SWEK®

史威阀

苛刻工况截止阀

Globe valves applicable to harsh working conditions

- Y型（Y-Globe valves）
- T型（T-Globe valves）



-40℃~610℃

1/4"~6"

150Lb~4500Lb

网址（Web）：www.swekvalve.com

SWEK

史威阀工业阀门公司成立于1955年，总部位于美国德克萨斯州休斯敦。史威阀是阀门行业的领先制造企业，具有四个生产厂。在世界各地20多个国家和地区有史威阀的独立办公室和代理销售网络。史威阀具有丰富的、独一无二的阀门设计制造经验，其产品广泛应用于电力、石化、环境工程、采暖制冷、供水、排水工程、建筑、造船以及食品及饮料企业。

史威阀按照ANSI、ASME、API等先进标准设计制造阀门，主要产品有闸阀、截止阀、止回阀、调节阀、球阀、蝶阀、仪表阀、伺服阀等；主要零件采用WCB、WC6、WC9、CF8、CF8M、CF3、CF3M、A105、F22、WB36、F91、F92、321、316SS、316L、316H、347H等；驱动形式有手动、齿轮传动、电动、气动和液动；阀门规格从DN10～DN2000（3/8″～80″）；公称压力从1.0MPa～42.0MPa（150～4500Lb）；适用温度从-196℃～700℃。史威阀以优异的品质、合理的性价比，受到用户的普遍欢迎。

SWEK Industrial Valves Inc . was founded in 1955, is headquartered in Houston Texas. SWEK is the world's regions have their own offices and agent network. Design and production of its rich experience and unique design features of the valves, are widely used in Power plants, petrochemical, environmental engineering, heating refrige -ration, water supply and drainage engineering, buildings, shipbuilding, such as food and beverage industry.

SWEK valves manufacture standards are ANSI, ASME, API and etc. The whole products of Gate valve, Globe valve, Check valve, Control valve, Ball valve, Butterfly valve, Instrument valve ,Servo valve and etc. The main ma -terial is WCB, WC6, WC9,CF8, CF8M,CF3, CF3M,A105,F22, WB36, F91, F92,321,316SS,316L,316H,347H and etc. The drive type is manual, gear, electric, pneumatic and hydraulic. Nominal diameter is from 3/8″to 80″, nominal pressure is from 150lb to 4500lb,applicable temperature is from -196℃ to 700℃. SWEK valves received the prai -se of the users because the excellent quality and reasonable price.





高温高压Y型截止阀
High temperature and high pressure Y globe valves

性能特点　Performance characteristics

优质材料、合理结构、精湛工艺,按ASME B16.34标准设计制造。

专为苛刻工况设计制造，圆满解决介质高速冲刷、气泡内爆剥蚀而导致的内漏，使用寿命长

通过减少流体系统的泄漏和维护量，达到延长设备的安全运行所需的时间，降低运行成本，从而提高用户的经济效益

高温高压Y型截止阀用于管路中的苛刻工况，具有流阻小，耐冲刷特性，具有密封好、寿命长的优点，根据不同工况，采用碳素钢、合金钢、不锈钢制作，受到用户的赞许和信赖。

The valve has high quality materials, reasonable structure and exquisite craft. The valve is especially designed and manufactured for harsh working conditions, it can solve the internal leakage caused by the high speed scouring of the medium and implosion and denudation of the bubble. The valve has very long working life. The standard is ASME B16.34.

The valve can reduce the leakage and the maintenance of the flow system, thus the safe running time of the equipment is extended, and the running cost is reduced, the economic benefits of the users is improved.

The valve can be used in the harsh working conditions of the pipeline. It has small flow resistance, erosion characteristics, good sea -ling and long service life. The material of the valve is Carbon steel, Alloy steel and Stainless steel according to different conditions. The valve received praise and trust of the users.



技术指标　Technical indicators

适用温度：	碳素钢	−50℃ ~425℃	Applicable temperature：	Carbon steel	−50℃ ~425℃
	合金钢	−50℃ ~640℃		Alloy steel	−50℃ ~640℃
	不锈钢	−50℃ ~700℃		Stainless steel	−50℃ ~700℃
最高压力：4500Lb			Max pressure： 4500Lb		

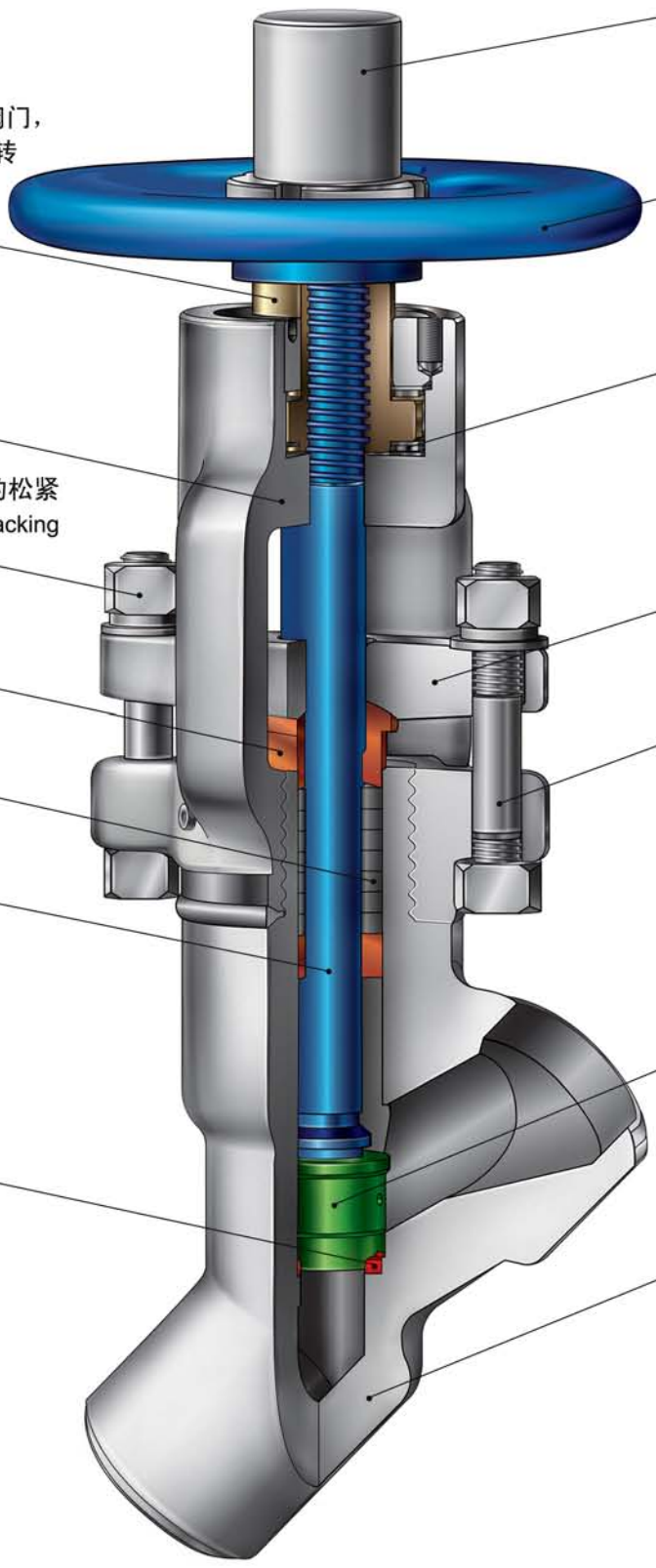
适用范围

给水泵再循环系统阀门（最小流量阀）
主蒸汽管道各疏、放水阀门
除氧器水位阀门
锅炉定排系统阀门
再热器减温水阀门
直流炉水分离器疏水阀门
主给水、锅炉排放水系统阀门
给水泵暖泵系统阀门
高加事故放水系统阀门
凝结水再循环阀门
锅炉连排系统阀门
锅炉事故放水阀门
锅炉吹灰器减压用阀门
其他大压差易汽化系统阀门

Application

- Feed pump recycling system valve (smallest flow valve)
- Feed pump warm pump system valve
- The main steam pipe draining valve
- High temperature heater accident drainage system valve
- The water level valve of the instrument eliminating the oxygen
- The valve used to circulate the condensing water again
- Boiler regular drain-down system valve
- Boiler continuous drain-down system valve
- The re-heater reduces the lukewarm water valve
- If boiler have accident, the valve used to turn on the water
- Direct-current ashes separator draining valve
- The valve used to reduce the pressure of the boiler soot blower
- Main feed water system , boiler drain-down system valve
- Other big differential pressure easy to vaporize system valve

剖视图 Cutaway view



防尘帽
Dust cap

圆手柄 力矩大
Round handle large torque

轴承装置 与阀杆螺母配合实现阀杆无旋转升降
Bearing combined with the stem nut to help the stem move up and down directly

压板
Plate

螺栓
Bolt

Stellite锥型阀瓣
耐磨抗冲刷性好
Stellite cone petal
good wear resistance and anti-erosion resistance

模锻阀体 密度大、承压高
Forged body large density and high pressure capability

阀杆螺母 与阀杆配合启闭阀门，与轴承配合，实现阀杆升降不旋转
Stem nut to open and close the valve together with the stem,help the stem to move up and down directly together with the bearing.

锻造支架 密度大、强度高
Forged support large density and high strength

调节螺母 用于调整填料函的松紧
Adjustment nut to adjust the packing

上填料垫
Upper packing gasket

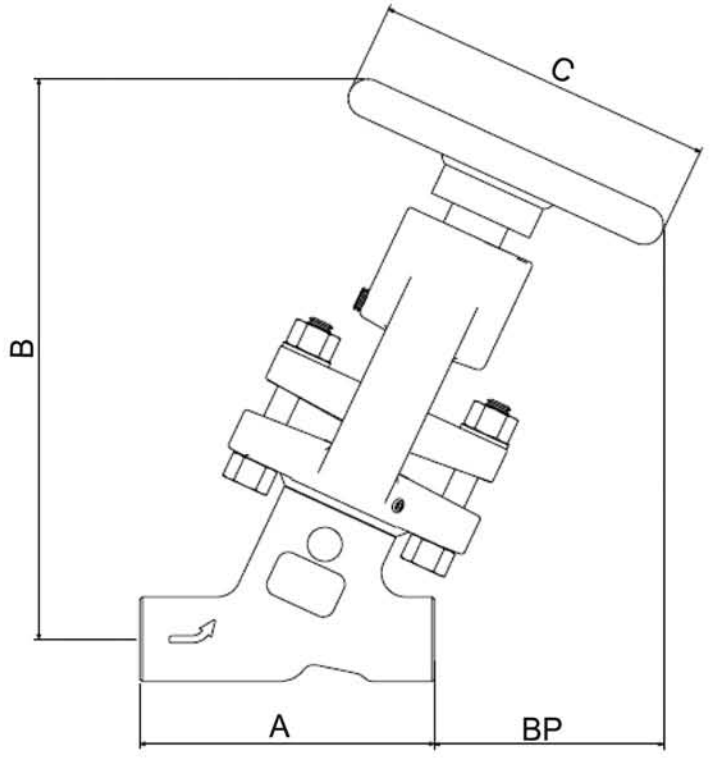
优质填料
Excellent packing

阀杆 精磨后经防腐处理
Stem treated with preservati-ves after fine grinding

Stellite硬质合金阀座 耐磨抗冲刷，与锥瓣配合，密封性好
Stellite hard alloy seat good wear resistance,anti-erosion resis-tance and good sealing performa-nce with the cone petal

尺寸表 Dimensions

通径 Diameter	结构长度A structure length	中心高B Center high	手柄直径C Handwheel diameter	重量Kg Weight
DN10/3/8″	120	250	140	5.3
DN15/1/2″	120	250	140	5.6
DN20/3/4″	135	280	140	5.6
DN25/1″	150	380	200	8.5
DN32/1 1/4″	150	380	200	8.3
DN40/1 1/2″	180	430	250	14
DN50/2″	195	485	320	27
DN65/2 1/2″	240	550	320	35
DN80/3″	270	640	380	53
DN100/4″	290	690	380	65



材质表 Material

类别 Category / 部件 Component	F91	F92	F316	F321	F22	WB36	F316H	F347H
阀体 Body	F91	F92	F316	F321	F22	WB36	F316H	F347H
阀座 Seat	司太立 STL	司太立 STL	司太立 STL	司太立 STL	司太立 STL	司太立 STL	司太立 STL	司太立 STL
阀瓣 Petal	司太立 STL	司太立 STL	司太立 STL	司太立 STL	司太立 STL	司太立 STL	司太立 STL	司太立 STL
阀杆 Stem	F91	F92	F316	F321	F22	WB36	F316H	F347H
支架 Supporting	F91	F92	F316	F321	F22	WB36	F316H	F347H
填料 Filler	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite
手轮 Handwheel	冲压 Stamping	冲压 Stamping	冲压 Stamping	冲压 Stamping	冲压 Stamping	冲压 Stamping	冲压 Stamping	冲压 Stamping

性能特点 Performance characteristics

1、阀体、支架均锻造后固融处理，结构紧密无裂痕，耐高温高压效果优越；

2、阀座堆焊硬质合金司太立6号，高温硬度达50HRC以上；

3、阀杆锻造后取得了良好的抗拉强度和屈服强度，承受高温高压性能优越；

4、阀瓣为司太立8号整体锻制而成，高温硬度达HRC58以上，与阀座形成了合适的硬度差，互相配合后具有良好的抗冲刷、抗气蚀性能。

5、阀体内置阀杆导向座，阀门长期反复开关时，阀瓣回座率达100%，保持了良好的密封性能；

6、支架上端置阀杆直升降装置，阀门开闭时，阀杆的无旋转直升降运动不仅减少了对填料的磨损，而且启闭力小，手感轻松；

7、致密和回弹性优良的柔性石墨填料，确保阀门不外漏。

1. The body and supporting are all solid melting treated after forged. The structure is compact without any crack. High temperature and high pressure resistant performance is excellent.

2. The seat is built-welded with hard alloy steel STL 6, the hardness is more than 50HRC.

3. The stem has good tensile strength and yield strength after forged, High temperature and high pressure resistant performance is excellent.

4. The petal is integrally forged by STL 8, the hardness is more than 58HRC, it has suitable hardness difference with the seat.

5. There is valve stem guide seat in the body, after the valve is opened and closed repeatedly for a long time, the return rate of the petal is 100%. The sealing performance is good.

6. Stem straight lifting device is on the top of the supporting, when the valve is opened and closed, non rotating lifting movement of the stem can reduce the wear of the filler. The opening and closing force of the valve is small.

www.swekvalve.com

7. Flexible graphite filler is compact and its elastic resilience is excellent, this can guarantee the vale has no external leakage.

气动高温高压Y型截止阀

Pneumatic high temperature and high pressure Y globe valves

阀门的结构、材质、尺寸、性能与手动一致

除标准配置外，也可根据用户需要选配不同品牌的气动执行机构

标准配置：过滤减压阀、行程开关、电磁阀

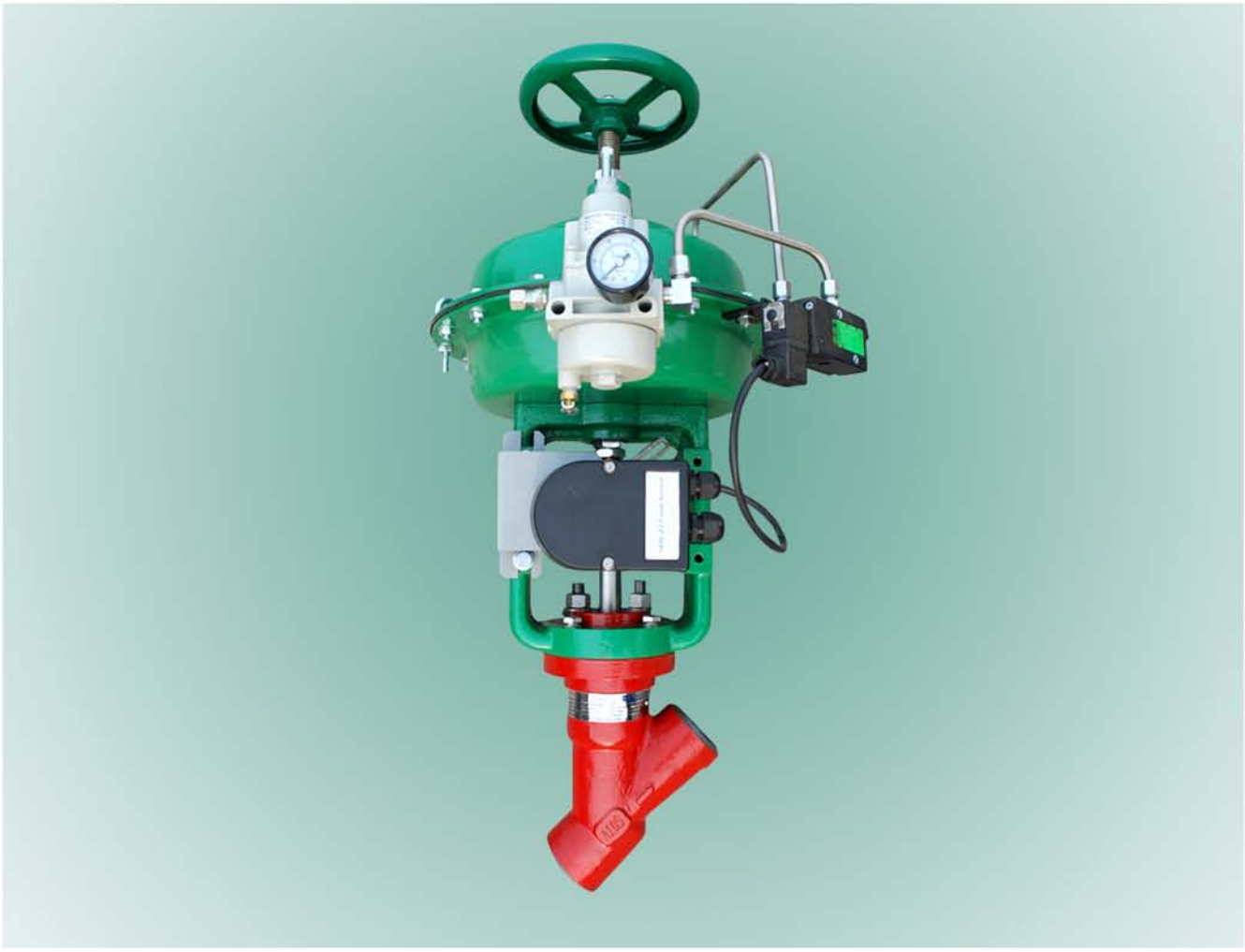
可实现阀门的快开、快闭

The structure, material, dimensions and performance of the pneumatic anti-erosion high pressure difference regulating valves is according with the manual valves.

In addition to the standard configurations,other brands of pneumatic actuators can be used according to the need of the user.

Standard configuration：Filtering pressure reducing valve,Trip switch,Solenoid valve

Fast opening and closing of the valve can be achieved



电动高温高压Y型截止阀
Electric high temperature and high pressure Y globe valves

阀门的结构、材质、尺寸、性能与手动一致

除标准配置外，也可根据用户需要选配不同品牌的电动执行机构

The structure, material, dimensions and performance of the electric anti-erosion high pressure difference regulating valves is according with the manual valves.

In addition to the standard configurations,other brands of electric actuators can be used according to the need of the user.



安装维护说明

1、产品出厂时已经严格检验，请勿解体，可打光谱，可试压；

2、阀门尽可能按阀杆垂直水平面安装，如需其他方法安装，请说明；

3、安装时应使介质流向与阀体所示箭头方向一致，切勿装反；

4、第一次使用时，须全开阀门，对阀门及管道进行清洗。调整压板螺母，确保填料处于良好密封状态；

5、运行中，当工况温度变化较大（如停机维修）时，检查并旋紧压板螺母，压紧填料。以防阀杆处外漏。

Installment and maintenance instruction

1. Our valves have been examined strictly when leaving the plant, please do not disintegrate. You may hit the spectrum and carry on the pressure test.

2. Along the valve stem vertical horizontal plane to install the valve as far as possible, if you need other installment, please explain.

3. When installing the valve, you should cause the medium to flow consistent with the arrow direction, do not install instead.

4. When installing the valve, please open the valve completely, clean the valve and the pipeline. You should tighten the stem nut. This can guarantee the good seal of the padding.

5. In the working time, if the situation temperature changes greatly, please check and tighten the clamp nut, compact the padding, thus the outside leakage from the valve stem will be prevented.



性能特点　Performance characteristics

优质材料、合理结构、精湛工艺,按ASME B16.34标准设计制造。

专为苛刻工况设计制造，圆满解决介质高速冲刷、气泡内爆剥蚀而导致的内漏，使用寿命长

通过减少流体系统的泄漏和维护量，达到延长设备的安全运行所需的时间，降低运行成本，从而提高用户的经济效益

高温高压T型截止阀用于管路中的苛刻工况，具有流阻小，耐冲刷特性，具有密封好、寿命长的优点，根据不同工况，采用碳素钢、合金钢、不锈钢制作，受到用户的赞许和信赖。

The valve has high quality materials, reasonable structure and exquisite craft. The valve is especially designed and manufactured for harsh working conditions, it can solve the internal leakage caused by the high speed scouring of the medium and implosion and denudation of the bubble. The valve has very long working life. The standard is ASME B16.34.

The valve can reduce the leakage and the maintenance of the flow system, thus the safe running time of the equipment is extended, and the running cost is reduced, the economic benefits of the users is improved.

The valve can be used in the harsh working conditions of the pipeline. It has small flow resistance, erosion characteristics, good sea -ling and long service life. The material of the valve is Carbon steel, Alloy steel and Stainless steel according to different conditions. The valve received praise and trust of the users.



钢球阀瓣、无旋转阀杆截止阀
-高温高压T型截止阀
Steel ball,non rotating stem globe valve
-High temperature and high pressure T globe valve

技术指标　Technical indicators

介质温度：　-50℃~610℃

公称通径：DN10~DN65

适用介质：水、蒸汽、油品及各种腐蚀介质

最高压力：4500Lb

Medium temperature:　-50℃~610℃

Nominal diameter:　DN10~DN65

Applicable medium: water, steam, oil, and corrosion medium

Max pressure:　4500Lb

适用范围

给水泵再循环系统阀门（最小流量阀）

主蒸汽管道各疏、放水阀门

除氧器水位阀门

锅炉定排系统阀门

再热器减温水阀门

直流炉水分离器疏水阀门

主给水、锅炉排放水系统阀门

给水泵暖泵系统阀门

高加事故放水系统阀门

凝结水再循环阀门

锅炉连排系统阀门

锅炉事故放水阀门

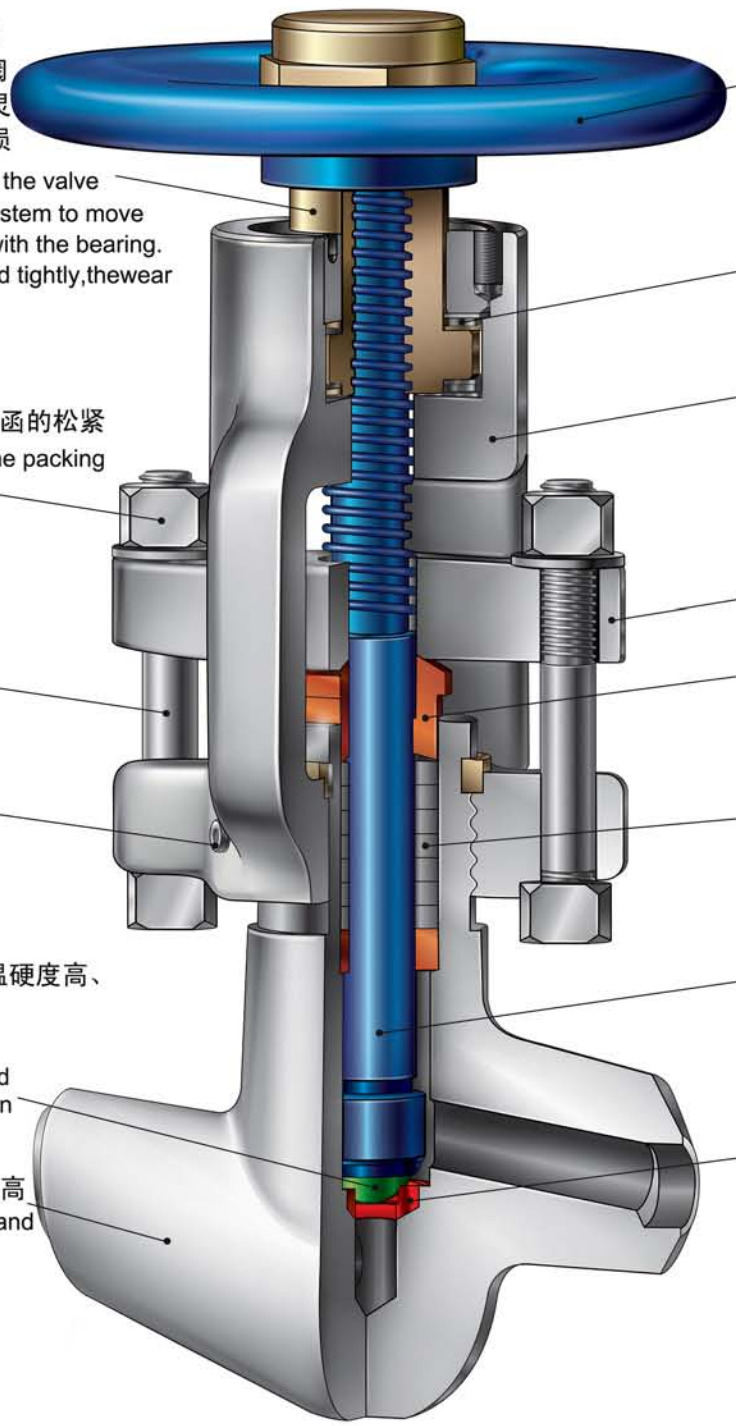
锅炉吹灰器减压用阀门

其他大压差易汽化系统阀门

Application

- Feed pump recycling system valve (smallest flow valve)
- Feed pump warm pump system valve
- The main steam pipe draining valve
- High temperature heater accident drainage system valve
- The water level valve of the instrument eliminating the oxygen
- The valve used to circulate the condensing water again
- Boiler regular drain-down system valve
- Boiler continuous drain-down system valve
- The re-heater reduces the lukewarm water valve
- If boiler have accident, the valve used to turn on the water
- Direct-current ashes separator draining valve
- The valve used to reduce the pressure of the boiler soot blower
- Main feed water system , boiler drain-down system valve
- Other big differential pressure easy to vaporize system valve

剖视图 Cutaway view



阀杆螺母 与阀杆配合启闭阀门，与轴承配合，实现阀杆升降不旋转，使阀门启闭灵活方便，并减小对填料的磨损
Stem nut to open and close the valve together with the stem,help the stem to move up and down directly together with the bearing. The valve can be opened closed tightly,thewear of the packing can be reduced.

调节螺母 用于调整填料函的松紧
Adjustment nut to adjust the packing

螺栓
Bolt

止定螺丝
Fixed screw

Co-Cr-W钢球阀瓣 高温硬度高、耐磨、抗介质冲刷性能好
Co-Cr-W steel ball petal high temperature hardness,good wear resistance and anti-erosion resistance

模锻阀体 密度大、承压高
Forged body large density and high pressure capability

圆手柄 力矩大
Round handle large torque

轴承装置 与阀杆螺母配合实现阀杆无旋转升降
Bearing combined with the stem nut to help the stem move up and down directly

锻造支架 密度大、强度高
Forged support large density and high strength

压板
Plate

上填料垫
Upper packing gasket

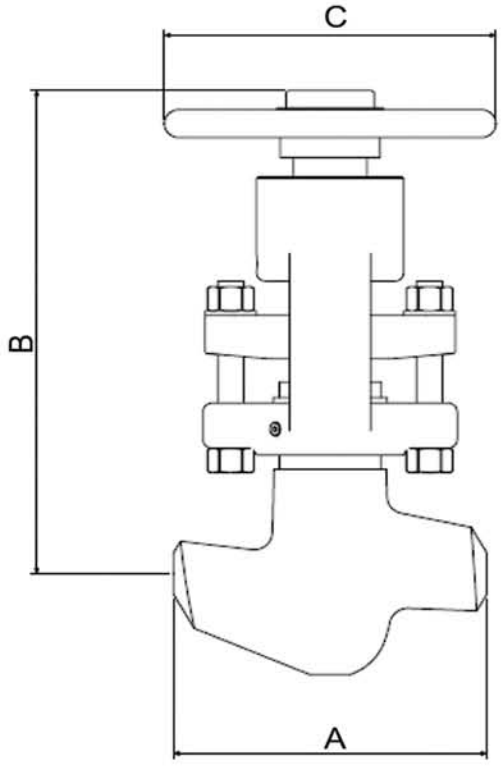
优质填料
Excellent packing

阀杆 精磨后经防腐处理
Stem treated with preservati -ves after fine grinding

Stellite硬质合金阀座 耐磨抗冲刷，与球瓣配合，密封性好
Stellite hard alloy seat good wear resistance,anti-erosion resis -tance and good sealing performa -nce with the ball petal

尺寸表 Dimensions

通径 Diameter	结构长度A structure length	中心高B Center high	手柄长度C Handwheel length	重量Kg Weight
DN10 / 3/8″	120	245	180	5.3
DN15 / 1/2″	120	245	180	6.0
DN20 / 3/4″	170	350	180	9.7
DN25 / 1″	170	350	180	9.7
DN32 / 1 1/4″	170	300	180	10.4
DN40 / 1 1/2″	230	455	250	26.5
DN50 / 2″	250	490	250	32
DN65 / 2 1/2″	320	560	300	45



材质表 Material

类别 Category / 部件 Component	A105	F22	WB36	F91	F92	F316	F316H	F347H
阀体 Body	A105	F22	WB36	F91	F92	F316	F316H	F347H
阀座 Seat	司太立 STL	司太立 STL	司太立 STL	司太立 STL	司太立 STL	司太立 STL	司太立 STL	司太立 STL
阀瓣 Petal	Co-Cr-W 钢球 Co-Cr-W Steel ball	Co-Cr-W 钢球 Co-Cr-W Steel ball	Co-Cr-W 钢球 Co-Cr-W Steel ball	Co-Cr-W 钢球 Co-Cr-W Steel ball	Co-Cr-W 钢球 Co-Cr-W Steel ball	Co-Cr-W 钢球 Co-Cr-W Steel ball	Co-Cr-W 钢球 Co-Cr-W Steel ball	Co-Cr-W 钢球 Co-Cr-W Steel ball
阀杆 Stem	304	316	316	316	316	316	316	316
支架 Supporting	A105	F22	WB36	F91	F92	F316	F316H	F347H
填料 Filler	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite
手轮 Handwheel	冲压 Stamping	冲压 Stamping	冲压 Stamping	冲压 Stamping	冲压 Stamping	冲压 Stamping	冲压 Stamping	冲压 Stamping

性能特点：Performance characteristics

专利设计无旋转阀杆，使阀门在启闭过程中只作单一的上下运动，减小了力矩，减轻了一般阀门启闭过程中阀杆旋转运动对填料的磨损，延长了更换周期，解决了阀杆处的外漏；阀门按ASME B16.34标准设计制造。

专业设计的钢球阀瓣，采用特殊工艺制作而成，区别于普通锥型阀瓣，消除了介质流动在阀瓣顶端产生倒流形成的涡流，减小了介质的流阻力，减轻了介质对阀瓣的冲刷，一体化硬质合金密封面，大大提高了抗冲刷、抗汽蚀的能力，独特的悬挂式设计、使密封性能更稳定；

阀座采用钴基硬质合金堆焊而成，高温下硬度高且稳定。使阀瓣、阀座的性能得以统一，卓有成效地提高了阀门的整体抗汽蚀、抗冲刷能力，延长了使用寿命。

Non-rotating valve stem designed with patent, thus the valve moves only up and down when opened and closed. This can reduce the torque and the wear of the packing when the stem rotates in the general valve. We can extend the replacement cycle, and resolve the stem leakage. The valve is designed and manufactured according to ASME B16.34.

The valve petal is designed technically, and produced in a special process. The petal has a spherical design, different from the ordinary conical valve. We can eliminate the vortex produced by the backflow when the medium flows to the top of the valve petal, and reduce the flow resistance of the medium. We can also reduce the erosion of the petal by the medium. The valve has the Carbide sealing surface. This can enhance the anti-erosion and the anti-cavitation ability of valve greatly. Unique suspension design, so that the valve has a more stable seal performance.

The valve seat build-up welded with co-based cemented carbide. Its hardness is high and stable in the high temperature. So the performance of petal and seat is consistent. This can enhance the anti-erosion and the anti-cavitation ability of the wh -ole valve fruitfully, and extend the valve's service life.

气动钢球阀瓣、无旋转阀杆截止阀
-高温高压T型截止阀
Pneumatic steel ball,non rotating stem globe valve
-High temperature and high pressure T globe valve

阀门的结构、材质、尺寸、性能与手动一致

除标准配置外，也可根据用户需要选配不同品牌的气动执行机构

标准配置：过滤减压阀、行程开关、电磁阀

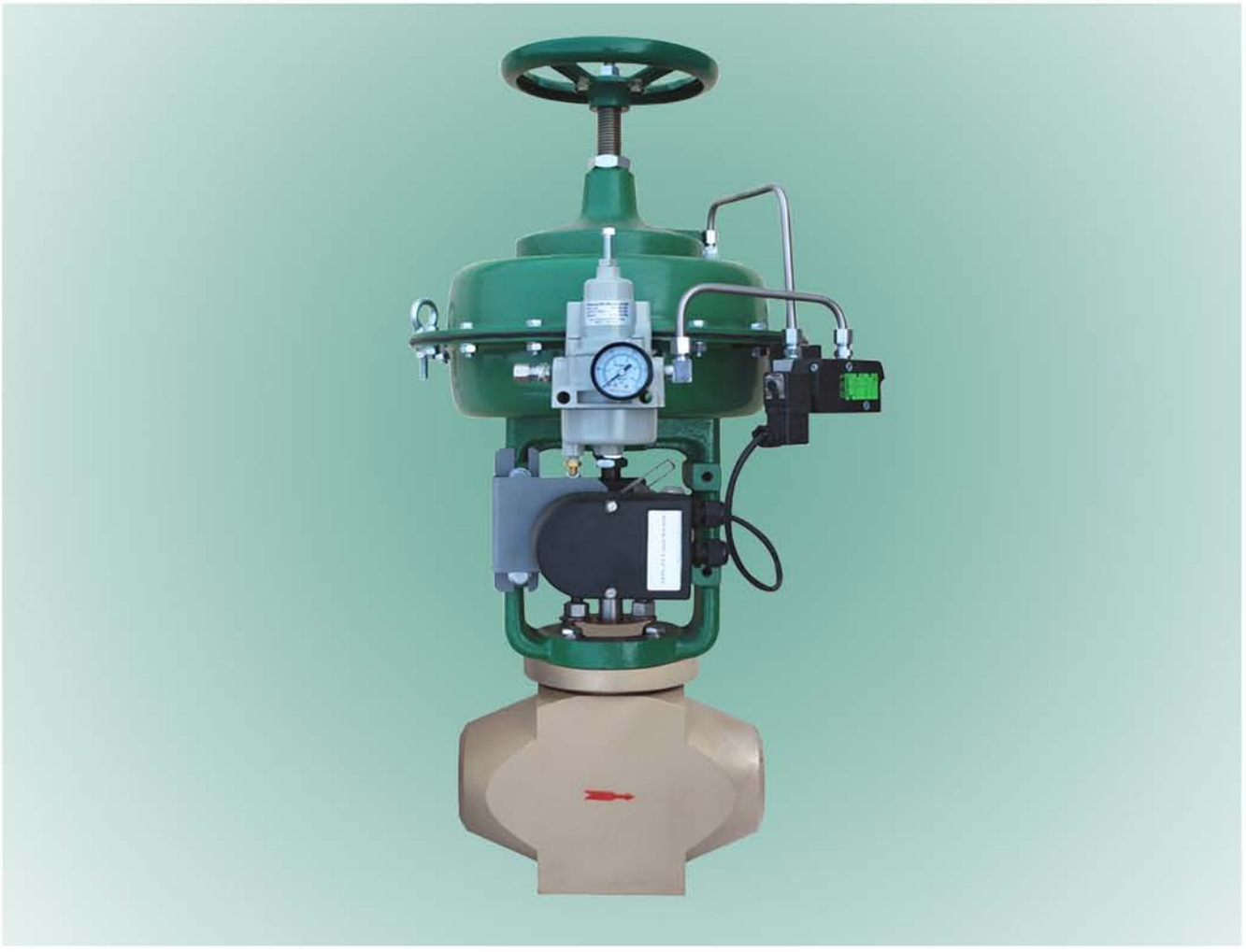
可实现阀门的快开、快闭

The structure, material, dimensions and performance of the pneumatic anti-erosion high pressure difference regulating valves is according with the manual valves.

In addition to the standard configurations,other brands of pneumatic actuators can be used according to the need of the user.

Standard configuration：Filtering pressure reducing valve,Trip switch,Solenoid valve

Fast opening and closing of the valve can be achieved



阀门的结构、材质、尺寸、性能与手动一致

除标准配置外，也可根据用户需要选配不同品牌的电动执行机构

The structure, material, dimensions and performance of the electric anti-erosion high pressure difference regulating valves is according with the manual valves.

In addition to the standard configurations,other brands of electric actuators can be used according to the need of the user.



安装维护说明：

1、产品出厂时已经严格检验，请勿解体，可打光谱，可试压；

2、阀门尽可能按阀杆垂直水平面安装，如需其他方法安装，请说明；

3、安装时应使介质流向与阀体所示箭头方向一致，切勿装反；

4、第一次使用时，须全开阀门，对阀门及管道进行清洗。调整压板螺母，确保填料处于良好密封状态；

5、运行中，当工况温度变化较大（如停机维修）时，检查并旋紧压板螺母，压紧填料。以防阀杆处外漏。

Installment and maintenance instruction

1. Our valves have been examined strictly when leaving the plant, please do not disintegrate. You may hit the spectrum and carry on the pressure test.

2. Along the valve stem vertical horizontal plane to install the valve as far as possible, if you need other installment, please explain.

3. When installing the valve, you should cause the medium to flow consistent with the arrow direction, do not install instead.

4. When installing the valve, please open the valve completely, clean the valve and the pipeline. You should tighten the stem nut. This can guarantee the good seal of the padding.

5. In the working time, if the situation temperature changes greatly, please check and tighten the clamp nut, compact the padding, thus the outside leakage from the valve stem will be prevented.



SWEK® 史威阀

苛刻工况截止阀型号释意

Model interpretation of globe valves applicable to harsh working conditions



通 径 Nominal diameter	
3/8″	10
1/2″	15
3/4″	20
1″	25
1 1/4″	32
1 1/2″	40
2″	50
2 1/2″	65
3″	80
4″	100

阀门类型 Valve type	
GNY	截 Y型无 Y Globe Valve
GNT	截 T型无 T Globe Valve
GB	截 波纹管 Bellows
GY	截 Y型旋 Y Globe Valve
GT	截 T型旋 T Globe Valve

注：凡阀门为角式连接方式，在该阀门类型后加缀字母A，

Note:The connection of the valve is angel type,add A after the valve type.

阀门接口方式 Interface mode	
4	对 焊 Butt-welded
5	承插焊 Socket-welded
6	法 兰 Flanged

阀 座 Seat	
W	本 体 Body
H	合 金 Alloy steel
A	硬质合金 Hard alloy
S	不锈钢 Stainless steel
B	巴氏合金 Babbitt alloy

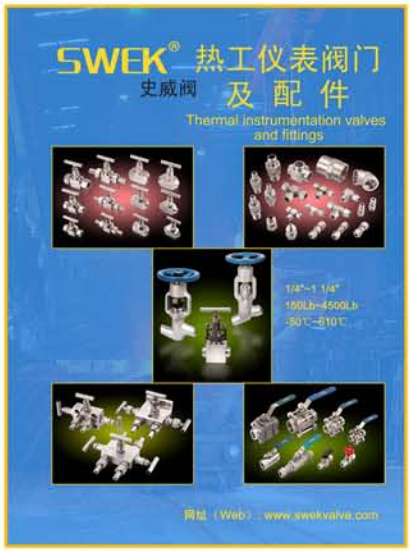
阀 瓣 Petal	
2	合金球 Alloy ball
3	合金锥 Alloy cone
5	调 节 Regulating
8	双相钢 Double phase steel
9	巴氏合金 Babbitt alloy

驱动方式 Drive mode	
H	手 轮 Handwheel
P	气 动 Pneumatic
E	电 动 Electric
H	液 动 Hydraulic

压力值 Pressure	
2	150lb
3	300lb
6	600lb
9	900lb
15	1500lb
25	2500lb
45	4500lb

阀体材质 Body material	
F	F22
K	F11
B	F91
W	F92
D	WB36
E	F304
S	F316
G	WCB
H	WC9
N	F316H
P	F347H
Q	F321
A	A105
R	F316L
T	WC6
Y	CF8
Z	CF8M



















Distributor（经销商）：