



>>>> 中控控制阀 SUPCON CONTROL VALVE
综合样本 GENERAL CATALOG

公司地址：浙江省杭州市滨江区六和路309号中控科技园

Company Address: SUPCON Science Park, No. 309 Liuhe Road,
Binjiang District, Hangzhou City, Zhejiang Province, China

工厂地址：浙江省杭州市富阳区高尔夫路209号中控产业园

Factory Address: SUPCON Industrial Park, No. 209 Golf Road,
Fuyang District, Hangzhou City, Zhejiang Province, China

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浙江中控流体技术有限公司
ZHEJIANG SUPCON FLUID TECHNOLOGY CO.,LTD.



Company 企业简介 Profile

浙江中控流体技术有限公司是中控集团旗下，集研发、生产、营销、服务于一体的专业智能控制阀制造商及流体控制方案提供商，致力于为化工、石化、医药等行业客户提供高品质的产品及全方位的技术服务。公司总部位于杭州钱塘江畔的中控科技园，工厂位于杭州富春江畔的中控产业园。

面向控制阀智能化，中控投资建设200余亩生产园区，打造控制阀智能工厂，一期已于2016年投入使用，以提高柔性生产交付能力和产品品质。公司已通过ISO9001、ISO14001、OHSAS18001、TS(A1级)、API607、ISO15848、SIL3、API6D、CE、中石化易派客产品质量评价、国家级高新技术企业等各项认证，并且具备完整的营销体系和服务机构，国内设有17个办事处，100多家化工园区5S店，海外设有4个办事处及多家合作伙伴，就近为客户提供各项服务。目前，公司控制阀年销量达40000多台(套)。

公司拥有一支现场经验丰富且实力雄厚的技术团队，除常规控制阀产品外，还致力于严苛复杂工况控制阀的研发，解决高压、腐蚀、闪蒸、冲刷、大压差等一系列技术难题，以加快我国控制阀国产化的进程。主导产品有直行程调节阀、O型球阀、偏心旋转阀、V形球阀、三偏心蝶阀、平板闸阀等。

铸剑为阀，中控臻品。我们始终坚信：只要坚持以客户为中心，为客户创造价值，坚持奋斗与创新，就一定能够成为您信赖的控制阀品牌。

Vision To become a world-class smart enterprise

Zhejiang SUPCON Fluid Technology Co.,Ltd,a subsidiary of SUPCON group is a professional intelligent control valve supplier with integration of R&D and manufacturing and marketing strategy and after-sales service. We also provide best solution of fluid control, high quality products and full-service to our customers in chemical industry ,petrifaction ,pharmaceuticals etc.

Our HQ locates in SUPCON Sci-Tech park near the Qiantang River. And our factory has been settled in our industrial park which near the Fuchun River.

SUPCON are engaging in building an intelligent plant which covered near 14ha floor space to improve delivering capacity and products quality.

We have passed these certifications as below, ISO9001, ISO14001, OHSAS18001, TS(A1), API607, ISO15848, SIL3, API6D, CE, Product Quality Evaluation Of SINOPEC EPEC, National High-tech Enterprise etc. With 17 offices in China,4 oversea offices and many partners all over the world, perfect marketing system and services are ready to provide best service for our customers. So far, the outsold of control valve is more than 40 thousand per year.

We have a professional technical team with sufficient on-site experience. Besides manufacturing, our team also devoted themselves to develop the application in severe working condition, aim to solve these complicated technical problems like high pressure, corrosion, erosion and flash issue. To stay in the lead position of Chinese valve technology.

Our main products are Globe Control Valve, O-type Ball Valve, Eccentric Rotary Valve, V-type ball control valve, triple off-set Butterfly Valve, Gate Valve, etc.

Best quality control valve is our everlasting goal, perfect service is our creed.





Company 企业文化 Culture

- **中控使命/Mission**

让工作与生活更轻松。
Make work and life easier.

- **中控价值观/Concept**

为客户创造价值，坚持奋斗与创新，敬业诚信，追求卓越。
To create value for customers, adhere to struggle and innovation, dedication and integrity, the pursuit of excellence.

- **中控流体公司目标/Company Objectives of SUPCON FLUID**

成为一流的智能控制阀及解决方案提供商。
To become a first-class intelligent control valve and solution provider.



起
航

Enterprise Qualification

企业资质

○ [企业荣誉] Company Honors



- 特种设备制造许可证
- 质量管理体系认证
- 环境管理体系认证
- 职业健康安全管理体系
- 法国BV功能安全等级SIL3认证
- TUV莱茵微泄漏量认证
- TUV莱茵防火认证
- 美国石油协会6D认证
- 测量管理体系认证
- 防爆合格证
- C E 认证
- 俄白哈海关联盟CU-TR认证
- 中石化易派客产品质量评价
- 中石油气动调节阀甲级供应商
- 中石化控制阀框架协议入围供应商
- TS
- ISO 9001-2015
- ISO 14001-2015
- OHSAS18001-2007
- BV SIL3
- ISO15848
- API607
- API 6D
- CMS AAA
- ATEX
- CE
- CU-TR (EAC)
- Product Quality Evaluation Of Cnpc Easy-pac
- Class A Supplier Of CNPC Pneumatic Control Valve
- Finalists Of Sinopec's Control Valve Framework Agreement



Comprehensive 综合实力 Abilities

研发能力/R & D Ability



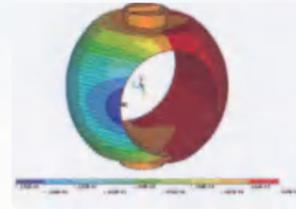
研发中心
R & D Center



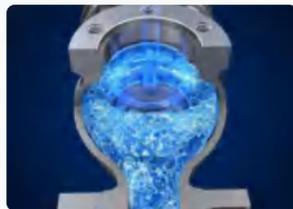
二维产品设计
2D Product Design



三维产品设计
3D Product Design



有限元分析
Finite Element Analysis



工况模拟
Working Conditions' Simulation



流量试验
Flow Testing



高温试验
Testing With High Temperature



寿命试验
Life-span Testing

生产制造能力/Manufacturing Ability



精密加工
Precision Machining



卧式加工中心
Horizontal Machining Center



MES 制造系统
MES Manufacturing System



超音速等离子喷涂
Supersonic Spraying



等离子喷焊
Plasma Spray Welding



全自动产品装配线
Automatic Assembly Line



自动化喷漆线
Automatic Painting Line



AGV仓库管理
AGV Inventory Management

检验试验能力/Inspection And Testing



材料光谱分析
Material Spectral Analysis



材料综合性能测试
Material Properties Testing



扭矩测试
Torque Testing



耐压测试
Pressure Testing



三坐标测量
Three Coordinates Measuring



防火测试
Fire test



残留物检测
Residue Determination

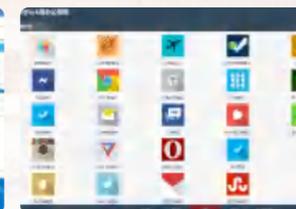


整机性能测试
Performance Testing

服务能力/Service Ability



控制阀选型软件
Control Valve's Selection Software



智能制造生产管理系统
Manufacturing Execution System



RFID 产品追溯软件
RFID Product Traceability Software



控制阀产品应用培训
Training for control valve applications



检验测绘
Surveying Inspection



现场检修
Maintenance on site



技术支持
Technical Support



备品备件仓库
Spare Parts Inventory

Quality 品质保证 Assurance



- 质量目标：整机一次交检合格率 $\geq 98\%$ ，顾客满意度 $\geq 95\%$
Quality objects: first-pass yield of whole machine $\geq 98\%$, customer satisfaction $\geq 95\%$.
Make work and life easier.
- 质量方针：质量第一、顾客满意；过程管控、持续改进
Quality policy: quality first, customer satisfaction, process control, continuous improvement.



Typical 典型业绩 Performance

石化行业/Petrochemical industry



- 中石化安庆分公司
- 中科(广东)炼化有限公司
- 中石油新疆油田分公司
- 中石油西南油气公司
- 中石油长庆油田分公司
- 中石油吐哈油田分公司
- 中石油塔里木油田分公司
- 中石油昆仑燃气有限公司西南分公司
- 中石化长岭分公司
- 中石化西北油田分公司
- 中海石油宁波大榭石化有限公司
- 中海油工业自控(天津)有限公司
- 宁波海越新材料有限公司
- 钦州天恒石化有限公司
- 山东东明石化集团有限公司
- 山东金诚重油化工有限公司
- 宁波金发新材料有限公司
- 宁波华泰盛富聚合材料有限公司
- 辽宁宝来生物能源有限公司
- 盘锦北方沥青燃料有限公司
- 辽宁亿方石油化工有限公司
- 新疆蓝星丝路石化有限公司
- 新疆超源化工有限公司
- 安徽中普石油能源有限公司
- 宁波科元塑胶有限公司

精细化工行业/Fine chemical industry



- 安徽广信农化股份有限公司
- 安徽八一化工股份有限公司
- 山东京博农化有限公司
- 浙江化工院科技有限公司
- 宁夏东吴农化有限公司
- 云南安一精细化工有限公司
- 安道麦股份有限公司
- 联化科技(台州)有限公司
- 联化科技(德州)有限公司
- 江苏联化科技有限公司
- 江苏长青农化股份有限公司
- 句容宁武新材料股份有限公司
- 江苏蓝色星球环保科技股份有限公司
- 南通雅本化学有限公司
- 新亚强硅化学股份有限公司
- 武汉有机实业有限公司
- 黄山新力油墨科技有限公司
- 浙江闰土股份有限公司
- 浙江新和成特种材料有限公司
- 常熟/中山巴德富科技有限公司
- 安徽丰乐农化有限责任公司
- 重庆聚润化工有限公司
- 铜陵嘉合科技有限公司
- 湖北省宏源药业科技股份有限公司
- 南通天洋新材料有限公司
- 浙江解氏新材料股份有限公司
- 江苏久吾高科技股份有限公司

煤化工行业/Coal chemical industry



- 中海石油富岛有限公司
- 杭州龙山化工有限公司
- 新疆天龙矿业股份有限公司
- 山西沃能化工科技有限公司
- 内蒙古和百泰能源有限公司
- 曲靖越聚化工有限公司
- 铜陵泰富特种材料有限公司
- 中科合肥煤气化技术有限公司
- 安阳化学工业集团有限公司
- 内蒙古久泰新材料有限公司
- 河南晋煤天庆煤化工有限责任公司
- 湖北晋煤金楚化肥有限责任公司
- 灵石中煤化工有限责任公司
- 内蒙古庆华集团庆华煤化工有限责任公司
- 山西潞宝集团晋钢兆丰煤化工有限公司
- 山西兰花煤化工有限责任公司
- 山西阳煤丰喜化工有限责任公司
- 山西襄矿泓通煤化工有限公司
- 四川金恒通化工有限公司
- 宁夏西泰煤化工有限公司
- 鹤岗证南煤化工有限公司
- 新疆天龙矿业股份有限公司
- 酒泉市浩海煤化有限公司
- 河南龙宇煤化工有限公司
- 铜陵泰富特种材料有限公司
- 七台河市吉伟甲醇有限责任公司

制药行业/Pharmaceutical industry



- 东北制药集团股份有限公司
- 山东国邦药业有限公司
- 山东省联合农药工业有限公司
- 山东鲁维制药有限公司
- 济宁中再生华惠医药科技有限公司
- 上饶京新药业有限公司
- 江西天新药业股份有限公司
- 黄石世星药业有限责任公司
- 浙江仙璐制药股份有限公司
- 浙江普洛康裕制药有限公司
- 浙江新和成药业有限公司
- 浙江国邦药业有限公司
- 上海中西三维药业有限公司
- 上海迪赛诺化学制药有限公司
- 上海现代制药海门有限公司
- 河北大鵬医药化工有限公司
- 河北广祥制药有限公司
- 滨海金海立医药化工有限公司
- 安徽圣达生物药业有限公司
- 精华制药股份有限公司
- 甘肃皓天医药科技有限责任公司
- 武汉武药制药有限公司富池分公司
- 湖北郡泰医药化工有限公司
- 湖北远大富驰医药化工股份有限公司
- 江苏诺泰澳赛诺生物制药股份有限公司
- 江苏润安制药有限公司

Typical 典型业绩 Performance

冶金行业/Metallurgical industry



- 江苏沙钢集团淮钢特钢股份有限公司
- 广西河池市南方有色金属集团有限公司
- 中冶焦耐(大连)工程技术有限公司
- 包头钢铁(集团)有限责任公司
- 渤海钢铁集团有限公司
- 襄汾县星原钢铁集团有限公司
- 宝钢集团新疆八一钢铁有限公司
- 云南铜业股份有限公司西南铜业分公司
- 北方铜业中条山冶炼厂
- 兰溪自立铜业有限公司
- 新疆宝明矿业有限公司
- 七台河市鲁龙矿业有限责任公司
- 陕西核工业二二四矿业发展有限公司潼关铝业分公司
- 安阳钢铁股份有限公司
- 青海北辰科技有限公司
- 孝义市兴安铝业有限公司
- 江苏利淮钢铁有限公司
- 贵州遵宝钛业有限公司
- 河北永洋特钢集团有限公司
- 内蒙古金山矿业有限公司
- 攀枝花钢铁企业欣宇化工有限公司
- 淄博齐林傅山钢铁有限公司
- 河北津西钢铁集团股份有限公司
- 金烨钢铁有限公司
- 山西新泰钢铁有限公司
- 马鞍山鼎宝阀门科技有限公司

电力行业/Electric power industry



- 海宁东山热电有限公司
- 山西顺发发电有限责任公司
- 淄博鑫胜热电有限公司
- 秦皇岛骊骅淀粉股份有限公司
- 潍坊华潍热电有限公司
- 山东昆达生物科技有限公司
- 唐山三友热电有限责任公司
- 穆棱市亿阳热电经营有限公司
- 华电大同第一热电厂有限公司
- 锦州节能热电股份有限公司
- 响水联谊热电有限公司
- 山东王晁煤电集团热电有限公司
- 内蒙古德显生物质能热电有限公司
- 长兴新城环保有限公司
- 山东盛宝传热科技有限公司
- 浙江直成环保设备有限公司
- 上海协彩实业有限公司
- 陕西水务集团洛川热力有限公司
- 高邮齐耀善能新能源有限公司
- 龙游县金怡热电有限公司
- 江西久盛国际电力工程有限公司
- 山东王晁煤电集团热电有限公司
- 浙江中控太阳能有限公司
- 宁安太祥能源开发有限公司
- 同江市长恒热电有限公司
- 四川新津晨龙纸业业有限公司

生物化工行业/Biochemical industry



- 安徽龙津生物科技有限公司
- 宝鸡阜丰生物科技有限公司
- 甘肃圣大方舟马铃薯变性淀粉有限公司
- 古浪县鑫源氰胺化工有限公司
- 杭州澳赛诺生物科技有限公司
- 杭州宝晶生物股份有限公司
- 河南绿康生物科技有限公司
- 济宁同拓生物科技有限公司
- 江苏中泰生物科技有限公司
- 江西伟康生物科技有限公司
- 美町宝植物科技(中国)有限公司
- 内蒙古润邦生物科技有限公司
- 内蒙古伊品生物科技有限公司
- 宁波大红鹰生物工程股份有限公司
- 宁国市成兴生物科技有限公司
- 宁夏派可威生物科技有限公司
- 宁夏伊品生物科技股份有限公司
- 沁阳市圣鑫生物科技有限公司
- 青岛澳海生物有限公司
- 青岛聚大洋藻业集团有限公司
- 青岛明月海藻集团有限公司
- 山东福宽生物工程有限公司
- 山东凯翔生物化工有限公司
- 山东康宝生化科技有限公司
- 神舟生物科技有限责任公司

Product 产品特点 Features

寿命长/Long life

1、阀内件 Trims

内件的每个功能模块可根据工况的需要选择不同材料及表面硬化处理，增加内件的抗腐蚀、气蚀、冲刷性能，提高使用寿命。

Based on the working condition we have be informed, we will choose or suggest to use corresponding material or special surface treatment for the trims, all this works can protect trims from erosion cavitations and corrosion, increase the service life.

2、阀体 Body

LN8系列控制阀阀体内腔由上下两个流道组成，S流线型流腔，近似半椭圆截面轮廓设计，流路畅通，减小流阻，有效减少紊流。阀体上腔中部设置导流翼，有利于减少涡流，提高流通能力。

The valve body of LN8 series is consist of two runners which has formed a sigmate shape. This can reduce the flow resistance and turbulent to keep the media running fluently. The flap in the middle of the top runner can reduce the eddy flow and increase the flow capacity.



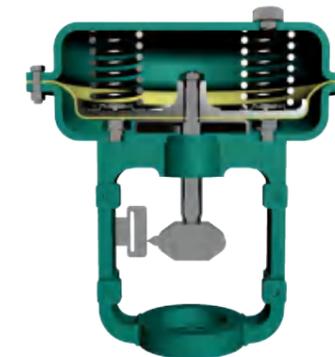
3、执行机构 Actuator

AM8多弹簧气动薄膜执行机构，可靠性高、推力大、寿命长、适用范围广。改变弹簧数量即可实现多种不同推力的弹簧组合；采用高强度膜片，最大供气压力0.5MPa, 保证阀门的可靠关断；此类执行机构使用寿命长，动作次数达100万次以上。

The standard configuration of LN8 series is AM8 multi-spring pneumatic diaphragm actuator, which can working in different working conditions. High reliability, long lifespan and extensive application. The output force are changing with the number of the springs. The high pressure resistant diaphragm can bearing maximum 0.5MPa air supply. This type of actuator has a long life cycle more than 1 million times.



中控创新设计
Innovative design of SUPCON



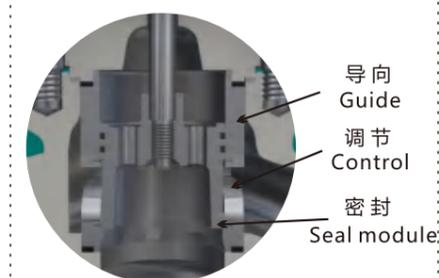
常规设计
Conventional design

密封好/Well sealed

1、阀内结构 Structure

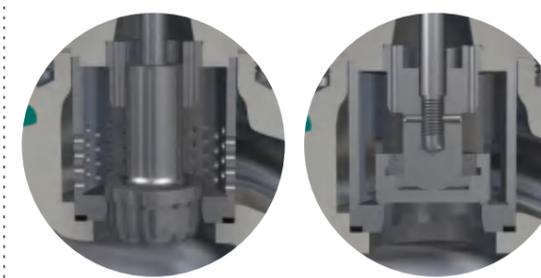
a、全新功能模块化设计

a. New function modular design



b、自对中阀座设计

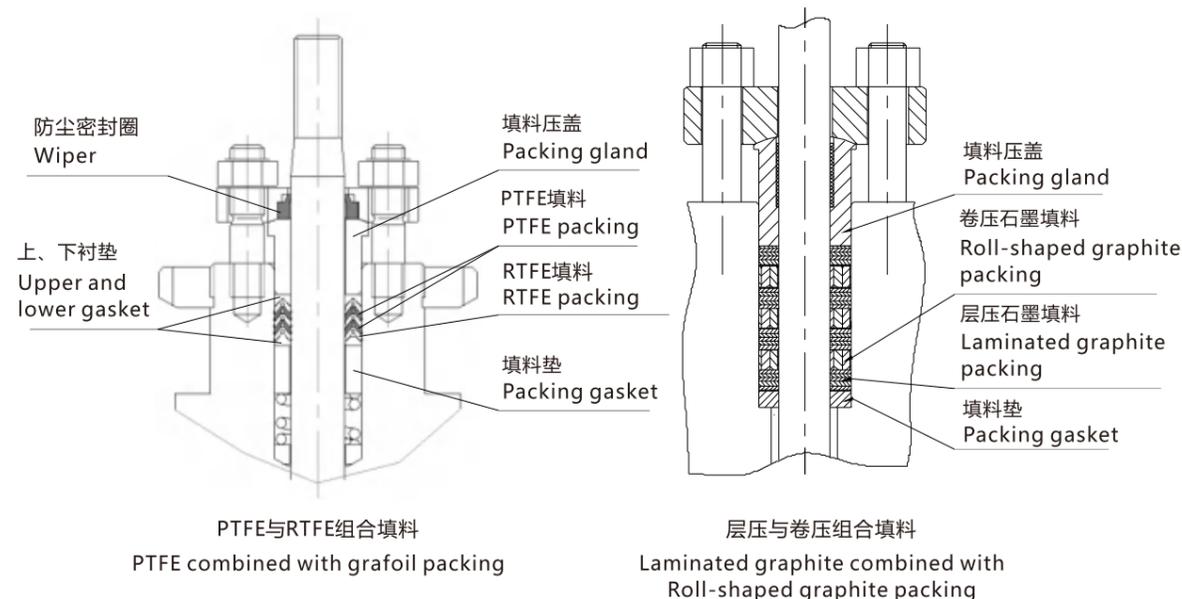
b. Self-centring seat design



2、填料系统 Packing system

填料函组件进行了优化设计，在填料压板内放置防尘密封圈，能有效防止附着在阀杆外露表面的杂质随阀杆进入填料函内部对阀杆及填料造成破坏，同时又起到辅助密封作用。在V型填料上增加了U型槽，并将V形开口的角度由常规的90°改为更为有效的85°。填料材质由纯PTFE、PTFE+石墨两种间隔组合配置，介质温度超过200°C时，可采用柔性石墨成型填料结构。

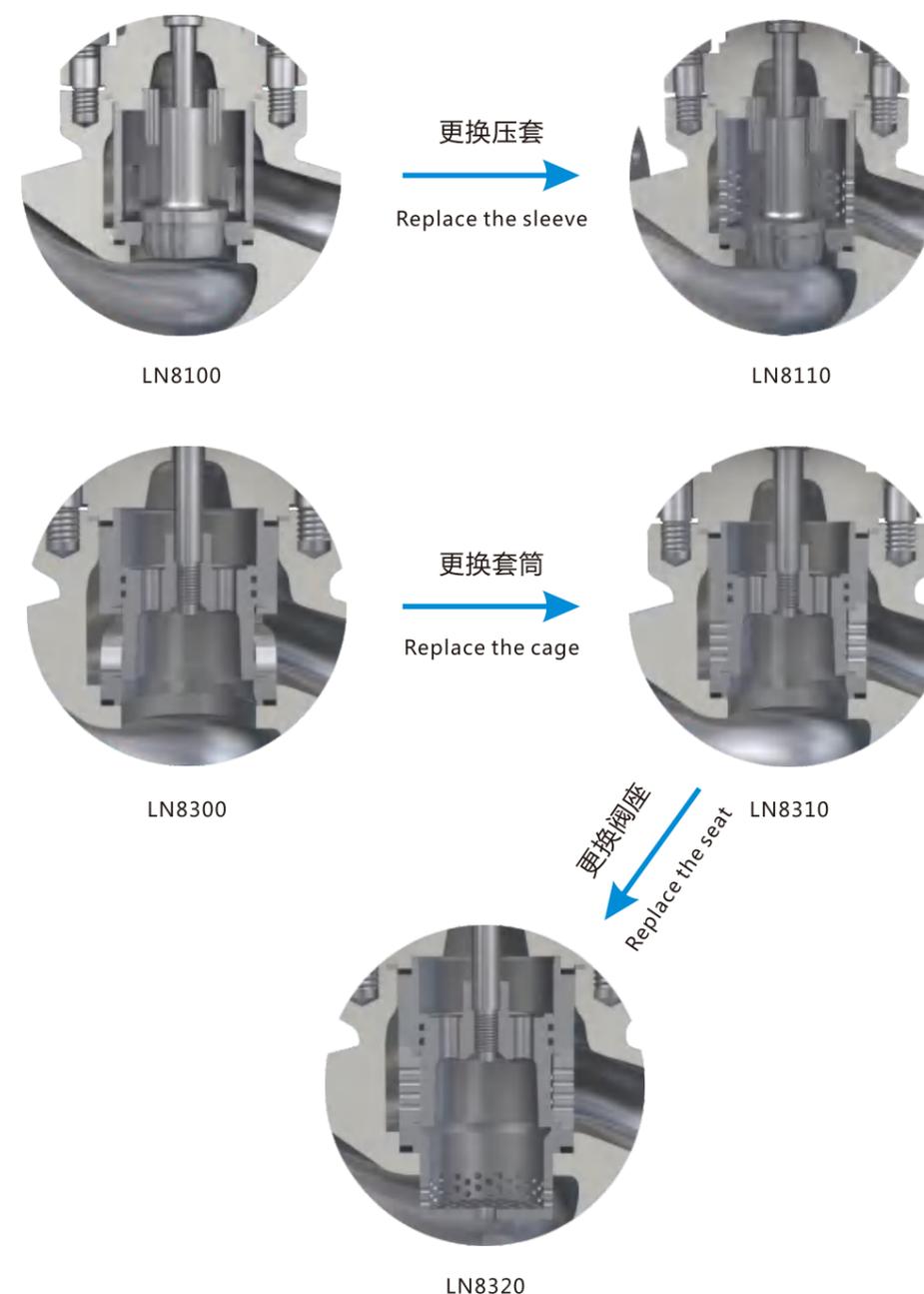
The packing box assemblies are also optimized. Seal ring in the gland flange can prevent the dirt from entering and protect the packings. The V-ring is added with an U-groove and its angle is changed from conventional 90° to more efficient 85°. The packing is a combination of alternating pure PTFE and PTFE with grafoil. When the temperature of fluid is above 200°C, the packing will be made by grafoil.



易维护/Easy to maintain

独特的平台化、模块化设计，组件独立，方便拆卸和更换，不需专用工装，并且只需更换简单零件即可改变阀门类型；零部件可灵活采用多种材质组合使用。

The unique platform and modul design make it easy to remove and displace the parts without special tools, and moreover, easy to change the type of the valve only by changing a few parts. A variety of material combinations is optional for the parts.



精度高/High precision

LN8系列控制阀严格按照IEC标准研制，是具有自主创新理念的全新功能模块化直行程控制阀。将阀内件分为导向、调节、密封三个功能模块，根据每个功能模块的特性要求设计最佳解决方案，协同实现在动作、调节、密封等方面的高可靠性。

LN8 series control valves are designed strictly on the basis of the IEC standard. They are the latest self-innovated modularized straight stroke control valve of SUPCON. We divide the trims into three modules, namely guide, control and seal module. We provide the best solution according to the function of each module and make action, control and seal more reliable.

线性、回差、死区和泄漏量等指标完全符合国家标准。

Each index, linear, hysteresis, dead zone and leakage, for example, is full compliance with national standards.

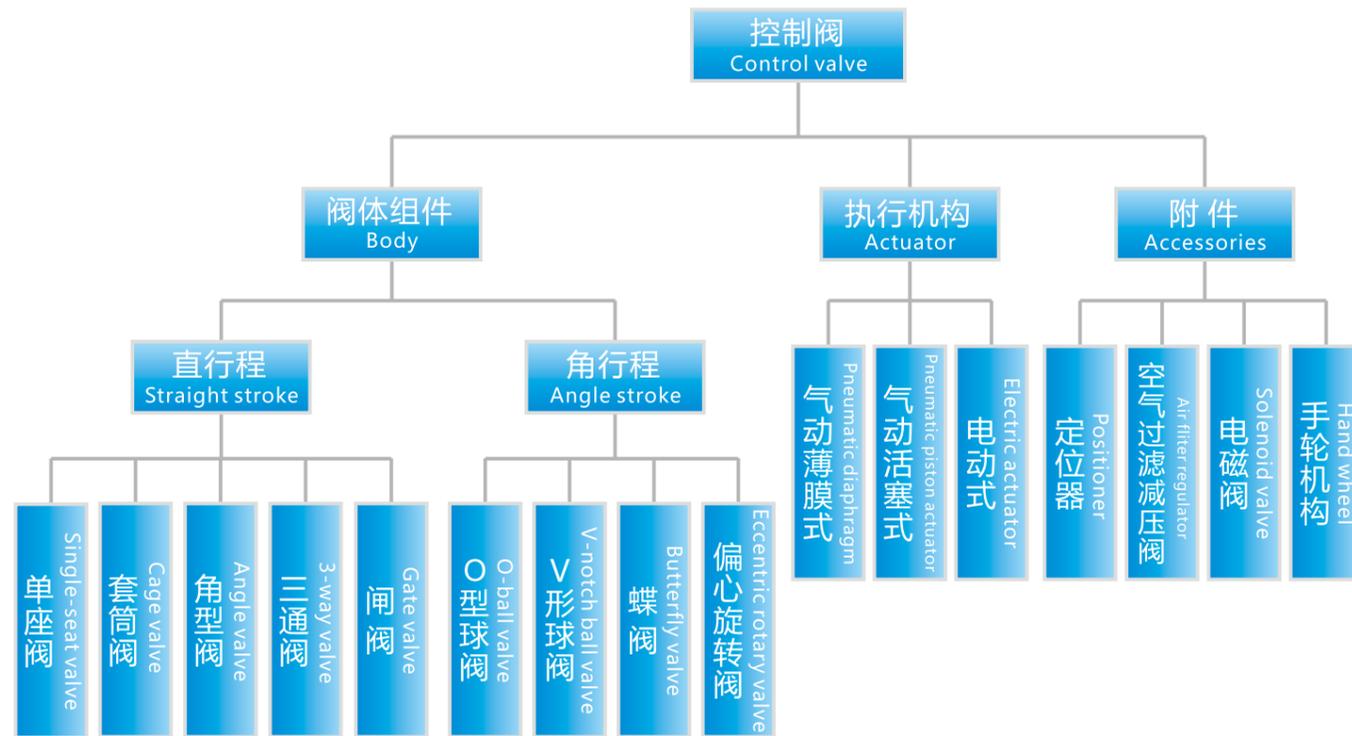
检测项目 Test items	国家标准 National standard	中控检测标准 Our company standard	实测数据 Measured results
阀座泄漏/Seat leakage	0.064升/分 (L/min.)	0.064升/分 (L/min.)	0.01升/分 (L/min.)
额定行程偏差 Rated travel error	+2.5%	+2%	1.32%
起始点偏差/Start error	±2.5%	±2%	0%
终点偏差/End error	±2.5%	±2%	0.08%
基本误差/Basic error	±1.5%	±1%	-0.52%
回差/Hysteresis	1.5%	1%	0.16%
死区/Dead band	0.6%	0.4%	0.38%

注：此参数为出厂实测数据，产品选用LN8100顶导向单座控制阀（DN50、PN40）为例。

Note: For above measured results, take LN8100 top guide single seat valve (PN110) as an example.

LN81/82系列顶导向单座控制阀

LN81/82 Series Top Guided Single-seated Control Valve

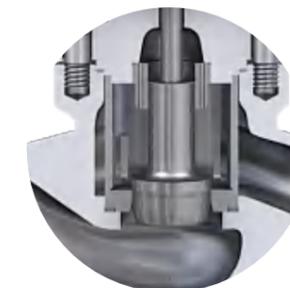


LN81/82 系列顶导向单座控制阀，采用流体压力不平衡型柱塞阀芯，阀盖顶部导向，浮动压紧式自对中阀座结构。调节精度高，结构简单可靠，密封性能好，方便安装和拆卸，维护成本低，适用于压差不高，泄漏量低，控制精度高的场合。

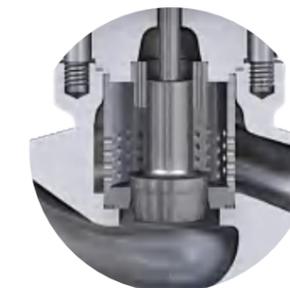
LN81/82 series are characterized by insensitive to impurities and excellent sealing performance. Seat retaining cage is available for all trim designs to optimize flow conditions and resist erosion by cavitation. Fast and easy to maintenance due to its quick-changeable trim combination. LN81 series can be used in a wide range of applications, especially suitable for the fluid with entrained particle and larger temperature variety. LN82 series, with perforated cylinder Plug, can effectively protect sealing surface of seat to be damaged by high speed flow scoured.

主要技术参数 / Main technical parameters

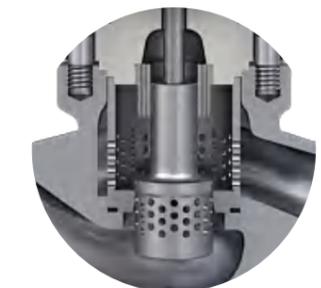
公称通径/Nominal Size	DN15~DN300	使用温度/Operating temperature	-196°C~+593°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300),110(ANSI 600); 欧洲体系/European standard : PN16,40,63		
流量特性/Characteristic	等百分比、线性、快开 / Equal percentage, Linear, On/off	可调比/Rangeability : 30/50/100:1	
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级、V级、VI级（快开、软密封） Class IV,V, VI according to GB/T 17213.4-2005/IEC 60534-4:2006		



LN8100
顶导向单座控制阀
Top guided single-seated



LN8110
多孔式单座控制阀
Perforated Cage Single-seated



LN8220
低噪音单座控制阀
Low Noise Perforated
Plug Single-seated

LN83/85系列套筒导向控制阀

LN83/85 Series Cage Guided Control Valve

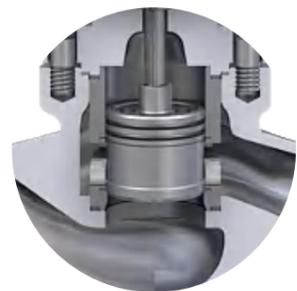


LN83/85系列套筒导向控制阀，采用流体压力平衡式阀塞，套筒内壁导向，浮动压紧式自对中阀座结构。动态稳定性好，操作力小，抗冲刷，允许压差大，方便安装和拆卸，维护成本低，适用于高压差，高噪音，高冲刷的各种高低温介质的苛刻工况。

LN83/85 series cage guided pressure balanced control valves are characterized by super dynamic stability, large allowable on-off pressure differential and smaller thrust force. LN83/85 /87 series using three-piece separated cage combined optional o-ring seal type or spring-energized seal type or piston seal type take on excellent control precision and higher seat leakage rate. LN84 series have double metal-seated structure. The temperature range varies with the sealing of different structures. they are especially suitable to various heavy duty conditions.

主要技术参数 / Main technical parameters

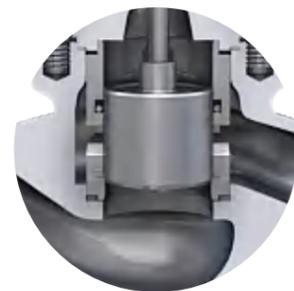
公称通径/Nominal Size	DN40~DN400	使用温度/Operating temperature	LN83:-17°C~+150°C LN85:-17°C~+260°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300),110(ANSI 600); 欧洲体系/European standard : PN16,40,63		
流量特性/Characteristic	等百分比、线性 / Equal percentage,Linear	可调比/Rangeability : 50:1	
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级, V级 Class IV, V according to GB/T 17213.4-2005/IEC 60534-4:2006		



LN8300
套筒导向控制阀(O型圈+PTFE密封)
Cage Guided Pressure
Balanced O-ring Type



LN8320
低噪音套筒导向控制阀(O型圈+PTFE密封)
Low Noise Cage Pressure
Balanced O-ring Type



LN8500
套筒导向控制阀(平衡密封环)
Cage Guided Pressure Balanced
Spring-energized Seal Type

LN8600套筒导向先导式控制阀

LN8600 Cage Guided Pilot-operated Type Control Valve

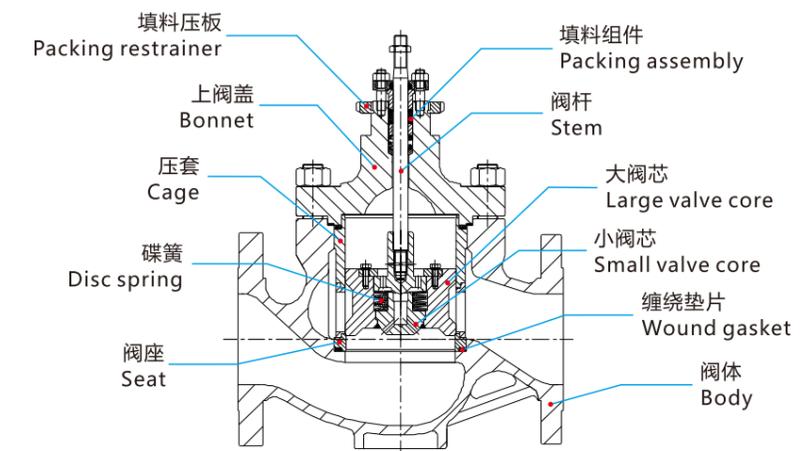


LN8600 套筒导向先导式控制阀，有一大一小两个阀芯，大阀芯的上下运动实现控制阀的开启或关闭，小阀芯的上下运动引导大阀芯的运动。此控制阀能实现较高的密封要求。适用于高压差、严密封的场合。

LN8600 cage guided pilot control valve has two plugs, a big one and a small one. The small plug moves to depress the upstream pressure and pilots the big plug. The big plug moves to realize the open and close of control valve. It can be used in the working condition where high seal performance is needed when pressure drop is high.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN65~DN200	使用温度/Operating temperature	-196°C~+593°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300),110(ANSI 600); 欧洲体系/European standard : PN16,40,63		
流量特性/Characteristic	等百分比、线性、快开 / Equal percentage, Linear, On/off	可调比/Rangeability : 50:1	
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级、V级 Class IV, V, VI according to GB/T 17213.4-2005/IEC 60534-4:2006		



○ [直行程套筒导向控制阀]

Linear Motion Cage Guided Control Valve

LN87系列套筒导向控制阀

LN87 Series Cage Guided Control Valve

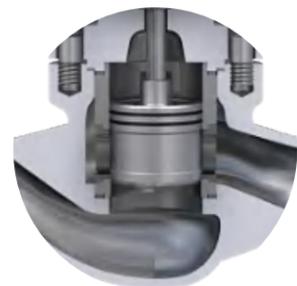


LN87系列套筒导向控制阀，采用流体压力平衡式阀塞，套筒内壁导向，浮动压紧式自对中阀座结构。动态稳定性好，操作力小，抗冲刷，允许压差大，方便安装和拆卸，维护成本低，适用于高压差，高噪音，高冲刷的各种高低温介质的苛刻工况。

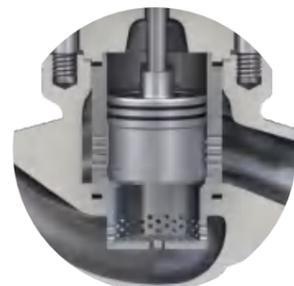
LN87 series cage guided pressure balanced control valves are characterized by super dynamic stability, large allowable on-off pressure differential and smaller thrust force. LN83/85/87 series using three-piece separated cage combined optional o-ring seal type or spring-energized seal type or piston seal type take on excellent control precision and higher seat leakage rate. LN84 series have double metal-seated structure. The temperature range varies with the sealing of different structures. they are especially suitable to various heavy duty conditions.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN40~DN200	使用温度/Operating temperature	LN83:-17°C~+150°C LN85:-17°C~+260°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300),110(ANSI 600); 欧洲体系/European standard : PN16,40,63		
流量特性/Characteristic	等百分比、线性 / Equal percentage, Linear	可调比/Rangeability : 50:1	
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级, V级 Class IV, V according to GB/T 17213.4-2005/IEC 60534-4:2006		



LN8700
套筒导向控制阀(活塞环密封)
Cage Guided Pressure Balanced
Piston Seal-ring Type



LN8720
低噪音套筒导向控制阀(活塞环密封)
Low Noise Cage Pressure Balanced
Piston Seal-ring Type



LN8750
双层套筒导向控制阀(活塞环密封)
Double Cages Pressure Balanced
Piston Seal-ring Type

○ [直行程套筒导向控制阀]

Linear Motion Cage Guided Control Valve

LN8800平衡式单座控制阀

LN8800 Balanced Single-seat Control Valve

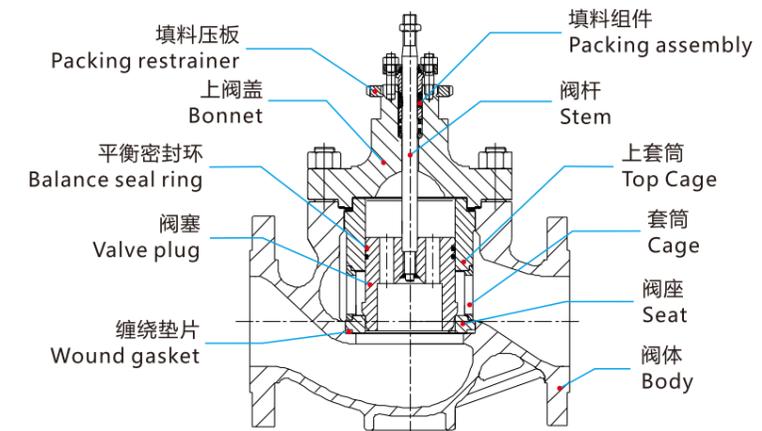


LN8800 平衡式单座控制阀，采用压力平衡式抛物线阀芯结构。与单座不平衡式控制阀相比，在执行机构推力较小的情况下，更能承受较高的工作压差。与普通套筒导向控制阀相比，调节精度更高，不容易卡死。O型圈、平衡密封环及活塞环的采用使阀门适用于不同温度的介质工况，而密封性能与单座阀相同，且动态稳定性更好。配用多弹簧气动薄膜执行机构或电动执行机构。安装快速方便、性能可靠。

LN8800 pressure-balanced single seated control has a pressure-balanced structure with parabolic plug. Compared to unbalanced single seated control valve, it can deal with the fluid of high pressure drop when the output of actuator is small. Compared to the cage guided control valve, it has a higher control accuracy and is not is to get jammed. It can deal with the fluid of different temperature since O-ring, spring-energized seal ring and piston ring are adopted. It has a good seal performance like single seated control valve and is better in operating stability. It can be mounted with multi-spring pneumatic diaphragm actuator or electric actuator. It's easy to assemble and has a reliable performance.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN80~DN200	使用温度/Operating temperature	-17°C~+593°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300),110(ANSI 600); 欧洲体系/European standard : PN16,40,63		
流量特性/Characteristic	等百分比、线性 / Equal percentage, Linear	可调比/Rangeability : 50:1	
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级、V级 Class IV, V according to GB/T 17213.4-2005/IEC 60534-4:2006		



LN81W/82W系列波纹管单座控制阀

LN81W/82W Series Bellows Single-seated Control Valve

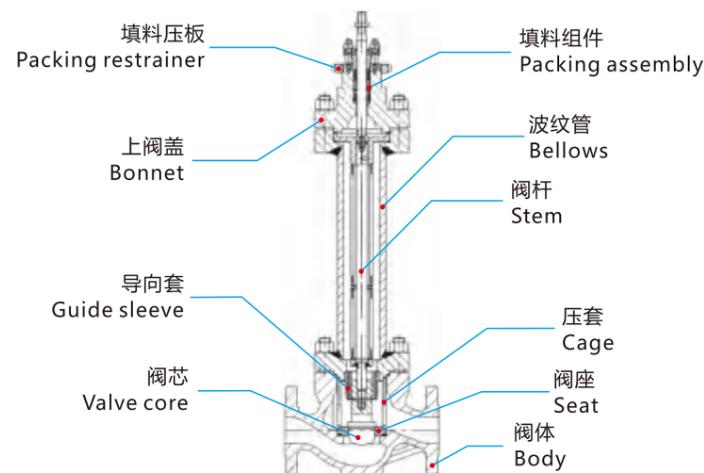


LN81W/82W系列波纹管单座控制阀，基于LN81/82系列控制阀结构上增加波纹管密封结构，耐压的弹性不锈钢波纹管置于支座部件内与阀杆连接在一起，与填料组成双重密封，消除介质外漏隐患。适用于剧毒、易燃、易爆、易挥发和稀有贵金属介质的调节。

LN81W/82W series, based on LN81/82 series structures, Sealing bellows are increased. The pressure-proof and elastic stainless steel bellows is tightly seal-welded to the valve stem and upper adapter ring. For safety reasons the construction includes a standard stem sealing packing as back-up in case of bellows failure. LN81W/82W series are available for process fluids when stem leakage can't be tolerated at all(e.g. toxic fluids).

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN15~DN300	使用温度/Operating temperature	-45°C~+350°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300),110(ANSI 600); 欧洲体系/European standard : PN16,40,63		
流量特性/Characteristic	等百分比、线性、快开 / Equal percentage, Linear, On/off	可调比/Rangeability : 50:1	
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级、V级、VI级 (快开、软密封) Class IV, V, VI(on/off or soft seal) according to GB/T 17213.4-2005/IEC 60534-4:2006		



LN83W/85W/87W系列波纹管套筒导向控制阀

LN83W/85W/87W Series Bellows Cage Guided Control Valve

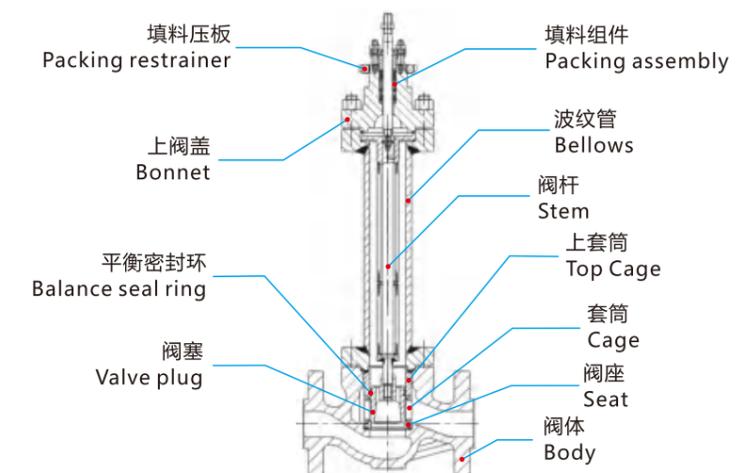


LN83W/85W/87W 系列波纹管套筒导向控制阀，基于LN83/85/87系列控制阀结构上增加波纹管密封结构，耐压的弹性不锈钢波纹管置于支座部件内与阀杆连接在一起，与填料组成双重密封，消除介质外漏隐患。适用于剧毒、易燃、易爆、易挥发和稀有贵金属介质的调节。

LN83W/85W/87W series, based on LN83/85/87 series structures, Sealing bellows are increased. The pressure-proof and elastic stainless steel bellows is tightly seal-welded to the valve stem and upper adapter ring. For safety reasons the construction includes a standard stem sealing packing as back-up in case of bellows failure. LN83W/85W/87W series are available for process fluids when stem leakage can't be tolerated at all(e.g. toxic fluids).

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN40~DN300	使用温度/Operating temperature	LN83W:-17°C~+150°C LN85W:-17°C~+260°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300),110(ANSI 600); 欧洲体系/European standard : PN16,40,63		
流量特性/Characteristic	等百分比、线性 / Equal percentage, Linear	可调比/Rangeability : 50:1	
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级、V级 Class IV, V according to GB/T 17213.4-2005/IEC 60534-4:2006		



LM81/82系列高压控制阀

LM81/82 Series High Pressure Control Valve

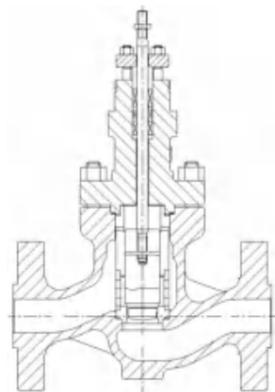


LM81/82系列多孔式高压单座控制阀是一种顶部导向、柱塞型高压单座控制阀。采用新型直压式浮动阀座结构。具有控制精度高，密封性能好，结构简单，通用性强等特点。多孔式压套的采用，极大地提高了内件的抗气蚀、降噪音性能。适用于较为苛刻工况条件下的流体控制。

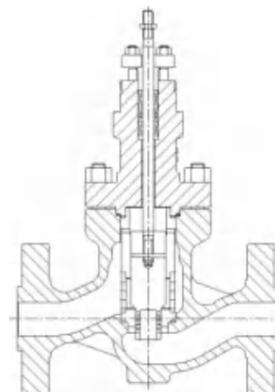
LM81/82 series with large capacity high pressure globe valve body, thick wall bonnet, Metal-seated quick-changeable trim combination, ensures safety and credibility in high pressure conditions. Insensitive to impurities with low cavitation design. Fast and easy to maintenance due to its rotational symmetry. They are especially suitable for the high pressure fluid with entrained particle and larger temperature variety because of won't being locked.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN25~DN80	使用温度/Operating temperature	-17°C~+593°C
公称压力/Nominal Pressure	美洲体系/American standard : PN150(ANSI 900),260(ANSI 1500),420(ANSI 2500); 欧洲体系/European standard : PN160,250		
流量特性/Characteristic	等百分比、线性 / Equal percentage, Linear	可调比/Rangeability : 50 : 1	
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级, V级 Class IV, V according to GB/T 17213.4-2005/IEC 60534-4:2006		



LM8110 多孔式高压单座控制阀
LM8110 Perforated High Pressure
Single Seated Control Valve



LM8200 双向单座高压控制阀
LM8200 Double Guide High Pressure
Single Seated Control Valve

LM85/87系列高压控制阀

LM85/87 Series High Pressure Control Valve

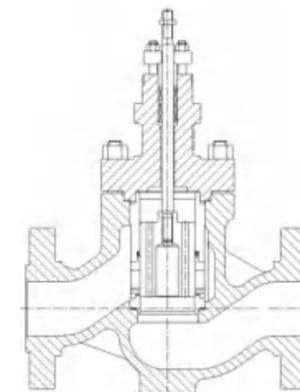


LM85/87 系列套筒导向高压控制阀是一种套筒导向压力平衡式高压单座控制阀。采用分离式套筒结构，高性能金属密封环密封。具有在高温高压下动态稳定性好，控制精度高，允许压差大，操作力小，流通能力大等特点，适用于苛刻工况下的流体控制。

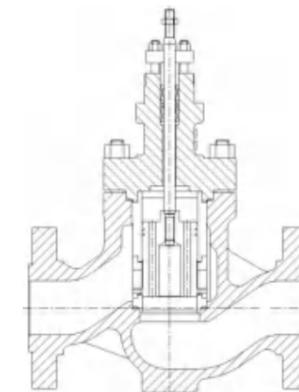
LM85/87 series cage guided high pressure balanced control valves are characterized by super dynamic stability, large allowable on-off pressure differential and smaller thrust force. All using three-piece separated cage combined optional spring-energized seal type or piston seal type take on excellent control precision and higher seat leakage rate. The temperature range varies with the sealing of different structures. They are best suitable to large pressure drop ratio, wide temperature change and high pressure conditions.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN40~DN200	使用温度/Operating temperature	LM85:-17°C~+260°C LM87:-17°C~+593°C
公称压力/Nominal Pressure	美洲体系/American standard : PN150(ANSI 900),260(ANSI 1500),420(ANSI 2500); 欧洲体系/European standard : PN160,250		
流量特性/Characteristic	等百分比、线性 / Equal percentage, Linear	可调比/Rangeability : 50 : 1	
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级 Class IV according to GB/T 17213.4-2005/IEC 60534-4:2006		



LM8500 套筒导向高压控制阀 (平衡密封环)
LM8500 High Pressure Balanced
Spring-energized Seal Type Control Valve



LM8700 套筒导向高压控制阀 (活塞环密封)
LM8700 High Pressure Piston
Seal-ring Type Control Valve

LM8560多级降压高压低噪音控制阀(活塞环密封)

LM8560 high pressure multistage single seated control valve

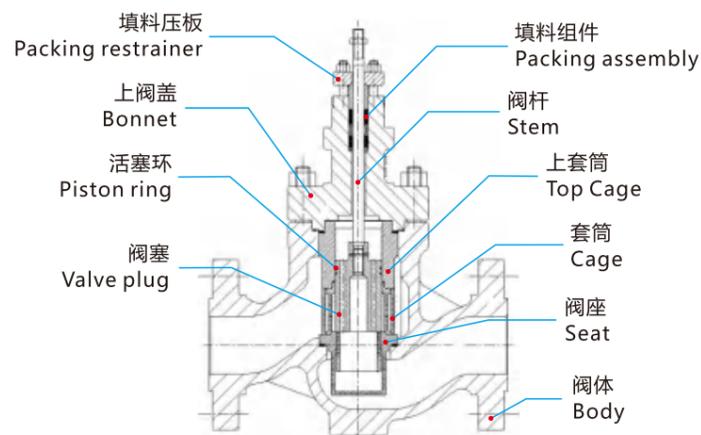


LM8560多级降压高压控制阀是一种套筒、阀座双向，压力平衡式高压单座控制阀。采用双层多孔式套筒和多孔式阀座结构，高性能金属密封环密封。四级降压、降噪，允许压差大、抗气蚀、降噪能力强等特点。适宜高温下压差大、噪音强、气蚀严重等恶劣工况下的流体控制。

LM8560 high pressure multistage single seated control valve is characterized by balanced trims requirement for very high pressure drops. Double guided by big area cage and seat, metal-seated quick-changeable trim, two layers perforated cage, super metal piston rings and perforated seat combinations, which efficiently obtain excellent four step pressure reducing effect and ideal seal performance. This series particularly suits far more heavy duty applications with large pressure differential.

主要技术参数 / Main technical parameters

公称口径/Nominal Size	DN80~DN200	使用温度/Operating temperature	-17℃~+520℃
公称压力/Nominal Pressure	美洲体系/American standard : PN150(ANSI 900),260(ANSI 1500),420(ANSI 2500); 欧洲体系/European standard : PN160,250		
流量特性/Characteristic	等百分比、线性 / Equal percentage, Linear	可调比/Rangeability	: 50 : 1
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级 Class IV according to GB/T 17213.4-2005/IEC 60534-4:2006		



LM8580碟片式套筒导向高压控制阀(平衡环密封)

LM8580 high pressure multistage single seated control valve

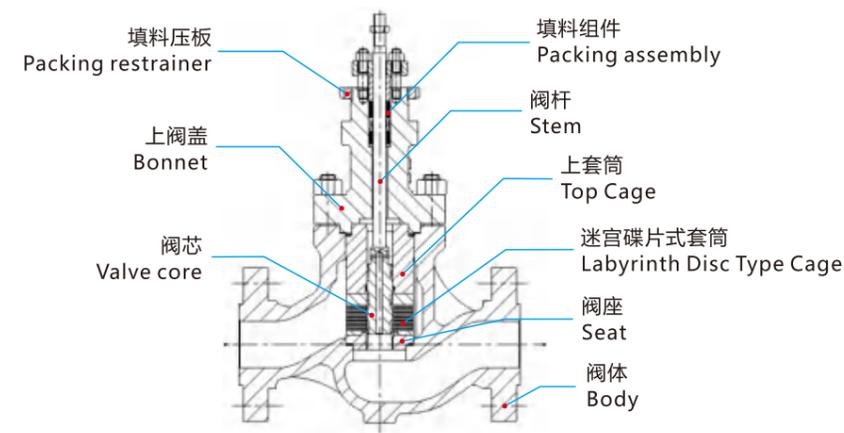


LM8580碟片式套筒导向高压控制阀（平衡环密封）是一种套筒导向，压力平衡式高压单座控制阀。采用新型迷宫碟片式套筒结构，高性能平衡密封环密封。多级降压、降噪，允许压差大、抗气蚀、降噪能力强等特点。适宜压差大、噪音强、气蚀严重等恶劣工况下的流体控制。

LM8580 multi-layer cage guided high pressure control valve is a pressure balanced spring-energized cage guided single seated control valve. It seals by high performance spring-energized seal ring with a new labyrinth disc cage structure. It has a character of multi-cascade pressure and noise decreasing, high allowable pressure drop, anti-cavitation and can be used to deal with the fluid of high pressures drop, loud noise, severe cavitation etc.

主要技术参数 / Main technical parameters

公称口径/Nominal Size	DN50~DN100	使用温度/Operating temperature	-80℃~+260℃
公称压力/Nominal Pressure	美洲体系/American standard : PN150(ANSI 900),260(ANSI 1500),420(ANSI 2500); 欧洲体系/European standard : PN160,250		
流量特性/Characteristic	线性 / Equal percentage, Linear	可调比/Rangeability	: 50 : 1
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级 Class IV according to GB/T 17213.4-2005/IEC 60534-4:2006		



LM6160A迷宫式高压单座角阀

LM6160A Series High Pressure Angle Single-seated Labyrinth Control Valve



LM6160A迷宫式高压单座角阀是一种迷宫式高压差调节阀。该阀主要使用在合成氨氨分离器和冷凝器装置上,以及其他高压差,干净流体的控制。其主要特点为:

1. 采用多级打孔压套混合流道降压结构;
2. 降压套采用打孔结合多级沟槽设计;
3. 出口流道采用文丘里渐扩管结构。

LM6160A Series High Pressure Angle Single-seated Labyrinth Valve is a kind of labyrinth high pressure-drop control valve. The valve is mainly used in the ammonia separator and condenser device of synthetic ammonia, as well as other high pressure difference, clean fluid control. Its main features are as following:

1. With the structure of multilayer multihole cages which are very effective in decreasing the pressure.
2. There are special grooves on the cage, which is also used to decrease the pressure, except the holes.
3. The passage of outlet is the venturi which can slow down the fluid and decrease erosion.

LN8系列超低温控制阀

LN8 Series Cryogenic Control Valve



LN8系列超低温控制阀主要应用于低温场合。

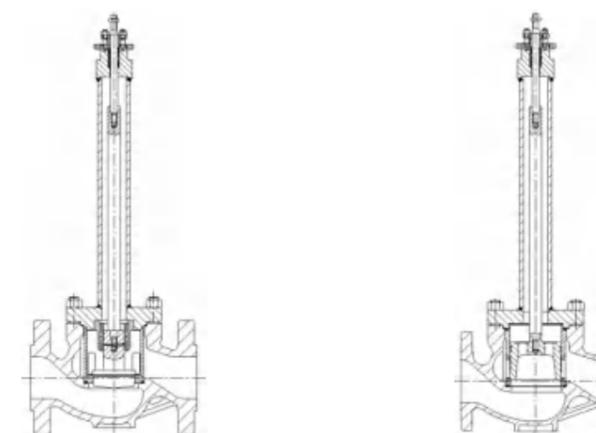
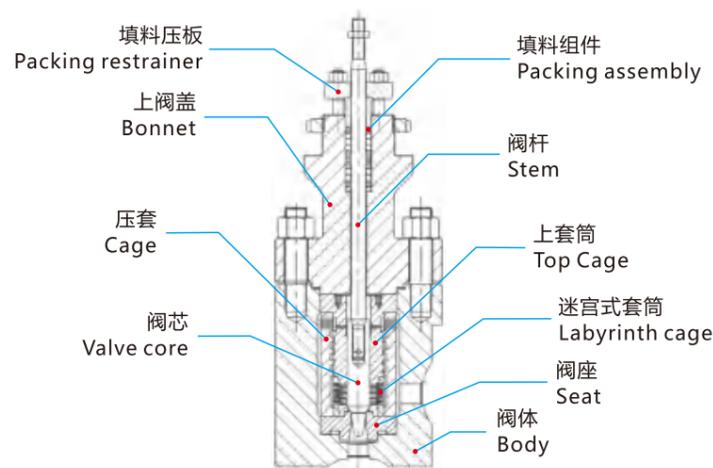
LN8 Series Cryogenic Control Valve is mainly applicable for control of low temperature in the process lines.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN15,20,25,40	使用温度/Operating temperature	-29°C~+538°C
公称压力/Nominal Pressure	美洲体系/American standard : PN150(ANSI 900),260(ANSI 1500),420(ANSI 2500); 欧洲体系/European standard : PN160,250		
流量特性/Characteristic	线性 / Linear	可调比/Rangeability	: 50 : 1
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级、V级 Class IV, V according to GB/T 17213.4-2005/IEC 60534-4:2006		

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN15~DN200	使用温度/Operating temperature	-196°C~-17°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300),110(ANSI 600); 欧洲体系/European standard : PN16,40,63		
流量特性/Characteristic	等百分比、线性、快开 / Equal percentage, Linear, On/off	可调比/Rangeability	: 50 : 1
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级、V级, VI级 (快开、软密封) Class IV, V, VI according to GB/T 17213.4-2005/IEC 60534-4:2006		



Cryogenic Single-seated Control Valve

Cryogenic Cage Control Valve

LN系列三通分流/合流控制阀

LN Series Three-way Diverting/Mixing Control Valve



LN5134 三通分流控制阀能实现滴漏级密封，泄漏等级达IV级，通常用于热交换系统中大口径、高压差分流场合。

LN4133 三通合流控制阀能实现滴漏级密封，泄漏等级达到VI级，通常用于配比调节，通过阀芯位置的调节将两种单独的流体按所需比例从共同的出口流出。当DN≤80mm时，亦可用于分流场合。

LN5134 Three-Way Control Valve achieve drip level sealing with IV grade seal leakage, usually used for large diameter and high-pressure differential diverting conditions in heat exchange systems.

LN4133 Three-Way Control Valve achieves drip level sealing with VI grade seal leakage, usually used for proportioning control, leading two separate fluids to a common export through the adjustment of the spool position according to required ratio.

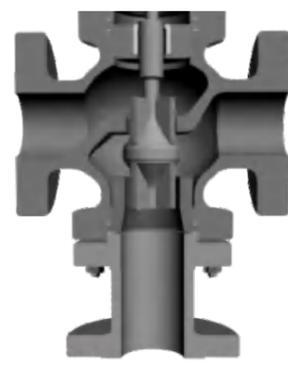
主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN25~DN300	使用温度/Operating temperature	-17°C~+425°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300); 欧洲体系/European standard : PN16,40		
流量特性/Characteristic	线性 / Linear		
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级 Class IV according to GB/T 17213.4-2005/IEC 60534-4:2006		



LN5134三通分流控制阀

LN5134 Three-way Diverting Control Valve



LN4133三通合流控制阀

LN4133 Three-way Mixing Control Valve

自力式控制阀

Self-operated Type Control Valve



自力式控制阀无需外加能源，利用被调介质自身能量为动力源。自动控制阀门介质流量，使阀后压力保持恒定的压力稳定装置。有ZZY直接作用型自力式压力调节阀、ZZYV型带指挥器操作型自力式压力调节阀、ZZV型自力式微压调节阀、ZZD氮封装置等类型。广泛应用于连续送气的天然气采输，城市煤气以及冶金、石油、化工等工业生产部门。

Self-operated type control valve without external energy, the energy of the medium itself was transferred as a power source. Automatic control valve medium flow rate, the pressure stabilizing device of pressure valve to maintain constant. Have ZZY directly self operated pressure control valve, ZZYV type take command control operation type self pressure regulating valve, ZZV type independent micro pressure regulating valve, ZZD nitrogen seal device type. Widely used in the continuous gas natural gas production and transportation, city gas, metallurgy, petroleum, chemical and other industrial sectors.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN15~DN300	使用温度/Operating temperature	-29°C~+538°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300); 欧洲体系/European standard : PN16,25,40		
流量特性/Characteristic	快开 / On/off		
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级 Class IV according to GB/T 17213.4-2005/IEC 60534-4:2006		



○ [软密封O型球阀]

Soft-seal O-type Ball Valve

SN5系列软密封O型球阀

SN5 Series Soft-seal O-type Ball Valve

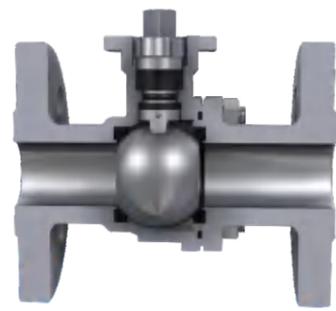


SN5系列软密封O型球阀是一种全口径直通球阀，其球体只需旋转90°就能实现阀的全开或全关。该球阀切断性能优异，流体压降损失最小，同时具有阀杆防飞、防静电等功能，适合于液体、气体等各种流体的切断控制。

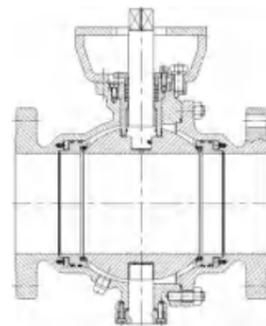
SN5 series soft-seal O-type ball control valves are offered in two basic structures, floating ball (below DN200) and trunnion mounted ball (above DN250). Special elastic lip seal structure not only ensure sealing is reliable, but also has good self-cleaning effect for viscosity medium when it coordinates with cylindrical flow path, especially has shearing and block-resistant functions to the fluids with fiber. Full-port design, small fluid pressure loss and different metal and nonmetal combinations can guarantee reliably conveying and cutting. SN5 series are characterized by compact structure, effective handle, smooth operation and long lifetime.

主要技术参数 / Main technical parameters

公称口径/Nominal Size	DN15~DN300	使用温度/Operating temperature	-29°C~+200°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300); 欧洲体系/European standard : PN16,25,40		
流量特性/Characteristic	快开 / On/off		
泄漏量/Seat leakage	GB/T 13927-2008 切断无泄漏/No leakage		



浮动式软密封O型球阀
Float Soft-seal O-type Ball Valve



固定式软密封O型球阀
Fixed Soft-seal O-type Ball Valve

○ [硬密封O型球阀]

Metal-seal O-type Ball Valve

SN5系列硬密封O型球阀

SN5 Series Metal-seal O-type Ball Valve

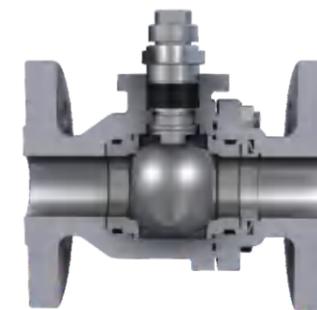


SN5系列硬密封O型球阀是一种全口径阀门，适用于不同温度及压力下含有固体颗粒流体及料浆类流体。

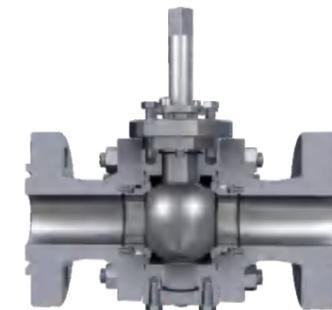
SN5 series metal-seal O-type ball valve is a full-bore type valve, usually used for fluid containing solid particles or slurries under various temperatures and pressures.

主要技术参数 / Main technical parameters

公称口径/Nominal Size	DN15~DN300	使用温度/Operating temperature	-45°C~+538°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300),110(ANSI 600),150(ANSI 900), 260(ANSI 1500),420(ANSI 2500);欧洲体系/European system : PN16,25,40,63,160,250		
流量特性/Characteristic	快开 / On/off		
泄漏量/Seat leakage	GB/T 13927-2008中的A级、AA级 Class A, AA according to GB/T 13927-2008		



浮动式硬密封O型球阀
Float Metal-seal O-type Ball Valve



固定式硬密封高压球阀
Fixed metal-seal High Pressure Ball Valve

VN6系列V形球阀

VN6 Series V-notch Ball



VN6系列V形球阀，其球芯是一个开有V形开口的部分球面。阀门关闭时，V形开口与阀座之间具有剪切作用，可将纤维物料切断。该阀具有流道通畅、流量系数大、可调比大、重量轻等特点。最适宜控制纸浆、污水和含有纤维性的介质，以及含有微小固体的悬浮液。

VN6 series V-type ball control valves' V-shape notch segmented ball permits wide range ability and produces an equal percentage flow characteristic. As the V-notch ball rotates into the seat ring, it creates a wedging and shearing effect to prevent dragging or slurries between the seat and the ball. Therefore, especially suitable to large range ability service and /or control of fluids with fiber and/or slurry. VN6 series are characterized by compact structure, effective handle and long lifetime. They are especially suitable for the fluid entrained with fibre or particle.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN25~DN300	使用温度/Operating temperature	-45°C~+400°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300); 欧洲体系/European standard : PN16,40		
流量特性/Characteristic	近似等百分比 / Approximately equal percentage	可调比/Rangeability : 300 : 1	
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级、V级，VI级（软密封） Class IV, V, VI according to GB/T 17213.4-2005/IEC 60534-4:2006		



软密封V形球阀
Soft-seal V-type Ball Valve



硬密封V形球阀
Metal-seal V-type Ball Valve

CN8系列偏心旋转控制阀

CN8 Series Eccentric Rotating Control Valve



CN8系列偏心旋转控制阀在结构上，阀体、上阀盖为一体式结构，阀体内腔为流线直通型，流路简单，对流体运动阻力小，压降损失小，可减少阀体及阀内组件的冲刷。阀芯的回转中心不与旋转轴同心，可减少阀座磨损，延长使用寿命，阀芯上到有导流板，有利于流体动态平衡，具有优良的稳定性。其次，还有流量大、可调范围广等优点。特别适用于含淤浆的工艺系统控制。

CN8 series eccentric rotating control valves plug's geometric center deviates with rotation axis, which can reduce the seat abrasion and extend the lifetime of the product. The flow guiding wing at the plug's back is good for stabilize fluid flow, so it has excellent stability. In addition, it has large flow capacity and wide range ability. It is especially suitable for the control of those slurry fluids susceptible to clogging. CN8 series are characterized by compact structure, large output torque, effective handle and long lifetime.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN25~DN300	使用温度/Operating temperature	-45°C~+400°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300); 欧洲体系/European standard : PN16,40		
流量特性/Characteristic	近似线性 / Approximate linear	可调比/Rangeability : 100 : 1	
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级、V级，VI级（软密封） Class IV, V, VI according to GB/T 17213.4-2005/IEC 60534-4:2006		



软密封偏心旋转控制阀
Soft-seal Eccentric Rotating Control Valve



硬密封偏心旋转控制阀
Metal-seal Eccentric Rotating Control Valve

BN系列控制蝶阀

BN Series Butterfly Valve



BN2302系列三偏心蝶阀，阀板采用三维偏心结构，启闭时，阀座与蝶板几乎无摩擦。蝶板密封圈为多层次不锈钢板与石墨复合板密封圈，密封性能优异。该阀口径大、操作扭矩小、流阻小、密封可靠，适用于大口径、低流阻、泄漏量小的工况。

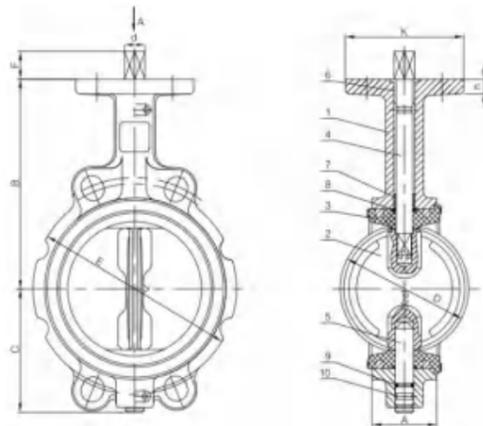
BN2302 Pneumatic tri-eccentric butterfly valves are innovative product of the double eccentric. On the basis of preserving primary radical eccentric and axial eccentric, the axis of conical seal surface has been inclined with the center of valve flow path to form angle eccentric. The unique design make it suitable to high pressure & high temperature etc heavy duty services. Additionally, the butterfly valve has excellent sealing performance. BN2302 series are characterized by compact structure, effective handle and long work life. They can be widely used to reliably cut-off or control various process fluids.

中线衬胶蝶阀是一种结构简单、易于操作、使用寿命长、重量轻的控制阀，用于开关或调节，适用于对气体、液体、浆料、固体粉末等流体介质的控制。

Rubber lined butterfly valve can be used to shut off or regulate the process media. It has a simple structure, long lifespan, light weight and is easy to operate. It's suitable for the regulating of fluid like gas, liquid, pulp, powder etc.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN80~DN1600 (三偏心蝶阀) DN50~DN600 (中线衬胶蝶阀)	使用温度/Operating temperature	-20°C~+425°C -40°C~+205°C
公称压力/Nominal Pressure	欧洲体系/European standard : PN10,16,25,40		
流量特性/Characteristic	近似等百分比、快开 / Approximately equal percentage, On/off		
泄漏量/Seat leakage	符合GB/T 13927中的AA级 Class AA according to GB/T 13927	零泄漏 (中线衬胶蝶阀) No leakage(Rubber lined butterfly valve)	



LN系列衬塑单座控制阀

LN series teflon-lined control valve

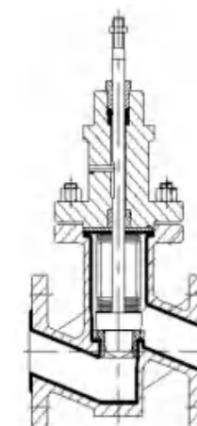


LN系列衬塑单座控制阀由气动薄膜执行机构（或电动执行机构）和直通单座衬塑阀两部分组成。该阀接触介质部位均使用具有耐腐蚀、耐老化的聚全氟乙丙烯（FEP），通过高压衬氟塑工艺制成。适用于常温、常压强腐蚀性介质工况。

LN series teflon-lined control valve consists of two parts, pneumatic diaphragm actuator (or electric actuator) and teflon-lined control valve assembly. The surface of either body's inner or trim's outside, which directly contact fluid, is all lined corrosion-resistant teflon (FEP or PFA) through using high-pressure injection molding technique. It can be wildy used to control strong corrosive medium.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN15~DN200	使用温度/Operating temperature	-30°C~+200°C
公称压力/Nominal Pressure	欧洲体系/European standard : PN16,25		
流量特性/Characteristic	等百分比、线性 / Equal percentage, Linear		
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 V级、VI级 Class V, VI according to GB/T 17213.4-2005/IEC 60534-4:2006		



○ [衬塑控制阀]

Lining Plastic Control Valve

SN系列衬塑球阀

SN Series Lined Ball Valve

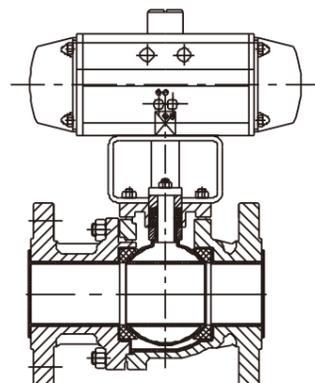


SN2401F系列衬塑球阀是一种转角位90°的旋转阀，具有极好的耐腐蚀性，凡与介质接触的部位，均用氟塑料隔离，主要选用氟塑料为PTFE、FEP，具有优良的密封性能，通常适用于密封性要求严格的场合。特别适用于强腐蚀性介质。球阀流通能力大，结构简单，维修方便，可配气动或电动执行机构。

SN2401F series lined ball valve, both the body's inner surface and the ball's outside surface are all lined special teflon-FEP (F46) through using high-pressure injection molding technology. A complete teflon flow path can reliably provides maximum erosion resistance and excellent leak tightness. They can be widely used in chemical, medical, food, paper and sewage treatment etc. industries to convey or cut-off of the acid or alkali etc strong corrosive medium.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN15~DN250	使用温度/Operating temperature	-30°C~+150°C
公称压力/Nominal Pressure	欧洲体系/European standard : PN10,16,25		
流量特性/Characteristic	快开 / On/off		
泄漏量/Seat leakage	GB/T 13927-2008 切断无泄漏/No leakage		



○ [衬塑控制阀]

Lining Plastic Control Valve

BN系列衬塑蝶阀

BN Series Lined Butterfly Control Valve

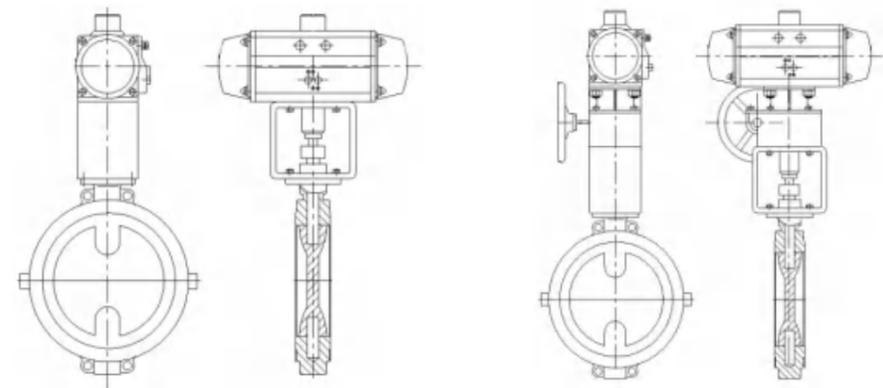


BN1101F系列衬塑蝶阀兼具硬衬的耐温性能与软衬的密封特性。阀门工作时，仅全氟塑阀座和衬氟型蝶板与介质接触，可承受除“熔融碱金属”和“元素氟”外的任何介质腐蚀、阀体通道内表面光滑，流体阻力小，流通能力强，扭矩适中。采用四级密封结构，并在密封面外配以耐温抗老化的SI橡胶的弹性衬塑阀座，完全达到介质零泄漏。

BN1101F series lined butterfly control valves, both the body's inner surface and the disc's outside surface are all lined special teflon-FEP (F46) through using high-pressure injection molding technology. A complete teflon flow path can reliably provides maximum erosion resistance and excellent leak tightness. They can be widely used in chemical, medical, food, paper and sewage treatment etc. industries to control or cut-off of the acid or alkali etc strong corrosive medium.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN15~DN1000	使用温度/Operating temperature	-30°C~+150°C
公称压力/Nominal Pressure	欧洲体系/European standard : PN6,10,16		
流量特性/Characteristic	近似等百分比 / Approximately equal percentage		
泄漏量/Seat leakage	GB/T 13927-2008 切断无泄漏/No leakage		



刀闸阀 Knife Gate Valve

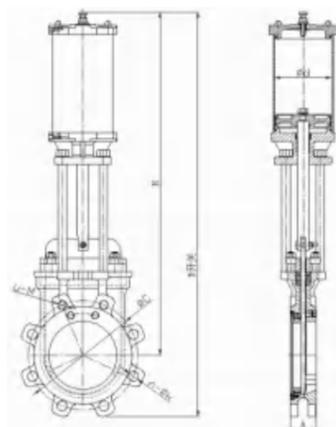


本系列刀闸阀是闸阀的一种，是直行程切断阀，刀闸阀的闸板头部有斜刃口，对介质具有一定的切断作用，适合用于含纤维及固体颗粒介质及污水处理系统中，可配手动，气动，电动执行器，广泛用于造纸、采矿、化工、污水处理等过程自控系统中。

Is a kind of gate valve, this series of knife gate valve is a straight travel cut-off valve, knife gate valve gate head inclined edge, the media has a certain cutting effect, suitable for fiber and solid granules medium and the sewage treatment system, can match the manual, pneumatic, electric actuators, widely used in papermaking, mining, chemical industry, sewage treatment and other process control system.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN50~DN600	使用温度/Operating temperature	-29°C~+120°C
公称压力/Nominal Pressure	DIN:PN10,16;ANSI 150		
流量特性/Characteristic	快开 / On/off		
泄漏量/Seat leakage	MSS SP81-2001中的D级、AA级 Class D, AA according to MSS SP81-2001		



平板闸阀 Flat Gate Valve

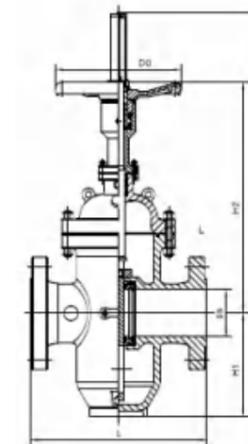


平板闸阀是一种关闭件为平行闸板的滑动阀。其关闭件可以是单闸板或是其间带有撑开机构的双闸板。闸板向阀座的压紧力是由作用与浮动闸板或浮动阀座的介质压力来控制。平板闸阀流阻小，能适用于带悬浮颗粒的介质、而且密封面可以实现自动定位。

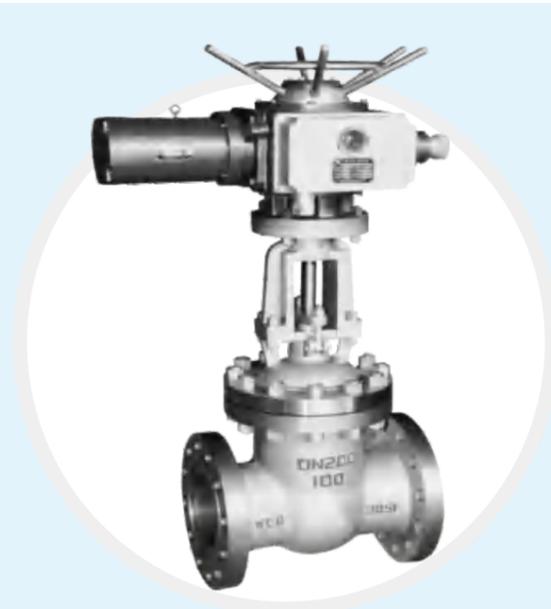
Flat gate valve is a kind of closed for the parallel slide valve of the gate. Close it a can be a single ram or a meantime double ram with open institution. Gate to the seat of the clamp force is by action with floating gate or floating seat of medium pressure to control. Flat gate valve flow resistance small, can apply to medium with suspended particles, and the sealing surface can realize automatic positioning.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN15~DN1000	使用温度/Operating temperature	-30°C~+150°C
公称压力/Nominal Pressure	DIN:PN6,10,16		
流量特性/Characteristic	快开 / On/off		
泄漏量/Seat leakage	GB/T 13927-2008中的D级、AA级 Class D, AA according to GB/T 13927-2008		



楔式闸阀 Wedge Gate Valve

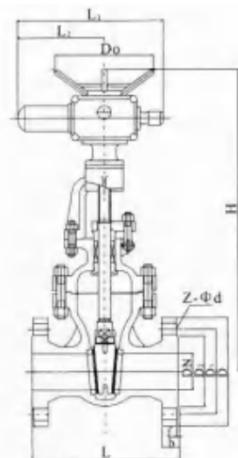


本系列闸阀具有流体阻力小，密封面受冲击侵蚀小，不改变介质流向，不扰流，压降小，启闭力矩小，结构长度短，工艺性能好和适用的压力，温度范围广等特点。闸阀启闭件的运动方向与介质流向垂直，用于阶段或接通管路中的介质。

This series valve has a small fluid resistance, sealing surface impact erosion is small, the flow direction of medium does not change, not disturbed flow, small pressure drop, open-close torque is small, the structure length is short, process performance is good and suitable pressure, temperature range, etc. The movement direction of the valve opening and closing is vertical, the flow direction of medium and medium used in stage or on line.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN15~DN1000	使用温度/Operating temperature	-30°C~+150°C
公称压力/Nominal Pressure	DIN:PN6,10,16		
流量特性/Characteristic	快开 / On/off		
泄漏量/Seat leakage	GB/T 13927-2008中的D级、AA级 Class D, AA according to GB/T 13927-2008		



LN8系列气动放料阀组 LN8 Series Pneumatic Discharging Valve Group

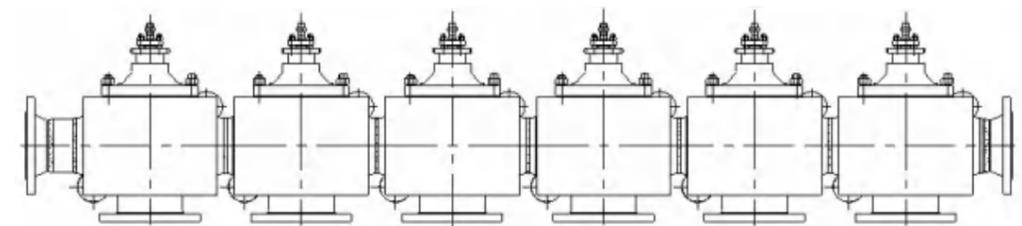


LN8系列气动放料阀组阀体外采用保温夹套形式，对放料阀组中的每一台阀分别焊接保温夹套，有利于分体测试各个阀门的性能，从而保证各阀焊接在一起时的整体性能。六台阀焊接在主管道上。其中，每台阀进口或出口共有三个，相邻的两台阀焊接在一起，6台阀阀体内部相通，由阀座来控制分管道的启闭。

LN8 Series Pneumatic Discharging Valve Group has steam jackets outside the valve bodies. Each valve in the group has its own jacket which benefits to testing the performance of each valve and ensuring the overall performance of the group when the valves are welded together. Each valve has three inlets or outlets. Six valves are welded together with two neighboring valves and assembled on the main pipeline. Six valves open onto each other in bodies and use trims to control the fluid in each pipeline.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN50~DN300	使用温度/Operating temperature	-29°C~+538°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300),110(ANSI 600); 欧洲体系/European standard : PN16,40,63		
流量特性/Characteristic	快开 / On/off		
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级、V级、VI级 Class IV,V, VI according to GB/T 17213.4-2005/IEC 60534-4:2006		



GL系列上展式/下展式放料阀

GL Series Upper-plug/ Lower-plug Discharging Valve

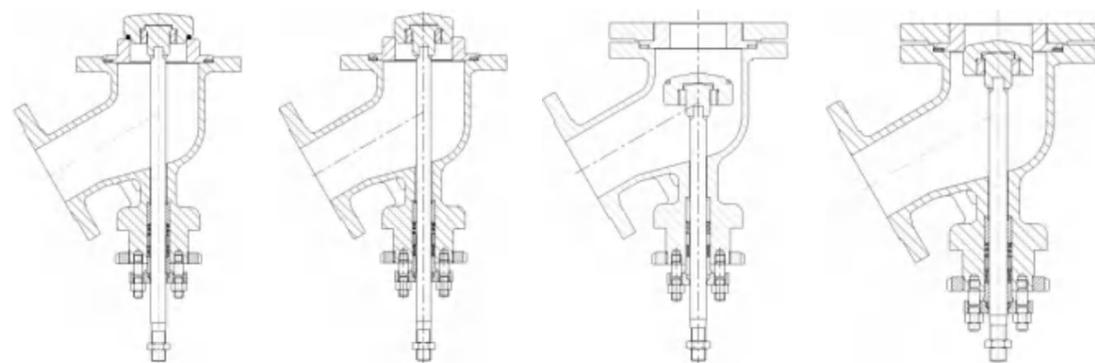


GL系列上展式/下展式放料阀是一种特殊的单座调节阀，该阀阀体采用一体式直流Y型结构，阀内腔无阻挡流道，内表面经喷砂处理，阀门无死角。可选配AM8气动薄膜执行机构、AH8气缸执行机构。广泛用于精细化工、制药等行业控制控制容易沉积或含有颗粒的流体。适用于反应釜底对安装空间苛刻的场合。

GL Series Upper-plug/ Lower-plug Discharging Valve is a special single-seated control valve. The Y-type passage is treated by abrasion blasting and there is no blind corner and block in it. It is driven by AM8 series pneumatic diaphragm actuator or AH8 series pneumatic cylinder actuator. It is widely used in industry of fine chemicals, drug manufacturing etc. with the fluid which has granules in it or is easy to deposit. It is suitable for the working condition which has little space on radial direction under the reaction kettle.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	40X50/50X80/65X80/ 80X100/100X150/150X200	使用温度/Operating temperature	软：-17℃~+200℃ 硬：-29℃~+316℃
公称压力/Nominal Pressure	美洲体系/American standard：PN20(ANSI 150); 欧洲体系/European standard：PN6,10,16		
流量特性/Characteristic	快开 / On/off		
泄漏量/Seat leakage	硬密封：符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级、V级、VI级（软密封） Class IV, V, VI(soft seal) according to GB/T 17213.4-2005/IEC 60534-4:2006		



GS系列放料球阀

GS Series Discharging Ball Valve



GS系列放料球阀是一种特殊设计的用于反应釜底放料的O型球阀。

特点：

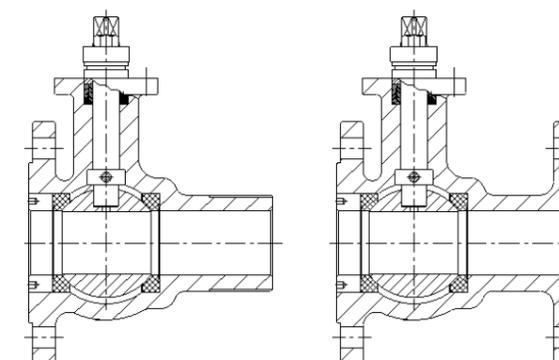
1. 倾斜式阀杆设计，实现执行机构及辅助部件与反应釜底不干涉；
2. 特殊设计，球和罐底间的距离最小，介质反应无残留；
3. 可根据要求选择特殊材料。

GS Series Discharging Ball Valve is a kind of ball valve specially designed for fluid discharging at the bottom of the reaction kettle.

- 1.The design of inclined stem leaves enough space for the actuator under reaction kettle.
- 2.The valve is also specially designed to ensure that there is no fluid remains in reaction kettle.
- 3.Special materials can be optional according to the requirements.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN40~DN200	使用温度/Operating temperature	软：-29℃~+200℃ 硬：-29℃~+316℃
公称压力/Nominal Pressure	欧洲体系/European standard：PN6,10,16		
流量特性/Characteristic	快开 / On/off		
泄漏量/Seat leakage	GB/T 13927-2008中的AA级、A级 Class AA, A according to GB/T 13927-2008		

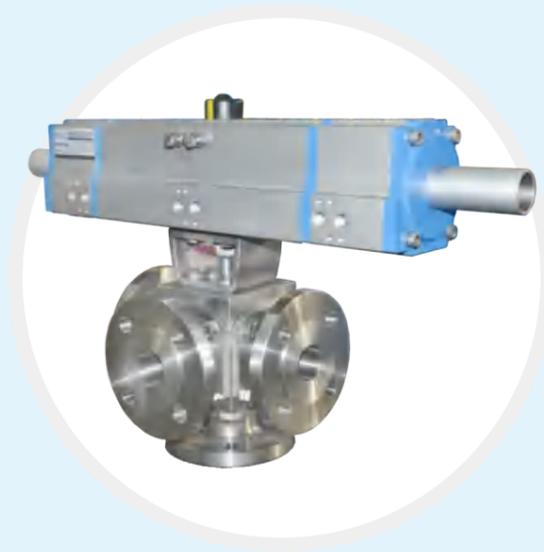


螺纹连接式
Threaded connection

法兰连接式
Flange connection

SN系列多途径球阀

SN Series Multi-way Ball Valve



SN系列多途径球阀是根据工艺参数要求要实现特殊多途径而设计的球阀，如：T型、L型、X型。特点：

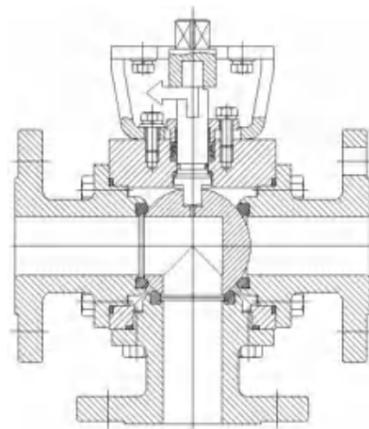
1. 球芯回转阻力小，可实现3通、4通、5通多流路特殊设计；
2. 防静电、阀杆飞出；
3. 双重填料密封；
4. 阀腔压力平衡设计

SN Series Multi-way Ball Valve is specially designed to realize multiple pathways according to the fluid condition, such as: T type, L type, X type etc. Feature:

1. Less frictional torque during operating, and can realize multiple pathways, 3 way,4 way or 5 way etc. for example.
2. Anti-static, and prevent the stem from blowing out of the body.
3. Two groups of gland packings can be optional.
4. Pressure balance design in valve chamber.

主要技术参数 / Main technical parameters

公称口径/Nominal Size	DN15~DN200	使用温度/Operating temperature	-29°C~+150°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300); 欧洲体系/European standard : PN16,25,40		
流量特性/Characteristic	快开 / On/off		
泄漏量/Seat leakage	GB/T 13927-2008中的AA级、A级 Class AA, A according to GB/T 13927-2008		



LN8系列保温夹套控制阀

LN8 Series Steam-jacket Control Valve

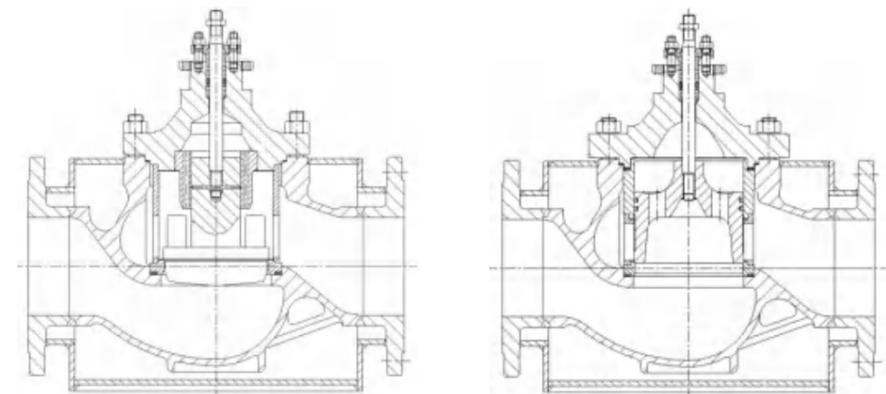


LN8系列保温夹套控制阀主要应用于需要保温的场合，可防止介质因温度降低而出现结晶或粘度增大。

LN8 Series Steam-jacket Control Valves are mainly used in the situation needing heat preservation that can prevent fluid from producing crystal or increasing viscosity as temperature decreasing.

主要技术参数 / Main technical parameters

公称口径/Nominal Size	DN50~DN300	使用温度/Operating temperature	-29°C~+538°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300),110(ANSI 600); 欧洲体系/European standard : PN16,40,63		
流量特性/Characteristic	等百分比、线性、快开 / Equal percentage, Linear, On/off		
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级、V级、VI级（快开、软密封） Class IV, V, VI according to GB/T 17213.4-2005/IEC 60534-4:2006		



SN5系列保温夹套球阀

SN5 Series Steam-jacket Ball Valve



SN5系列保温夹套球阀主要应用于需要保温的场合，可防止介质因温度降低而出现结晶或粘度增大。

SN5 Series Steam-jacket Ball Valves are mainly used in the situation needing heat preservation that can prevent fluid against producing crystal or increasing viscosity while temperature decreasing.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN25~DN300	使用温度/Operating temperature	-30°C~+150°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300); 欧洲体系/European standard : PN16,25,40		
流量特性/Characteristic	快开 / On/off		
泄漏量/Seat leakage	软密封 : GB/T 13927-2008 切断无泄漏 Soft seal: GB/T 13927-2008 No leakage 硬密封 : GB/T 13927-2008中的A级、AA级 Metal seal: Class A, AA according to GB/T 13927-2008		

高温硬密封保温夹套球阀

High Temperature Steam-jacket Metal Seated Ball Valve

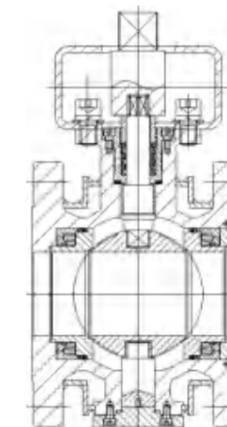


高温硬密封保温夹套球阀主要应用于反应釜连锁放料的控制。该阀为一体式带保温夹套固定式硬密封球阀。阀内件采用弹簧进行预压，使整个密封面受力均匀，并实现密封力的可调整。密封件采用平衡密封环，该密封环为单向结构，两侧装，流体流过时可产生双重密封但不是双向密封，采用平衡密封环做密封件，平衡密封环在此处的应用是一个全新的思路，能够在不同的压力下实现密封。

High Temperature Steam-jacket Metal Seated Ball Valve is mainly meet the control of discharging at the bottom of reaction still. It is integral body steam-jacket trunnion metal seal ball valve. The trims are pre-tightened by springs and the stress which can be adjusted is well distributed on the seal surface. Balance seal ring is placed in two side of the trims. The balance seal is double seal but not two-direction seal when the stress of fluid act on it since it is single direction structure. It's new concept to use balance ring in trims of this ball valve which can achieve seal under different pressure.

主要技术参数 / Main technical parameters

公称通径/Nominal Size	DN15~DN300	使用温度/Operating temperature	-45°C~+538°C
公称压力/Nominal Pressure	美洲体系/American standard : PN20(ANSI 150),50(ANSI 300),110(ANSI 600); 欧洲体系/European standard : PN16,25,40,63		
流量特性/Characteristic	快开 / On/off		
泄漏量/Seat leakage	符合GB/T 17213.4-2005/IEC 60534-4:2006 IV级、V级 Class IV, V according to GB/T 17213.4-2005/IEC 60534-4:2006		



AM8系列气动多弹簧薄膜执行机构

AM8 Series Pneumatic Multi-spring Diaphragm Actuator



AM8系列气动多弹簧薄膜执行机构采用滚动式膜片，无褶皱、不拉伸、无翻转。内部零件模块化结构，可组合成多种规格。可配侧撞手轮或顶装手轮。线性好、精度高、反应灵敏、使用寿命长；最高供气压力可达0.5MPa，输出推力大，能适应各种不同的工况需求。

AM8 series pneumatic multi-spring diaphragm actuator adopts rolling diaphragm, no fold, not stretching, reverse it. The modular structure of the internal parts, can be combined into a variety of specifications. Can match side impact handwheel or top mounted handwheel. Good linear, high precision, responsive, long service life; The supply air pressure can be up to 0.5 MPa, it can output larger thrust, and can adapt to a variety of different working condition requirements.

主要技术参数 / Main technical parameters

形式/Form	多弹簧型/Springs	尺寸/Size	270,350,470,625
作用方式/Action	正作用型：气压增加推杆下降；反作用型：气压增加推杆上升 Positive role type: air pressure increases push rod drop; Reaction type: air pressure increase putting up		
气源压力/Air pressure	(0.14~0.5) MPa	气源接头/Gas source joint	AM82,AM83,AM84:Rc1/4,AM85:Rc1/4,Rc1/2
环境温度/Ambient Temp.	标准型/standard : -10°C ~ +70°C ; 高温型/High temperature type : 0°C ~ +100°C ; 低温型/Low temperature type : -40°C ~ +40°C		



RH系列气动齿轮齿条执行机构/拨叉式执行机构

RH Series Pneumatic Piston Actuator/Scotch Type Actuator



RH系列气动齿轮齿条执行机构有以下特点：①缸体采用优质合金铝挤压成形，表面硬质阳极氧化处理，环氧聚酯喷涂；②活塞采用铸铝硬质氧化处理，安装位置对称，动作迅速；③弹簧采用组合式，方便拆卸或改变弹簧数量满足不同的力矩输出；④活塞环采用低摩擦、长寿命符合材料，维修更换方便；⑤气源接口符合NAMUR标准，可直接安装NAMUR标准的电磁阀。

RH series pneumatic piston actuator has the following features:(1)cylinder body is made of high quality aluminum alloy extrusion forming, the surface of the hard anodic oxidation treatment, epoxy polyester coating;(2)piston adopts aluminum hard oxidation treatment, installation location is symmetrical, quick;(3) spring using combined, convenient to remove or change the spring quantity meet different torque output;(4)with low friction and long life conform to piston ring material, maintenance easy to change;(5) air interface in accordance with NAMUR standard, it can be installed directly NAMUR standard solenoid valve.

主要技术参数 / Main technical parameters

工作技术条件/Working conditions	压缩空气、无腐蚀性气体和油 Compressed air, no corrosive gas and oil
压力范围/Pressure range	双作用/Double-acting : 2br~8br ; 单作用/Single-acting : 2br~8br
工作温度/Operating temperature	标准型/Standard type : -20°C ~ +80°C ; 低温型/Low temperature type : -35°C ~ +80°C ; 高温型/High temperature type : 安装室内15°C ~ +150°C
行程调整/Stroke adjustment	活塞在两端位置有±4°的可调范围 The piston position on both ends with a tunable range of plus or minus 4°
润滑/lubrication	在正常工作条件下，不需添加润滑剂 Under normal working conditions, do not need to add lubricant



智能式/电子式电动执行机构 Intelligent/Electronic Electric Actuator



电动执行机构有220V交流单相电源和380V三相交流电源两种驱动电源的机型，接受来自调节器控制信号（DC 4~20mA或DC 1~5V），实现预定往复运动的新型执行机构。本系列执行机构几乎具备了调节阀本身所要求的各种动作变换功能以及阀开度信号功能和保护功能。因此被广泛应用于电力、冶金、石化、轻工及环保等工业部门。

Electric actuators will be capable of operating on 220 volt-singlephase and 380 volt-3 phase. They receive control signals, (DC 4 ~ 20mA for regcelating, DC 1-5V for on-off), to implement reciprocating motion. They can provide not only almost every type transforming function that controlvalves required, but also all kiness of necessary opening signal functionsand protecting functions.

主要技术参数 / Main technical parameters

电源/Electricity	单相 AC220V±10%，50HZ；三相 AC380V±10%，50HZ Single-phase AC220V ± 10%, 50 HZ; Three-phase AC380V ± 10%, 50 HZ		
防护等级/Protection grade	IP65、IP67、IP68	动作型式/Action type	直动/Linear motion; 0~90°
防爆等级/Explosion-proof grade	Exd II BT4, Exd II CT4	环境温度/ Environment temperature	-20℃~70℃
动作精度/Motion accuracy	≤0.3%	死区/Dead zone	≤0.2%



智能式/机械式定位器 Intelligent/Mechanical Positioner



智能式阀门定位器采用微处理器控制，接收控制系统的模拟或数字信号控制气动控制阀，实现快速精确定位。可通过系统、计算机或手持终端设备进行组态调试，也可通过面板的按钮现场组态。LCD显示屏以及LED能显示提供阀门运行状态，为预测性维护使用阀门提供了有效手段。

Intelligent valve positioner is controlled by microprocessor, receives the control system of analog or digital signal control pneumatic control valve, achieve rapid accurate positioning. Can through the system, a computer or handheld device configuration, commissioning through on-site configuration panel button. LCD display screen and LED can display provides valve operation state, use valve provides effective means for predictive maintenance.

主要技术参数 / Main technical parameters

气源供气/Air supply	1.4~6bar(20~90psig)，当使用大容量气源选项时1.4~7bar(20~105 psig) 1.4~6bar(20~90psig), When using the large capacity air option 1.4 ~ 7 bar (20 ~ 105 psig)		
直行程范围/Linear motion range	使用标准调节杆时8~260mm(0.3~10.2in) When using the standard adjustment unit 8 ~ 260 mm (0.3 ~ 10.2 in)		
角行程范围/Rotary motion range	最高到95°，当使用可选项时能达到300° Up to 95°, when using option can reach 300°		
防护等级/Protection grade	IP65,IP66或NEMA 4X IP65,IP66 or NEMA 4X	电气等级/Electrical grade	ATEX, FM, CSA
直行程安装附件/Linear motion installation accessories	符合IEC 534 part6 (NAMUR) 和VDI/VDE 3847标准 Accrding to the IEC 534 part6 (NAMUR) and VDI/VDE 3847 standard		
角行程安装附件/Rotary motion installation accessories	符合VDI/VDE 3845和VDI/VDE 3847标准 Accrding to the VDI/VDE 3845 and VDI/VDE 3847 standard		



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