulation in valve chamber; extremely suitable for conveying sludge and powder.

### 主要零部件材质 Key parts material

|       |       |                       |                   |
|-------|-------|-----------------------|-------------------|
| 阀体、上盖 | 球墨铸铁  | Valve body, upper cap | Nodular Cast Iron |
| 阀板    | 不锈钢   | Valve plate           | stainless steel   |
| 阀杆    | 不锈钢   | Stem                  | stainless steel   |
| 密封圈   | 四氟、橡胶 | Seal ring             | PTFE, Rubber      |

### 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°C 四氟密封 ≤180°C<br>Rubber ≤80°C, PTFE ≤180°C   |
| 适用介质 Working medium        | 干灰、纸浆、糖浆、污水、煤气粉末颗粒、渣水混合物等<br>Dry dust, paper pulp, syrup, sewage, gas, powder, particle, slag-water mix, etc. |

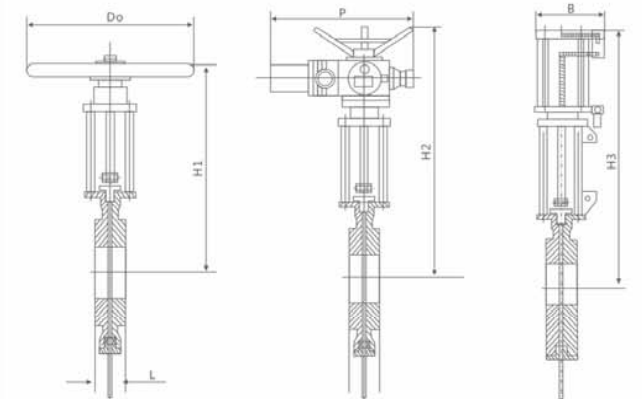
### 主要外形及连接尺寸 Profile and connection dimension

单位 Unit: mm

| DN  | L   | H1   | H2   | H3   | D1  | D2  | D0  | N-M    | P   | B   |
|-----|-----|------|------|------|-----|-----|-----|--------|-----|-----|
| 100 | 51  | 405  | 705  | 585  | 180 | 156 | 240 | 8-M16  | 490 | 170 |
| 125 | 57  | 450  | 750  | 665  | 210 | 184 | 260 | 8-M16  | 490 | 190 |
| 150 | 57  | 510  | 810  | 770  | 240 | 211 | 280 | 8-M20  | 490 | 240 |
| 200 | 70  | 615  | 930  | 920  | 295 | 266 | 300 | 12-M20 | 520 | 335 |
| 250 | 70  | 715  | 1080 | 1175 | 355 | 319 | 320 | 12-M24 | 520 | 335 |
| 300 | 76  | 822  | 1140 | 1255 | 410 | 370 | 340 | 12-M24 | 520 | 335 |
| 350 | 76  | 975  | 1290 | 1455 | 470 | 429 | 360 | 16-M24 | 520 | 350 |
| 400 | 89  | 1024 | 1344 | 1559 | 525 | 480 | 400 | 16-M27 | 605 | 390 |
| 450 | 89  | 1235 | 1560 | 1926 | 585 | 548 | 450 | 20-M27 | 605 | 430 |
| 500 | 114 | 1265 | 1610 | 2226 | 650 | 609 | 500 | 20-M30 | 605 | 430 |

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.





## FSKZ矿浆阀 Slurry Valves

### ■ 技术标准

1. 设计制造标准: JB/T 8691
2. 结构长度标准: GB/T 15188.2
3. 法兰连接标准: GB 9113
4. 检验试验标准: JB/T 13927

### ■ Technical standards

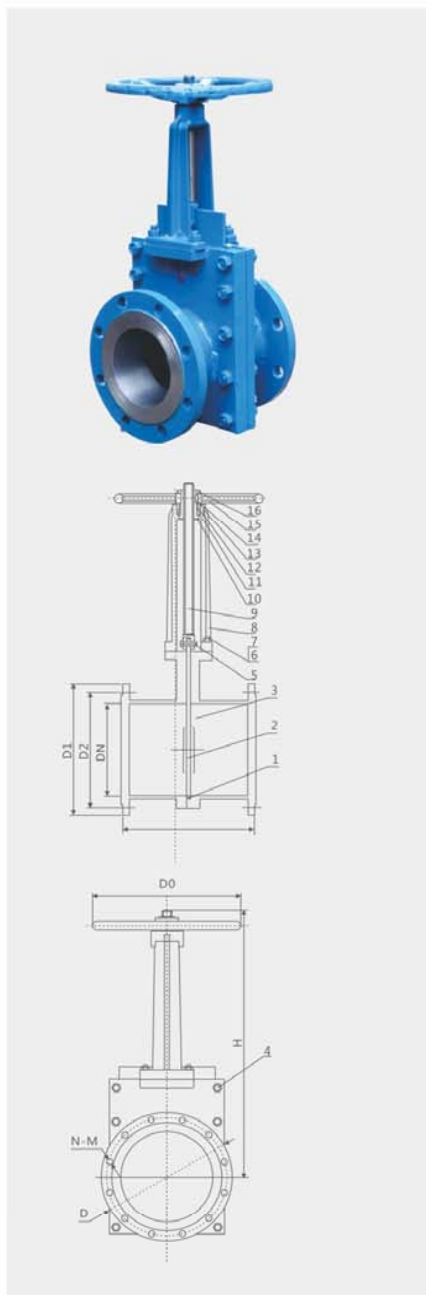
1. Design and manufacture: JB/T8691
2. Face to face: GB/T15188.2
3. Flange drilling:GB / 9113
4. Test standard:JB/T13927.

| DN  | L   | D   | D1  | D2  | H    | N-M    | D0  |
|-----|-----|-----|-----|-----|------|--------|-----|
| 50  | 220 | 160 | 125 | 100 | 295  | 4-M16  | 180 |
| 65  | 220 | 180 | 145 | 120 | 305  | 4-M16  | 180 |
| 80  | 220 | 195 | 160 | 135 | 330  | 4-M16  | 220 |
| 100 | 220 | 215 | 180 | 155 | 380  | 8-M16  | 220 |
| 125 | 250 | 245 | 210 | 185 | 415  | 8-M16  | 280 |
| 150 | 270 | 280 | 240 | 210 | 490  | 8-M20  | 280 |
| 200 | 270 | 335 | 295 | 265 | 550  | 8-M20  | 280 |
| 250 | 290 | 390 | 350 | 320 | 693  | 12-M20 | 360 |
| 300 | 320 | 440 | 400 | 368 | 796  | 12-M20 | 400 |
| 350 | 350 | 500 | 460 | 428 | 895  | 16-M20 | 400 |
| 400 | 370 | 565 | 515 | 482 | 1004 | 16-M22 | 500 |
| 450 | 420 | 615 | 565 | 532 | 1110 | 20-M22 | 500 |
| 500 | 450 | 670 | 620 | 585 | 1210 | 20-M22 | 600 |
| 600 | 500 | 780 | 725 | 685 | 1460 | 20-M27 | 600 |

### ■ 主要性能规范 Key performance indicators

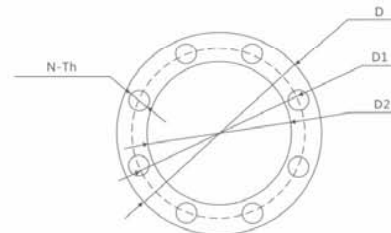
|                                 |  |
|---------------------------------|--|
| 公称压力Nominal pressure ( MPa )    | 1.0  |
| 壳体试验Shell test ( MPa )          | 1.5  |
| 密封试验Seal test ( MPa )           | 1.1  |
| 工作温度 Working temperature ( °C ) | ≤100   |
| 适用介质 Applicable medium          | 渣水混合物、煤浆、灰、纸浆<br>Slag water mixture, CWM, grey, pulp |

| 序号<br>Serial number | 名称 name                   | 材料 materials       |
|---------------------|---------------------------|--------------------|
| 1                   | 阀座 seat                   | WCB                |
| 2                   | 阀板 disc                   | 301                |
| 3                   | 阀体 body                   | 不锈钢Stainless steel |
| 4                   | 锁紧螺母 Lock nut             | B7                 |
| 5                   | 销轴 Pin shaft              | 304                |
| 6                   | 双头螺栓 Double end studs     | 2H                 |
| 7                   | 螺母 nut                    | B7                 |
| 8                   | 支架 stents                 | WCB                |
| 9                   | 阀杆 stem                   | 304                |
| 10                  | 阀杆螺母 Stem nut             | 铜合金 Copper alloy   |
| 11                  | 轴承 bearing                |                    |
| 12                  | 轴承压盖 Bearing gland        | 35                 |
| 13                  | 锁紧螺钉 screw                | B7                 |
| 14                  | 键 key                     |                    |
| 15                  | 手轮 The handwheel          | Ht250              |
| 16                  | 手轮锁紧螺母 Handwheel lock nut | Q235               |



## 法兰连接尺寸 Flange Connection Dimension

### ■ PN10(GB/T9113.1) / PN16(GB/T9113.1)



### ■ PN10(GB/T9113.1)

| DN   | D    | D1   | D2   | N-Th   | d   |
|------|------|------|------|--------|-----|
| 50   | 165  | 125  | 99   | 4-M16  | φ18 |
| 65   | 185  | 145  | 118  | 4-M16  | φ18 |
| 80   | 200  | 160  | 132  | 8-M16  | φ18 |
| 100  | 220  | 180  | 156  | 8-M16  | φ18 |
| 125  | 250  | 210  | 184  | 8-M16  | φ18 |
| 150  | 285  | 240  | 211  | 8-M20  | φ23 |
| 200  | 340  | 295  | 266  | 8-M20  | φ23 |
| 250  | 395  | 350  | 319  | 12-M20 | φ23 |
| 300  | 445  | 400  | 370  | 12-M20 | φ23 |
| 350  | 505  | 460  | 429  | 16-M20 | φ23 |
| 400  | 565  | 515  | 480  | 16-M24 | φ27 |
| 450  | 615  | 565  | 530  | 20-M24 | φ27 |
| 500  | 670  | 620  | 582  | 20-M24 | φ27 |
| 600  | 780  | 725  | 682  | 20-M27 | φ30 |
| 700  | 895  | 840  | 794  | 24-M27 | φ30 |
| 800  | 1015 | 950  | 901  | 24-M30 | φ33 |
| 900  | 1115 | 1050 | 1001 | 28-M30 | φ33 |
| 1000 | 1230 | 1160 | 1112 | 28-M33 | φ36 |
| 1200 | 1455 | 1380 | 1328 | 32-M36 | φ39 |

d:代表凸耳式通孔尺寸  
d:Lugged drilling size

### ■ PN16(GB/T9113.1)

| DN   | D    | D1   | D2   | N-Th   | d   |
|------|------|------|------|--------|-----|
| 50   | 165  | 125  | 99   | 4-M16  | φ18 |
| 65   | 185  | 145  | 118  | 4-M16  | φ18 |
| 80   | 200  | 160  | 132  | 8-M16  | φ18 |
| 100  | 220  | 180  | 156  | 8-M16  | φ18 |
| 125  | 250  | 210  | 184  | 8-M16  | φ18 |
| 150  | 285  | 240  | 211  | 8-M20  | φ23 |
| 200  | 340  | 295  | 266  | 12-M20 | φ23 |
| 250  | 405  | 355  | 319  | 12-M24 | φ27 |
| 300  | 460  | 410  | 370  | 12-M24 | φ27 |
| 350  | 520  | 470  | 429  | 16-M24 | φ27 |
| 400  | 580  | 525  | 480  | 16-M27 | φ30 |
| 450  | 640  | 585  | 548  | 20-M27 | φ30 |
| 500  | 715  | 650  | 609  | 20-M30 | φ33 |
| 600  | 840  | 770  | 720  | 20-M33 | φ36 |
| 700  | 910  | 840  | 794  | 24-M33 | φ36 |
| 800  | 1025 | 950  | 901  | 24-M36 | φ39 |
| 900  | 1125 | 1050 | 1001 | 28-M36 | φ39 |
| 1000 | 1255 | 1170 | 1112 | 28-M39 | φ42 |
| 1200 | 1485 | 1390 | 1328 | 32-M45 | φ48 |

d:代表凸耳式通孔尺寸  
d:Lugged drilling size

### ■ 浆阀通用参数 Slurry Knife Gate Valves Common Parameter

|                               | 单位: mm |     |     |     |     |     |     |     |     |     |     |      |      |      |
|-------------------------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| 口径 ( DN )<br>Nominal diameter | 50     | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450  | 500  | 600  |
| 结构长度 ( L )<br>Face to face    | 50     | 50  | 50  | 50  | 50  | 60  | 60  | 70  | 76  | 76  | 100 | 114  | 114  | 114  |
| 参考单重(KG)<br>Weight            | 8      | 10  | 12  | 13  | 19  | 23  | 34  | 52  | 71  | 96  | 129 | 150  | 205  | 298  |
| 参考高度(H)<br>Height             | 285    | 298 | 315 | 365 | 400 | 475 | 540 | 630 | 780 | 885 | 990 | 1100 | 1200 | 1450 |

本公司保留产品技术参数的修改权, 恕不另行通知: 不详之处请向我公司垂询。  
Reserver the right to change specifications without notice

## 刀型闸阀、浆液阀安装使用说明

### Slurry Knife Gate Valve Installation Instructions

#### ■ 产品概述

1. 安装前须检查阀门型号是否与工况相符。
2. 橡胶、四氟等软密封，须检查阀门内腔及密封面等部位有无杂物，如有须清洗干净。
3. 用于在安装前必须考虑预留阀门驱动装置的必要空间。
4. 本企业电（液）动阀门出厂时均已调试好，用户第一次使用时，为防止接线错误，先手动将阀门开至半开状态，再接通电源进行空载试开。
5. 气（液）动阀门气源必须保证供给足够气（液）压。
6. 安装时各螺栓要均匀拧紧。
7. 安装时不能强烈撞击阀门或任意拧动阀门零部件。
8. 阀门上密封处外露的，须定期加注密封脂类。
9. 在较为干燥的地区，阀门驱动装置为正齿轮时，须定期加注润滑油。

#### ■ 维护

可能出现的故障：密封泄漏、上密封密封泄漏、法兰端面、阀门开关卡涩、阀门开关失灵。

可能的故障原因：密封圈有杂物、密封圈损坏、上密封填料松动、上密封填料失效、连接螺栓未均匀拧紧、法兰垫片失效、驱动装置失去润滑、驱动装置损坏。

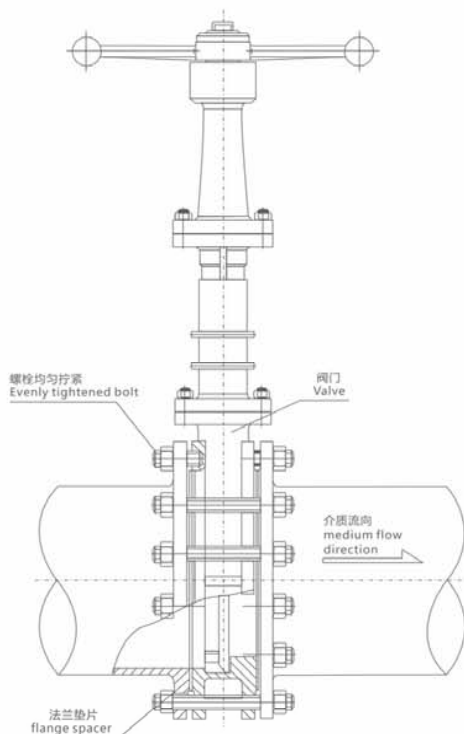
排除故障的方法：清洁密封面、更换密封圈或研磨密封面、拧紧填料或压盖上的螺栓、注油或更换上密封填料、均匀拧紧法兰连接螺栓更换法兰垫片、给阀门驱动装置加注润滑油、更换驱动装置或请专业人士维修

#### ■ Installation and application

1. Check valve model according to work conditions before installing.
2. When soft sealing such as rubber and PTFE is used, check valve chamber and sealing face for impurities. Clean if any.
3. Take into consideration the necessary space for valve driving device before in stallation.
4. The electric (electric and hydraulic) valves have been adjusted well in factory. For prevention against incorrect wiring, user shall turn the valve on to a halfopen position during first use and then power on for idling and test run.
5. Air supply of pneumatic/hydraulic valve must ensure sufficient pneumatic/hydraulic pressure.
6. The screws must be tightened evenly during installing.
7. Do not impact the valve intensively during installing or turn valve parts without authorization.
8. Add sealing grease regularly to the exposed parts of the upper sealing of valve.
9. In dry regions, lubricate valve driving device regularly when spur gear is utilized.

#### ■ Maintenance

Possible malfunction: Sealing leakage, Upper sealing leakage, Flange end surface. Valve switch block. Valve switch failure. Cause: Impurities in seal ring. Damaged seal ring. Upper sealing filling loosening. Upper sealing filling failure. Connecting bolts not evenly tightened Flange spacer failure. Driving device not lubricated. Damaged driving device. Countermeasure: Clean sealing face. Replace or grind sealing face Tighten the bolts on filling or gland Lubricate or replace upper sealing filling Tighten connecting bolts of flange Replace flange spacer Add lubricating oil to valve driving device Replace driving device or ask technician for repair



## 陶瓷阀门概述

### Ceramic Valves Production Introduction

#### ■ 产品概述

陶瓷阀门根据不同用途更换材料,可用于不同温度和介质中。尤其是面对高磨损、强腐蚀、高温、高压等恶劣工况,陶瓷阀更显示出它卓越的性能。陶瓷阀门除了满足高磨损、强腐蚀的使用环境,其突出的特点是超长的使用寿命,性能价格比远远优于其它同类金属阀门。随着科学技术的不断发展和进步,陶瓷材料从配方、成型、加工及装配工艺等方面的技术更加趋于成熟和完备,陶瓷阀门以其优异的性能越来越得到阀门行业人士的认同。

#### ■ 适用范围

火力发电厂、钢铁、石油、化工、造纸、生物工程。等行业。适用于锅炉蒸气、石灰浆液、含颗粒海水输送、高硬度颗粒、含软颗粒又带腐蚀性介质、粉末、烟气脱硫、排灰、排渣、给水处理。

#### ■ 性能优势

1. 陶瓷阀门采用高技术新型陶瓷结构材料制作阀门的密封部件和易损部件,陶瓷材料化学稳定性且硬度极高(洛氏硬度HRC90),仅次于金刚石。因此本阀具有极高的耐磨损、耐腐蚀、耐冲蚀性能,且隔热性好,热膨胀小,大大延长了阀门的使用寿命。
2. 陶瓷阀门可大大的提高工业管道系统的流畅性,密封性,能最大限度的减小泄露,从而保护环境。
3. 陶瓷阀门的使用可以大大降低阀门的维修更换次数,提高配套设备运行系统的安全性、稳定性,节约设备修理费用。
4. 制造陶瓷的原料广泛,成本低廉,用铝、碳、硅等普通元素就能制造出性能优越的陶瓷材料,可以节约大量金属材料 and 稀有的矿产资源。

#### ■ Product introduction

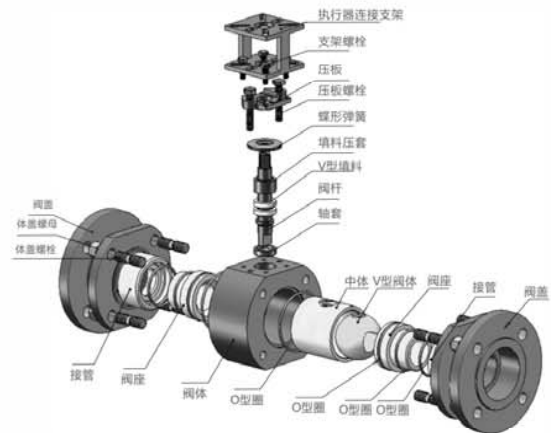
Ceramic valve according to different uses, different temperature and medium replacement material, Especially for high wear, high corrosion, high temperature, high pressure and other harsh conditions, ceramic valves also demonstrated its superior performance. Ceramic valves in addition to use for the environment with high wear, corrosion, outstanding special the point is a long service life, cost performance is more better than other comparable metal valves. With the continuous development and progress of science and technology, the ceramic material from the formulation, molding, machining and assembly process technology is more mature and complete, ceramic valves for its outstanding performance, get more and more recognition of the valve industry.

#### ■ Application

Thermal power plants, iron and steel, petroleum, chemical, paper, bio-engineering, and other industries. For boiler steam, lime slurry containing particles of sea water, high hardness particles containing soft particles and corrosive media, powder, flue gas desulfurization, ash, slag, water supply treatment.

#### ■ Performance advantages

1. ceramic valves with valve sealing parts and wearing parts in the high-tech new ceramic structural materials, ceramic materials chemical stability and hardness High (Rockwell hardness HRC90), second only to diamond. Therefore, the valve has a very high resistance to wear, corrosion, erosion resistance, and insulation Thermal expansion, greatly extending the life of the valve.
2. Ceramic valves can greatly improve the fluency of industrial piping systems, sealing, can reduce the maximum disclosure, so as to protect the Environment.
3. use ceramic valves can greatly reduce the number of replacement valve repair, improve equipment operation supporting system security, stability, Resources.
4. wide range of low-cost raw material for the manufacture of ceramic, aluminum, carbon, silicon, and other common factors can produce superior performance ceramic materials can save a large number of metal materials and rare mineral saving set in repair costs.





## FPZ73G薄型陶瓷排渣液浆阀 Manual Ceramic Slurry Knife Gate Valve

### 产品概述

本阀适用于高硬度的颗粒例如（灰渣水）等介质，或有软颗粒但又有腐蚀性的介质的管道上作启闭之用。公称压力1.0MPa，适应温度≤150℃。密封面采用硬密封与介质接触的部分均为结构陶瓷材料，其化学稳定性及硬度极高。因此，本阀具有极高的耐磨损、耐腐蚀、耐冲蚀性能，且隔热性好、热膨胀小。

本阀阀口全流通无阻挡物，耐磨性能强，密封性能好，启动负荷小，卡灰及结灰现象少。

本阀采用高档增韧结构陶瓷密封，机械强度高，耐磨性能好，使用寿命长。结构紧凑可任意角度安装。

### 主要零部件材料 Main parts materials

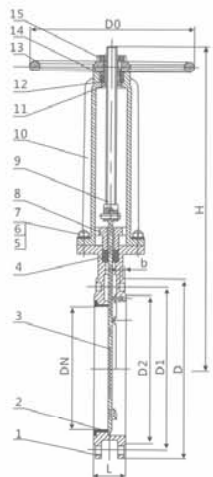
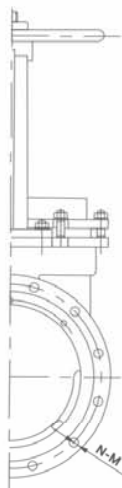
| 序号 NO. | 名称 Part name                | 材料 Material                       |
|--------|-----------------------------|-----------------------------------|
| 1      | 阀体 Body                     | WCB                               |
| 2      | 阀座 Valve seat               | 工程陶瓷 Engineering ceramics         |
| 3      | 阀板 Valve plate              | 304+工程陶瓷 304+Engineering ceramics |
| 4      | 填料 Packing                  | PTFE                              |
| 5      | 双头螺栓 Studs                  | 35                                |
| 6      | 垫圈 Washer                   | 10                                |
| 7      | 螺母 Nut                      | 25                                |
| 8      | 填料压盖 Packing gland          | WCB                               |
| 9      | 阀杆 Stem                     | 2Cr13                             |
| 10     | 支架 Holder                   | WCB                               |
| 11     | 阀杆螺母 Stem nut               | T                                 |
| 12     | 轴承 Axle bearing             |                                   |
| 13     | 手轮 Handle wheel             | HT200                             |
| 14     | 轴承压盖 Bearing cover          | 35                                |
| 15     | 手轮锁紧螺母 Handle wheel locknut | Q235A                             |

### 技术规范 Technical Specification

| 设计与制造 Design and manufacturing |  | J8/T 8691                 |
|--------------------------------|--|---------------------------|
| 连接端尺寸<br>Connection dimension  | 结构长度 Face to face dimension<br>法兰尺寸 Flange | GB/T 15188.2<br>JB/T 79.1 |
| 检验与试验 Inspection and test      |  | J8/T 8691                 |
| 材料<br>Material science         | 碳钢 Carbon steel<br>不锈钢 Stainless steel     | GB/T 12229<br>GB/T 12230  |



FPZ73TG  
薄型陶瓷排渣液浆阀  
Manual ceramic ball valve



## FPZ273G电液联动薄型陶瓷闸阀 Electric&Hydraulic Ceramic Slurry Knife Gate Valve

### 产品概述

本阀适用于高硬度的颗粒例如（灰渣水）等介质，或有软颗粒但又有腐蚀性的介质的管道上作启闭之用。公称压力1.0MPa，适应温度≤150℃。密封面采用硬密封与介质接触的部分均为结构陶瓷材料，其化学稳定性及硬度极高。因此，本阀具有极高的耐磨损、耐腐蚀、耐冲蚀性能，且隔热性好、热膨胀小。

本阀阀口全流通无阻挡物，耐磨性能强，密封性能好。启动负荷小卡灰及结灰现象少。

本阀采用高档增韧结构陶瓷密封，机械强度高耐磨性能好使用寿命长。结构紧凑可任意角度安装。

### 主要零部件材料 Main parts materials

| 序号 NO. | 名称 Part name                      | 材料 Material                       |
|--------|-----------------------------------|-----------------------------------|
| 1      | 阀体 Body                           | WCB                               |
| 2      | 阀板 Valve plate                    | 304+工程陶瓷 304+Engineering ceramics |
| 3      | 阀座 Valve seat                     | 35                                |
| 4      | 调节螺钉 Adjusting screw              | 工程陶瓷 Engineering ceramics         |
| 5      | 填料 Packing                        | PTFE                              |
| 6      | 填料压盖 Packing gland                | WCB                               |
| 7      | 阀杆 Stem                           | Q235+镀铬圈 Q235+Chromium plating    |
| 8      | 支柱 Pillar                         | Q235                              |
| 9      | 垫圈 Washer                         | 10                                |
| 10     | 螺母 Nut                            | 25                                |
| 11     | 电液动装置 Electric-hydraulic actuator |                                   |

### 技术规范 Technical Specification

| 设计与制造 Design and manufacturing |                             | J8/T 8691    |
|--------------------------------|-----------------------------|--------------|
| 连接端尺寸<br>Connection dimension  | 结构长度 Face to face dimension | GB/T 15188.2 |
|                                | 法兰尺寸 Flange                 | JB/T 9113.1  |
| 检验与试验 Inspection and test      |                             | J8/T 8691    |
| 材料<br>Material science         | 碳钢 Carbon steel             | GB/T 12229   |
|                                | 不锈钢 Stainless steel         | GB/T 12230   |

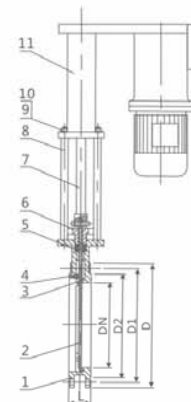
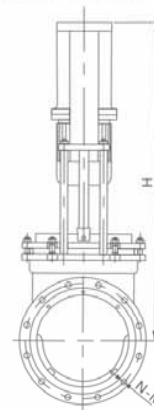
### Product introduction

The valve is used for high-hardness granular media (such as ash water) or used as a switch in pipes with soft corrosive granular media. Usage nominal pressure 1.0MPa, adaptive temperatures ≤150℃.

With the hard seal, the parts that sealing surface contacts with media are structural ceramics materials of high chemical stability and hardness. Hence the valve has extremely high wear resistance, corrosion resistance erosion resistance and good insulation, thermal expansion.

Without any blockage, the orifice of this valve is in full circulation accompanied by automatic blowing device. The valve has high wear resistance, good seal performance, small load when start and less ash lock and ash deposition.

Sealed by high-grade structural ceramics, the valve is characterized by high mechanical strength, good wear resistance and long service life. With a compact structure, the valve can be installed in any angle.



FPZ273G  
电液联动薄型陶瓷闸阀  
Manual ceramic ball valve

## FPZ673G气动薄型陶瓷排渣浆液阀 Pneumatic Ceramic Slurry Knife Gate Valve

### ■ 产品概述

本阀适用于高硬度的颗粒例如（灰渣水）等介质，或有软颗粒但又有腐蚀性的介质的管道上作启闭之用。公称压力1.0MPa 适应温度≤150℃。气源压力0.6-0.8MPa。  
密封面采用硬密封与介质接触的部分均为结构陶瓷材料，其化学稳定性及硬度极高。因此，本阀具有极高的耐磨损、耐腐蚀、耐冲刷性能，且隔热性好、热膨胀小。  
本阀阀口全流通无阻挡物，耐磨性能强，密封性能好，启动负荷小卡灰及结灰现象少。  
本阀采用高档管衬结构陶瓷密封，机械强度高耐磨性能好使用寿命长。结构紧凑可任意角度安装。

### ■ 主要零部件材料 Main parts materials

| 序号 NO. | 名称 Part name          | 材料 Material                       |
|--------|-----------------------|-----------------------------------|
| 1      | 阀体 Body               | WCB                               |
| 2      | 阀板 Valve plate        | 304+工程陶瓷 304+Engineering ceramics |
| 3      | 阀座 Valve seat         | 工程陶瓷 Engineering ceramics         |
| 4      | 填料 Packing            | PTFE                              |
| 5      | 填料压盖 Packing gland    | WCB                               |
| 6      | 阀杆 Stem               | Q235+镀铬 圈 Q235+Chromium plating   |
| 7      | 支柱 Pillar             | Q235                              |
| 8      | 螺母 Nut                | 25                                |
| 9      | 行程开关 Position switch  |                                   |
| 10     | 气动装置 Pneumatic device |                                   |

### ■ 技术规范 Technical Specification

| 设计与制造 Design and manufacturing |  | JB/T 8691                   |
|--------------------------------|--|-----------------------------|
| 连接端尺寸<br>Connection dimension  | 结构长度 Face to face dimension<br>法兰尺寸 Flange | GB/T 15188.2<br>JB/T 9113.1 |
| 检验与试验 Inspection and test      |  | JB/T 8691                   |
| 材料<br>Material science         | 碳钢 Carbon steel<br>不锈钢 Stainless steel     | GB/T 12229<br>GB/T 12230    |

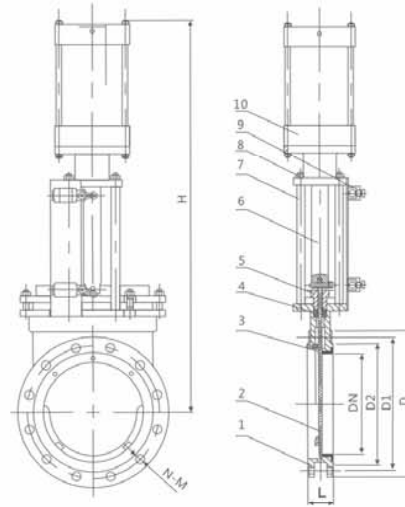
### ■ Product introduction

The valve is used for high-hardness granular media (such as ash water) or used as a switch in pipes with soft corrosive granular media. Usage nominal pressure 1.0MPa, adaptive temperatures 150℃, air pressure 0.6-0.8MPa.

With the hard seal, the parts that sealing surface contacts with media are structural ceramics materials of high chemical stability and hardness. Hence the valve has extremely high wear resistance, corrosion resistance erosion resistance and good insulation, thermal expansion.

The valve has high wear resistance, good seal performance, small load when start and less ash lock and ash deposition.

Sealed by high-grade structural ceramics, the valve is characterized by high mechanical strength, good wear resistance and long service life. With a compact structure, the valve can be installed in any angle.



FPZ673G  
气动薄型陶瓷排渣浆液阀  
Pneumatic Ceramic Slurry  
knife gate valve

## FPZ41G手动陶瓷排渣阀 Manual Ceramic Scum Gate Valve

### ■ 产品概述

本阀适用于高硬度的颗粒或有软颗粒但又有腐蚀性的介质。工作介质为渣水比 > 1:5、最大颗粒 ≤ 5mm 的水力输煤、水力排渣除渣灰、泥渣输送管道上作启闭之用。使用公称压力（1.0、1.6、2.5、4.0）MPa 适应温度 ≤ 200℃。  
介质接触的部分均为结构陶瓷材料，其化学稳定性及硬度极高。因此，本阀具有极高的耐磨损、耐腐蚀、耐冲刷性能，且隔热性好、热膨胀小。  
本阀阀口全流通无阻挡物，有吹堵装置，耐磨性能强，密封性能好，启动负荷小卡灰及结灰现象少。  
本阀采用高档管衬结构陶瓷密封，机械强度高耐磨性能好使用寿命长。结构紧凑可任意角度安装。

### ■ 主要零部件材料 Main parts materials

| 序号 NO. | 名称 Part name        | 材料 Material                           |
|--------|---------------------|---------------------------------------|
| 1      | 阀体 Body             | WCB                                   |
| 2      | 主阀体 Main valve body | WCB                                   |
| 3      | 阀座 Valve seat       | 复合工程陶瓷 Composite engineering ceramics |
| 4      | 阀板 Valve plate      | WCB+陶瓷 Ceramics                       |
| 5      | 螺母 Nut              | 25                                    |
| 6      | 双头螺栓 Studs          | 35CrMoVA                              |
| 7      | 填料 Packing          | 柔性石墨 Flexible graphite                |
| 8      | 填料压盖 Packing gland  | 2Cr13                                 |
| 9      | 阀杆 Stem             | 1Cr13                                 |
| 10     | 阀杆螺母 Stem nut       | 青铜 Bronze                             |
| 11     | 手轮 Handle wheel     | KTI350-10                             |

### ■ 技术规范 Technical Specification

| 设计与制造 Design and manufacturing |  | 厂商标准                      |
|--------------------------------|--|---------------------------|
| 连接端尺寸<br>Connection dimension  | 结构长度 Face to face dimension<br>法兰尺寸 Flange | JB/T 12221<br>GB/T 9113.1 |
| 检验与试验 Inspection and test      |  | JB/T 9092                 |
| 材料<br>Material science         | 碳钢 Carbon steel<br>不锈钢 Stainless steel     | JB/T 12229<br>GB/T 12230  |

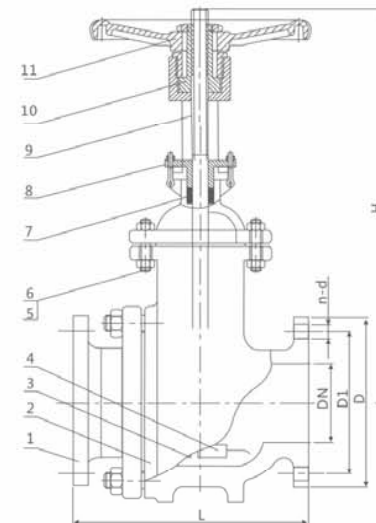
### ■ Product introduction

The valve is used for high-hardness particle or for soft corrosive media. Working medium with slag-water ratio > 1:5, the largest particles 5mm is used as a switch in hydraulic coal pipes, ash discharge pipes by hydraulic power and slurry transport pipes. Usage nominal pressure (1.0, 1.6, 2.5, 4.0) MPa, adaptive Temperatures 200℃.

The parts that sealing surface contacts with media are structural ceramics materials of high chemical stability and hardness. Hence the valve has extremely high wear resistance, corrosion resistance erosion resistance and good insulation, thermal expansion. Without any blockage, the orifice of this valve is in full circulation accompanied by automatic blowing device.

The valve has high wear resistance, good seal performance, small load when start and less ash lock and ash deposition. Sealed by high-grade structural ceramics.

Sealed by high-grade structural ceramics, the valve is characterized by high mechanical strength, good wear resistance and long service life. With a compact structure, the valve can be installed in any angle.



FPZ41G  
手动陶瓷排渣阀  
manual Ceramic  
Scum Gate Valve



## FGZT644G气动陶瓷双闸板阀 Pneumatic Ceramic Double Disc Gate Valve

### 产品概述

本阀适用于发电厂干灰系统，仓泵出料输送，也可适用于矿山、造纸、化工等各类有磨损的干粉尘、水、例如（灰渣水）等介质在管道上作启闭之用。公称压力1.0MPa,适应温度≤200℃，气源压力0.6-0.8MPa。本阀关闭后任何方向全部密封。阀体中间体采用WCB铸钢件及无缝钢管焊接，密封面采用硬密封件。本阀料口全流通无阻挡物有吹堵装置，耐磨性能强，密封性能好、启动负荷小卡灰及结灰现象少。本阀采用高档管初结构陶瓷密封，机械强度高耐磨性能好使用寿命长。结构紧凑可任意角度安装。

### 主要零部件材料 Main parts materials

| 序号 NO. | 名称 Part name            | 材料 Material                           |
|--------|-------------------------|---------------------------------------|
| 1      | 阀体 Body                 | WCB                                   |
| 2      | 闸板 valve plate          | 复合工程陶瓷 Composite engineering ceramics |
| 3      | 闸座 Valve seat           | 复合工程陶瓷 Composite engineering ceramics |
| 4      | 阀杆 Stem                 | 2Cr13                                 |
| 5      | 双头螺栓 Studs              | 35CrMoVA                              |
| 6      | 螺母 Nut                  | 25                                    |
| 7      | 中阀体 Midbody             | WCB                                   |
| 8      | 填料 Packing              | 柔性石墨 Flexible graphite                |
| 9      | 填料压盖 Packing gland      | 2Cr13                                 |
| 10     | 支架 Holder               | Q235                                  |
| 11     | 气动装置 Pneumatic actuator |                                       |

### 技术规范 Technical Specification

| 设计与制造 Design and manufacturing |                             | GB/T 12224                             |
|--------------------------------|-----------------------------|--|
| 连接端尺寸<br>Connection dimension  | 结构长度 Face to face dimension | 厂商标准                                   |
|                                | 法兰尺寸 Flange                 | GB/T 79.1                              |
| 检验与试验<br>Inspection and test   |                             | JB/T 9092                              |
|                                | 材料<br>Material science      | 碳钢 Carbon steel<br>不锈钢 Stainless steel |
|                                |                             | JB/T 12229<br>GB/T 12230               |

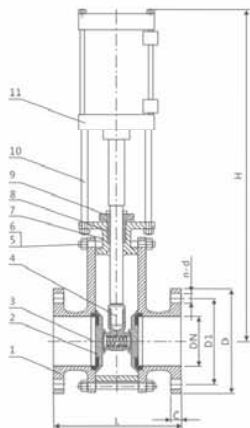
### Product introduction

The valve is used for power plant dry ash system and pump discharge conveyor and also used as a switch in pipes of wear media-dry dust and water (such as ash water) in the line of mine, papermaking chemical industry and so on. Usage nominal pressure 1.0MPa, adaptive temperatures 200℃, air pressure 0.6-0.8MPa.

After closure, the valve will be sealed in all directions. The valve midbody is welded by WCB steel casting and seamless steel tube. Seal surface is employed with hard sealing element.

Without any blockage, the orifice of this valve is in full circulation accompanied by automatic blowing device. The valve has high wear resistance, good seal performance, small load when start and less ash lock and ash deposition.

Sealed by high-grade structural ceramics, the valve is characterized by high mechanical strength, good wear resistance and long service life. With a compact structure, the valve can be installed in any angle.



**FGZT644G**  
气动陶瓷双闸板阀  
Pneumatic ceramic  
double disc gate valve

## FGZT644G气动陶瓷双闸板阀 Pneumatic Ceramic Double Disc Gate Valve

### 产品概述

本阀适用于发电厂干灰系统，仓泵出料输送，也可适用于矿山、造纸、化工等各类有磨损的干粉尘、水、例如（灰渣水）等介质在管道上作启闭之用。公称压力1.0MPa,适应温度≤200℃，气源压力0.6-0.8MPa。本阀关闭后任何方向全部密封。阀体中间体采用WCB铸钢件及无缝钢管焊接，密封面采用硬密封件。本阀料口全流通无阻挡物有吹堵装置，耐磨性能强，密封性能好、启动负荷小卡灰及结灰现象少。本阀采用高档管初结构陶瓷密封，机械强度高耐磨性能好使用寿命长。结构紧凑可任意角度安装。

### 主要零部件材料 Main parts materials

| 序号 NO. | 名称 Part name            | 材料 Material                           |
|--------|-------------------------|---------------------------------------|
| 1      | 阀体 Body                 | WCB                                   |
| 2      | 闸板 Valve plate          | 复合工程陶瓷 Composite engineering ceramics |
| 3      | 闸座 Valve seat           | 复合工程陶瓷 Composite engineering ceramics |
| 4      | 阀杆 Stem                 | 2Cr13                                 |
| 5      | 双头螺栓 Studs              | 35CrMoVA                              |
| 6      | 螺母 Nut                  | 25                                    |
| 7      | 中阀体 Midbody             | WCB                                   |
| 8      | 填料 Packing              | 柔性石墨 Flexible graphite                |
| 9      | 填料压盖 Packing gland      | 2Cr13                                 |
| 10     | 支架 Holder               | Q235                                  |
| 11     | 气动装置 Pneumatic actuator |                                       |

### 技术规范 Technical Specification

| 设计与制造 Design and manufacturing |                             | GB/T 12224                             |
|--------------------------------|-----------------------------|--|
| 连接端尺寸<br>Connection dimension  | 结构长度 Face to face dimension | 厂商标准                                   |
|                                | 法兰尺寸 Flange                 | GB/T 79.1                              |
| 检验与试验<br>Inspection and test   |                             | JB/T 9092                              |
|                                | 材料<br>Material science      | 碳钢 Carbon steel<br>不锈钢 Stainless steel |
|                                |                             | JB/T 12229<br>GB/T 12230               |

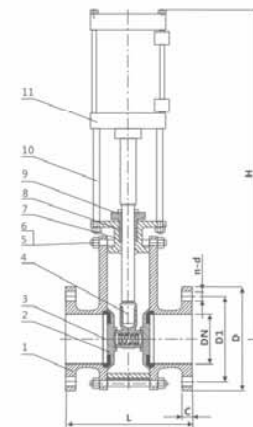
### Product introduction

The valve is used for power plant dry ash system and pump discharge conveyor and also used as a switch in pipes of wear media-dry dust and water (such as ash water) in the line of mine, papermaking chemical industry and so on. Usage nominal pressure 1.0MPa, adaptive temperatures 200℃, air pressure 0.6-0.8MPa.

After closure, the valve will be sealed in all directions. The valve midbody is welded by WCB steel casting and seamless steel tube. Seal surface is employed with hard sealing element.

Without any blockage, the orifice of this valve is in full circulation accompanied by automatic blowing device. The valve has high wear resistance, good seal performance, small load when start and less ash lock and ash deposition.

Sealed by high-grade structural ceramics, the valve is characterized by high mechanical strength, good wear resistance and long service life. With a compact structure, the valve can be installed in any angle.



**FGZT644G**  
气动陶瓷双闸板阀  
Pneumatic ceramic  
double disc gate valve

## FGZD644G气动陶瓷双闸板阀 Pneumatic Ceramic Rotary Valve

### 产品概述

本阀适用于发电厂干灰系统，仓泵出料输送，也可适用于矿山、造纸、化工等各类有磨损的干粉尘、高硬度的颗粒如（灰渣水）等介质，或有软颗粒但又有腐蚀性的介质的管道上作启闭之用。公称压力1.0MPa,适应温度≤200℃，气源压力0.6-0.8MPa。

本阀关闭后任何方向全部密封。阀体中间体采用WCB铸钢件及无缝钢管焊接。密封面采用硬密封件。本阀料口全流通无阻挡物有吹堵装置，耐磨性能强，密封性能好。启动负荷小卡灰及结灰现象少。本阀采用高档密封陶瓷密封，机械强度高耐磨性能好使用寿命长。结构紧凑可任意角度安装。

### 主要零部件材料 Main parts materials

| 序号 NO. | 名称 Part name            | 材料 Material                                   |
|--------|-------------------------|---|
| 1      | 阀体 Body                 | WCB   |
| 2      | 闸板 Valve plate          | WCB+复合工程陶瓷 WCB+Composite engineering ceramics |
| 3      | 阀座 Valve seat           | 复合工程陶瓷 Composite engineering ceramics         |
| 4      | 闸板座 Valve plate seat    | 45#   |
| 5      | 闸杆 Stem                 | 2Cr13   |
| 6      | 中阀体 Midbody             | WCB   |
| 7      | 填料 Packing              | 柔性石墨 Flexible graphite                        |
| 8      | 填料压盖 Packing gland      | 2Cr13   |
| 9      | 弹簧 Spring               | 50CrVA  |
| 10     | 气动装置 Pneumatic actuator |   |
| 11     | 螺母 Nut                  | 25  |
| 12     | 双头螺栓 Studs              | 35CrMoVA                                      |

### 技术规范 Technical Specification

| 设计与制造 Design and manufacturing |                             | GB/T 12224               |
|--------------------------------|-----------------------------|--------------------------|
| 连接端尺寸<br>Connection dimension  | 结构长度 Face to face dimension | 厂商标准                     |
|                                | 法兰尺寸 Flange                 | GB/T 79.1                |
| 检验与试验<br>Inspection and test   |                             | JB/T 9092                |
|                                | 材料<br>Material science      | JB/T 12229<br>GB/T 12230 |

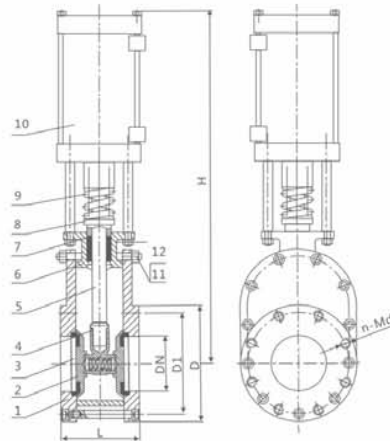
### Product introduction

The valve is used for dry ash system pump inlet valve, for granular media with high hardness and also used as a switch in wear pipes of dry dust and high-hardness granular media (such as ash water) or used as a switch in pipes with soft corrosive granular media. Usage nominal pressure 1.0MPa, adaptive temperatures 200°C, air pressure 0.6-0.8MPa.

After closure, the valve will be sealed in all directions. The valve midbody is welded by WCB steel casting and seamless steel tube. Seal surface is employed with hard sealing element.

Without any blockage, the orifice of this valve is in full circulation accompanied by automatic blowing device. The valve has high wear resistance, good seal performance, small load when start and less ash lock and ash deposition.

Sealed by high-grade structural ceramics, the valve is characterized by high mechanical strength, good wear resistance and long service life. With a compact structure, the valve can be installed in any angle.



FGZD644G  
气动陶瓷双闸板阀  
Pneumatic ceramic  
rotary valve

## FGZJ644G气动陶瓷进料阀 Pneumatic Ceramic Feeding Valve

### 产品概述

本阀适用于发电厂干灰系统，仓泵出料输送，也可适用于矿山、造纸、化工等各类有磨损的干粉尘、水例如（灰渣水）等介质在管道上作启闭之用。公称压力1.0MPa,适应温度≤200℃，气源压力0.6-0.8MPa。

本阀关闭后任何方向全部密封。阀体中间体采用WCB铸钢件及无缝钢管焊接。密封面采用硬密封件。

本阀料口全流通无阻挡物有吹堵装置，耐磨性能强，密封性能好。启动负荷小卡灰及结灰现象少。

本阀采用高档密封陶瓷密封，机械强度高耐磨性能好使用寿命长。结构紧凑可任意角度安装。

### 主要零部件材料 Main parts materials

| 序号 NO. | 名称 Part name            | 材料 Material                           |
|--------|-------------------------|---------------------------------------|
| 1      | 阀体 Body                 | WCB                                   |
| 2      | 闸板 valve plate          | 复合工程陶瓷 Composite engineering ceramics |
| 3      | 阀座 Valve seat           | 复合工程陶瓷 Composite engineering ceramics |
| 4      | 闸杆 Stem                 | 2Cr13                                 |
| 5      | 双头螺栓 Studs              | 35CrMoVA                              |
| 6      | 螺母 Nut                  | 25                                    |
| 7      | 中阀体 Midbody             | WCB                                   |
| 8      | 填料 Packing              | 柔性石墨 Flexible graphite                |
| 9      | 填料压盖 Packing gland      | 2Cr13                                 |
| 10     | 支架 Holder               | Q235                                  |
| 11     | 气动装置 Pneumatic actuator |                                       |

### 技术规范 Technical Specification

| 设计与制造 Design and manufacturing |                             | GB/T 12224 |
|--------------------------------|-----------------------------|------------|
| 连接端尺寸<br>Connection dimension  | 结构长度 Face to face dimension | 厂商标准       |
|                                | 法兰尺寸 Flange                 | GB/T 79.1  |
| 检验与试验 Inspection and test      |                             | JB/T 9092  |
| 材料<br>Material science         | 碳钢 Carbon steel             | JB/T 12229 |
|                                | 不锈钢 Stainless steel         | GB/T 12230 |

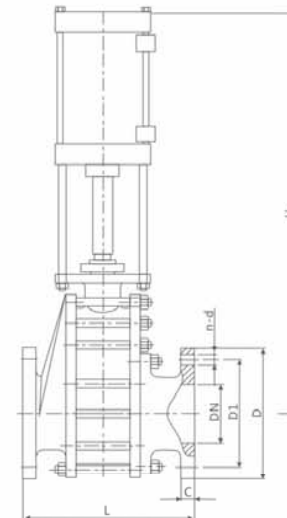
### Product introduction

The valve is used for power plant dry ash system and pump discharge conveyor and also used as a switch in pipes of wear media-dry dust and water (such as ash water) in the line of mine, papermaking chemical industry and so on. Usage nominal pressure 1.0MPa, adaptive temperatures 200°C, air pressure 0.6-0.8MPa.

After closure, the valve will be sealed in all directions. The valve midbody is welded by WCB steel casting and seamless steel tube. Seal surface is employed with hard sealing element.

Without any blockage, the orifice of this valve is in full circulation accompanied by automatic blowing device. The valve has high wear resistance, good seal performance, small load when start and less ash lock and ash deposition.

Sealed by high-grade structural ceramics, the valve is characterized by high mechanical strength, good wear resistance and long service life. With a compact structure, the valve can be installed in any angle.



FGZJ644G  
气动陶瓷进料阀  
Pneumatic ceramic  
feeding valve



## FQ341G手动陶瓷球阀 Manual Ceramic Ball Valve

### 产品概述

本阀适用于高硬度的颗粒或有软颗粒但又有腐蚀性介质管道上作启闭之用。使用公称压力1.6MPa,适应温度 $\leq 200^{\circ}\text{C}$ 。与介质接触的部分均为结构陶瓷材料,其化学稳定性及硬度极高(洛氏硬度HRC90),仅次于金刚石。因此本阀具有极高的耐磨损、耐冲蚀性能,且隔热性好、热膨胀小。

球体采用先进研磨设备及工艺制造,球面度精度高,表面质量好,与阀座对研后,利用ZrO<sub>2</sub>陶瓷的自润滑性,可取得很好的密封性能。

陶瓷良好的耐磨性,让本阀经久耐用,可靠性极高,使用寿命长,是钛合金阀和蒙乃尔阀的2-4倍。

### 主要零部件材料 Main parts materials

| 序号 NO. | 名称 Part name         | 材料 Material                           |
|--------|----------------------|---------------------------------------|
| 1      | 左右体 bonnet           | WCB                                   |
| 2      | 阀体 Body              | WCB                                   |
| 3      | 衬套 Bushing           | 复合工程陶瓷 Composite engineering ceramics |
| 4      | 球体 Ball              | 复合工程陶瓷 Composite engineering ceramics |
| 5      | 阀座 Valve seat        | 复合工程陶瓷 Composite engineering ceramics |
| 6      | 阀杆 Stem              | 2Cr13                                 |
| 7      | 垫片 Gasket            | 石墨 Graphite                           |
| 8      | 填料 Packing           | PTFE                                  |
| 9      | 填料压盖 Packing gland   | 2Cr13                                 |
| 10     | 支架 Holder            | Q235                                  |
| 11     | 蜗杆装置 Worm device     |                                       |
| 12     | 螺栓 Double-screw bolt | 35                                    |
| 13     | 螺母 Nut               | 25                                    |

### 技术规范 Technical Specification

| 设计与制造 Design and manufacturing |                             | GB/T 12224 |
|--------------------------------|-----------------------------|------------|
| 连接端尺寸 Connection dimension     | 结构长度 Face to face dimension | GB/T 12221 |
|                                | 法兰尺寸 Flange                 | JB/T 9113  |
| 检验与试验 Inspection and test      |                             | JB/T 9092  |
| 材料 Material science            | 碳钢 Carbon steel             | GB/T 12229 |
|                                | 不锈钢 Stainless steel         | GB/T 12230 |

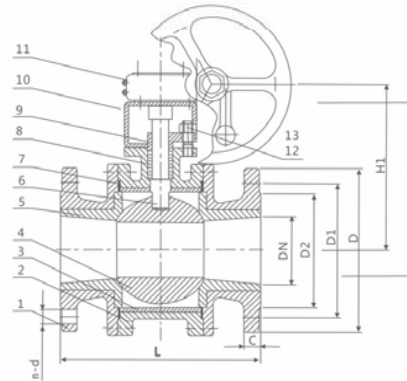
### Product introduction

The valve is used for dry ash system pump inlet valve, for granular media with high hardness and also used as a switch in wear pipes of dry dust and high-hardness granular media (such as ash water) or used as a switch in pipes with soft corrosive granular media. Usage nominal pressure 1.0MPa, adaptive temperatures $200^{\circ}\text{C}$ , air pressure 0.6-0.8MPa.

After closure, the valve will be sealed in all directions. The valve midbody is welded by WCB steel casting and seamless steel tube. Seal surface is employed with hard sealing element.

Without any blockage, the orifice of this valve is in full circulation accompanied by automatical blowing device. The valve has high wear resistance, good seal performance, small load when start and less ash lock and ash deposition.

Sealed by high-grade structural ceramics, the valve is characterized by high mechanical strength, good wear resistance and long service life. With a compact structure, the valve can be installed in any angle.



FQ341G  
手动陶瓷球阀  
Manual ceramic ball valve

## FQ641G气动陶瓷球阀 Pneumatic Ceramic Ball Valve

### 产品概述

本阀适用于高硬度的颗粒介质,或有软颗粒但又有腐蚀性的介质管道上作启闭之用。公称压力1.6MPa,适应温度 $\leq 200^{\circ}\text{C}$ 。气源压力0.6-0.8MPa。与介质接触的部分均为结构陶瓷材料,其化学稳定性及硬度极高(洛氏硬度HRC90),仅次于金刚石。因此本阀具有极高的耐磨损、耐腐蚀、耐冲蚀性能,且隔热性好、热膨胀小。

球体采用先进研磨设备及工艺制造,球面度精度高,表面质量好,与阀座对研后,利用ZrO<sub>2</sub>陶瓷的自润滑性,可取得很好的密封性能。

陶瓷良好的耐磨性,让本阀经久耐用,可靠性极高,使用寿命长,是钛合金阀和蒙乃尔阀的2-4倍。

### 主要零部件材料 Main parts materials

| 序号 NO. | 名称 Part name            | 材料 Material                           |
|--------|-------------------------|---------------------------------------|
| 1      | 左右体 Bonnet              | WCB                                   |
| 2      | 阀体 Body                 | WCB                                   |
| 3      | 衬套 Bushing              | 复合工程陶瓷 Composite engineering ceramics |
| 4      | 球体 Ball                 | 复合工程陶瓷 Composite engineering ceramics |
| 5      | 阀座 Valve seat           | 复合工程陶瓷 Composite engineering ceramics |
| 6      | 阀杆 Stem                 | 2Cr13                                 |
| 7      | 垫片 Gasket               | 石墨 Graphite                           |
| 8      | 填料 Packing              | PTFE                                  |
| 9      | 填料压盖 Packing gland      | 2Cr13                                 |
| 10     | 支架 Holder               | Q235                                  |
| 11     | 气动装置 Pneumatic actuator |                                       |
| 12     | 螺栓 Double-screw bolt    | 35                                    |
| 13     | 螺母 Nut                  | 25                                    |

### 技术规范 Technical Specification

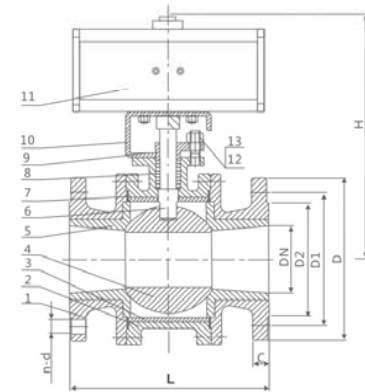
| 设计与制造 Design and manufacturing |                             | GB/T 12224 |
|--------------------------------|-----------------------------|------------|
| 连接端尺寸 Connection dimension     | 结构长度 Face to face dimension | GB/T 12221 |
|                                | 法兰尺寸 Flange                 | JB/T 9113  |
| 检验与试验 Inspection and test      |                             | JB/T 9092  |
| 材料 Material science            | 碳钢 Carbon steel             | GB/T 12229 |
|                                | 不锈钢 Stainless steel         | GB/T 12230 |

### Product introduction

The valve is used for high-hardness particle or used as a switch in pipes with soft corrosive granular media. Usage nominal pressure 1.6MPa, adaptive temperatures $200^{\circ}\text{C}$ . the parts that sealing surface contacts with media are structural ceramics materials of high chemical stability and hardness. (Rockwell Hardness HRC90), only second to diamond. Hence the valve has extremely high wear resistance, corrosion resistance erosion resistance and good insulation, thermal expansion.

Employed with advanced grinding equipment and manufacturing process, the ball has high roundness, accuracy and good surface quality. By utilizing self-lubricity of ZrO<sub>2</sub> ceramics, a good tightness can be obtained after getting paired with the seat ring.

The excellent wear resistance of ceramics makes the valve durable, reliable, and long service life, as 2-4 times of titanium and Monel valve.



FQ641G  
气动陶瓷球阀  
Pneumatic ceramic ball valve

## FPZ941G 电动陶瓷排渣阀 Electric Ceramic Scum Gate Valves

### 产品概述

本阀适用于高硬度的颗粒或有软颗粒但又有腐蚀性的介质。工作介质为渣水比 > 1:5、最大颗粒 ≤ 5mm 的水力输煤、水力排渣除渣灰、泥浆输送管道上作启闭之用。使用公称压力 (1.0、1.6、2.5、4.0) MPa, 适应温度 ≤ 100°C。

与介质接触的部分均为结构陶瓷材料, 其化学稳定性及硬度极高。因此, 本阀具有极高的耐磨损、耐腐蚀、耐冲蚀性能, 且隔热性好、热膨胀小。

本阀料口全流通无阻挡物, 有吹堵物, 有吹堵装置, 耐磨性能强, 密封性能好, 启动负荷小卡灰及结灰现象少。

本阀采用高档曾切结构陶瓷密封, 机械强度高耐磨性能好使用寿命长。结构紧凑可任意角度安装。

### 主要零部件材料 Main parts materials

| 序号 NO. | 名称 Part name         | 材料 Material                           |
|--------|----------------------|---------------------------------------|
| 1      | 阀体 body              | WCB                                   |
| 2      | 主阀体 Main valve body  | WCB                                   |
| 3      | 阀座 Valve seat        | 复合工程陶瓷 Composite engineering ceramics |
| 4      | 阀板 Valve plate       | WCB+陶瓷 Engineering ceramics           |
| 5      | 螺母 Nut               | 25                                    |
| 6      | 双头螺栓 Studs           | 35CrMoVA                              |
| 7      | 填料 Packing           | 柔性石墨 Flexible graphite                |
| 8      | 填料压盖 Packing gland   | 2Cr13                                 |
| 9      | 阀杆 Stem              | 1Cr13                                 |
| 10     | 电动装置 Electric device |                                       |

### 技术规范 Technical Specification

| 设计与制造 Design and manufacturing |                             | GB/T 12224  |
|--------------------------------|-----------------------------|-------------|
| 连接端尺寸<br>Connection dimension  | 结构长度 Face to face dimension | 厂标标准        |
|                                | 法兰尺寸 Flange                 | GB/T 9113.1 |
| 检验与试验 Inspection and test      |                             | JB/T 9092   |
| 材料<br>Material science         | 碳钢 Carbon steel             | JB/T 12229  |
|                                | 不锈钢 Stainless steel         | GB/T 12230  |

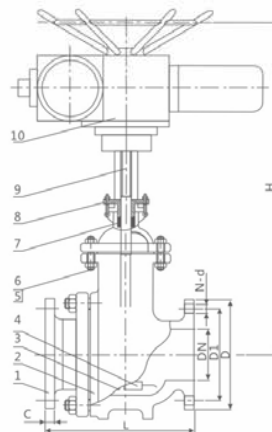
### Product introduction

The valve is used for high-hardness particle or for soft corrosive media. Working medium with slagwa terratio > 1:5, the largest particles 5mm is used as a switch in hydraulic coal pipes, ash discharge pipes by hydraulic power and slurry transport pipes. Usage nominal pressure (1.0、1.6、2.5、4.0)MPa, adaptive Temperatures 100°C.

The parts that sealing surface contacts with media are structural ceramics materials of high chemical stability and hardness. Hence the valve has extremely high wear resistance, corrosion resistance erosion resistance and good insulation, thermal expansion.

Without any blockage, the orifice of this valve is in full circulation accompanied by automatical blowing device. The valve has high wear resistance, good seal performance, small load when start and less ash lock and ash deposition.

Sealed by high-grade structural ceramics, the valve is characterized by high mechanical strength, good wear resistance and long service life. With a compact structure, the valve can be installed in any angle.



FPZ941G  
电动陶瓷排渣阀  
Electric ceramic  
scum gate valves

## FH44G 陶瓷旋启式止回阀 Ceramic Swing Check Valve

### 产品概述

该系列阀门用于电厂干灰系统仓泵的进出料门, 也可用于矿山、化工等各类有磨损的干灰、水道等介质的止回装置。公称压力有 1.0MPa 和 1.6MPa, 适应温度 ≤ 200°C。

本阀门后任何方向全部密封, 阀体阀盖采用 WCB 铸钢件或不锈钢铸件。密封面采用硬密封件。

本阀料口全流通无阻挡物, 耐磨性能强, 密封性能好, 启动负荷小卡灰及结灰现象少。

本阀采用高档曾切结构陶瓷密封, 机械强度高耐磨性能好使用寿命长。结构紧凑可任意角度安装。

### 主要零部件材料 Main parts materials

| 序号 NO. | 名称 Part name  | 材料 Material |
|--------|---------------|-------------|
| 1      | 阀体 Body       | WCB         |
| 2      | 阀杆 Stem       | WCB         |
| 3      | 阀瓣 Disc       | WCB         |
| 4      | 摇臂 Rocker arm | WCB         |
| 5      | 垫片 Gasket     | 石墨 Graphite |
| 6      | 双头螺栓 Stem     | 35          |
| 7      | 螺母 Nut        | Q235        |
| 8      | 垫片 Gasket     | 石墨 Graphite |
| 9      | 阀盖 Valve deck | WCB         |

### 技术规范 Technical Specification

| 设计与制造 Design and manufacturing |                             | GB/T 12224  |
|--------------------------------|-----------------------------|-------------|
| 连接端尺寸<br>Connection dimension  | 结构长度 Face to face dimension | GB/T 12221  |
|                                | 法兰尺寸 Flange                 | GB/T 9113.1 |
| 检验与试验 Inspection and test      |                             | JB/T 9092   |
| 材料<br>Material science         | 碳钢 Carbon steel             | JB/T 12229  |
|                                | 不锈钢 Stainless steel         | GB/T 12230  |

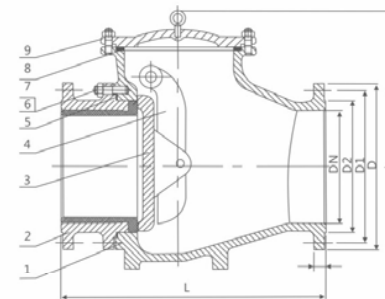
### Product introduction

Valves of this series are used for pump feeding and discharge door of power plant dry ash system and also used as a switch in block device of wear media pipe—dry dust and slag in the line of mine, chemical industry and so on. Nominal pressure is 1.0MPa and 1.6MPa, adaptive temperatures 200°C.

After closure, the valve will be sealed in all directions. The valve deck is employed with WCB steel casting or stainless steel casting. Seal surface is employed with hard sealing element. Without any blockage, the orifice of this valve is in full circulation accompanied by automatical blowing device.

The valve has high wear resistance, good seal performance, small load when start and less ash lock and ash deposition.

Sealed by high-grade structural ceramics, the valve is characterized by high mechanical strength, good wear resistance and long service life. With a compact structure, the valve can be installed in any angle.



FH44G  
陶瓷旋启式止回阀  
Ceramic swing check valve