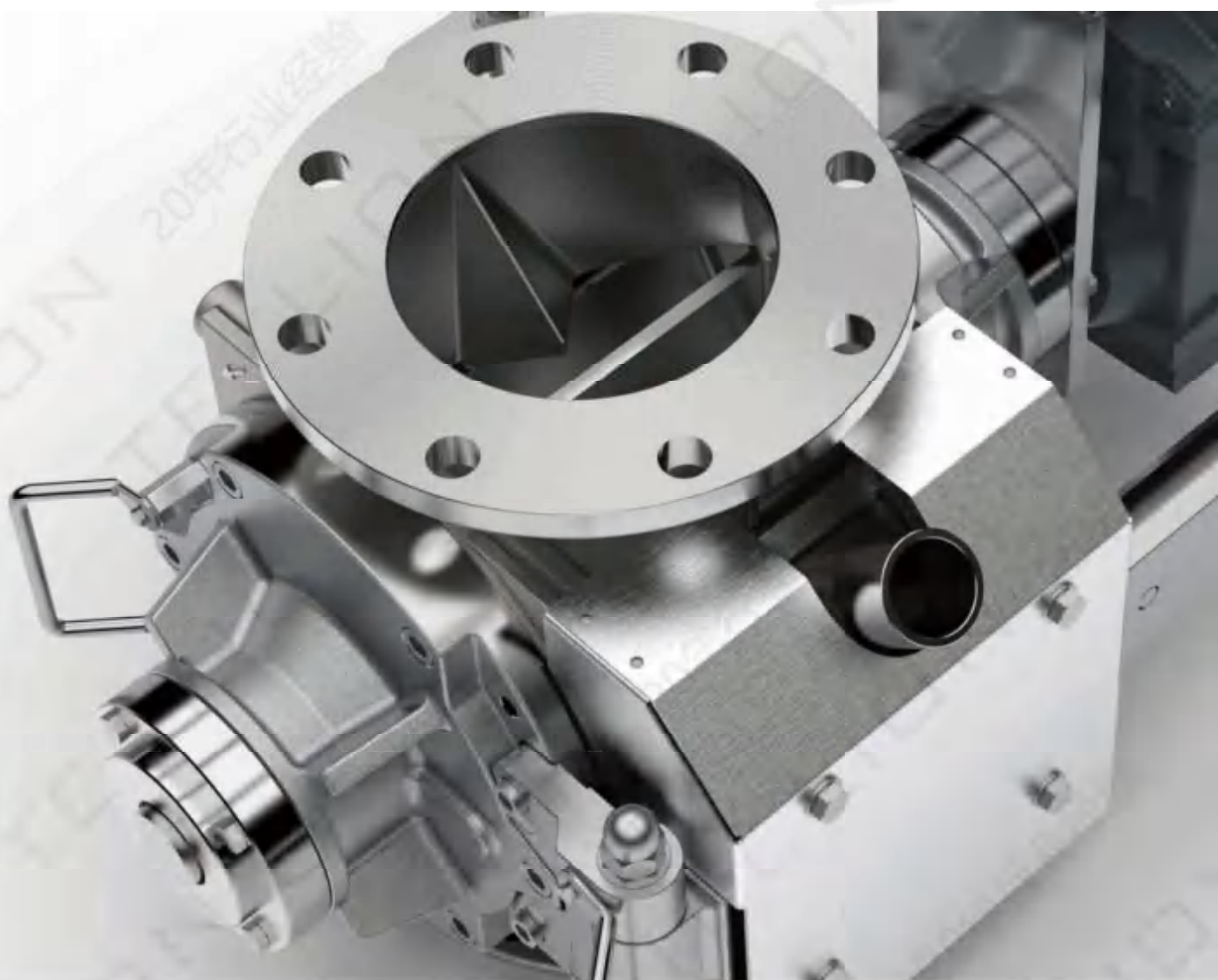




旋转阀
换向阀
刀闸阀
打散机
其它设备

ROTARY VALVES
DIVERter VALVES
GATE VALVES
LUMP BREAKER
SPECIAL COMPONENTS

Components
固体物料输送设备

版本: 202503

TECLION
科狮机械
Your needs, my passion.

TECLION 科狮机械

致力于解决困扰用户的粉粒体输送设备难题。

We creat value for our customers



TECLION
科狮机械
WWW.TECLION.COM



Made in china



塑料 PLASTICS

PP, PE, PET, RPET, PVC, PA, POM
ABS, PBS, PLA, SAP, BPA, PAEK.....



化学 CHEMICALS

染料、肥料、PTA、盐、碱、催化剂
钛白粉、三聚氰胺、细微玻璃体、活
性炭、氧化铝粉.....



食品 FOOD

燕麦、奶粉、面粉、豆粉、豆片、麦片
酵母、味素、白砂糖、米粉、茶多酚、
咖啡、膳食纤维.....



矿物 MINERALS

煤粉、石灰、硫磺粉、铝盐粉、彩砂
氧化铁、硅粉、矾土.....



电池 BATTERY

磷酸铁锂、六氟磷酸锂、三元材料
石墨.....

20年设计制造和现场经验
More than 20 years experience

科狮机械是专业研发和制造散装物料输送设备的创新型企业，汇聚了一批具有20年行业经验的设计师，工艺师和制造工匠。知己知彼，凭借多年的实践经验，实现了散装物料输送设备的体系化研发和制造。无论是稀相、密相输送，无论高温还是高压，无论高研磨物料、轻质物料还是粘附性物料，无论卫生等级、防爆等级等各类苛刻工况要求，科狮都能为客户提供可靠适用的产品和方案。

您的需求在哪里，我们的激情就燃烧到哪里！

科狮目前与国内外众多工程公司、终端用户建立了良好的合作关系，客户范围更不断拓展。从化工、橡胶到矿石、水泥，从食品、医药到饲料、粮食，从环保、日化到电池新能源，我们的产品和服务被各行业广泛应用。

科狮犹如一头攻坚克难、一往无前的雄狮，不断创新，为客户创造价值。

科狮机械Teclion  一必将是您更好的选择！

TECLION is a modern technology enterprise specializing in the design and manufacture of bulk material conveying equipment, bringing together a group of engineers, designers, and craftsmen who are all with more than 20 years of working experience. On the basis of fully studying first-class brand products in the world, taking advantage of many advantages, and through many years of practice, we have realized the systematic development of bulk material delivery valves. Whether it is used for dilute or dense phase transportation, high temperature or high pressure, high abrasive material, light material or viscous material, no matter the requirements of various harsh working conditions such as sanitary grade and explosion-proof grade.

TECLION can provide customers with reliable and applicable product solutions.

TECLION has established good cooperative relations with many engineering companies and end users at home and abroad. The category of customers is expanding constantly. Such as chemical industry, rubber industry, ore, cement, food, medicine, feed, grain, environmental protection, daily chemical, battery, our products are widely used in various industries.

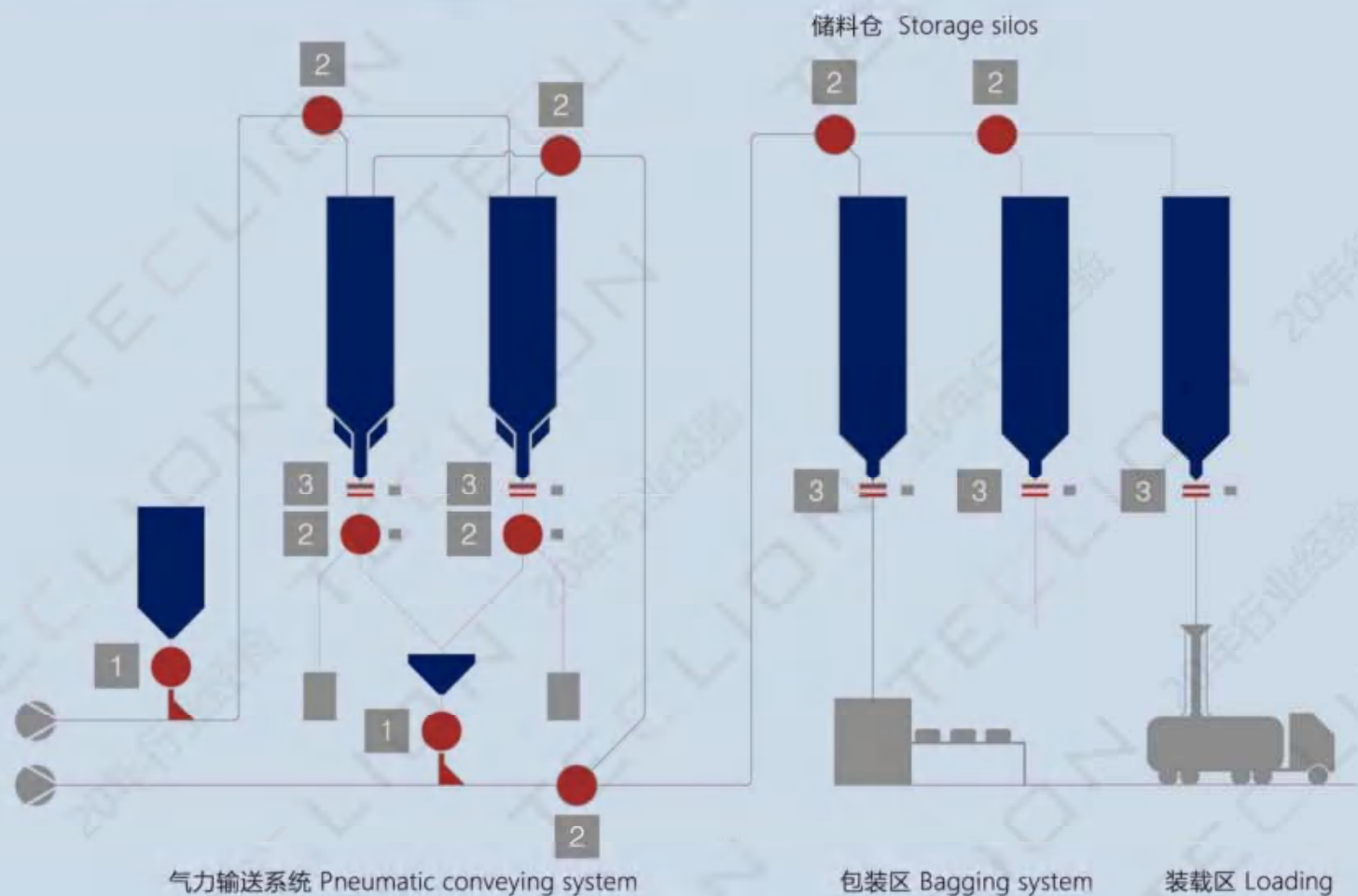
We know there is no boundaries in science & technology and their application. We also understand our cause need more efforts.

TECLION will just be a lion who always forge ahead together with customers.

TECLION -- better choice forever for you!

我们的设备位于固体物料输送过程的重要位置，标准化、模块化设计可大大降低用户使用和维护成本。

Our components is located in an important position in the solid material handling process, and the standardized, modular design can greatly lower maintenance costs.



1 旋转阀 Rotary valves

2 换向阀 Diverter valves

3 刀闸阀 Gate valves



我们有服务大型化工、食品、矿物输送企业的丰富经验。
We have rich experience in serving chemical, food and mineral enterprises.



Honeywell



CLARIANT



BTR 贝特瑞



VCONTRON

沃顿科技股份有限公司



ExxonMobil

Energy lives here™



6 Contents 目录

ROTARY VALVES 旋转阀

INTRO WITH SELECTION MATRIX ON PAGE 8/9 选型表格位于第8-9

ROTARY VALVES FOR POWDERS 粉末介质旋转阀

10	RDW	Rotary Valve Powder High duty Low Volume 小容积, 高载荷, 管线稀相输送					
10	RDM	Rotary Valve Powder High duty Medium Volume 大容积, 高载荷, 管线稀相输送					
11	RDC	Rotary Valve Powder Quick-clean 快速清洗, 高载荷, 管线稀相输送					
12	RDB	Rotary Valve Powder Blow-through 侧盖侧直吹, 高载荷, 安装空间小, 轻质, 吸附性粉末					
13	RDP	Rotary Valve Powder Polished Sanitary 洁净卫生小口径, 医药食品电池专用					
14	RDL	Rotary Valve Powder Low Duty 低载荷, 高性价比					
15	RDWS	Rotary Valve Powder Square Flange 方口法兰, 中载荷, 高性价比					

ROTARY VALVES FOR GRANULAR PRODUCTS 颗粒介质旋转阀

16	RGM	Rotary Valve Granular Medium Pressure 标准型, 高载荷, 管线稀相输送					
17	RGH	Rotary Valve Granular High Pressure 标准型, 高载荷, 管线密相输送					

OPTIONS AND ACCESSORIES FOR ROTARY VALVES 特殊旋转阀, 旋转阀转子和配件

18	RGT	Rotary Valve Granular&Powder High-Temperature 高温型, 粉末颗粒皆可用					
19	RDS	Rotary Valve Powder Scraper 联动刮刀, 适用于吸附性, 粘性, 轻质物料					
20		Rotor options 转子形式					
21		Accessories for rotary valves 旋转阀附件					
22		Heated housing 伴热系统					
23		Wear protection 耐磨处理					
24		Quick disassembling 其它快拆结构					
25	AC	Air Control Unit 空气流量控制组, 稳流					
26		Test 测试和试验					
27		Bulk solid data 旋转阀用户参数表格					



塑料
PLASTICS



化学
CHEMICALS



食品
FOOD



矿物
MINERALS



电池
BATTERY

DIVERTER VALVES 换向阀

INTRO WITH SELECTION MATRIX ON PAGE 28/29 选择表格位于第28-29页

DIVERTER VALVES 换向阀

30	DK	Diverter valve plug 45°(K) dilute phase 45°分向, 高载荷, 稀相全管线, 密相末端, 卸料	    
31	DT	Diverter valve plug 90°(T) dilute phase 90°分向, 高载荷, 稀相全管线, 密相末端, 卸料	    
32	DV	Diverter valve plug 60°(V) dilute phase 60°分向, 高载荷, 卸料, 稀相全管线, 密相末端	    
33	DH	Diverter valve plug High type 45°(K) 90°(T) dense phase 45°/90°分向, 高载荷, 密相, 柱塞式	    
34	DZ	Diverter valve dual channel dense phase 高载荷, 密相, 密相全管线, 双通道	    
35	DB	Diverter valve Ball type 45°(K) 90°(T) dense phase 45°/90°分向, 高载荷, 密相全管线, 球式	    
36	DP	Diverter valve Pendulum bob dense phase 摆锤, 高载荷, 密相全管线, 耐磨	 
37	DM	Diverter valve Multi-way dilute phase 多路切换, 稀相	  
38	DW	Diverter valve Wye-line dilute phase 孔板式, 稀相	   
39	DDV	Diverter valve Double-knife 60°(V) 60°分向, 两侧可独立开关, 卸料	    
40	DF	Diverter valve Flap 60°(V)45°(K) 60°/45°分向, 低载荷, 高性价比, 卸料	    
41	DRT	Diverter breatheR valve plug 90°(T) 90°分向, 料仓顶部换向呼吸一体	    
42	DU	Diverter full-bore valve plug 45°(K) 90°(T) dense phase 45°/90°分向, 高载荷, 密相, 柱塞式	    
43		Install location 安装方位	

GATE VALVES 刀闸阀

INTRO WITH SELECTION MATRIX ON PAGE 44/45 选择表格位于第44-45页

46	GW	Gate valve Wafer Low Pressure 低压差, 卸料	    
46	GWH	Gate valve Wafer High Pressure 密封要求高的	    
47	G()	Custom gate valve 定制类刀闸阀	    

SPECIAL COMPONENTS 其它设备

48	RBM	Regular LuMp Breaker 破块打散机标准型	    
49	BM	LuMp Breaker 破块打散机筛网型	    
50	VE	Venturi Eductor 气力输送喷射器	   

8 ROTARY VALVES 旋转阀

We provide more customized service products 接受产品定制。

RDW&RDM	RDC	RDB(H)	RDP	RDL	RDWS	RGM	RGH	RGT
Powders 粒径<1mm 粉末						Granular 粒径≤12mm 颗粒		
1.5 barg	1.5 barg	1.5(3.5) barg	1.0 barg	1.0 barg	1.0 barg	1.5 barg	3.5 barg	1.0 barg
								

TYPE CODE FOR ROTARY VALVES 型号说明

RDW 250 - 14 D - S

- Material 材质
- Rotor type 转子形式
- Rotor volume 转子容积
- Size 口径规格
- Valve type 阀门形式

RDS
1.0 barg




TECLION Rotary Valves come with more than 20 years of independent development, precision manufacturing and practical experience. 科狮机械TECLION 有着20年的旋转阀设计、制造及解决用户现场设备问题的经验。



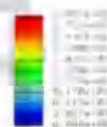
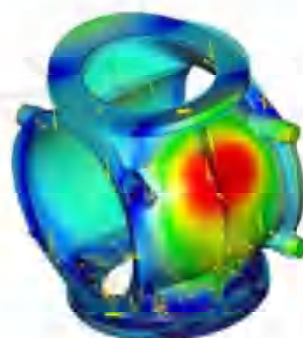
ROTARY VALVES FOR POWDERS

- Large inlet and high filling efficiency
- Precision casting
- Offset inlet for lower gas leakage
- High duty and good rigidity
- Beveled rotor tips
- Standardized design
- Professional valve for battery

粉末介质旋转阀

- 较大的进料口流通截面，高填充率
- 精铸外壳
- 进料口偏位设计，密封性更好
- 高载荷，刚性足，间隙小
- 叶片顶端刀状倒角
- 标准化设计，意味着更低的维护成本
- 专业适用于电池行业

Engineering: Bsp. 10.11
 Project: ...
 Designer: ...
 Rev. 210: ...
 2. edition: ...
 2014-05-01 10:00:00



ATEX explosion-proof certification
 全系列旋转阀已通过ATEX防爆认证。

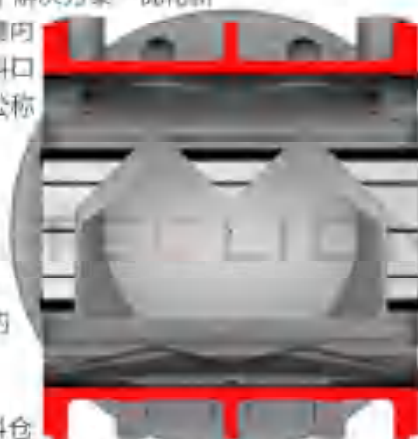
颗粒介质旋转阀

• 对于颗粒物料，如何在保证介质流通截面积的情况下实现颗粒有效防剪切，一直是一个相互矛盾的问题。单纯的在进料口增加一个导流板势必降低转子填充效率。科狮工程师经过实验分析找到了一个解决方案：优化新W型防卡槽的位置和形状，使防卡槽内颗粒处于可流动状态。分析计算进料口通道截面积，使其有效面积与阀门公称截面积相当。

• 此外，优化后的设计有效的降低了转子在剪切颗粒物料时产生的间歇式冲击，进而延长了驱动链条和电机减速机的使用寿命。整个阀门的维护周期也将大大降低。

• 颗粒介质旋转阀可以带料启动，料仓出料口到旋转阀进料口之间可以节省一台气动刀闸阀。

• 有效的进、出料口防剪切设计，大大降低出料口物料堆积引起的堵转概率。并且大大降低了粒子破碎率。



ROTARY VALVES FOR GRANULAR PRODUCTS

• Inlet baffle plates installed in housings prevent plastic pellets from being crushed but, in turn, reduce the remaining inlet cross section, the filling capacity of the rotor chambers and the speed range which results in low throughputs. Our engineers have analyzed the problem and found a solution the edges inside the housing are specially designed to operate like baffles and the down-rotating part of the housing is foreseen with by-pass chambers to avoid product damage. Thanks to this largest possible inlet cross section, a higher throughput can be achieved.

• Furthermore, the smooth and shock-free operation reduces the wear of the chain drive and the gear motor. Exchanging these parts then becomes obsolete, normal product life and regular maintenance provided.

• As the rotary feeder can be reliably started with vertical product columns, slide gate valves for the start-up are no longer required.
 • Very low breakage rate.



粉末介质卸料和计量标准型

- 大流通截面，高填充率
- 适用于气力输送
- 标配可靠的轴吹密封组件
- 适用压差 1.5bar
- 适用温度 250℃
- 本体材质：不锈钢、铸铁
- 法兰压力等级 PN10,ANSI 150lbs
- 适用于防爆区域 

DISCHARGING AND METERING-VALVE FOR POWDERS

- Large cross section for high discharge capacities
- For feeding pneumatic conveying systems
- Separator from product by purged seal arrangement and drop out opening
- Suitable for differential pressure up to 1.5bar
- Temperature range:up to 250℃
- Materials of construction:stainless steel or cast iron
- Flange drillings available to PN10,ANSI 150lbs
- Usable in Ex-zone



Size RDW	100	150	200	250	300	350	400	500
Ltr/rev*	1	3	8	14	28	57	95	118
Size RDM	100	150	200	250	300	350		
Ltr/rev*	2	5	10	20	41	76		

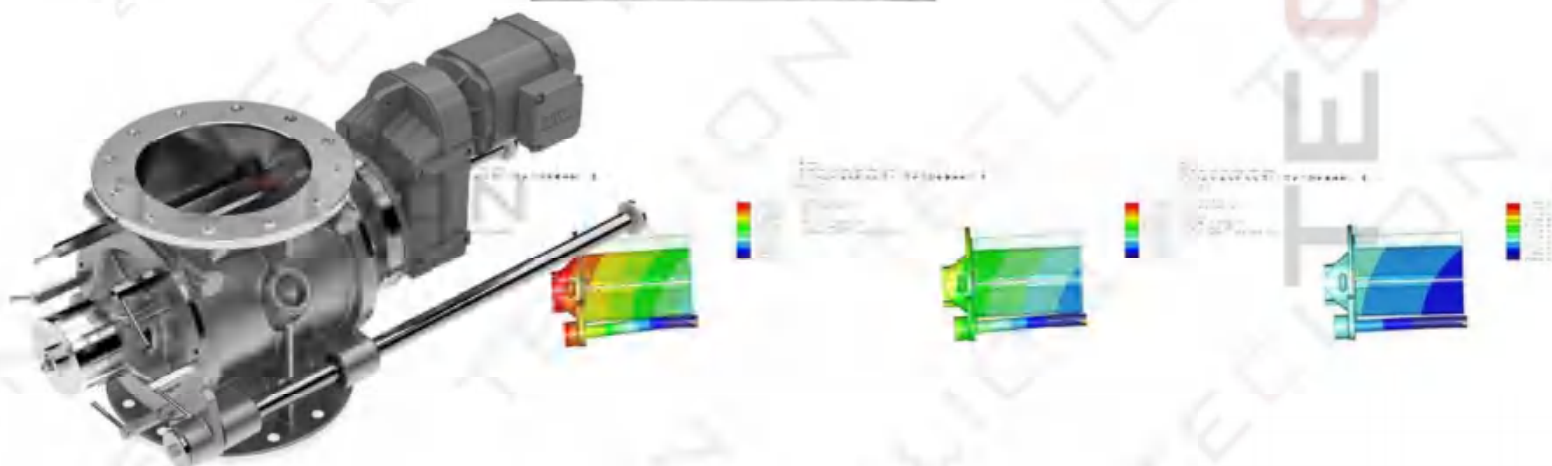
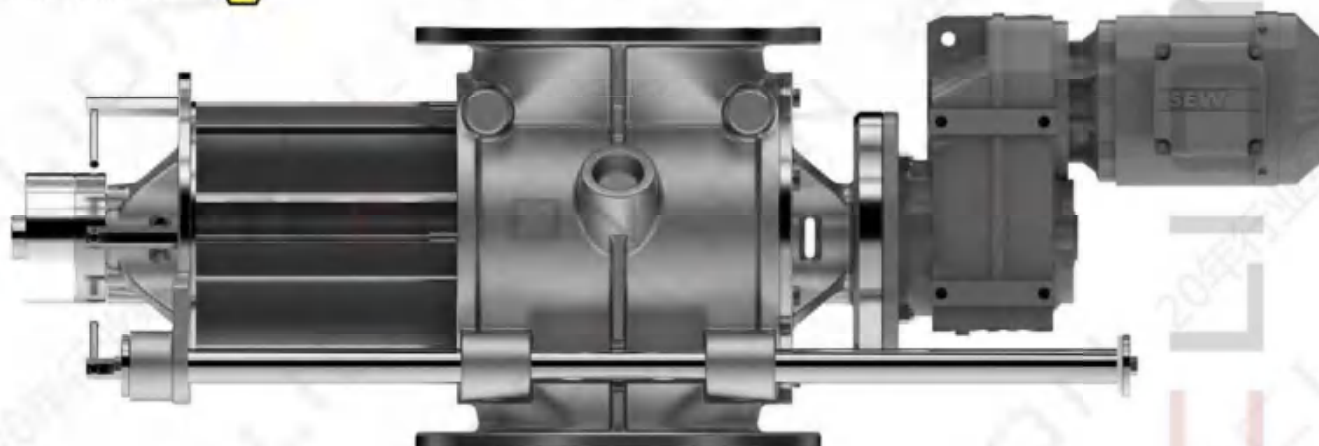
* at 100% filling

粉末介质卸料和计量快速清洗型

- 快速清洗
- 大流通截面，高填充率
- 适用于气力输送
- 标配可靠的轴吹密封组件
- 适用压差 1.5bar
- 适用温度 250°C
- 本体材质：不锈钢
- 法兰压力等级 PN10, ANSI 150lbs
- 适用于防爆区域 

DISCHARGING AND METERING-VALVE FOR POWDERS

- Quick cleaning
- Large inlet for high capacities
- For feeding pneumatic conveying systems
- Separator from product by purged seal arrangement and drop out opening
- Suitable for differential pressure up to 1.5bar
- Temperature range: up to 250°C
- Materials of construction: stainless steel
- Flange drillings available to PN10, ANSI 150lbs
- Usable in Ex-zone



Size RDC	100	150	200	250	300	350
Ltr/rev*	1	3	8	14	28	57
	2	5	10	20	41	76

* at 100% filling

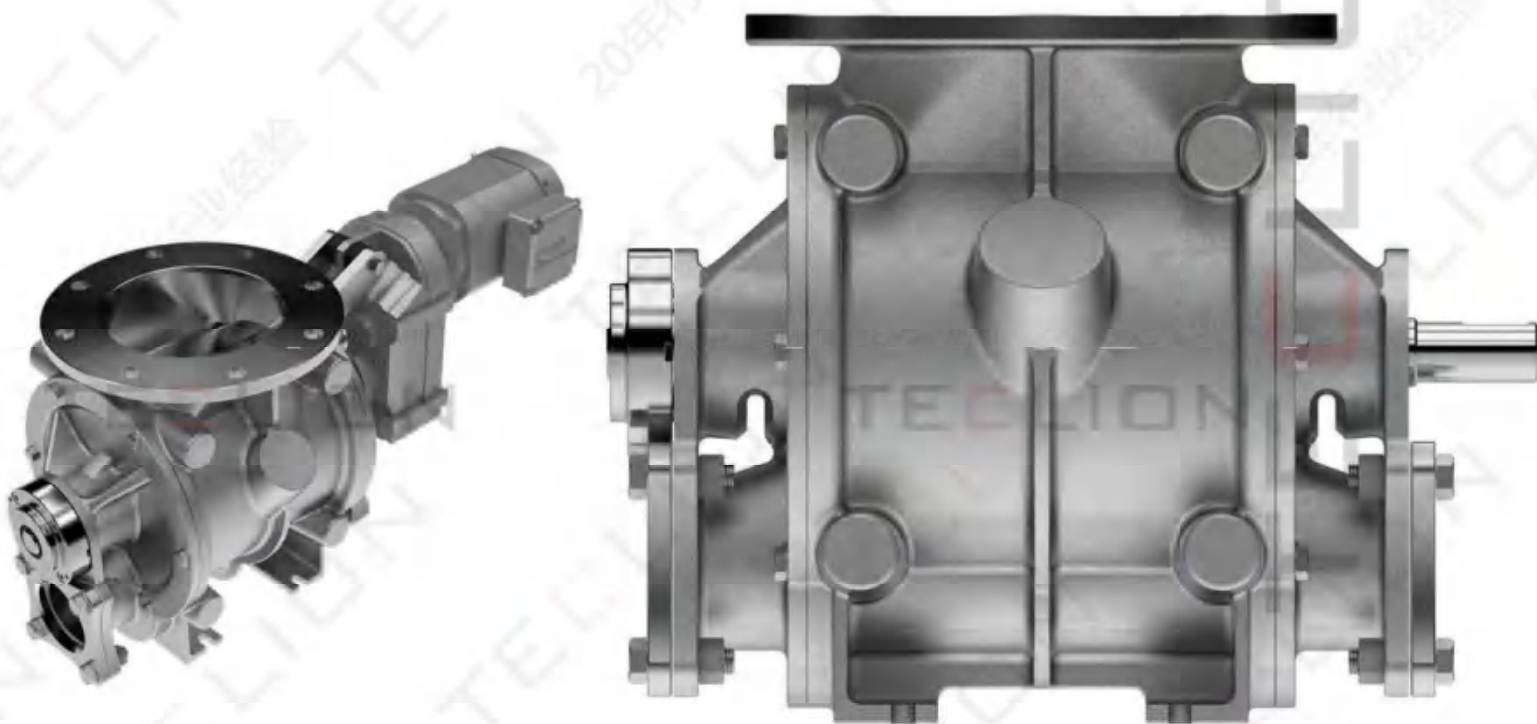


粉末介质直吹型

- 大流通截面，高填充率
- 适用于气力输送
- 适用压差 1.5bar
- H型适用压差 3.5bar
- 适用温度 250℃
- 本体材质：不锈钢、铸铁
- 法兰压力等级 PN10, ANSI 150lbs
- 工作过程中可以不设置排气装置
- 适用于防爆区域 
- 更适用于轻质、易吸附粉末物料
- 节省安装空间

BLOW-THROUGH VALVE FOR POWDERS

- Large inlet for high capacities
- For feeding pneumatic conveying systems
- Suitable for differential pressure up to 1.5bar
- H type suitable for differential pressure up to 3.5bar
- Temperature range: up to 250℃
- Materials of construction: stainless steel or cast iron
- Flange drillings available to PN10, ANSI 150lbs
- Operation possible without leakage gas venting
- Usable in Ex-zone and as protection system
- More suitable for low bulk density, easily adsorbed powder materials
- Saving installation space



Size	100	150	200	250	300	350
Ltr/rev*	1	3	10	20	41	57

* at 100% filling



粉末介质卸料和计量微型

- 卫生场合
- 内外表面均抛光处理，防止物料积存
- 易拆卸式转子
- 适用压差 1.0bar
- 本体材质：不锈钢
- 标准卡箍ISO/BPE/3A/KF、法兰连接PN6
- 适用于防爆区域



DISCHARGING AND METERING-VALVE FOR POWDERS

- For high hygienic standards
- Highly polished surfaces in-and outside to avoid product deposits
- Easy detachable rotor
- Suitable for differential pressure up to 1.0bar
- Materials of construction: stainless steel
- Standard clamp ISO/BPE/3A/KF and flange PN6
- Usable in Ex-zone



Size	65	80	100
Ltr/rev*	0.13	0.25	0.8

* at 100% filling

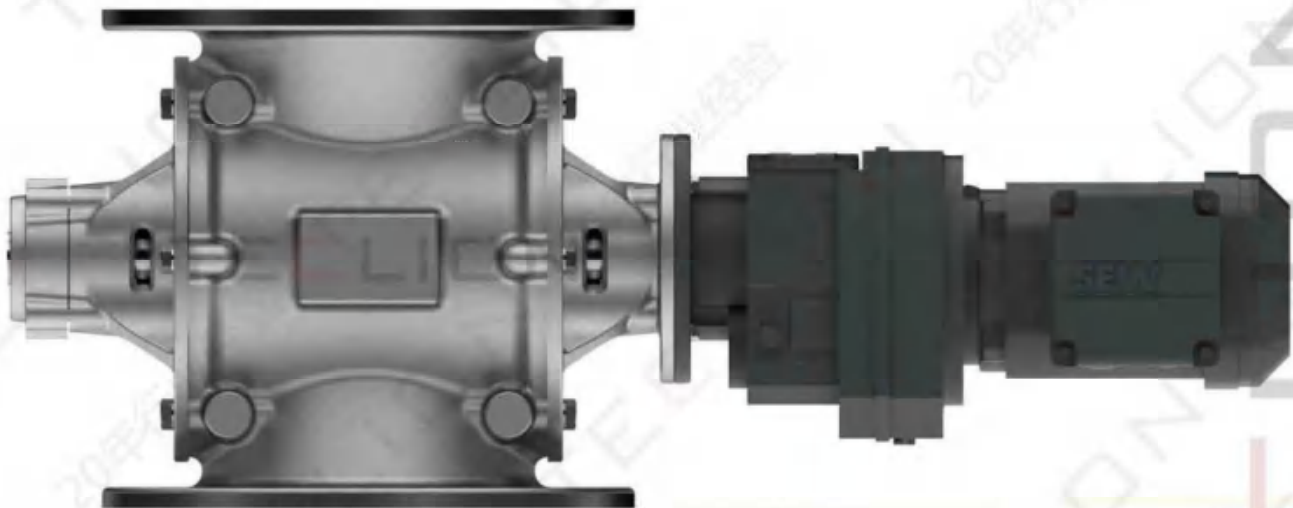


粉末介质卸料和计量经济型

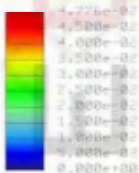
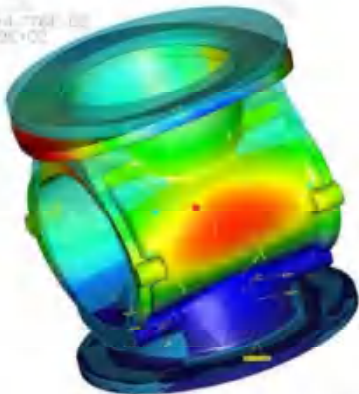
- 高填充率
- 适用压差 0.6bar
- 适用温度 250°C
- 本体材质 不锈钢、碳钢
- 法兰压力等级 PN10,ANSI 150lbs
- 适用于防爆区域 

ECONOMICAL DISCHARGING AND METERING-VALVE FOR POWDERS

- High capacities
- Suitable for differential pressure up to 1.0bar
- Temperature range: up to 250°C
- Materials of construction: stainless steel or carbon steel
- Flange drillings available to PN10, ANSI 150lbs
- Usable in Ex-zone



Displacement Map (MPS)
(mm)
Deformed
Min. Max. = -4.776e-02
Scale = 1.200e+00



Size	150	200	250	300
Ltr/rev	2	6	13	22
		8/10	20	40

* at 100% filling

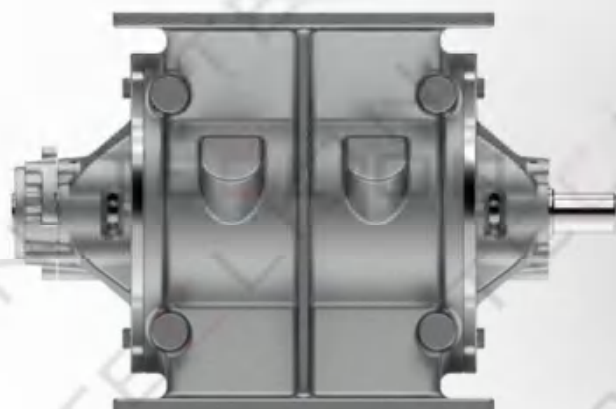


粉末介质卸料和计量方型

- 进出料方口设计
- 适用压差 1.0bar
- 适用温度 250°C
- 本体材质: 铸铁、不锈钢
- 适用于防爆区域 

SQUARE FLANGE DISCHARGING AND METERING-VALVE FOR POWDERS

- Solid housing with square flange-connections
- Suitable for differential pressure up to 1.0bar
- Temperature range: up to 250°C
- Materials of construction: cast iron, stainless steel
- Usable in Ex-zone



Size	150	200	250	300	350	400	450	500	600
Ltr/rev*	3	6	12	24	30	48	69	97	167

* at 100% filling

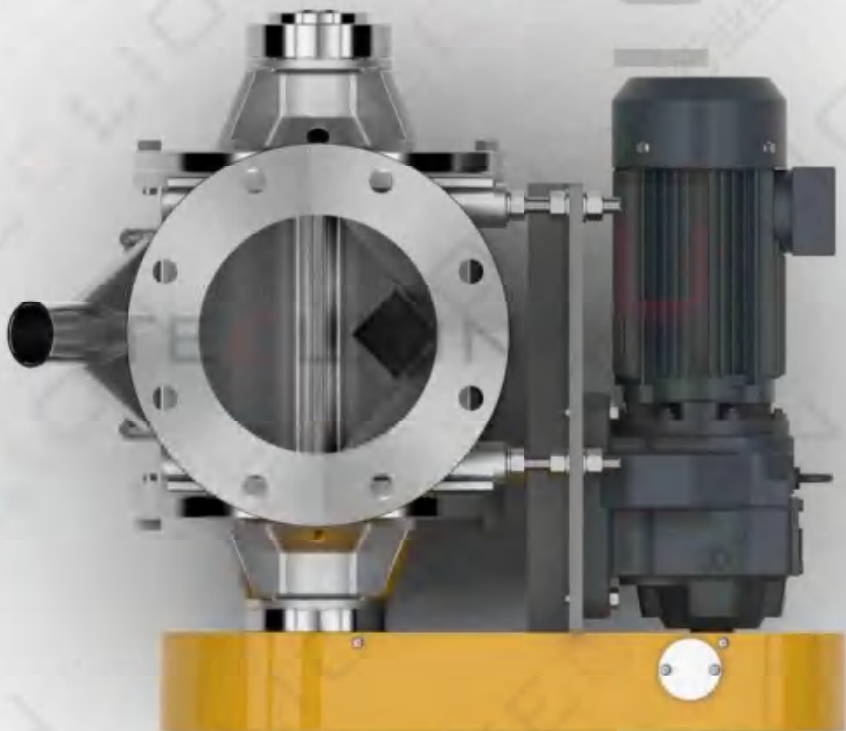


颗粒介质卸料和计量标准型

- 适用于所有塑料粒子
- 高填充率
- 适用气力输送压差 1.5bär
- 进料口和出料口特殊防剪切设计
- 适用温度 250°C
- 本体材质：不锈钢、碳钢
- 法兰压力等级 PN10,ANSI 150lbs
- 适用于防爆区域 
- 非常低的物料破碎率
- 可带料启动

DISCHARGING AND METERING-VALVE FOR GRANULAR PRODUCTS

- For use with granular products and pellets, fine-and coarse-grained products
- High discharge capacities
- With feeding shoe also suitable for feeding bulk materials into pneumatic conveying systems at up to 1.5 barg
- Special inlet and outlet geometry for gentle pellet handling
- Temperature range: up to 250 °C
- Materials of construction: stainless steel and carbon steel
- Flange drillings available to PN10,ANSI 150lbs
- Usable in Ex-zone
- Very low breakage rate
- Reliably started with vertical product columns



Size	100	150	200	250	300	350	400	500	600	700	800
Ltr/rev*	2	5	10	20	40	73	108	157	253	366	650

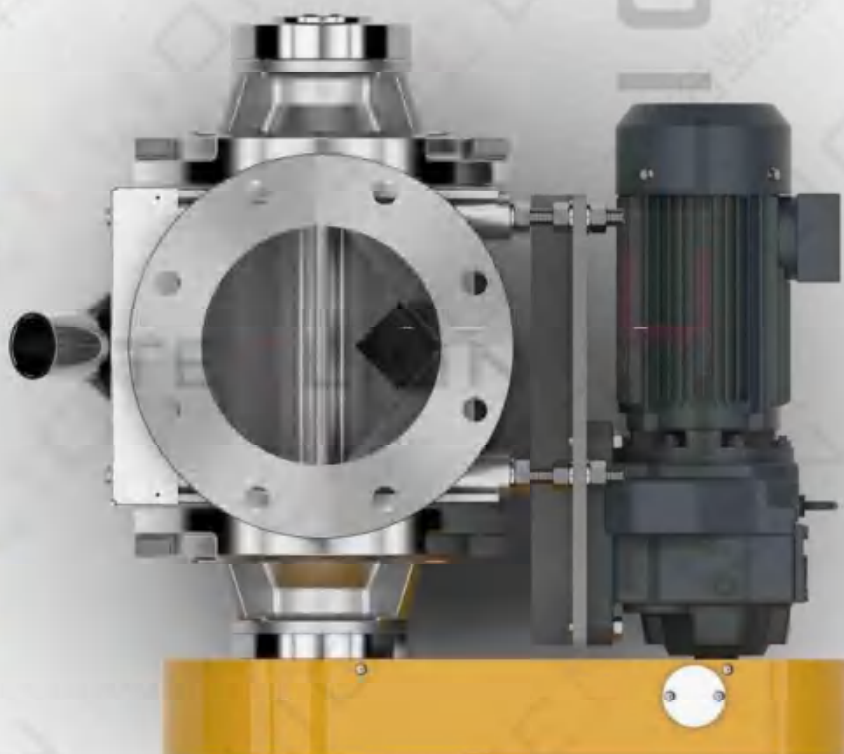
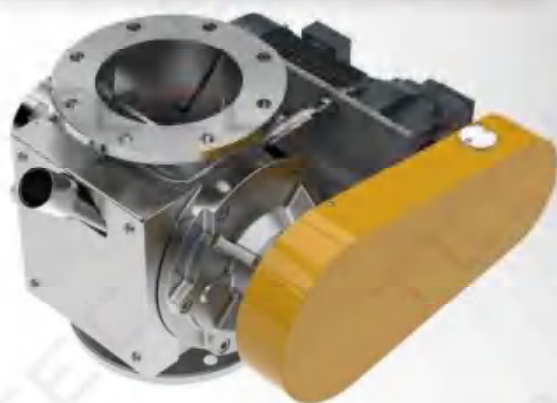
* at 100% filling

颗粒介质卸料和计量高压型

- 适用于所有塑料粒子
- 高填充率
- 适用气力输送压差 3.5bar
- 进料口和出料口特殊防剪切设计
- 适用温度 250℃
- 本体材质：不锈钢、碳钢
- 法兰压力等级 PN10,ANSI 150lbs
- 适用于防爆区域 
- 非常低的物料破碎率
- 可带料启动
- 可靠的端面补偿式机械密封结构，寿命更长
- 低功耗

DISCHARGING AND METERING-VALVE FOR GRANULAR PRODUCTS

- For use with granular products and pellets, fine-and coarse-grained products
- High discharge capacities
- Dense phase,Suitable for differential pressure up to 3.5bar
- Special inlet and outlet geometry for gentle pellet handling
- Temperature range:up to 250℃
- Materials of construction:stainless steel and carbon steel
- Flange drillings available to PN10,ANSI 150lbs
- Usable in Ex-zone
- Very low breakage rate
- Reliably started with vertical product columns
- Lateral arrangement of the axial sealing system,gap-free,low power consumption



Size	100	150	200	250	300	350	400	500	600	700	800
Ltr/rev*	2	5	10	19	37	68	101	150	248	344	623

* at 100% filling

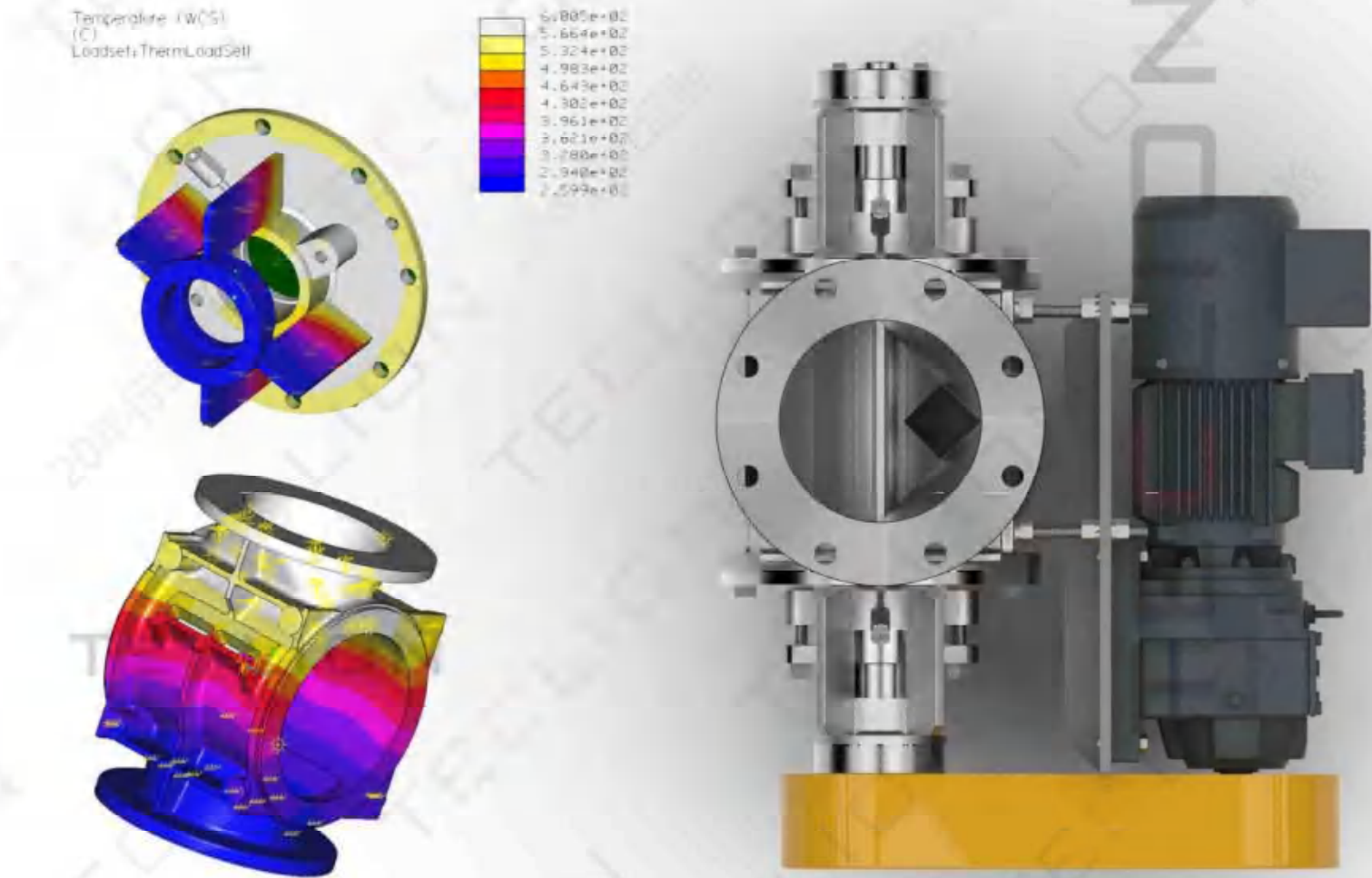


粉粒介质卸料和计量高温型

- 适用于不高于800℃重力落料
- 配合夹套可适用于不高于250℃气力输送
- 可选配全部件水冷系统
- 适用压差* 1.0bar
- 本体材质：不锈钢，钛合金
- 法兰压力等级 PN10,ANSI 150lbs

HIGH-TEMPERATURE VALVE FOR POWDERS OR GRANULAR PRODUCTS

- High temperature execution up to 800°C for gravity flow
- High temperature execution up to 250°C for feeding pneumatic conveying systems,heated housing
- Optional water cooling system for all parts
- Suitable for differential pressure up to 1.0bar
- Materials of construction:stainless steel, titanium alloy
- Flange drillings available to PN10,ANSI 150lbs



Size	100	150	200	250	300	350	400	500
Ltr/rev*	2	5	10	20	40	78	110	168

* at 100% filling



粘附性粉末联动刮刀型

- 大流通截面，高填充率
- 适用于重力落料
- 适用压差 1.0bar
- 适用温度 250℃
- 本体材质：不锈钢，碳钢
- 适用于防爆区域 

SCRAPER VALVE FOR ADHESIVE POWDERS

- Large inlet for high capacities
- For metering gravity flow
- Suitable for differential pressure up to 1.0bar
- Temperature range: up to 250 °C
- Materials of construction: stainless steel or carbon steel
- Usable in Ex-zone



Custom-made



20 ROTOR OPTIONS 转子形式

计量转子 D ●

对于有计量需求的卸料场合，如输送、造粒等，TECLION为所有系列旋转阀提供计量转子。

Dosing Rotors D

For even and controlled product flow through a rotary valve and into a conveying system, extruder or other processing machine, TECLION offers special dosing rotors for all rotary valve types.

X形转子 X ●

闭式，侧板带刃状棱条的X形转子，适用于纤维状或含有纤维的物料。

X-Rotor X

Closed end rotor with additional blades on both sides, it's often used for fibrous products.

其它配置

- 防粘涂层
- 耐磨涂层
- 绝缘涂层
- 镶密封板
- 锯齿
- 耐磨衬套
- 降噪设计
- V型转子
- 剪切木片型

浅底转子 S ●

对于流动性比较差的物料或者有减小容积要求的场合，可以选择浅底转子。

Shallow Pocket Rotors S

To improve discharge performance for adhesive and sticky pellets and powders, or for reducing product volume, the use of a shallow pocket rotor is recommended.

刃状转子 V ●

对于粉末物料，可降低摩擦面。

Beveled vane lips V

For powders conveying and discharge to reduce friction between the housing and the rotor tips.

硬化转子 W ●

对于有磨损性的物料，矿物粉等，TECLION可为全系列旋转阀提供硬化处理过的转子。

P-Rotor W

Wear protected rotor for abrasive products. Tungsten carbide welded on tip ends of rotor blades and end blades. This ensure a long service life of the rotor.

Options and accessories

- Anti-sticking coating
- Wear-resistant coating
- Insulating coating
- Flexible plates
- Sawtooth
- Wear resistant liner
- Noise reduction design
- V sharp rotor
- Cut chip

刮刀片转子 B ●

对于有粘附性的物料，在转子侧边和顶端镶有刃状刀片，可防止产生塑化层，并可降噪。

Scraper Blades B

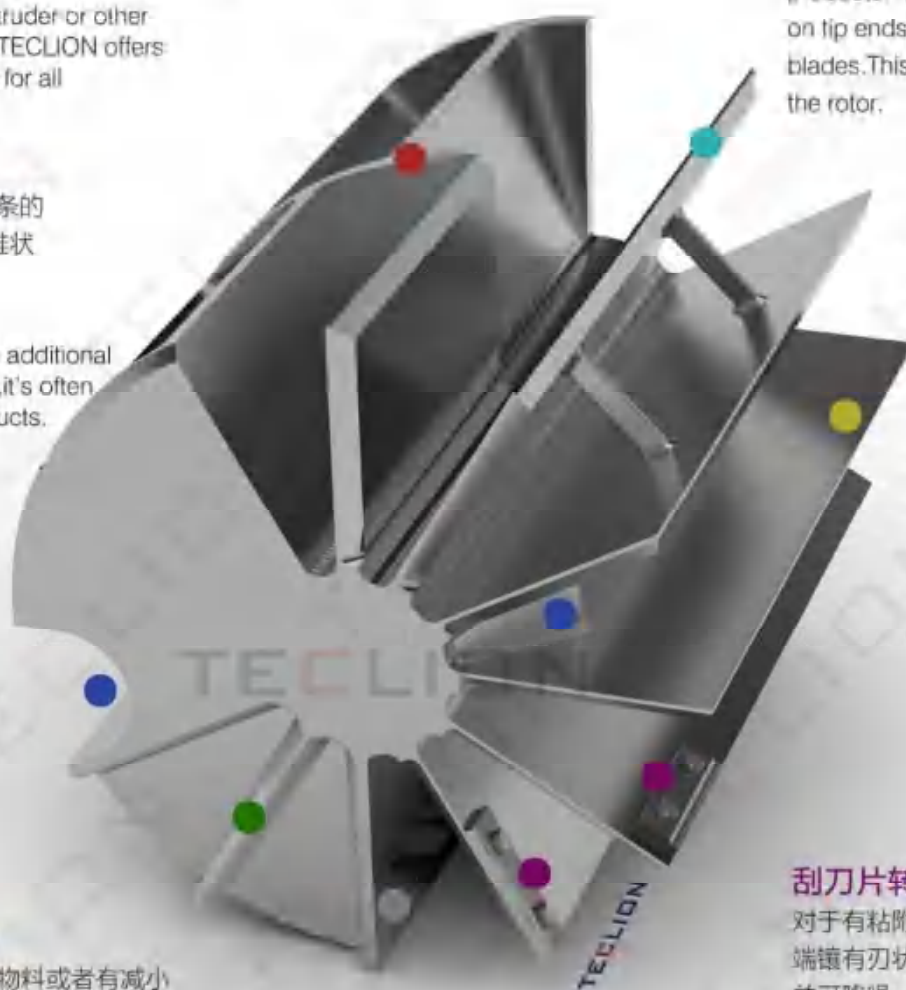
Overlapping blades at side and circumference, applied for adhesive and sticky products, for scraping off product layers in the housing bore, it also can reduce torque and operating noise.

抛光转子 P ●

对于特殊粉末、食品和医药，转子表面抛光至Ra 0.2 μm (若需要)。

Polished rotor P

Polished surface Ra 0.2 μm (if you need) for powders, food and pharmaceutical applications.



排气料斗

- 固气分离
 - _ 胆式锥形料斗利用旋风分离原理，实现高效固气分离。
 - _ 料斗排气口可以直接接入集中除尘系统。
 - _ 可降低返气对上游计量系统的影响。
- 逃气收集
 - _ 紧凑的套筒设计可以有效的实现固气分离。
 - _ 可以提高旋转阀卸料的效率。

Leakage Gas Separator & Collector

- Solid-gas separator
 - _ Conical hopper for effective separation of the product from the leakage gas stream at pre-dosed operation of the rotary valve
 - _ Allows discharging of leakage gas directly into a central de-dusting system
 - _ To depressurise the upstream metering system
- Escape gas collector
 - _ Compact design for effective venting of the leakage gas for rotary valves for powders
 - _ Allows high conveying capacity

气封系统

- 对于含有粉末的介质，高品质的气封配件和优化的气封结构可以有效降低旋转阀的维护频次。
- 标配过滤调压阀，可选配件：流量计、电磁阀
- 高品质密封组件，耐用。
- 全不锈钢管件。
- 高压旋转阀标配带有专利气控组件。

Gas Purge System

- Gas purged labyrinth ring to protect the shaft seal at powder applications With filter pressure reducing valve and optional flowmeter or solenoid valve
- Durable high quality sealing components
- All stainless steel pipe fittings
- High pressure rotary valve standard with patented air control components

料靴

- 对应不同输送形态的料靴形式，可选文丘里式喷射器
- 优化结构以降低压力损失。

Feeding Shoe

- For dilute or dense phase conveying
- Design optimised for lower pressure drop
- Various connecting nominal diameters available for each size



22 Rotary Valves Accessories 旋转阀附件

测速系统

- 采用高品质电感式开关。
- 标配2线制，可选3线制，开关或模拟信号输出。
- 标配铝合金护罩。
- 标配可视玻璃窗口。
- 可选辅助精确计量。

Speed sensor System

- Adopt high quality inductive switch
- Standard 2-wire system, optional 3-wire system, switch or analog signal output
- Standard aluminum alloy cover
- Standard visual glass window
- Optional auxiliary precise metering



转子保护系统

- 金属异物掉入或转子与壳体接触瞬间，输出停机信号进而避免造成金属破坏性刮擦和污染介质。

Rotor Protection System

- Detection systems are required to stop a rotary valve instantly if it detects rotor to housing contact, avoiding valve damage and subsequent product contamination.



伴热系统

应对高温差以及-50°C极寒温度环境,减少漏气量

- 电伴热。标配防火保温套件。自动恒温系统。金属保护外壳。
- 50°C标配整机防冻系统
- 夹套式蒸汽伴热。

Heated housing

Cope with high temperature difference or -50°C extreme cold temperature environment Minimises leakage gas rates

- Electrical heat-tracing
- Standard fireproof insulation, automatic thermostatic system, metal protective cover. -50°C standard with the whole machine anti-freezing system.
- Jacketed steam tracing



链条传动系统

- 全包围防护罩，杜绝粉尘。
- 减速机背包式安装，节省空间，便于调节链条张度。
- 更改链轮齿数比可以调节转子转速。

Chain drive

- Full protective cover, dust proof
- Side-mounted drive with chain overdrive, easy to adjust the chain tension
- Subsequent speed adjustment possible by exchange of chain sprocket



驱动直连

- 结构紧凑，拆装快捷
- 免传动维护，卫生环境首选
- 运转顺滑，更静音

Direct drive

- Compact, easy to assemble drive
- Grease-free maintenance, therefore sanitary
- Smooth, quiet operation

耐磨处理

对于磨损性较高的物料，根据使用工况做相应的耐磨处理，尤其气力输送时。

- 转子叶轮
 - _ 闭式叶轮。
 - _ 耐磨轴套
 - _ 顶端堆焊硬化。
 - _ 与物料接触部位喷涂硬化，如碳化钨、陶瓷等。
 - _ 叶片采用耐磨钢板。
- 壳体和端盖
 - _ 与物料接触部位喷涂硬化，如碳化钨、陶瓷等。
 - _ 内衬陶瓷。

Wear protection

Wear resistant materials-adjusted to your application, particularly for applications within pneumatic conveying systems

- Rotor
 - _ Closed end rotor with massive end plates
 - _ Wear-resistant sleeve
 - _ Tungsten carbide welded on tip ends of rotor blades and end blades.
 - _ Tungsten carbide hardening by high velocity oxy-fuel in contact with the material
 - _ HARDOX for rotor blade
- Housing & cover
 - _ Tungsten carbide hardening by high velocity oxy-fuel in contact with the material
 - _ Ceramic reinforcement by seamless lining with fitted solid ceramic at the housing for technically highest possible wear protection



24 Rotary Valves Accessories 旋转阀附件

快拆结构 (RDC形式以外的)

- 无导轨单侧快拆, 尾端阀盖和叶轮可以同时取下。
- 单开门式, 根据工况可选叶轮单点支撑或双点支撑。
- 导轨开门式, 叶轮可以单独取下。

Quick disassembling

- Single side quick cleaning coupling at the rotor shaft on drive side, side cover and rotor can be extracted easily as unit from housing.
- Single-side hinge device, rotor shaft single point support or double point support can be selected according to the working condition.
- Double-side hinge device



输送站

- 密相输送和稀相输送两个系列。
- 密相输送站选配ACU (第25页), 进一步掌控管道内固气比。
- 全套输送站, 包含旋转阀及其配件, 料靴, 排气料斗, 支架。
- 对于多点并联输送, 加配密封型刀闸阀或蝶阀以减少压损。
- 可选移动式输送站。

Feeding Stations

- For dilute or dense phase conveying
- ACU (page 39) for dense phase feeding stations to further control the solid gas ratio
- Complete feeding station, supplied with rotary valve, feeding shoe and support stand, fully assembled
- For conveying line with multiple pick-up points, it is necessary to seal the conveyor station that is being used with a butterfly valve or sealing gate valve
- Optional mobile feeding stations



流量控制组

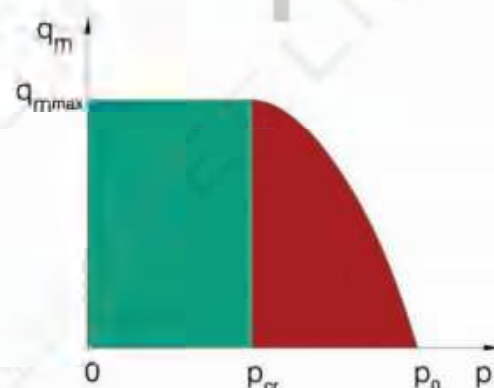
- 用于气力输送管线前端，连接空气压缩机控制并稳定流量
- 拉瓦尔喷管原理，流量可调
- 智能型标配压力和温度监测，并内置一键清管和自动清堵功能
- 与总控友好对接，可实现多数据实时监控
- 优化的流量算法，缩减信号处理周期，动作响应更快



- 配合输送站（第24页），可以实现固气比调节
- 满足调试和全自动运行模式
- 多种规格选择，适用于不同风量的输送管道
- 流量稳定，允许管道输送压力在一定范围内波动
- 配合科狮机械TECLION，RGH系列（第17页）旋转阀可实现进一步节能

AIR CONTROL UNIT

- With a continuously variable air volume for pneumatic conveying systems of different lengths and capacities
 - Laval nozzle with variable effective cross section due to adjustable conical needle
- The intelligent model comes standard with pressure and temperature monitoring and built-in one-click pigging and automatic plugging removal
- Optimized flow algorithm, reduced signal processing cycle, faster action response
 - Cooperate with feeding station (page 24) to adjust solid-gas ratio
 - With debugging and fully automatic operation mode
 - Provide multiple sizes, suitable for different air volume of the pipeline
 - Flow rate is stable, allowing the pipeline conveying pressure to fluctuate within a certain range
 - Cooperate with high pressure rotary valve to further realize energy saving



26 Test 测试和试验

漏气量&耗气量测试

- 可获得更精准的漏气量和耗气量数值。
- 便于风机选型。

Leakage & consumption test

- More accurate air leakage and consumption values are obtained.
- Easy blower selection.



冷冻试验

- 测试极限低温环境下设备运转稳定性。
- 测试保温和加热系统。
- 冷冻极限可达-60°C。

Freezing test

- Test equipment operating stability under extreme low temperature environment.
- Test insulation and heating systems.
- Freezing limit temperature -60°C.

物料测试

- 载荷稳定性测试。
 - 破碎率测试。*
 - 解决特殊物料在锁气工况下旋转阀卸料难题。
- 诸如：超薄聚酯碎片、PBAT、氧化硅烧结球等，尼龙颗粒为代表的规则塑料粒子已被科狮技术全部纳为普通介质。

Condition medium test

- Load stability test.
 - Breakage rate test.
 - Solve the problem of unloading special materials by rotary valve under locked air condition.
- Such as: ultra-thin polyester chips, PBAT, silicon oxide sintering ball and so on. The regular plastic granular represented by nylon have been fully incorporated into ordinary media by TECLION technology.

* 科狮机械RG系列旋转阀，以其优秀的防剪切构造，卸料过程中颗粒破碎率大大降低。

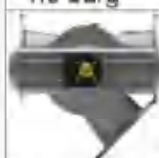
* TECLION RG series rotary valve, with its excellent anti-chopping structure, breakage rate is greatly reduced in the unloading process.



旋转阀用户参数表格 Bulk Solid Data					
数量 (台) /Qty				位号/Item No.	
输送方式/Method of transport		☐ 重力流/Gravity ☐ 气力流/Pneumatic Conveying			
设计数据/Design Parameters					
介质特性 Material	介质名称 Material handled			颗粒尺寸 Size distribution	
	休止角 (°) Repose Angle			堆积密度 (Kg/m3) Bulk Density	
	流动性 Flowability	☐ 好 Free ☐ 差 Poor		粘附性 Adhesive	☐ 有 Yes ☐ 无 No
	磨蚀性 Abrasive	☐ 有 Yes ☐ 无 No		腐蚀性 Corrosive	☐ 有 Yes ☐ 无 No
工艺参数 Technical Parameter	输送能力 (T/h) Capacity				
	设计压力 (bar) Design Pressure			工作压力(bar) (上下法兰压力情况) Working Pressure	
	设计温度 (°C) Design temperature			工作温度 (°C) Working temperature	
	法兰标准 Flange Standard			法兰形式 Flange Type	☐ RF ☐ OFF
	安装位置 Location	☐ 室内 Indoor	☐ 室外 Outdoor	操作类型 Duty	☐ 连续 Continuous ☐ 其它 Other
	区域特性 Area Classification	防爆要求/Anti-explosion			
		防护等级/Ex-proof			
产品数据 Products Data	阀体材质/Body Material		转子材质/Rotor Material		
	法兰口径/Inlet&Outlet Dimension				
备注/Note:					
1. 请尽量填写完整上述表格, 以便我司准确选型。 Please fill out the above table completely.					
2. 如上表中的内容不全, 烦请详细写出贵司技术要求, 以便我司选型和报价。 Other technical requirements, please write it to TECLION.					
✉ wj@tec-lion.com					

28 Diverter valves 换向阀

We provide more customized service products 接受产品定制。

DK	DT	DV	DB	DP	DM	DW	DDV	DF
Powders and granular products 粉末和颗粒物料								
1.5 barg	1.5 barg	1.5 barg	6.0 barg	6.0 barg	1.0 barg	1.5 barg	ATM	ATM
								
DH	DZ	DU	TYPE CODE FOR DIVERTER VALVES 型号说明					
3.5 barg	5.0 barg	5.0 barg						
								
DRT								
1.5 barg								
								

DB K 150 - P - S

Materials 材质

Driving form 驱动形式

Size 口径规格

Angle 分向角度

Valve type 阀门形式



TYPE CODE FOR DIVERTER VALVES 型号说明

DB K 150 - P - S



Materials 材质
Driving form 驱动形式
Size 口径规格
Angle 分向角度
Valve type 阀门形式

Angle 分向角度

- 

K 式
非对称 45°（推荐角度）夹角设计，适用于气力输送或重力落料，切换物料流向。
Asymmetric design with 45° angle suitable for distributing and collecting in pneumatic conveying lines and in gravity pipes.
- 

T 式
直角 90°，适用于气力输送料仓顶部罐装。
Rectangular design with 90° angle for pneumatic conveying.
- 

V 式
对称夹角 60° 适用于气力输送或重力落料分向。
Symmetric design with 60° angle for gravity lines.



TECLION Diverter Valves come with more than 20 years of independent development, precision manufacturing and practical experience. 科狮机械TECLION 有着20年的换向阀设计、制造及解决用户现场设备问题的经验。



气力输送用换向阀

- 精铸外壳，造型美观
- 进出料口圆滑过渡，通道内畅通无起伏
- 密封可靠，通道结构考虑压损
- 免维护的可靠执行器
- 流向指示简洁明了
- 外部无可造成危险的运动部件
- 标准化设计，降低维护成本
- 专业适用于电池行业



DIVERTER VALVES FOR PNEUMATIC CONVEYING

- Shell precision casting and attractive appearance
- Smooth and gap-free transition due to patented design of inlet, outlet
- Reliable sealing, loss of pressure is considered and optimized
- Maintenance-free actuator ensures high reliability
- Easily visible rotary plug mechanical direction indicator
- No additional safety device necessary as there are no moving parts outside the valve
- Standardized design, reduce maintenance costs
- Professional valve for battery

DIVERTER VALVES FOR GRAVITY FLOW

- Traditional diverter valves require material flow to be shut off before redirecting the material often requiring an additional knife gate above the valve.

We solved the problem, so if you select DDV or DW series, you can divert the valve on a stream of material (when required).

可带料切换换向阀

- 传统的换向阀不可以带料切换，切换前需要保证管道中物料已经被吹扫干净。针对这个问题，TECLION推出了DW和DDV两种可带料切换的换向阀，其中DDV系列用于重力落料，DW系列可用于气力输送。
- 科狮独有的DDV双刀系列，属于双刀系列换向升级产品，内部无死角，不串料，可以替换一台刀闸阀和一台摆动板换向阀。





粉末或颗粒单通道柱塞式

- 夹角45°阀芯密封
- 通道平滑无起伏, 无死角
- 流向指示简洁明了
- 适用温度 -20 to +120°C
- 适用压力 1.5barg
- 本体材质: 不锈钢、碳钢
- 法兰压力等级 PN10, ANSI 150lbs
- 可用于重力落料和稀相输送管线任意位置
- 适用于防爆区域

SINGLE CHANNEL DIVERTER VALVE FOR POWDERS AND GRANULAR PRODUCTS

- With sealed rotor and 45° outlet
- Smooth and gap-free transition due to patented design of inlet, outlet
- Easily visible rotary plug mechanical direction indicator
- Product temperature range from -20 to +120°C
- Suitable for dilute phase pressure up to 1.5barg
- Materials of construction: stainless steel or carbon steel
- Flange drillings available to PN10, ANSI 150lbs
- Suitable for gravity and dilute phase conveying
- Usable in Ex-zone

直通 Straight through



旁通 Diverted



★ 剖面图仅展示通道流向
Section shows only the direction of the passage



Size	50	65	80	100	125	150	200	250	300	350	400
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粉末或颗粒单通道柱塞式

- 夹角90°阀芯密封
- 通道平滑无起伏，无死角
- 流向指示简洁明了
- 适用温度 -20 to +120°C
- 适用压力 1.5barg
- 本体材质：不锈钢、碳钢
- 法兰压力等级 PN10,ANSI 150lbs
- 可用于稀相输送管线任意位置
- 适用于防爆区域

SINGLE CHANNEL DIVERTER VALVE FOR POWDERS AND GRANULAR PRODUCTS

- With sealed rotor and 90° outlet
- Smooth and gap-free transition due to patented design of inlet,outlet
- Easily visible rotary plug mechanical direction indicator
- Product temperature range from -20 to +120°C
- Suitable for dilute phase pressure up to 1.5barg
- Materials of construction:stainless steel or carbon steel
- Flange drillings available to PN10,ANSI 150lbs
- Suitable for gravity and dilute phase conveying
- Usable in Ex-zone

直通 Straight through



旁通 Diverted



★ 剖面图仅展示通道流向
Section shows only the direction of the passage



Size	50	65	80	100	125	150	200	250	300	350	400
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粉末或颗粒单通道柱塞式

- 夹角60°阀芯密封
- 通道平滑无起伏, 无死角
- 流向指示简洁明了
- 适用温度 -20 to +120°C
- 适用压力 1.5barg
- 本体材质: 不锈钢、碳钢
- 法兰压力等级 PN10, ANSI 150lbs
- 可用于重力落料和稀相输送管线任意位置
- 适用于防爆区域

SINGLE CHANNEL DIVERTER VALVE FOR POWDERS AND GRANULAR PRODUCTS

- With sealed rotor and 60° outlet
- Smooth and gap-free transition due to patented design of inlet, outlet
- Easily visible rotary plug mechanical direction indicator
- Product temperature range from -20 to +120°C
- Suitable for dilute phase pressure up to 1.5barg
- Materials of construction: stainless steel or carbon steel
- Flange drillings available to PN10, ANSI 150lbs
- Suitable for gravity and dilute phase conveying
- Usable in Ex-zone

左通 Diverted left



右通 Diverted right



* 剖面图仅展示通道流向
Section shows only the direction of the passage



Size	50	65	80	100	125	150	200	250	300	350	400
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粉末或颗粒单通道柱塞式

- 夹角45°/90°阀芯密封
- 通道平滑无起伏，无死角
- 流向指示简洁明了
- 适用温度 -20 to +120°C
- 适用压力 3.5barg
- 本体材质：不锈钢、碳钢
- 法兰压力等级 PN10,ANSI 150lbs
- 可用于密相输送管线任意位置（颗粒）
- 适用于防爆区域

SINGLE CHANNEL DIVERTER VALVE FOR POWDERS AND GRANULAR PRODUCTS

- With sealed rotor and 45°/90° outlet
- Smooth and gap-free transition due to patented design of inlet,outlet
- Easily visible rotary plug mechanical direction indicator
- Product temperature range from -20 to +120°C
- Suitable for dilute phase pressure up to 3.5barg
- Materials of construction:stainless steel or carbon steel
- Flange drillings available to PN10,ANSI 150lbs
- Suitable for dense phase conveying
- Usable in Ex-zone

直通 Straight through



旁通 Diverted



★ 剖面图仅展示通道流向
Section shows only the direction of the passage



Size	50	65	80	100	125	150	200	250	300	350	400
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粉末或颗粒双通道

- 双通道设计
- 通道全通径，无死角
- 流向指示简洁明了
- 适用温度 -20 to $+120^{\circ}\text{C}$
- 适用压力 5.0 barg
- 本体材质：铸铝+不锈钢
- 法兰压力等级 PN10, ANSI 150 lbs
- 可用于密相输送管线任意位置
- 适用于防爆区域

DUAL CHANNEL DIVERTER VALVE FOR POWDERS AND GRANULAR PRODUCTS

- Two channel full bore pipeline design
- In cylindrical design with pressure assisted seals
- Smooth and gap-free transition due to patented design of inlet, outlet
- Easily visible rotary plug mechanical direction indicator
- Product temperature range from -20 to $+120^{\circ}\text{C}$
- Suitable for dilute phase pressure up to 5.0 barg
- Materials of construction: Cast aluminium with stainless steel pipe insert
- Flange drillings available to PN10, ANSI 150 lbs
- Suitable for dense phase conveying
- Usable in Ex-zone

直通 Straight through



旁通 Diverted



★ 剖面图仅展示通道流向
Section shows only the direction of the passage



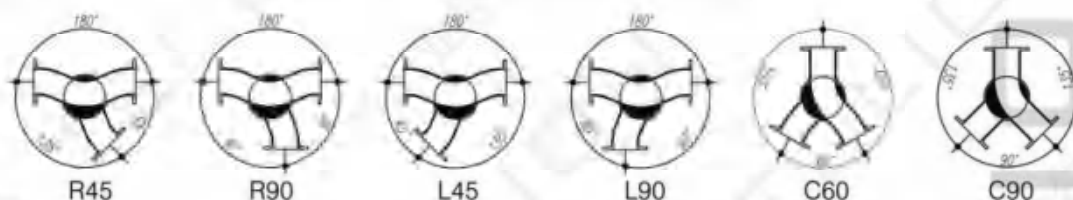
Size	50	65	80	100	125	150	200	250
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粉末或颗粒单通道球式

- 三口密封
- 通道平滑无起伏，无死角
- 流向指示简洁明了
- 适用温度 -20 to +120°C
- 适用压力 6.0barg
- 本体材质：不锈钢、碳钢
- 法兰压力等级 PN10,ANSI 150lbs
- 可用于密相输送管线任意位置
- 适用于防爆区域

SINGLE CHANNEL BALL DIVERter VALVE FOR POWDERS AND GRANULAR PRODUCTS

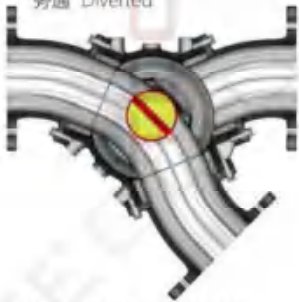
- Elastic sealing ring at each part
- Smooth and gap-free transition due to patented design of inlet,outlet
- Easily visible rotary plug mechanical direction indicator
- Product temperature range from -20 to +120°C
- Suitable for dilute phase pressure up to 6.0barg
- Materials of construction:stainless steel or carbon steel
- Flange drillings available to PN10,ANSI 150lbs
- Suitable for dense phase conveying
- Usable in Ex-zone



直通 Straight through



旁通 Diverted



* 剖面图仅展示通道流向
Section shows only the direction of the passage



Size	50	65	80	100	125	150	200	250	300
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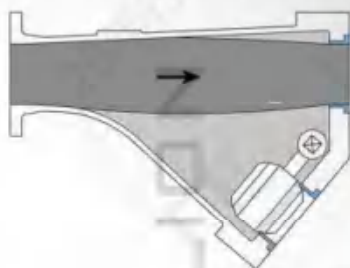
粉末或颗粒摆锤式

- 肘管耐磨原理，适用于高研磨性物料
- 流向指示简洁明了
- 可在线更换密封圈
- 适用温度 -50 to +250°C
- 适用压力 6.0 barg
- 本体材质：铸铁
- 法兰压力等级 PN10, ANSI 150lbs
- 可用于密相或稀相气力输送
- 适用于防爆区域

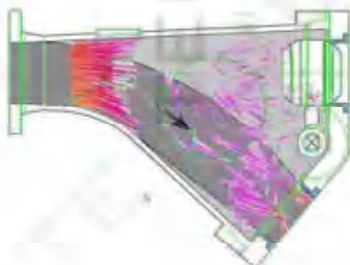
PENDULUM DIVERTER VALVE FOR POWDERS AND GRANULAR PRODUCTS

- Wear-protected diverter valve for abrasive products
- Easily visible rotary plug mechanical direction indicator
- Online maintenance
- Product temperature range from -50 to +250°C
- Suitable for dilute phase pressure up to 6.0 barg
- Materials of construction: cast iron
- Flange drillings available to PN10, ANSI 150lbs
- Suitable for dilute and dense phase conveying
- Usable in Ex-zone

• 直通位 Straight through



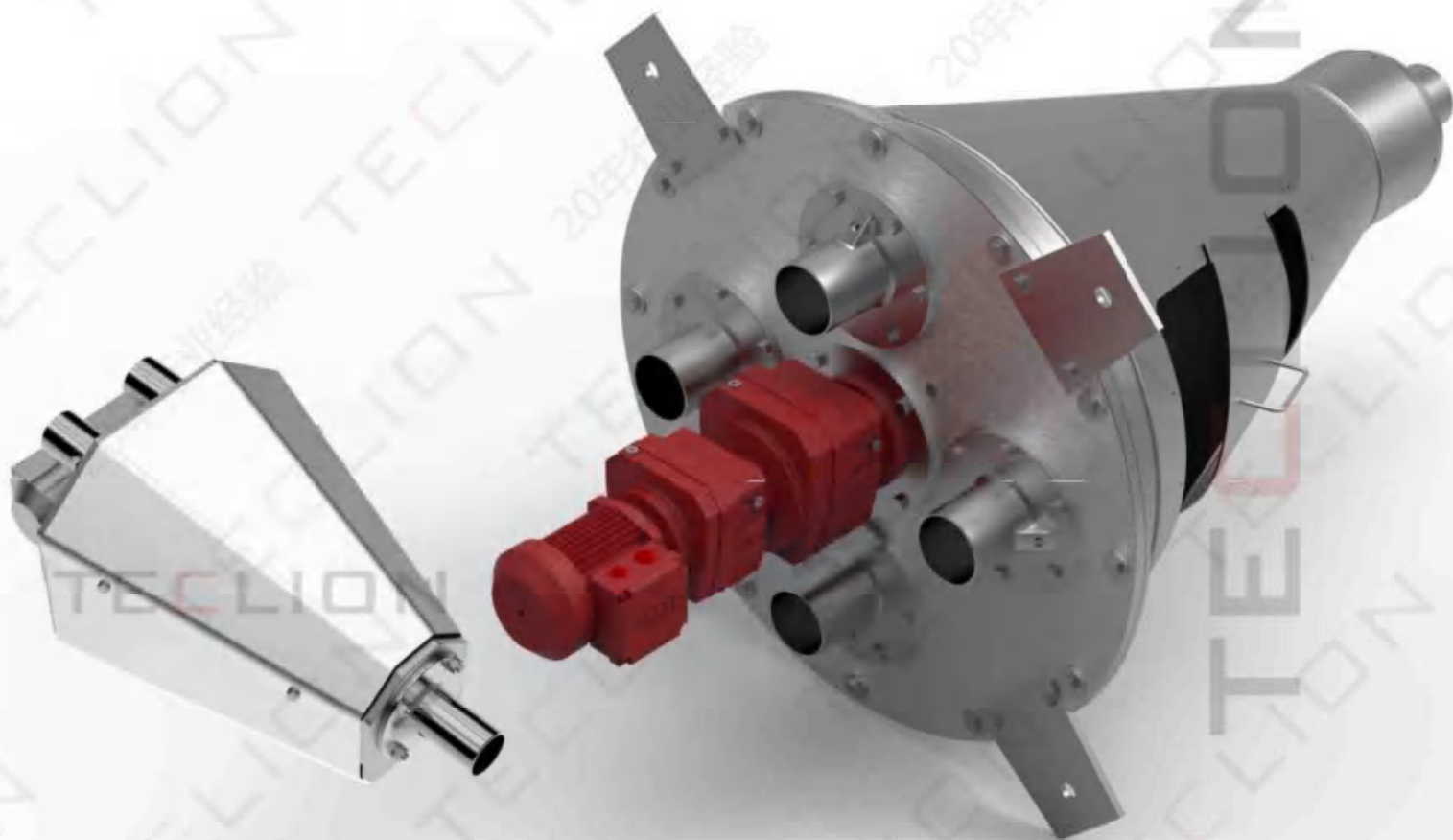
• 侧通位 Diverted



Size	50	65	80	100	125	150	200	250	300	350	400
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MULTI-WAY-DIVERTER VALVE FOR POWDERS
AND GRANULAR PRODUCTS

- Inflatable seals
- Product temperature range from -20 to +120°C
- For installation in conveying lines at up to 1,0 barg
- Materials of construction: stainless steel
- With rotary disc with up to 14 ports
- Usable in Ex-zone



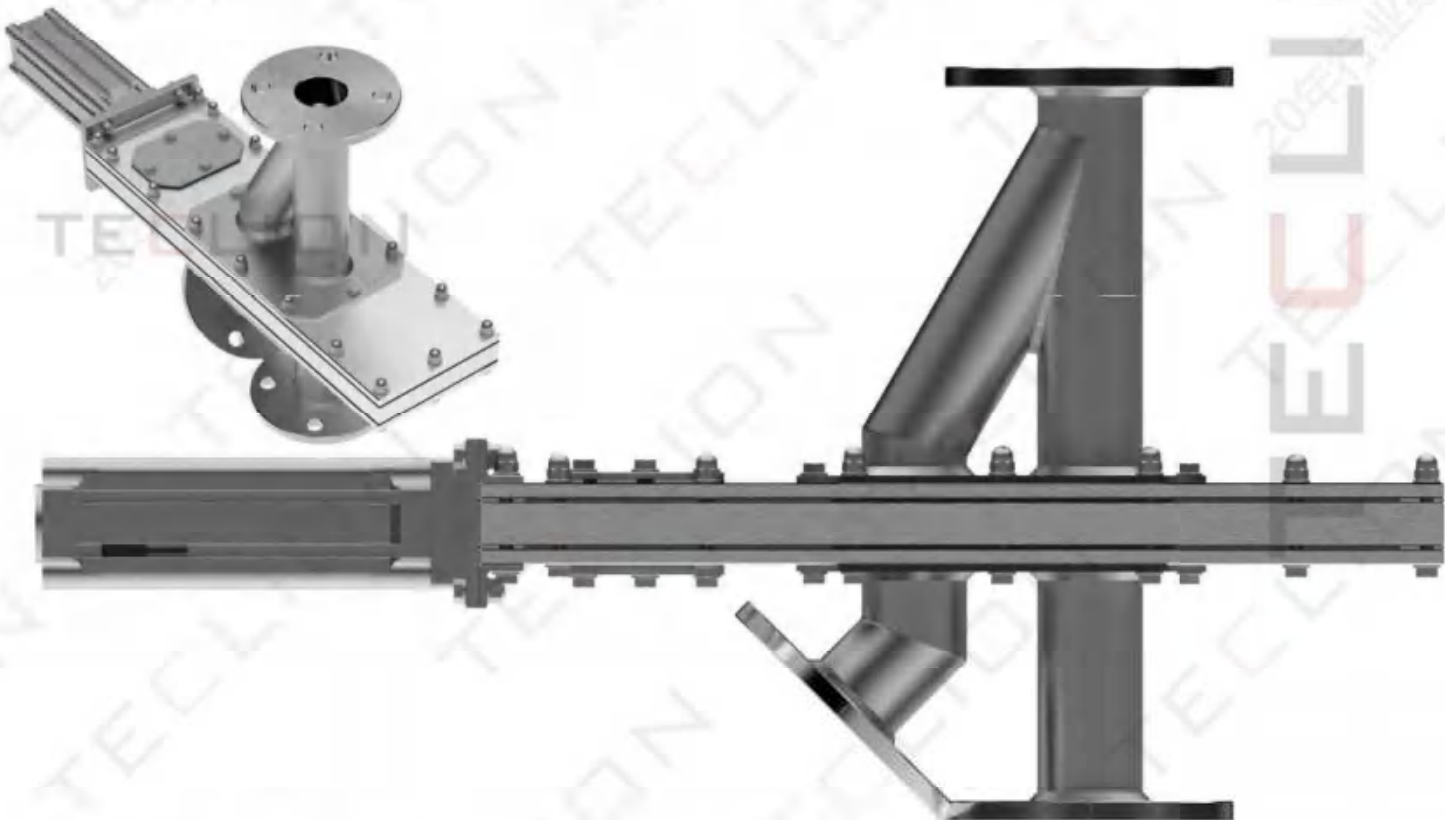
Size	40	50	65	80	100	125	150
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粉末或颗粒孔板式换向

- 高分子聚合物夹层式补偿
- 物料进出口畅通无阻碍
- 全通径设计
- 外部无可造成危险的运动部件
- 物料进出口可调换使用，换向或汇聚
- 可用于稀相气力输送或重力卸料
- 可水平或竖直安装
- 可选配2、3、4个出料口
- 充气式密封圈（可选）
- 可带料切换
- 本体材质：不锈钢
- 适用温度 -20 to +120℃
- 适用于防爆区域

WYE-LINE DIVERTER VALVE FOR POWDERS AND GRANULAR PRODUCTS

- Compensating hard polymer seals
- Unobstructed opening
- Full round pass-through design
- No additional safety device necessary as there are no moving parts outside
- Diverts or converges material flow
- Dilute phase pneumatic conveying (pressure or vacuum) or gravity flow
- Horizontal or vertical valve orientation
- Available in 2, 3, or 4-way configurations
- Serviceable while in-line
- Product temperature range from -20 to +120°C
- Materials of construction: stainless steel
- Usable in Ex-zone



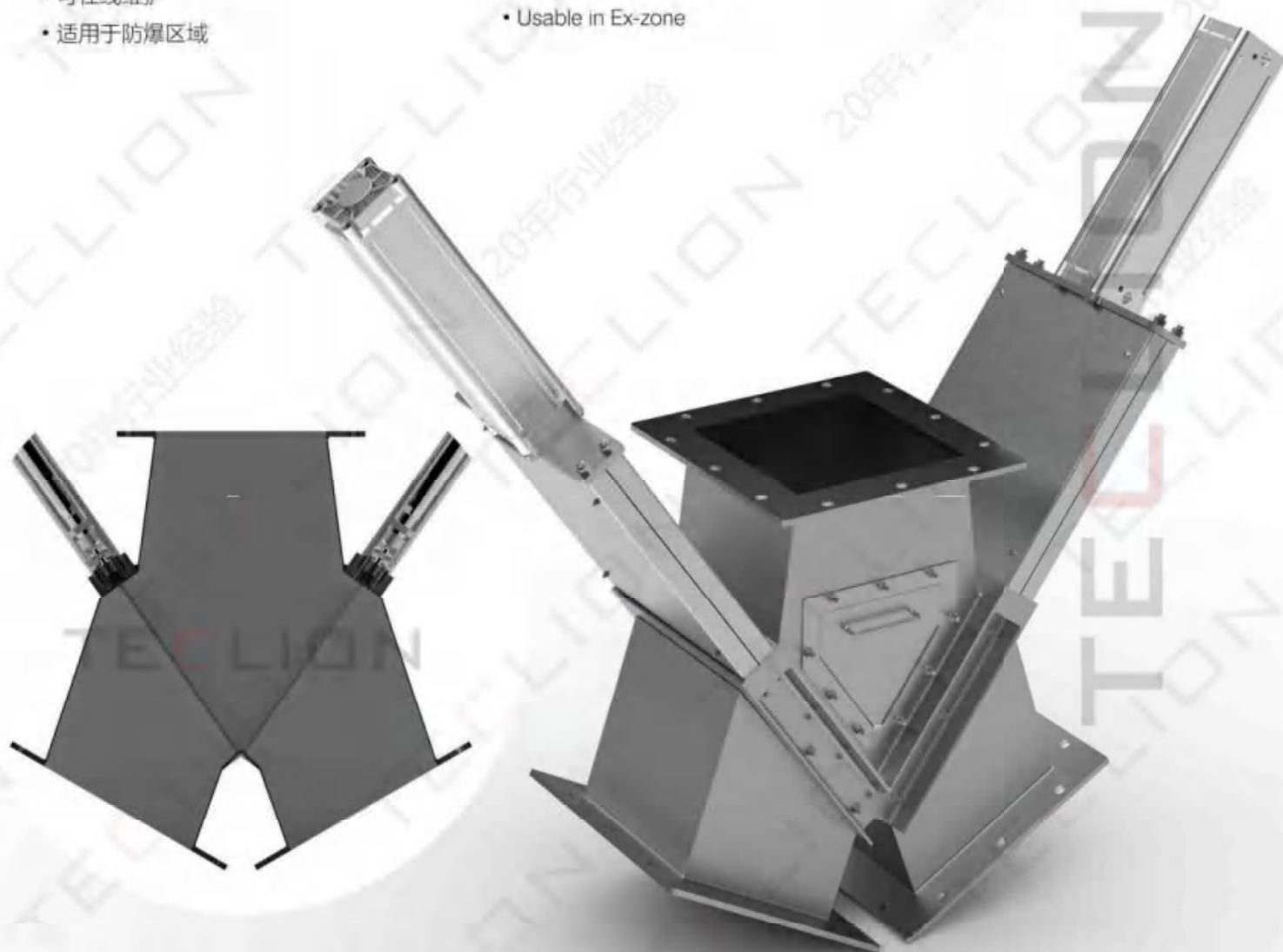
Size	50	65	80	100	125	150	200	250
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粉末或颗粒双刀换向

- 适用于重力卸料
- 两个出料口可以独立开关
- 适用温度 -20 to +120°C
- 本体材质: 不锈钢
- 可带料切换
- 无死角设计
- 可在线维护
- 适用于防爆区域

DOUBLE-KNIFE-DIVERTER VALVE FOR POWDERS AND GRANULAR PRODUCTS

- Gravity flow
- Shut off material flow in either or both directions.
- Product temperature range from -20 to +120°C
- Materials of construction: stainless steel
- Smooth without dead corners
- Serviceable while in-line
- Usable in Ex-zone



- 口径: DN100, DN150, DN200, DN250, DN300, DN350, DN400, DN450, DN500
或方口, 定制。

粉末或颗粒摆动板换向

- 低载荷，高性价比
- 出料口夹角60°或定制
- 适用于重力卸料，密封可靠
- 可带料切换
- 无死角设计
- 可在线维护
- 适用温度 -20~120℃
- 本体材质：不锈钢
- 适用于防爆区域
- 选配定位器

FLAP DIVERTER VALVE FOR POWDERS AND GRANULAR PRODUCTS

- Low duty, high cost performance
- 45°/60° outlet
- Suitable for gravity flow, reliable sealing
- Allow with material operation
- Smooth design of inlet, outlet
- Easily visible rotary plug mechanical direction indicator
- Product temperature range from -20 to +120℃
- Materials of construction: stainless steel or carbon steel
- Flange drillings available to PN10, ANSI 150lbs
- Usable in Ex-zone
- Valve positioner is optional

左通 Diverted left



右通 Diverted right



- 口径：DN100, DN150, DN200, DN250, DN300, DN350, DN400, DN450, DN500
或方口，定制。

粉末或颗粒柱塞式换向呼吸阀

- 换向和呼吸一体阀(料仓顶部)
- 夹角90°阀芯密封
- 通道平滑无起伏, 无死角
- 流向指示简洁明了
- 适用温度: -20 to +120°C
- 适用压力: 1.5barg
- 本体材质: 不锈钢, 碳钢
- 法兰压力等级: PN10, ANSI 150lbs
- 适用于防爆区域

BREATHER DIVERTER VALVE FOR POWDERS AND GRANULAR PRODUCTS

- Only one valve for both diverter and venting
- With sealed rotor and 90° outlet
- Smooth and gap-free transition due to patented design of inlet, outlet
- Easily visible rotary plug mechanical direction indicator
- Product temperature range from -20 to +120°C
- Suitable for dilute phase pressure up to 1.5barg
- Materials of construction: stainless steel or carbon steel
- Flange drillings available to PN10, ANSI 150lbs
- Suitable for dilute phase or dense phase conveying end
- Usable in Ex-zone

直通 Straight through



旁通 Diverted



* 剖面图仅展示通道流向
Section shows only the direction of the passage



Size	50	65	80	100	125	150	200	250
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粉末或颗粒柱塞式全通路

- 夹角45°阀芯密封
- 通道全通路，无死角
- 流向指示简洁明了
- 适用温度 -20 to +120°C
- 适用压力 5.0 barg
- 本体材质：塑料、不锈钢
- 法兰压力等级 PN10, ANSI 150lbs
- 可用于密相输送管线任意位置
- 适用于防爆区域

SINGLE CHANNEL DIVERTER VALVE FOR POWDERS AND GRANULAR PRODUCTS

- With sealed rotor and 45° outlet
- In cylindrical design with pressure assisted seals
- Smooth and gap-free transition due to patented design of inlet, outlet
- Easily visible rotary plug mechanical direction indicator
- Product temperature range from -20 to +120°C
- Suitable for dilute phase pressure up to 5.0 barg
- Materials of construction: plastic, stainless steel
- Flange drillings available to PN10, ANSI 150lbs
- Suitable for dense phase conveying
- Usable in Ex-zone

直通 Straight through



旁通 Diverted



★ 剖面图仅展示通道流向

Section shows only the direction of the passage



Size	50	65	80	100	125	150	200	250
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气动三通换向阀安装方位辨别

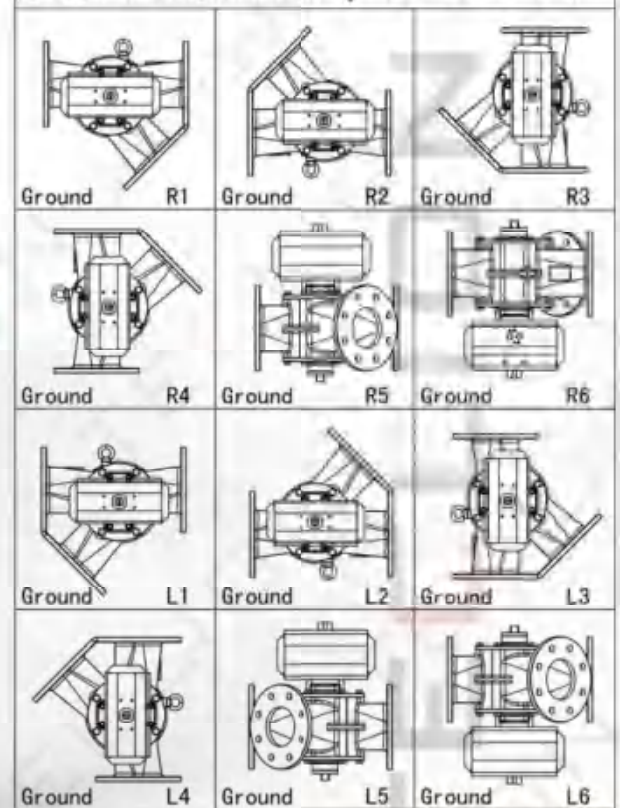
- R和L分别代表右向和左向。从气缸位置看去，旁通在直通顺时针方向为右向，反之左向。
- 气缸安装方位影响过滤调压阀排水口朝向，订单形成后需及时告知科狮。

Cylinder drive diverter valve installation orientation identification

- From the cylinder position, the clockwise direction of the by-pass in the straight through position is R, and the reverse direction is L.
- Cylinder installation affects the direction of filter regulator drain. After the order is formed, please inform TECLION in time.



Select the location of the cylinder and mark it.



44 刀闸阀 GATE VALVES

GW	GWH	GFL	GOL	GRL
粉末和颗粒物料				
1.5 barg	3.5 barg	ATM	ATM	1.0 barg
				

TYPE CODE FOR GATE VALVES 型号说明

GWH

250

-

P

-

S

Materials 材质

Driving form 驱动形式

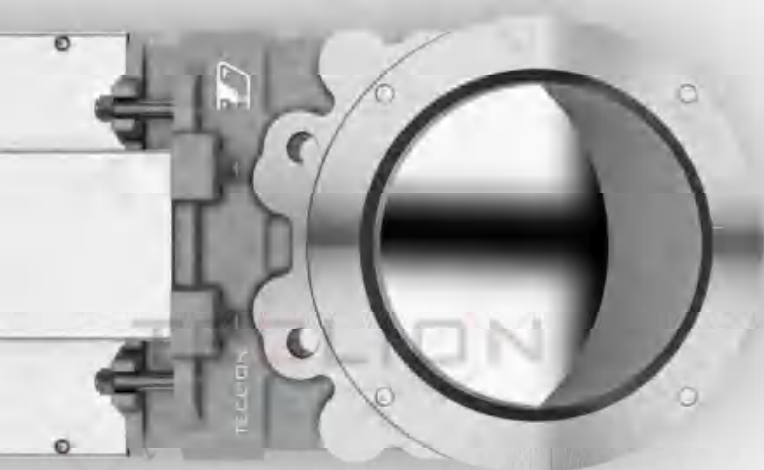
Size 口径规格

Sealing type 密封样式

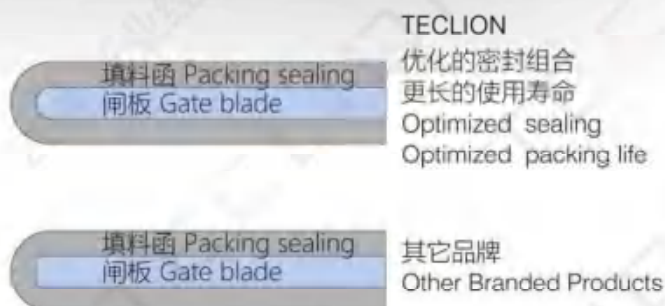
Valve type 阀门形式



TECLION Gate Valves come with more than 20 years of independent development, precision manufacturing and practical experience.
科狮机械TECLION 有着20年的刀闸阀设计、制造及解决用户现场设备问题的经验。



- 精铸外壳，钣金防护
- 内、外密封件均可以很方便更换
- 免维护的可靠执行器
- 多种填料组合，使用寿命更长
- 闸板侧边大圆角倒角
- 标准化设计
- Shell precision casting, sheet metal protective
- Easy-to-change combined seal
- Maintenance-free actuator ensures high reliability
- Packing system ensures long-life seal
- Gate edge radius
- Standardized design



高品质填料组

- 阻止外漏
- 较小的摩擦阻力
- 保证闸板位置居中度更好
- 便于维护

High performance packing system

- Stop external leakage
- Minimize friction and actuator thrust required
- Ensure alignment of the gate
- Easy maintenance





粉末或颗粒对夹式

- 大通径设计
- 安装尺寸符合MSS 5P-81
- 适用温度 -20 to +120°C
- 适用压力 1.5barg(GW), 3.5barg(GWH)
- 本体材质 不锈钢, 碳钢
- 法兰压力等级 PN10, ANSI 150lbs
- 全包围铝合金护罩, 防尘
- 适用于防爆区域

WAFER VALVES FOR POWDERS AND GRANULAR PRODUCTS

- Large free cross section and sealed gate blade
- Installation dimensions meet the standard MSS SP-81
- Product temperature range from -20 to +120°C
- Suitable for dilute phase pressure up to 1.5barg(GW), 3.5barg(GWH)
- Materials of construction: stainless steel or carbon steel
- Flange drillings available to PN10, ANSI 150lbs
- Fully enclosed aluminum shield, dust proof
- Usable in Ex-zone



Size	100	150	200	250	300	350	400	500	600	700
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粉末或颗粒方法兰/孔板式

- 定制口径
- 四边镶嵌密封条
- 适用温度 -20 to +120°C
- 本体材质: 不锈钢
- GFL 驱动暗杆设计
- GFL 全包围铝合金防护罩
- GFL 凸轮式滚轮
- GOL 快拆设计
- 适用于防爆区域

SQUARE/WYE-LINE GATE VALVE FOR POWDERS AND GRANULAR PRODUCTS

- Custom size
- Seal on four sides
- Product temperature range from -20 to +120°C
- Materials of construction: stainless steel
- Non-rising stem(GFL)
- Fully enclosed aluminum shield, dust proof(GFL)
- Cam-type roller(GFL)
- Quick disassembling(GOL)
- Usable in Ex-zone



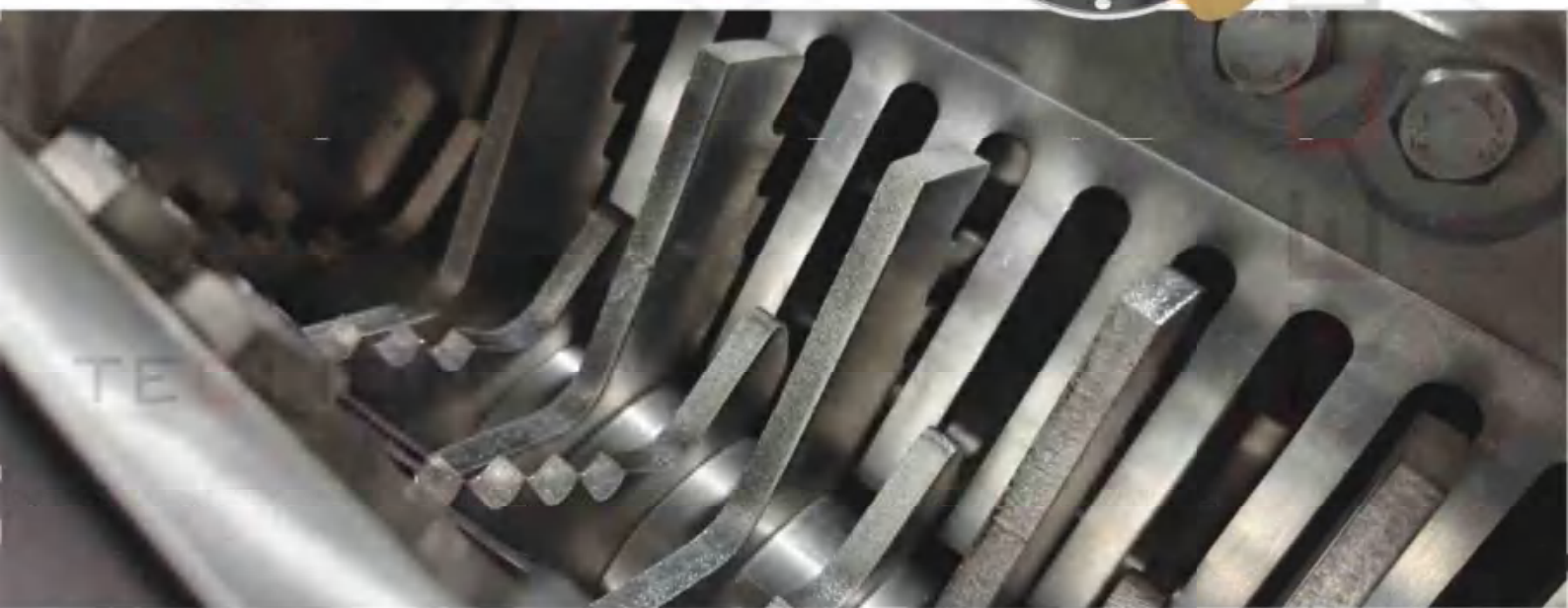
- 口径: DN100,DN150,DN200,DN250,DN300,DN350
或方口, 定制。

粉块打散破块标准型

- 低耗高效，打散速度快
- 可更换式锯齿叶轮，破碎率更高，均匀度更好
- 适用于所有粉块，有效破碎粒度0-10mm
- 适用压差 1.0bar
- 适用温度 250℃
- 本体材质：不锈钢、碳钢
- 法兰压力等级 PN10, ANSI 150lbs
- 可配轴气封装置
- 适用于防爆区域 

REGULAR LUMP BREAKER FOR POWDERS CHUNK

- Low consumption and high efficiency, fast breaking speed
- Replaceable sawtooth blade, higher crushing rate, better uniformity
- Suitable for all powder chunk, crushing size 0-10mm
- Suitable for differential pressure up to 1.0bar
- Temperature range: up to 250℃
- Materials of construction: stainless steel or carbon steel
- Flange drillings available to PN10, ANSI 150lbs
- Air purge seal
- Usable in Ex-zone



Size	150	200	250	300	350	400	500
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粉块打散破块筛网型

- 筛网规格1-25mm
- 可更换式锯齿桨轮和筛网机构，均匀度更好
- 标配双侧检修孔，便于清洁内部机构
- 桨叶和筛网间隙可调
- 适用压差 1.0bar
- 适用温度 250℃
- 本体材质：不锈钢、碳钢
- 标配方口法兰
- 可配轴气封装置
- 适用于防爆区域

LUMP BREAKER FOR POWDERS CHUNK

- Screen size 1-25mm
- Replaceable sawtooth blade and screen, better uniformity
- Large inspection access doors for easy and efficient cleaning
- Fully adjustable gap between rotor and paddles
- Suitable for differential pressure up to 1.0bar
- Temperature range: up to 250℃
- Materials of construction: stainless steel or carbon steel
- Square flange
- Air purge seal
- Usable in Ex-zone



• 口径：方口，定制。

Custom made

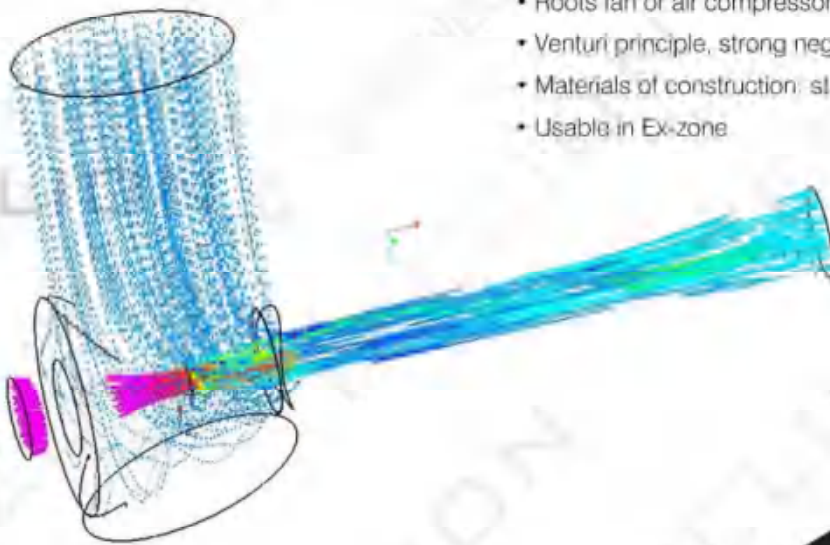


气力输送喷射器

- 基于全苏热工研究所理论和实验经验设计
- 简单可靠无旋转部件
- 罗茨风机和空气压缩机均可以作为动力来源
- 文丘里原理，负压强劲
- 材质不锈钢或碳钢
- 适用于防爆区域

VENTURI EDUCTOR

- Based on the theory and practical experience of soviet institute of thermal engineering
- No moving parts
- Roots fan or air compressor as the power source
- Venturi principle, strong negative pressure
- Materials of construction: stainless steel or carbon steel
- Usable in Ex-zone



特殊配置

- 可选混合室喷涂碳化钨
- 可选料斗和支架
- 可选抛光处理
- 可选环缝结构，适用于易吸潮结块物料

Options and accessories

- Sprayed tungsten carbide
- Hopper, bracket
- Polished finish
- Circular seam structure, suitable for moisture-absorbing agglomerate materials





科狮品质,为客户创造价值!
WE CREATE VALUE FOR OUR CUSTOMERS





20年行业经验

整合全球粉粒体输送设备技术
每年处理近百种固体物料

More than 20 years experience
Integrating global conveying components technology

合肥科狮机械科技有限公司

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