

关风机 The wind off the machine

关风机又称卸料器、旋转给料器、锁气阀，通常星型卸料器的结构（如图1所示）是由带有数片叶片的转子叶轮、壳体、密封件及减速器、电动机等组成。

当上部料仓的物料靠自重落下充填在叶片之间的空隙中，随叶片的旋转而在下部卸出，因此星型卸料器可以定量而连续地卸料（如图2所示）。

星型卸料器常用在气力输出系统中（如图3所示）。对于压力输出系统或负压输出系统，星型卸料器可以均匀、连续地向输料管供料，以保证气力输出管内的气、固体比较稳定，从而使气力输送能正常工作，同时又能将卸料器的上、下部气压隔断而起到锁气作用。因此，星型卸料器是气力输送系统中常用的重要部件。

星型卸料器可以用在收集物料系统中，作为料仓的卸料器（如图4所示）。星型卸料器是目前国内最先进的卸料装置，常用在除尘系统中作为除尘系统的重要设备之一，它特别适用于粉尘，小颗粒物料，深受环保、冶金、化工、粮食、水泥、筑路、干燥设备等工业行业的工程项目择优选用。

我公司吸取了国内先进制造技术，结合市场的要求经过多年的研究，开发出多种新型组合防堵关风机，现有产品可分为普通型、耐压型、外装耐温耐压型、快速清洗型、定量型五大类。

普通型：可以用在80度以下及常温的通常物料上，它可以连续均匀向输料管内供料，而在系统分离部分收集物料，它又具有卸料器功能。

耐压型：它采用封闭型转子，可以广泛应用在吸送式、压送式气流输送系统和负压输送设备上，它可以保证输送管内的气流压力不泄露，能够安全的输送和收集物料，所以在这方面又称为电动锁气器，它不但可以耐压，同时兼备普通型功能。

外装耐温耐压型：根据物料输送和下料口的温度不同，因为温度对机体膨胀有影响，以及对轴承和油封系统不利，我厂设计了耐高温型外装式结构关风机，它把运转部分与物料接触的箱体部分分离开来，可以安全地把轴承运转和油封系统不受高温影响而正常工作，此类产品不但耐高温，还可以针对吸湿性物料和金属性粉末的输送和接受，具有很好的效果。因为这类物体有穿透性，穿透油封装置，物料进入轴承而损坏机械，正是有外装的特点，它不会和物料接触。

快速清洗型：快速清洗旋转阀制作精致、成功使用德、日技术制造之精华。产品拆装灵活、易于清洗。主要用于化工、制药、食品等行业高卫生标准的物料卸料及经常更换物料的场所工作。

定量型：通过调节关风机腔内的容积大小和对电机实施无极变速，达到物料预期的流量。此类关风机主要用于定量供应系统。

The wind off the machine also called discharger, rotary feeder, lock valve, usually the structure of star unloader (as shown in Figure 1) is composed of a plurality of rotor blades of the impeller, casing, seal and reducer, motor etc..

When the upper bin material by gravity fall of gap filling in between the leaves, with the leaves in the lower discharging rotation, so the star unloader can quantitatively and continuously discharging (as shown in Fig. 2).

Star unloader is commonly used in pneumatic output system (Fig. 3). For the pressure output system or negative output system, star unloader can be uniform, continuous tube feeding to feed, to ensure that the air output pipe gas, solid is relatively stable, so that the pneumatic conveying can work normally, and at the same time the discharger, lower pressure on the partition to air lock function. Therefore, star unloader pneumatic conveying system is an important component in the.

Star unloader can be used in the collection of the material system, as the hopper of the discharger (as shown in Fig. 4). Our company has absorbed the domestic advanced manufacturing technology, combined with the requirements of the market after years of research, developed a variety of new combined fan anti related, existing products can be divided into ordinary type, pressure type, external temperature and pressure resistant type, fast cleaning, quantitative type five categories.

Common type: can be used in usual materials below 80 degrees and at room temperature, it can continuously and uniformly the feeding tube to feed, and in the system separated part of the collection material, it has the function of the discharger.

Pressure type: it adopts a closed type rotor, and can be widely used in the suction feeding, blowing air transport system and negative pressure conveying equipment, it can guarantee the delivery of the air pressure inside the pipeline without leakage, material handling and collection to safety, so it is also called the electric air lock, it can not only pressure, while both common functional.

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External temperature and pressure resistant type: according to the material conveying and outlet temperature is different, because the temperature has effect on the expansion, as well as the bearing and oil seal system is unfavorable, I plant design and high temperature resistant type structure of fan, the box body contact moving parts and material separates, can the operation of the bearing and oil seal safety system is not affected by high temperature and normal work, such products are not only of high temperature resistant, transport and also for hygroscopic material and metal powder to accept, with good results. Because this kind of object penetrating, penetrating oil seal device, the material into the bearing and mechanical damage, it is features installed, it will not and contact materials.

Quick cleaning type: fast cleaning rotary valve exquisite, the successful use of essence, technology manufacturing. Product disassembly flexible, easy to clean. Mainly used in chemical, pharmaceutical, food and other industries with high health standards for unloading and frequent replacement materials sites work.

Quantitative: by adjusting the fan cavity volume and the motor stepless speed change, achieve the expected flow of material. This kind of air machine is mainly used for quantitative supply system.

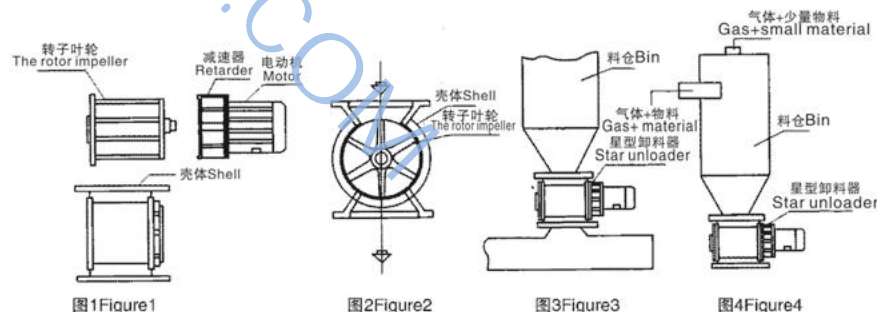


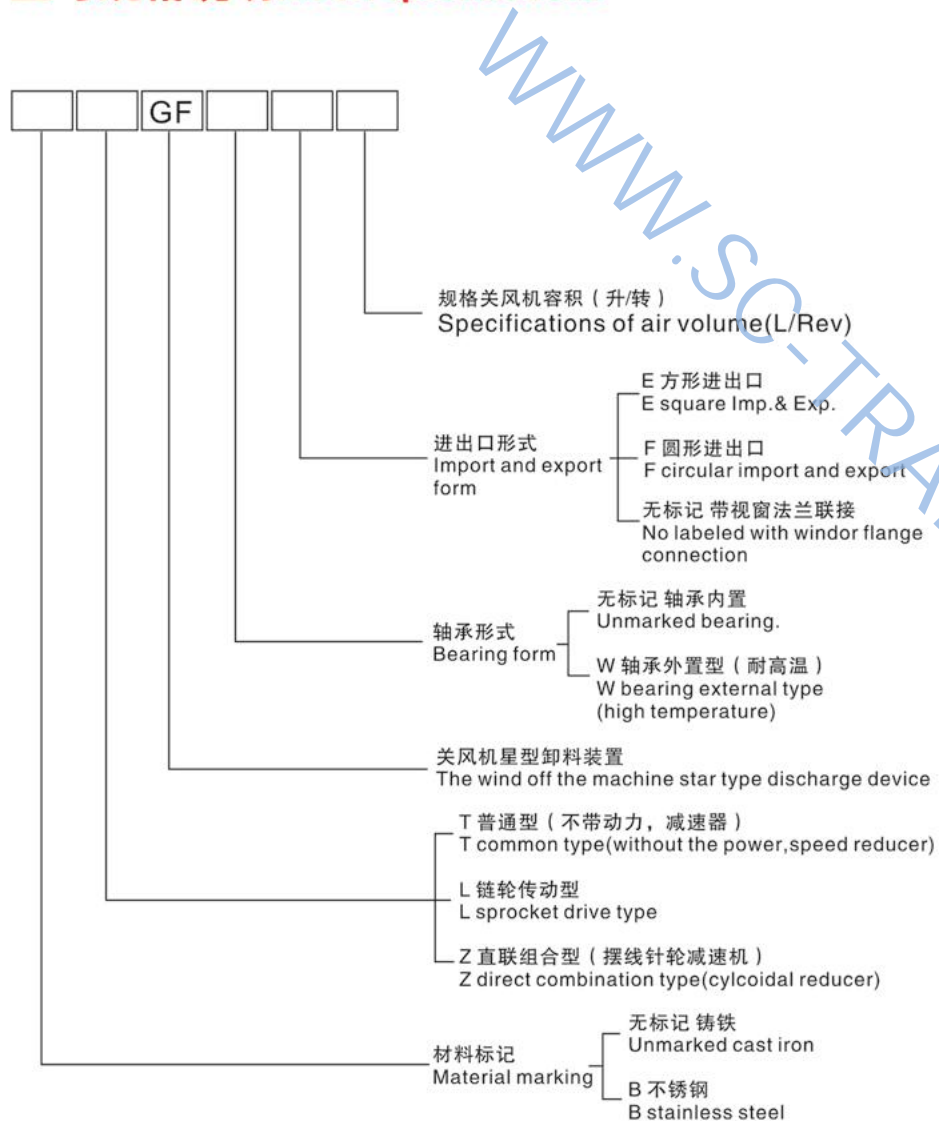
图1Figure1

图2Figure2

图3Figure3

图4Figure4

型号规格说明 Model specifications



- (1) 卸料器的上、下法兰口基本是方形或圆形，也可以由用户选定。
- (2) 耐磨型叶轮特点是转子叶片的端部带有特殊耐磨材料活动片，并且磨损后可方便地调节，使其仍然与壳体内部保持良好接触，也可以由用户选定。
- (3) 轴承外置型一代号W表示，两端轴承与叶轮有一定隔离，能防止超细粉料与轴承接触，通常也作为耐高温型，它所输送物料的温度可达280℃。
- (4) 关风机排料量按下式计算：
G: 0.06V · N · Y · R · K (吨/小时)
V—关风机容积 (升/转)
N—关风机转速 (转/分)
Y—关风机容积效率 (0.5-0.8)
R—物料容量 (吨/米³)
K—修正系数，一般取0.7-0.8
- (5) 特殊型号、特殊材质、非标规格可按用户需要制造。
- (6) 例：ZGF9L说明：容积为9L的组合型碳钢关风机。
- (7) 关风机的转速一般情况下为42转/分钟，但也可按用户要求的转速而制造。

- (1) discharger, the lower flange mouth is square or round, also can be chosen by the user.
- (2) wear type impeller is characterized by end of the rotor blade with special wear-resistant material activities, and can be adjusted conveniently wear, which still maintain good contact with the shell, also can be chosen by the user.
- (3) bearing external code: W says, at both ends of the bearing and the impeller has a certain isolation, to prevent the superfine powder and the bearing contact, often as high temperature resistant, temperature can reach 280 °C it conveyed material.
- (4) calculated the wind off the machine discharge amount:
G:0.06V · N · Y · R · K (tons / hour)
V shut the fan volume (L / Rev)
N – close the fan speed (RPM)
Y Commissioner fan volumetric efficiency (0.5-0.8)
R – material capacity (tons / M³)
K correction coefficient, normally 0.7-0.8
- (5), special materials, special type non-standard specifications can be manufactured according to user needs.
- (6) cases: ZGF9L Description: volume of composite steel 9L wind closing machine.
- (7) off the fan speed under normal circumstances 42 R / min, but also can be made according to user requirements of speed.

T(B)GFY型碳钢强力组合关风机系列

T(B)GFY type steel puissant wind machine series



压力范围：0.5kg/cm²系统压力或压差。

入口/出口：入口为圆口并配有透明视窗，以便观察物料的流动状况；出口为方形增大了出口面积使物料顺利排出。

普通型：结构紧凑，占用空间小。

轴承外置式：有效的防止粉尘侵入轴承。

驱动方式：马达直联驱动为主。

动力配置：摆线针轮减速机、Y系列电机(可按需方指定动力配置)。

材质选项：碳钢、铸铁、不锈钢、铝合金、钛合金、四氟、陶瓷、PPC系列等。

Pressure range: 0.5 cm kg² system pressure or diferential pressure.

Import / export: entrance for round mouth and with transparent window. to observe the material flow condition, Export as square increased export area to make materials successful eduction.

Common type: compact structure, lake up the space is small.

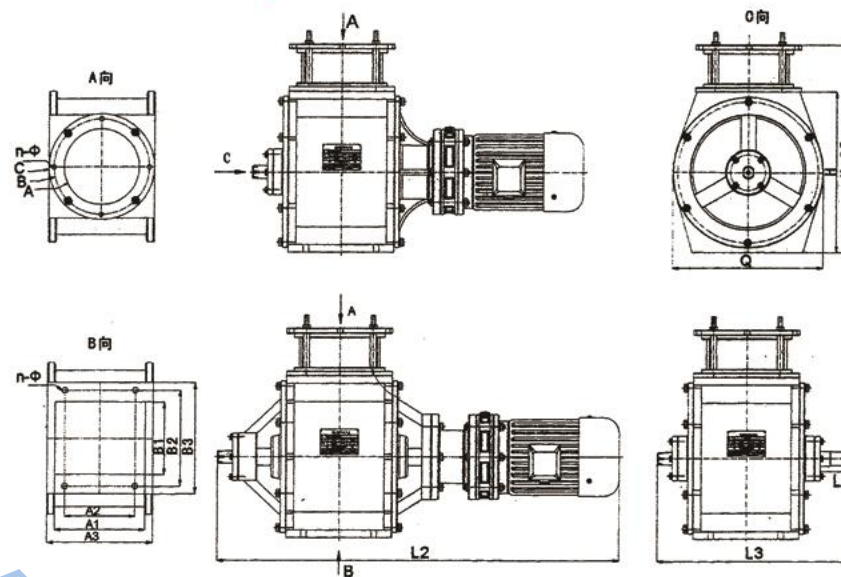
Bearing outer type: effectively prevent dust invading bearings.

Drive mode: motor straight league drive primarily.

Dynamic allocation: Carbon steel, cast iron, stainless steel, titanium alloy, Aluminum Alloy, PTFE, ceramics, PPC series etc..

外形尺寸及参数

Dimensions and parameters



型号 Model	外形及安装联接尺寸Outline and installation connection size(mm)												工作温度 Temperature ℃	转速 Speed 转分 Rev/min	电机功率 Motor power KW			
	A	B	C	A1×B1	A2×B2	A3×B3	H	L1	L2	L3	L	Q				上	下	
T (B)	1.8L	90	125	145	175×90	100×125	140×150	220	580	730	307	60	200	8-M8	4-Φ11	内置IN ≤80℃ 外置OUT ≤300℃	24 / 33 / 40	0.75
	2.8L	120	160	180	150×120	120×165	180×185	280	620	780	345		260	8-M8	4-Φ11			0.75
	5L	150	190	210	180×145	140×190	210×220	320	680	820	375		300	8-M8	4-Φ11			0.75
	7L	170	210	230	190×170	160×220	230×255	355	710	850	395		330	8-M8	4-Φ11			0.75
	9L	190	235	260	220×200	190×250	255×290	380	730	900	425		360	8-M8	4-Φ11			1.1
G F Y (I)	12L	200	255	280	240×220	210×270	275×310	410	780	950	450	70	380	8-M8	4-Φ11	1.1		
	16L	250	300	325	280×260	250×310	320×340	450	820	1000	490		410	12-M8	4-Φ13	1.5		
	25L	280	350	380	320×300	280×360	365×400	520	870	1350	530	80	440	12-M8	6-Φ13	2.2		
	40L	320	380	410	360×320	320×390	400×420	540	910	1400	570		470	12-M10	6-Φ13	3		
	50L	350	410	440	370×350	330×410	420×450	600	950	1450	620		500	12-M10	6-Φ13	3		

YJD-F-YJD-E系列旋转阀 YJD-F-YJD-E Series rotary valve



压力范围：1kg/cm²系统压力或压差。

增大入口/出口：进/出料口为圆口，没有截面尺寸对料流的限制从而可达最高产量。

普通型：结构紧凑，占用空间小，适用于低温，可装配视镜以便观察物料的流动状况。

轴承外置式：有效的防止粉尘侵入轴承，增大设备适应较高温度的使用范围。

驱动方式：链驱动 / 马达直联驱动口。

动力配置：摆线针轮减速机、Y系列电机(可按需方指定动力配置)。

材质选项：碳钢、铸铁、不锈钢、铝合金、钛合金、四氟、PPC、陶瓷系列等。

Pressure range: 1kg/cm² system pressure or differential pressure.

Increasing import/export: into/discharging mouth for round mouth, no section size materials of flow restriction which can reach maximum yield.

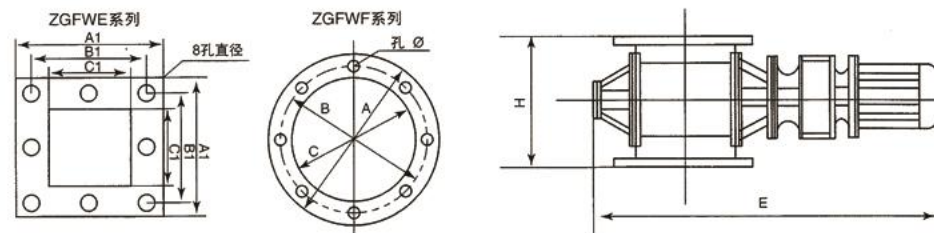
Common type: compact structure, take up the space is small, be applicable to the low temperature, it can be equipped with endoscopic to observe the material flow condition.

Bearing outer type: effectively prevent dust invading bearing. increase equipment adapt high temperature scope of application.

Drive mode: Chain drive / motor direct drive.

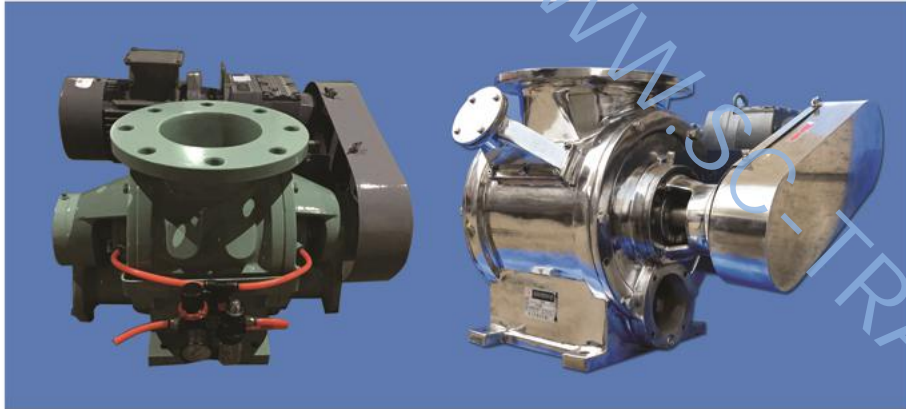
Dynamic allocation: Carbon steel, cast iron, stainless steel, titanium alloy, Aluminum Alloy, PTFE, PPC, ceramics etc..

外形尺寸及参数 Dimensions and parameters



型号 Model	每转体积 L/Rev	电机功率 Motor power KW	转速 Speed 转/分 Rev / min	工作温度 Temperature °C	重量 Weight 约 KG	外形及安装联接尺寸 Outline and installation connection size (mm)									
						A	B	C	A1	B1	C1	H	E	n-φd	
2型	2	0.75	24/33/42	280	75	240	200	150	240×240	200×200	150×150	240	850	8-φ14	方口H250
4型	4	0.75	24/33/42	280	105	280	240	180	270×270	230×230	180×180	280	900	8-φ14	
6型	6	0.75	24/33/42	280	110	300	260	200	290×290	250×250	200×200	310	930	8-φ14	
8型	8	0.75	24/33/42	280	125	320	280	220	310×310	270×270	220×220	320	950	8-φ14	
10型	10	1.1	24/33/42	280	135	340	300	240	330×330	290×290	240×240	340	1000	8-φ13	
12型	12	1.1	24/33/42	280	140	360	320	260	350×350	310×310	260×260	360	1030	8-φ17	方口H370
14型	14	1.1	24/33/42	280	160	380	340	280	370×370	330×330	280×280	380	1050	8-φ17	
16型	16	1.1	24/33/42	280	180	400	360	300	400×400	350×350	300×300	400	1080	8-φ17	方口H410
18型	18	1.5	24/33/42	280	195	420	380	320	420×420	370×370	320×320	420	1100	8-φ17	
20型	20	1.5	24/33/42	280	210	480	420	340	440×440	390×390	340×340	505	1150	8-φ17	
26型	26	2.2	24/33/42	280	310	500	460	400	510×510	450×450	400×400	520	1300	12-φ17	
30型	30	3	24/33/42	280	350	500	440	440	550×550	495×495	440×440	550	1350	12-φ17	
40型	40	3	24/33/42	280	450	620	558	500	620×620	558×558	500×500	620	1500	12-φ17	
50型	50	3	24/33/42	280	500	650	600	540	650×650	600×600	540×540	650	1600	12-φ17	

风送式旋转阀 Air rotary valve



压力范围：2kg/cm²系统压力或压差。

增大入口/出口：正方形，没有截面尺寸对料流的限制从而可达最高产量。

普通型：结构紧凑，占用空间小。

轴承外置式：有效的防止粉尘侵入轴承，增大设备适应较高温度的使用范围。

驱动方式：链驱动 / 马达直联驱动口

动力配置：摆线针轮减速机、Y系列电机(可按需方指定动力配置)。

材质选项：碳钢、铸铁、不锈钢、铝合金、陶瓷系列等。

Pressure range: 2kg/cm² system pressure or differential pressure.

Increasing import/export: the square. No section size materials of flow restriction which can reach maximum yield.

Common type: compact structure, take up the space is small.

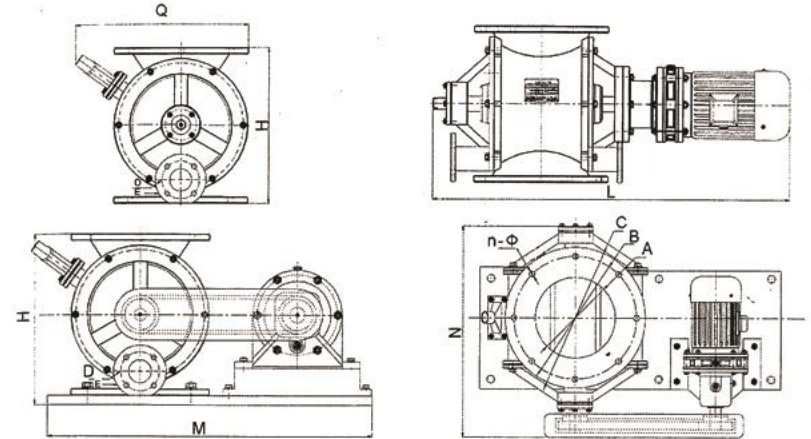
Bearing outer type: effectively prevent dust invading bearing, increase equipment adapt high temperature scope of application.

Drive mode: chain drive / motor direct drive.

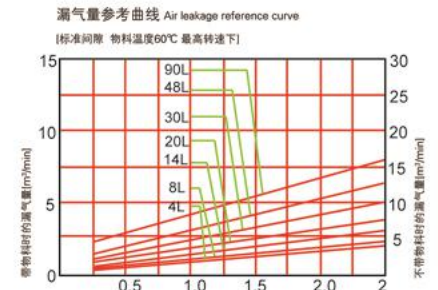
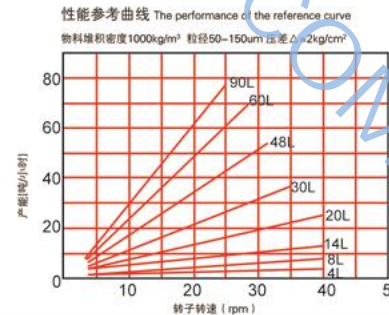
Dynamic allocation: cycloidal reducer, Y series motor(according to buyer's designated dynamic configuration).

Material option: Carbon steel, cast iron, stainless steel, aluminum alloy, ceramic series, etc..

外形尺寸及参数 Dimensions and parameters



型号 Model	外形及安装联接尺寸 Outline and installation connection size(mm)											工作温度 Temperature ℃	转速 Speed 转/分 Rev/min	电机功率 Motor power KW	
	A	B	C	D	E	F	H		L	M	N				n-φ
4L	150	240	285	65	110	95	325	345	755	755	520	8-φ22	≤280	24	0.75
8L	200	295	340	80	130	110	385	400	780	780	550	8-φ22	≤280	24	1.1
14L	250	350	395	100	150	140	455	455	840	800	580	12-φ22	≤280	24	1.1-1.5
20L	300	400	445	125	185	160	542	540	900	900	660	12-φ22	≤280	24	1.5
30L	350	450	505	150	196	195	590	610	960	950	700	16-φ22	≤280	24	2.2
48L	400	480	520	175	235	220	692	640	1050	1000	760	12-φ17	≤280	24	2.2
60L	450	520	580	175	295	220	724	690	1080	1050	800	12-φ17	≤280	24	3
90L	500	580	640	200	260	240	820	820	1150	1100	850	12-φ17	≤280	24	4



清洗型旋转阀 Cleaning type rotary valve



一、产品概述

快速清洗旋转阀可广泛用于食品和医药行业的有高卫生要求的场合，拆卸方便，易于进行快速清理工作，符合高要求的卫生标准。我公司现有两种快拆易清理旋转阀，一种是滑杆式，另一种是快开门式，无死点，操作方便。

1、滑杆式：可原地抽出转子清理，清理完毕后转子推入，旋转定位螺栓即可。

2、快开门式：打开门，松开固定螺栓，抽出叶轮，清洗叶轮后将叶轮推入，旋紧定位螺栓。优点是可将叶轮异地清理。

二、产品特点

- 壳体及主要零部件采用精密铸造，外形美观。
- 转子易于拆卸，方便清洗。
- 转子设有多种形式，适用多种不同特殊物料；转子轴承采用多层保护系统，确保长期工作。
- 与物料接触部件的材料均采用食品级材料，并抛光处理。
- 碳钢、铸铁、不锈钢、铝合金、钛合金、陶瓷系列。

三、可根据客户要求定做各种非标型号。

First, product overview

Quick cleaning rotary valve can be widely used in food and pharmaceutical industries have high hygiene requirements of the occasion, demolition is convenient, easy to carry out a quick clean-up work, in compliance with the requirements of high health standards. My company's existing two kinds of quick dismantling easy cleaning rotary valve, a sliding rod, the other is a fast open, no dead point, convenient operation.

1, sliding rod type: can be pulled out of the rotor in place to clean up, clean up after the rotor is pushed into the rotation of the positioning bolts can be.

2, fast open: open the door, loosen the fixing bolt out of the impeller, the impeller cleaning after the push screw positioning bolt. The advantages are that the impeller can be cleaned up in different places.

Two, product features

The shell and the main components used in precision casting, beautiful appearance.

The rotor is easy to disassembly, convenient cleaning.

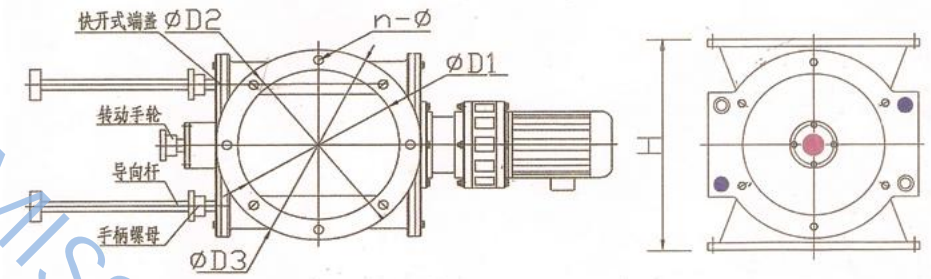
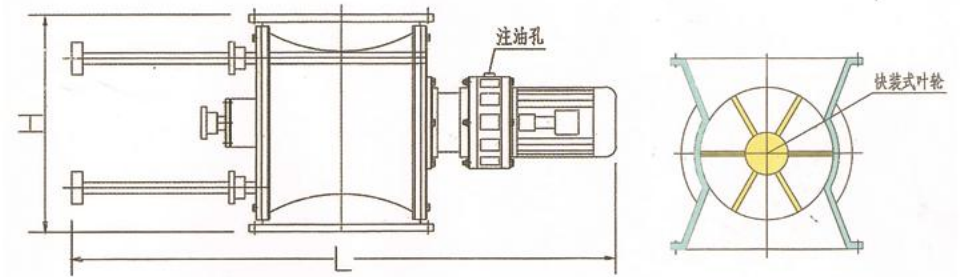
The rotor is provided with a variety of forms, applicable to various special materials; multi layer protection system uses a rotor bearing, ensure the long-term work.

The contact parts and materials materials are made of food grade materials, and polishing processing.

- Carbon steel, cast iron, stainless steel, aluminum alloy, titanium alloy, ceramic series.

Three, can be customized according to customer requirements of various non-standard models.

外形尺寸及参数 Dimensions and parameters



型号 Model	外形及安装连接尺寸 Outline and installation connection size (mm)						转速 Speed 转/分 Rev / min	电机功率 Motor power KW
	D1	D2	D3	H	L	n-φ		
2L	150	240	285	240	860	8-Ø22	24	0.75
6L	200	295	340	300	1000	8-Ø22	24	0.75
12L	250	350	395	300	1060	12-Ø22	24	1.1
16L	300	400	445	400	1150	12-Ø22	24	1.5

耐压型旋转阀 Pressure type rotary valve

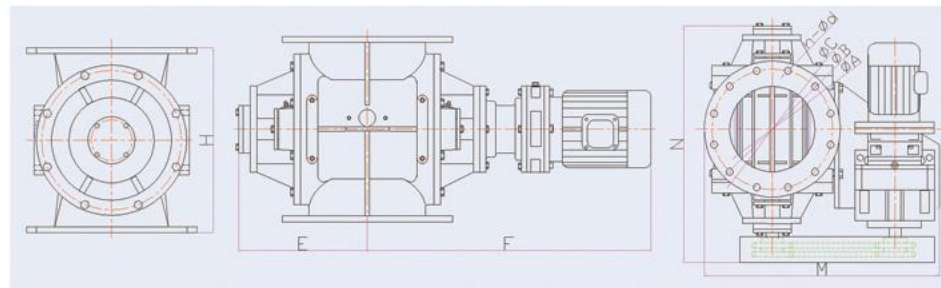


- 适用于-0.8~3kg/cm²系统压力或压差。
- 设置排气口（正压输送时选用）将叶轮旋转带出的气体通过排气口送至排气装置，提高填充效率。
- 极小的间隙和特殊的密封装置保持设备的可靠运行。
- 轴承外置式安装、经久耐用、性能优异。
- 提供链驱动、直联驱动多种安装方式。
- 该型机组进出口安装尺寸一致，是根据不同的安装要求而专门设计的机型。
- 材质主要有：铸钢、不锈钢、铝合金、钛合金、陶瓷系列等。

LGFW

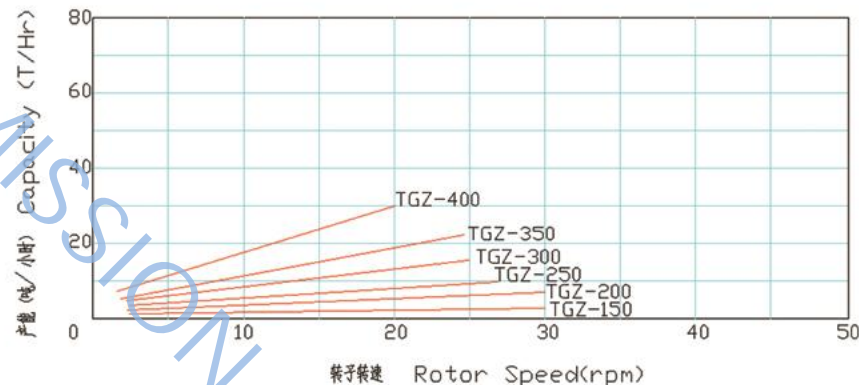
- suitable for -0.8~3kg/cm² system pressure or differential pressure.
- set the exhaust port (positive pressure conveying selection) will be sent to the rotation of the impeller with a gas to exhaust through the exhaust port, improve the filling efficiency.
- The minimum clearance and sealing device special to maintain reliable operation of the equipment.
- The external bearing installation, durable, excellent performance.
- The supply chain drive, direct drive installed in different ways.
- the unit of import and export installation size is consistent, according to the installation requirements of different designed models.
- The main material: cast steel, stainless steel, aluminum alloy, titanium alloy, ceramic series, etc.

外形尺寸及参数 Dimensions and parameters



性能参考曲线 Performance diagram

物料堆积密度 Bulk density 1000kg/cm³ 粒径 Size 50-150um 压差 ΔP=2kg/cm²



型号-口径 Type	每转容积 L/Rev	外形及安装联接尺寸 Stucural dimensions(mm)								转速 r/min	电机功率 (KW)	
		c A	c B	c C	E	F	M	N	H			
TGZ-150	3L	150	240	285	340	580	580	600	330	8-c 22	1-24	0.75~
TGZ-200	6L	200	295	340	370	620	620	650	380	8-c 22	1-24	0.75~
TGZ-250	12L	250	350	395	430	660	680	700	430	12-c 22	1-24	1.5~
TGZ-300	20L	300	400	445	330	690	720	740	490	12-c 22	1-24	1.5~
TGZ-350	30L	350	460	505	360	730	780	770	550	16-c 22	1-24	2.2~
TGZ-400	45L	400	515	565	390	770	840	840	600	16-c 24	1-24	2.2~
TGZ-450	60L	450	550	600	410	800	940	940	690	16-c 24	1-24	3~

DS-F/E 电动锁气器 DS-F/E electric airlock



用途:

本产品适用于火力发电厂除尘器、空气预热器，省煤器等设备的出料口，或干灰输送管道中，作锁气及均匀给料。也可用于化工厂、水泥厂、粮食加工部门的气力运输管道中。

结构与型式:

主要结构有壳体、转子、传动机构（摆线针轮减速机、电动机）。

装置型式主要有两种:

传动机构与转子直线联接，一字排开——直联式。

传动机构与转子用链条搭接——平行轴联式。

在直联式中，又可细分为带角铁支架以配装卧式减速机（加注 B）以及经联轴节直接联接立式减速机的型式（加注 A）

备注：可定制非标型

Use:

This product is suitable for the dust collector, air preheater, the outlet of the equipment, or the dry ash transportation pipeline of the thermal power plant. Can also be used in chemical plants, cement plants, food processing sector in the pneumatic transport pipeline.

Structure and type:

The main structure of the housing, the rotor, the transmission mechanism (the pin gear reducer, motor).

There are two main types of equipment:

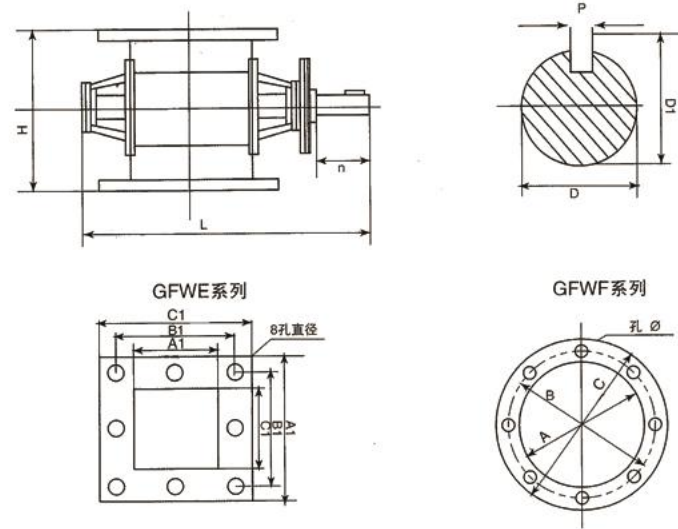
The transmission mechanism and the rotor linear connection, lined up — direct coupling.

The transmission mechanism and the rotor with the chain overlap — parallel axis type.

In the direct type, can be subdivided into zones with horizontal speed reducer to angle iron bracket (with B) and the type directly connected by vertical reducer coupling (with A)

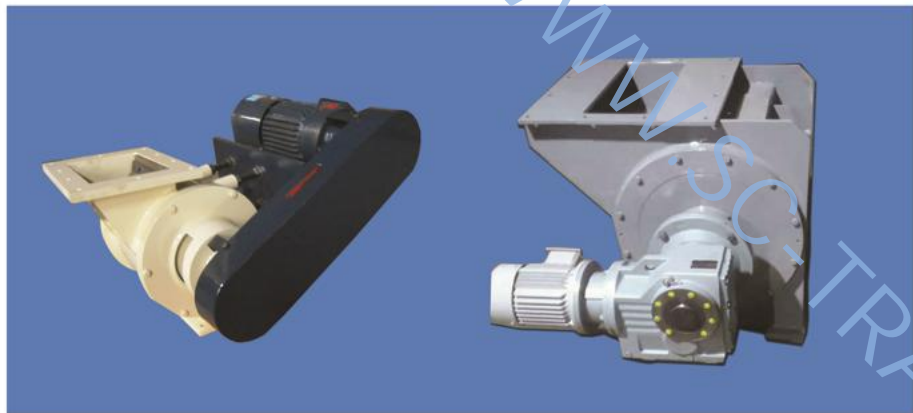
Note: customizable non-standard type.

外形尺寸及参数 Dimensions and parameters



型号 Model	外形及安装联接尺寸 Outline and installation connection size (mm)							转速 Speed 转/分 Rev / min	工作温度℃ Temperature		电机功率 Motor power KW
	A	B	C	A1	B1	C1	H		常温 Normal	耐温 Resistance	
1.8	100	170	200	100	170	200	240	24/42	≤80	≤300	0.75
2	150	200	240	150	200	240	240				
4	180	240	280	180	240	280	280				
6	200	260	300	200	260	300	300				8-Φ13
8	220	280	320	220	280	320	320				
10	240	300	340	240	300	340	340				
12	260	320	360	260	320	360	360	8-Φ13			
14	280	340	380	280	340	380	380				
16	300	360	400	300	360	400	400				
20	350	410	450	350	410	450	470	12-Φ13			
26	400	460	500	400	460	500	520				
30	450	520	570	450	520	570	570				
40	500	570	620	500	570	620	630	12-Φ17			
50	550	620	670	550	620	670	680				
80	600	670	720	600	670	720	740	16-Φ17			
120	650	720	770	650	720	770	790				
160	700	770	820	700	770	820	840				

偏置式系列 Offset series



- 适用于 $\leq 2\text{kg}/\text{cm}^2$ 系统压力或压差
- 设置排气口（正压输送时选用）将叶轮旋转带出的高压气体通过排气口送至排气装置，提高填充效率。
- 防切料入口设计，即便上游充满物料也可安全启动。
- 偏置式进出口设计，减少了物料的破碎与损坏。
- 轴承外置式安装、经久耐用、性能优异。
- 提供链驱动、直联驱动多种安装方式。
- 根据需求配置减速机电机。
- 材质主要有：铸钢、不锈钢系列等。

- suitable for $2\text{kg}/\text{cm}^2$ system pressure or differential pressure

- set the exhaust port (positive pressure conveying with high pressure gas) will be sent out to the rotation of the impeller exhaust through the exhaust port, improve the filling efficiency.

The design of anti-cutting entrance, even if the upstream is full of material can also be safe to start.

The offset inlet and outlet design, reduce the damage and broken material.

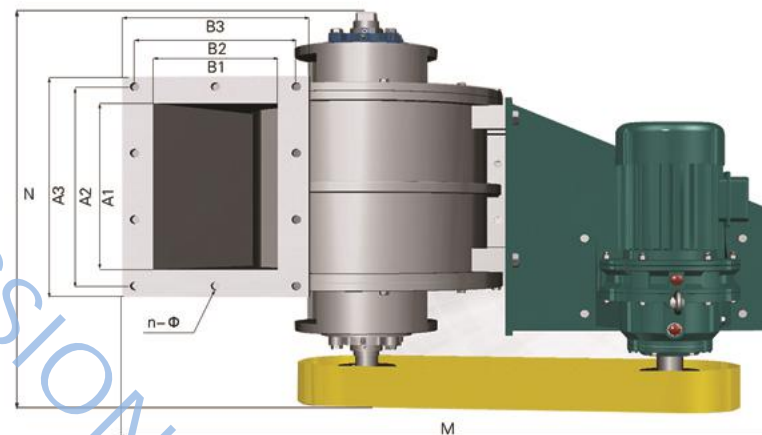
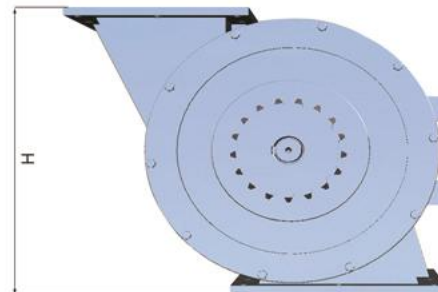
The external bearing installation, durable, excellent performance.

The supply chain drive, direct drive installed in different ways.

According to the demand of motor speed - configuration.

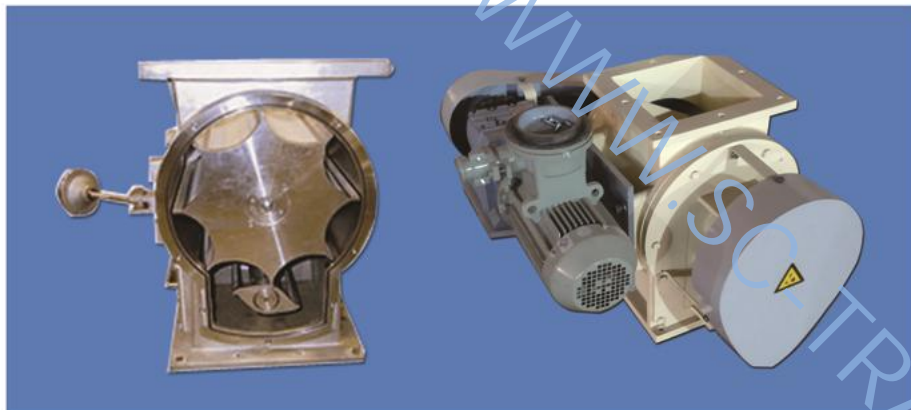
The main material: steel, stainless steel series etc..

偏置式系列 Offset series



型号 Model	每转容积 L/Rev	外形及安装连接尺寸Outline and installation connection size(mm)								转速 Speed 转/分 Rev / min	电机功率 Motor power KW	
		A1 × B1	A2 × B2	A3 × B3	E	F	M	N	H			n-φ
TPZ-200	6	180 × 150	240 × 210	280 × 250	220	270	620	590	370	8-φ11	10-50	0.75
TPZ-250	12	220 × 175	280 × 240	320 × 290	250	300	680	640	430	10-φ11	10-50	1.1
TPZ-320	25	280 × 200	350 × 270	390 × 310	290	350	720	680	490	12-φ13	10-32	1.5
TPZ-400	40	370 × 260	440 × 330	480 × 370	330	390	780	730	550	12-φ13	10-32	1.5
TPZ-480	60	450 × 300	520 × 370	560 × 410	380	440	840	780	600	16-φ18	10-24	2.2
TPZ-550	90	500 × 320	570 × 390	620 × 430	420	490	900	830	660	16-φ18	10-24	2.2
TPZ-600	120	550 × 350	620 × 420	670 × 470	440	510	1000	900	720	20-φ18	10-24	3

(BGB)刮板式系列
(BGB)Scrapper Series

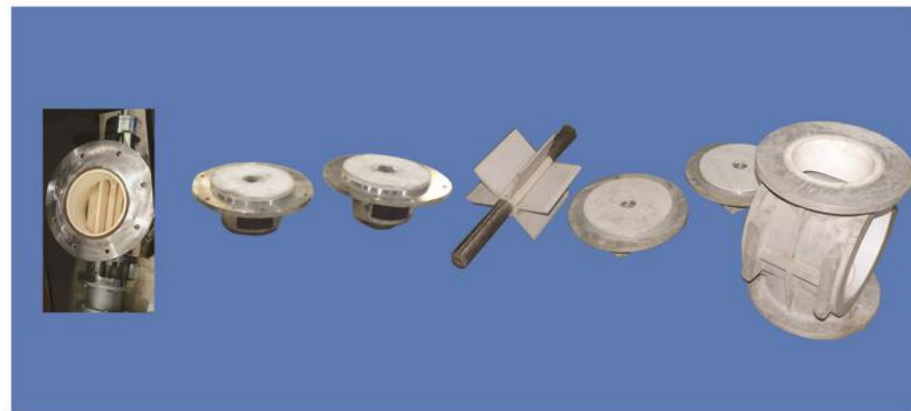


- ◆适用于具有吸湿粘性和带有静电吸附性的粉粒物料
- ◆阀体下部的旋转刮板自动将附在转子料斗内的物料刮落
- ◆阀体上开有清理口，便于定期清除旋转阀内部的物料
- ◆提供链驱动、马达直连驱动
- ◆材质：碳钢、不锈钢系列等

It is suitable for viscous and electrostatic adsorption with moisture of powder material
The lower part of the valve body of the automatic rotating scrapper will be attached to the rotor of the hopper material scraping
The valve body is provided with a cleaning hole, to periodically remove the rotary valve interior materials
The supply chain drive, motor direct drive
The material: carbon steel, stainless steel series etc.

型号 B Model	每转容积 L/Rev	外形及安装连接尺寸Outline and installation connection size(mm)										转速 Speed 转/分 Rev / min	电机功率 Motor power KW	
		A	B	C	E	F	H	P	S	M	N			n-Φd
BGB-200	4	200	260	300	280	660	500	200	170	640	680	8-Φ14	1-24	0.75
BGB-250	8	250	310	350	330	720	530	250	200	660	720	8-Φ14	1-24	1.1
BGB-300	12	300	360	400	360	750	580	300	260	720	760	12-Φ14	1-24	1.5
BGB-350	20	350	410	460	390	780	630	350	300	780	800	12-Φ14	1-24	2.2
BGB-400	30	400	470	520	420	810	680	400	350	820	880	12-Φ18	1-24	2.2
TGB-500	45	500	570	620	560	850	800	500	400	900	980	12-Φ18	1-24	3.0

陶瓷系列卸料阀
Ceramic series discharge valve

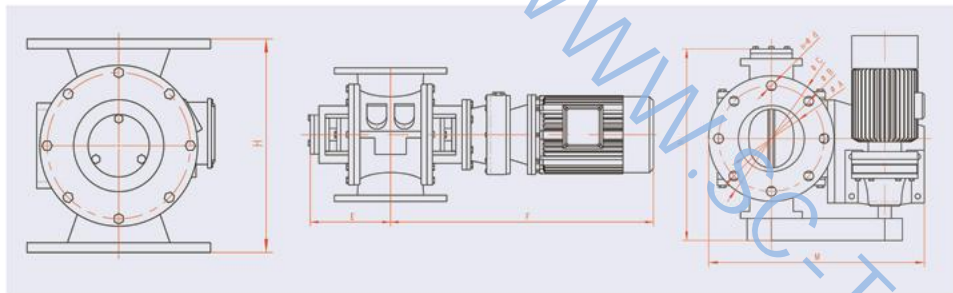


- 适用于是0.8-3kg/cm²系统压力或压差。
- 设置排气口（正压输送时选用）将叶轮旋转带出的气体通过排气口送至排气装置，提高填充效率。
- 极小的间隙和特殊的密封装置保持设备的可靠运行。
- 轴承外置式安装、经久耐用、性能优异。
- 提供链驱动、直联驱动多种安装方式。
- 该型机组进出口安装尺寸一致，是根据不同的安装要求而专门设计的机型。
- 箱体材质主要有：不锈钢、铝合金
- 内衬材质主要有：陶瓷、四氟、PVC
- 内喷涂材质有：陶瓷粉、碳化钨、特氟龙

LGFW

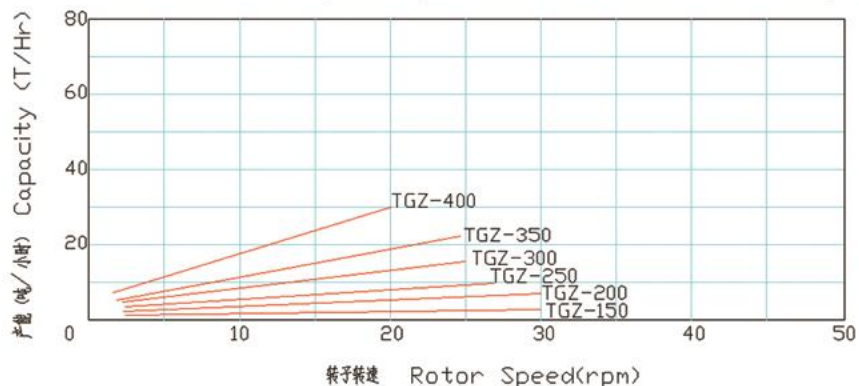
It is applicable to the pressure or pressure difference of the 0.8-3kg/cm² system.
Set up the exhaust port (positive pressure transportation) select the impeller to rotate out of the gas through the exhaust port to the exhaust device, improve the filling efficiency.
Minimal clearance and special sealing device keep the equipment running reliably.
The bearing is externally installed, durable and excellent in performance.
Provide chain drive, direct drive multiple installation methods.
The unit has the same size of import and export, and is specially designed according to different installation requirements.
The main material of the box is stainless steel and aluminum alloy
The lining material is mainly: ceramic, tetrafluoro, PVC
The internal spraying materials are ceramic powder and tungsten carbide Teflon.

外形尺寸及参数 Dimensions and parameters



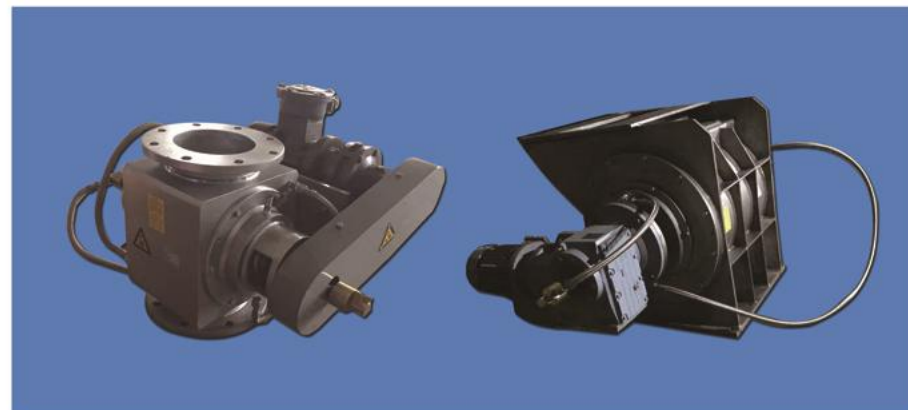
性能参考曲线 Performance diagram

物料堆积密度 Bulk density 1000kg/cm³ 粒径 Size 50-150um 压差 ΔP=2kg/cm²



型号-口径 Type	每转容积 L/Rev	外形及安装联接尺寸 Stucural dimensions(mm)									转速 r/min	电机功率 (KW)
		c A	c B	c C	E	F	M	N	H	n-c d		
TGZ-150	3L	150	240	285	240	580	580	600	360	8-c 22	1-24	0.75-
TGZ-200	6L	200	295	340	270	620	620	650	405	8-c 22	1-24	0.75-
TGZ-250	12L	250	350	395	300	660	680	700	450	12-c 22	1-24	1.5-
TGZ-300	20L	300	400	445	330	690	720	740	510	12-c 22	1-24	1.5-

ZGS耐高温系列 ZGS High Temperature Resistant Series



产品特点:

ZGS 耐高温系列卸料阀，主要用于锅炉、火力发电等行业，本产品精选耐高温轴承，箱体叶轮轴承座采用循环水冷却，能承受小于1000度高温。

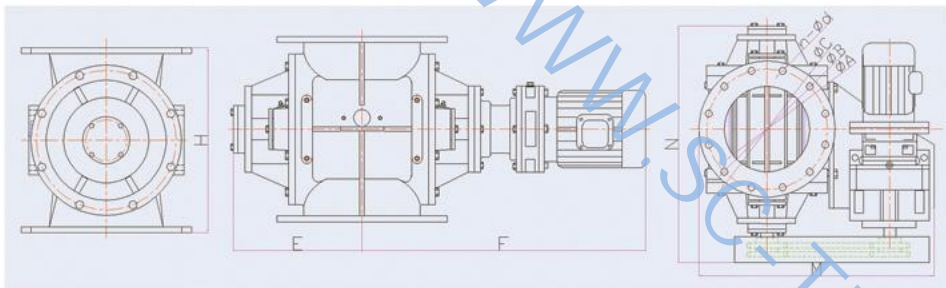
本系列产品也可根据需方特殊要求定制技术参数。

Product characteristics

ZGS high-temperature series discharging valves are mainly used in boilers, thermal power generation and other industries. This product has selected high-temperature bearing. The bearing seat of the impeller of the box body is cooled by circulating water and can withstand high temperatures less than 1000 degrees.

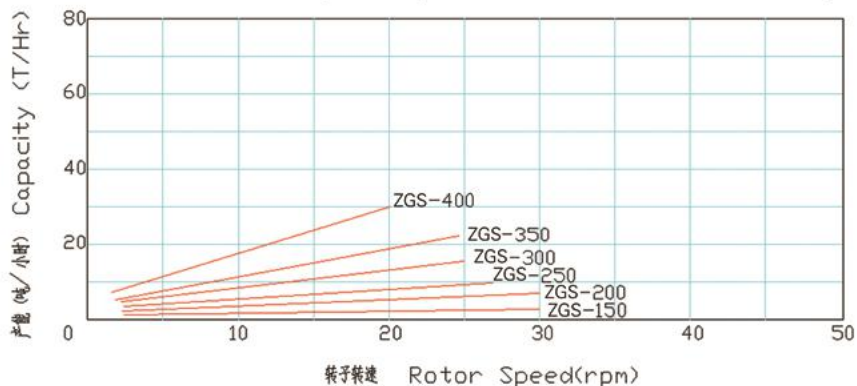
This series of products can also be customized according to the special requirements of the demand side.

外形尺寸及参数 Dimensions and parameters



性能参考曲线 Performance diagram

物料堆积密度Bulk density 1000kg/cm² 粒径Size50-150um 压差P=2kg/cm²



型号-口径 Type	每转容积 L/Rev	外形及安装联接尺寸 Stucural dimensions(mm)								转速 r/mim	电机功率 (KW)	
		c A	c B	c C	E	F	M	N	H			n-c d
ZGS-150	3L	150	240	285	240	580	580	600	330	8-c 22	1-24	0.75~
ZGS-200	6L	200	295	340	270	620	620	650	380	8-c 22	1-24	0.75~
ZGS-250	12L	250	350	395	300	660	680	700	430	12-c 22	1-24	1.5~
ZGS-300	20L	300	400	445	330	690	720	740	490	12-c 22	1-24	1.5~
ZGS-350	30L	350	460	505	360	730	780	770	550	16-c 22	1-24	2.2~
ZGS-400	45L	400	515	565	390	770	840	840	600	16-c 24	1-24	2.2~

关风机的安装, 使用及维护

安装

- 1、检查产品经过运输或贮藏后是否损坏锈蚀；叶轮应能灵活转动。
- 2、与关风器的结合平面应平整，平面度不大于0.5mm，以免机壳变形引起故障。
- 3、关风器安装后要校正水平，紧固固定螺栓，叶轮能灵活转动无障碍。

使用和维护

开车前准备工作

- 1、设备上需要加油的地方应检查是否添加了润滑油。
- 2、按电机接线规定正确接电，并加装电机过载保护装置。
- 3、检查关风器运转方向是否正确。
- 4、设备需空运行1个小时，应能正常运转，无异常情况方可进入重载。

设备运行维护

- 1、设备在运行中，应经常注意排料管道是否堵塞，叶轮是否被物料卡死，物料中发现有绳、铁丝、水泥、石块等阻碍排料的物质，应及时清除。
- 2、关风器发现有物料回升、下料困难的现象，应检查叶轮与机壳的间隙，如带镶片的关风器可调整镶片与机壳的间隙，减小叶轮与机壳的轴向及径向间隙，减少漏风。
- 3、长期停车后重新开车前，应先人工转动叶轮，防止锈蚀后转不动而发生故障，并同时检查设备是否需要添加润滑油。
- 4、润滑油的添加要求：
 - ①直联微型摆线针轮(斜齿轮)减速机在出厂前已加好润滑油(脂)，不需再加。使用三个月至六个月后将污油排空，重新加置2号极压锂基脂。(可在-60℃温度使用)
 - ②斜齿轮减速机加油按照操作手册进行维护。
 - ③卧式摆线针轮减速器的润滑油规格可选：在出厂前已加好油脂2#油脂。
 更换周期：第一次1000小时，以后5000小时。
- 5、轴承内加钠基润滑脂；更换周期5000小时。
- 6、链条上加少量齿轮油，加油周期8小时。
- 7、配链轮链条传动的组合关风器在出厂前已加好油脂，无须再加，设备在运转段时间后应注意链条涨紧在合适的位置，保持正常啮合。

在您需要购买时

请尽量详细告知如下项目

- 1.用途：请说明是定量排出、全量排出还是气锁
- 2.使用场所：室内还是室外、高原还是沿海
- 3.流量：每小时供料量
- 4.输送物料的性能(介质)：名称、粒度、堆积密度、温度、安息角、含水率
- 5.输送场合：正压、负压、常压
- 6.减速机、电机：请指定防护等级、防爆等级
- 7.涂漆色：有无指定颜色(无指定是为企业产品标准色)
- 8.材质：碳钢、铸铁、不锈钢、铝合金、钛合金、PPC、陶瓷等

The wind off the machine installation, use and maintenance

Installation

- 1, check the product after the transport or storage damage or corrosion; impeller should be flexible rotation.
- 2, and an airlock binding surface shall be flat, flatness is less than 0.5mm, so as to avoid the casing deformation caused by fault.
- 3, the wind closing device after installation correction levels, fastening bolts, the impeller can rotate flexibly without obstacle.

Use and maintenance

Preparation work before driving

- 1, the equipment need refueling place should check whether the add lubricating oil.
- The correct power 2, according to the motor wiring regulations, and to install the motor overload protection device.

- 3, check the running direction of the wind is correct.

- 4, equipment required to run 1 hours, should be able to operate normally, no abnormal situation can enter the overloading.

Equipment operation and maintenance

- 1, operation of equipment, should always pay attention to the discharge pipe is blocked, impeller material stuck, material is found to have a rope, wire, cement, stone block nesting material, should be promptly removed.
- 2, an airlock found material recovery, feeding difficulties phenomenon, should check the clearance between impeller and casing, such as wind closing device with insert adjustable inserts and casing, axial and radial clearance reduction of impeller and casing, reduce air leakage.
- 3, the long-term parking restart before, should first artificial rotating impeller, prevent corrosion can't turn the failure, and also check whether the equipments need to add lubricating oil.

Add 4, lubricating oil:

The direct Mini cycloid (helical gear reducer) has a good lubrication in the factory (fat), do not need to add. The use of three months to six months after the oil drain, to add 2 of extreme pressure lithium. (can be used in the temperature of -60 DEG C)

The helical gear reducer oiling maintenance according to operation manual.

The horizontal cycloid reducer lubrication oil specification optional: has good oil 2# oil in the factory.

Replacement period: the first 1000 hours, 5000 hours after the.

- 5, the bearing and sodium base grease replacement cycle for 5000 hours.

- 6, the chain with a small amount of gear oil, gas cycle is 8 hours.

Combination of the 7, with the chain sprocket drive shutting off device has good oil in the factory, do not need to be added, the equipment should pay attention to chain tension in the right position in operation after a period of time, to maintain the normal meshing.

When you need to buy

Please inform the following items as detailed as possible.

- 1 use: Please note that the amount of discharge, the whole amount of discharge or gas lock
- 2 use place: indoor or outdoor, plateau or coastal
- 3 flow: feeding amount per hour
- 4 the performance of transport materials (media): name, size, bulk density, temperature, repose angle, moisture content
- 5 conveying occasions: positive pressure, negative pressure, atmospheric pressure
- 6 speed reducer, motor: Please specify the level of protection, explosion-proof grade
- 7 painting color: there is no specified color (no designation is for enterprise product standard color)
- 8 material: carbon steel, cast iron, stainless steel, aluminum alloy, titanium alloy, PPC, ceramic, etc.

用途 Use



▲ 除尘行业 Dust removal industry



▲ 化工行业 Chemical industry



▲ 冶金行业 Metallurgical industry



▲ 粮食行业 Food industry



▲ 电力行业 Electric power industry



▲ 矿山行业 Mining industry



▲ 木业 Lumbering



▲ 水泥行业 Cement industry