SWEK® 热工仪表阀门及配件

史威阀

Thermal instrumentation valves and fittings







1/4"~1 1/4"

150Lb~4500Lb

-50℃~610℃





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.





执行标准 ASMI B16.34、合理结构、精湛工艺

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 ASMI 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.

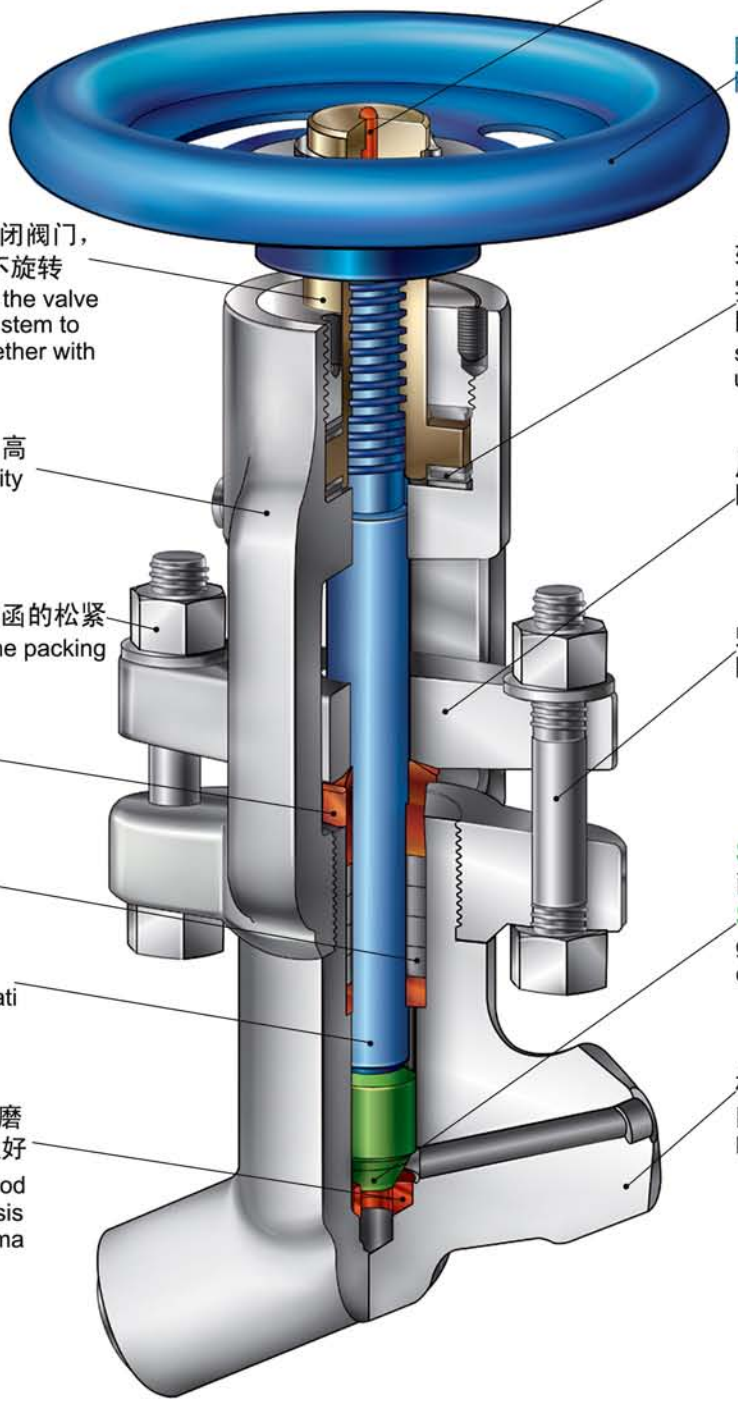
The valve can be used in the harsh working conditions of the pipeline. It has small flow resistance, erosion characteristics, good sea -ling and long service life. The material of the valve is Carbon steel, Alloy steel and Stainless steel according to different conditions. The valve received praise and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

剖视图 Cutaway view



启闭度指示杆
Open and close position indication rod

圆手柄 力矩大
Round handle large torque

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

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

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.

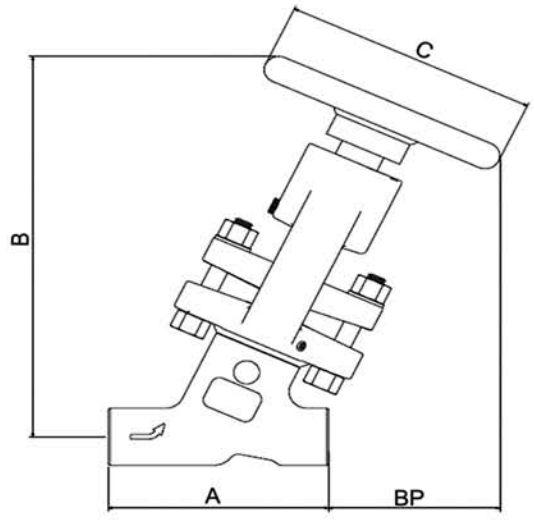
5. There is valve stem guide seat in the body, after the valve is opened and closed repeatedly for a long time, the return rate of the petal is 100%. The sealing performance is good.

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.

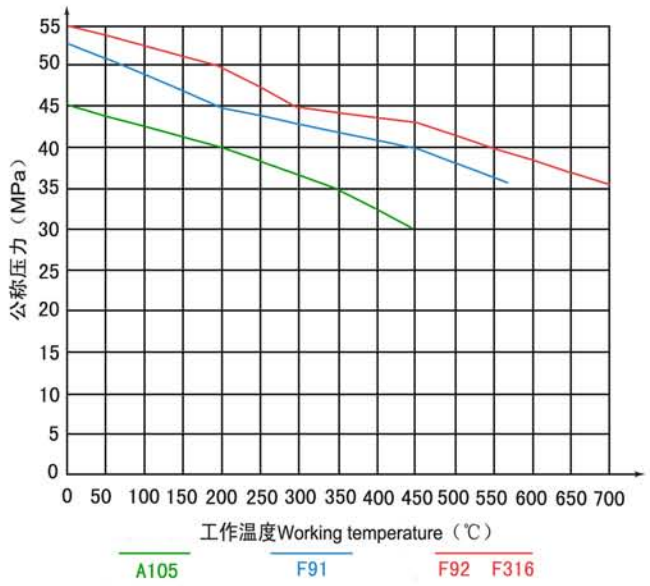
7. Flexible graphite filler is compact and its elastic resilience is excellent, this can guarantee the vale has no external leakage.

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



温压曲线图 Temperature and pressure curves



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 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

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

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；

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。

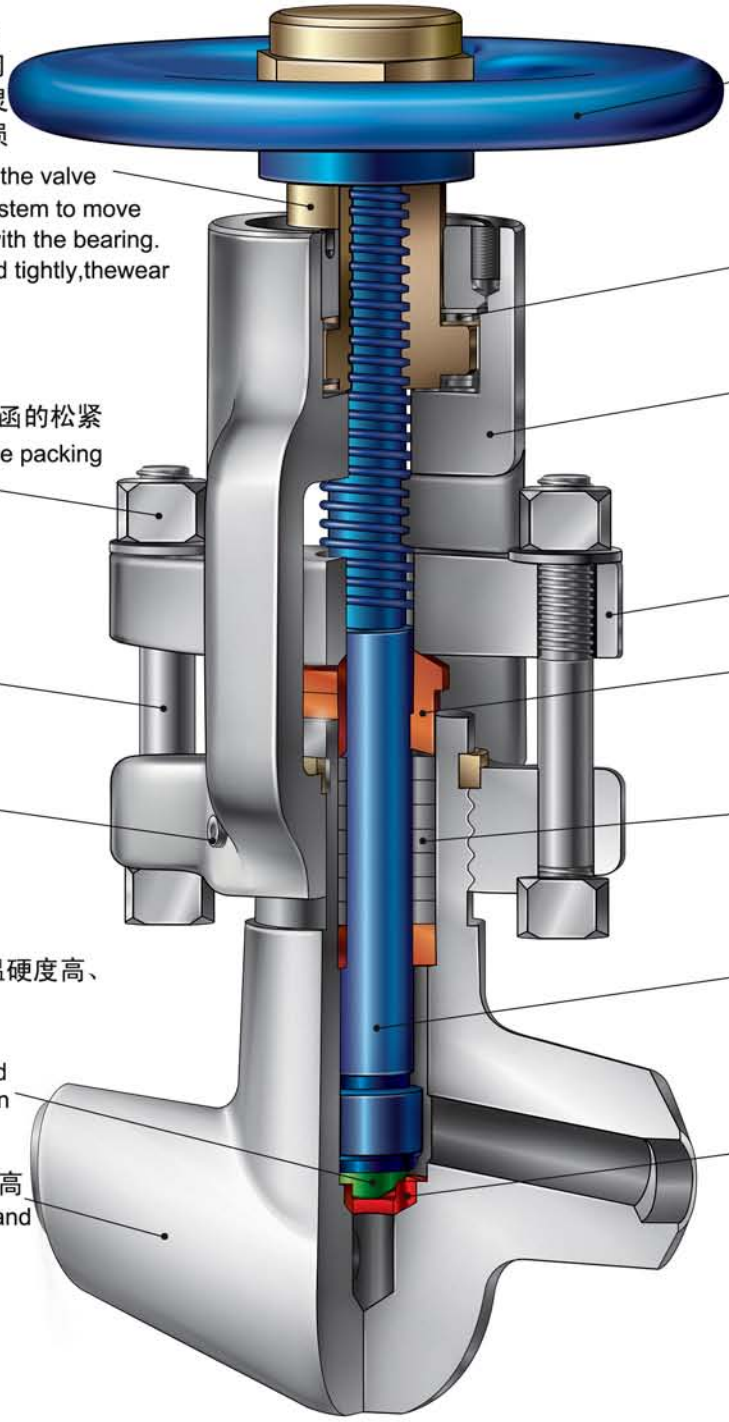
Non-rotating valve stem designed with patent, thus the valve moves only up and down when opened and closed. This can reduce the torque and the wear of the packing when the stem rotates in the general valve. We can extend the replacement cycle, and resolve the stem leakage.

The valve 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.



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

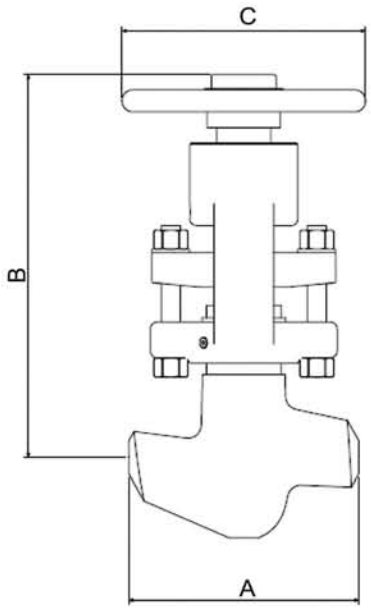
技术指标 Technical indicators

介质温度： -50℃~640℃
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
执行标准：ASMI B16.34

Medium temperature: -50℃~640℃
Nominal diameter: DN10~DN65
Applicable medium: water, steam, oil, and corrosion medium
Max pressure： 4500Lb
Standard: ASMI B16.34

尺寸表 Dimensions

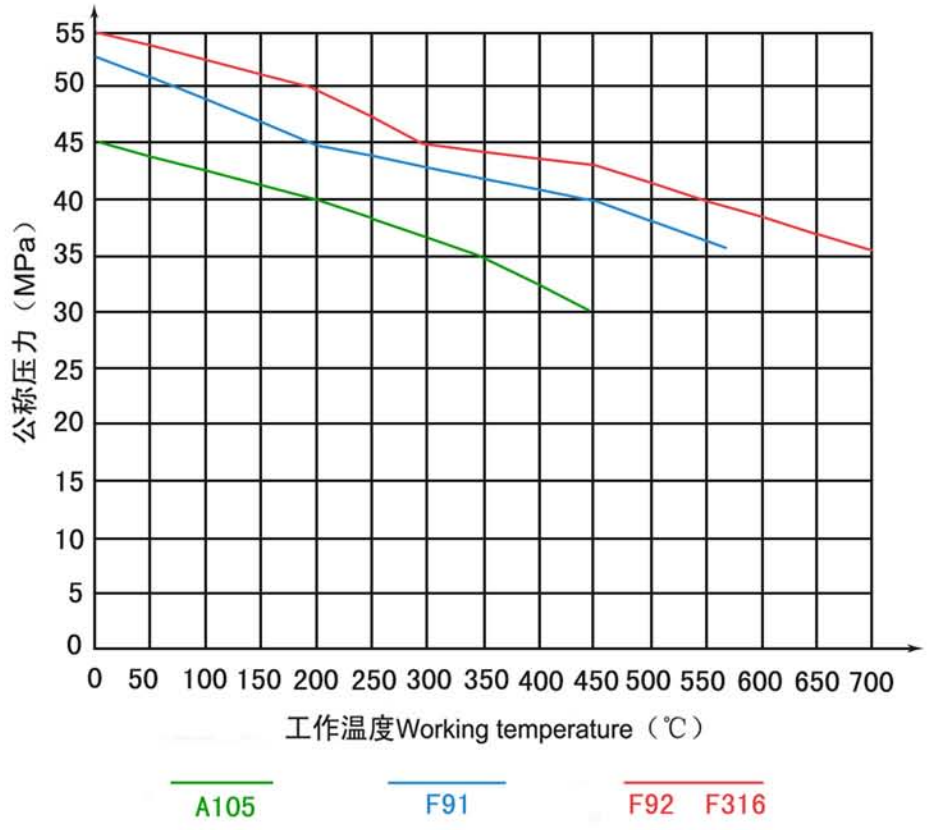
通径 Diameter	结构长度A structure length	中心高B Center high	手柄长度C Handwheel length	重量Kg Weight
DN10 / 3/8″	120	245	180	5.3
DN15 / 1/2″	120	245	180	6.8
DN20 / 3/4″	170	350	180	9.7
DN25 / 1″	170	350	180	9.7
DN32 / 1 1/4″	170	300	180	10.4



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

温压曲线图 Temperature and pressure curves



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:

1、 优质锻件并经固融处理的阀体，确保无内外裂纹。

2、 阀座堆焊钴基硬质合金，极大地提高了高温硬度和抗介质冲蚀能力。

3、 阀瓣采用钴铬钨钢球，具有很高的高温硬度，使其抗介质冲蚀能力大大优于普通针型阀。

4、 经锻造的阀杆，柔性和强度不同一般，滚压加工的螺纹位于填料之上，避免了与介质接触，光杆部位经精磨处理，不仅与填料紧密接触，保证了密封无外漏，而且减少了开启力矩，阀门启闭时灵活自如。

5、 独特设计的中口金属密封垫，经特殊工艺调质处理，确保高温高压下的良好密封。

6、 致密性优良的柔性石墨填料，确保了高温高压下无外漏。

7、执行标准：ASMI B16.34

1. The valve body has quality forging and after melts processing firmly. This can guarantee that does not have the inside and outside cracks.

2. The valve seat built-up welding cobalt base hard alloy, this can enhance the high temperature degree of hardness and anti-medium eroding ability enormously.

3. The valve petal uses the cobalt chrome tungsten steel ball. It has the very high high temperature degree of hardness. This can cause its anti-medium eroding ability to surpass the ordinary needle valve.

4. The valve stem is forged, its flexibility and intensity different general. The trundle processed thread located at padding above, this can avoid contact with the medium. The polished rod spot is processed by correct gridding. This can guarantee the close contact with the padding. The valve has no outside leaks. This design can also reduce the opening moment of force and the valve opens shuts time nimble freely.

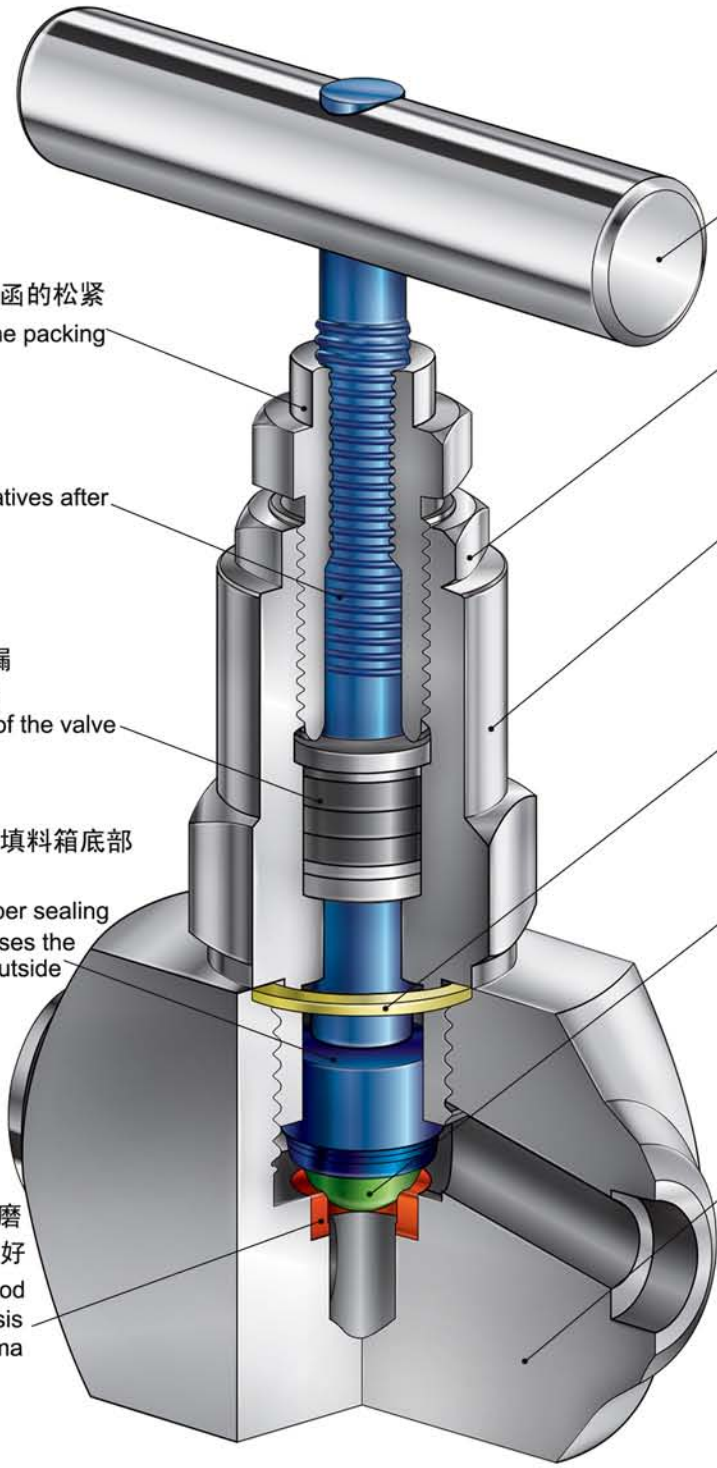
5. The unique design mouth metal gasket is manufactured by special craft quenching treatment. This can guarantee the good seal in the high temperature and high pressure.

6. The compact fine flexible graphite padding, has guaranteed the valve has not outside leaks in the high temperature high pressure.

7. Standard: ASMI B16.34



剖视图 Cutaway view



不锈钢圆手柄 美观好用
Stainless steel round handle
beautiful and easy to use

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

锁紧螺母 锁定阀杆螺母
Locking nut to lock the stem nut

阀杆 精磨后经防腐处理
Stem treated with preservatives after fine grinding

填料箱 放置填料
Stuffing box placing filler

优质柔性石墨 防止外漏
Excellent flexible graphite
to prevent the outside leakage of the valve

中口垫圈 精细加工
Mouth washer fine processing

上密封圈 阀全开后，与填料箱底部形成密封副，防止阀外漏
Upper sealing ring the upper sealing ring and the stuffing box composes the second sealing,to prevent the outside leakage of the valve

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

锻造阀体 密度大、承压高
Forged body large density and high pressure capability

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

技术指标：

介质温度：50℃-650℃

公称压力：10Mpa-46Mpa

工作压力：10Mpa-28Mpa

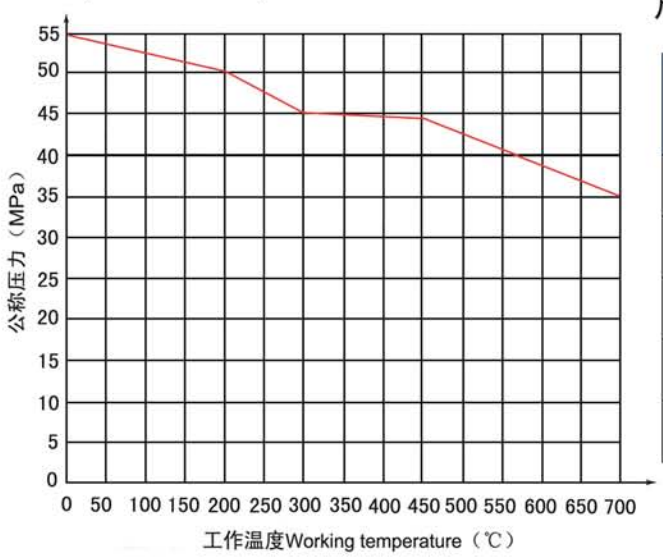
适用于蒸汽、水和腐蚀介质

Technical indicators:

- Medium temperature:-50℃-650℃
- Nominal pressure:10Mpa-46Mpa
- Working pressure:10Mpa-28Mpa
- Applicable medium: steam,water, and corrosive medium

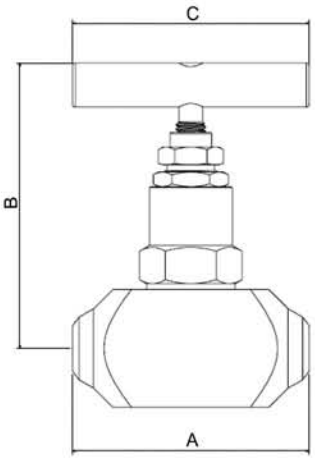


温压曲线图
Temperature and pressure curves



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
DN6/ 1/4″	65	77	65	0.45
DN10/ 3/8″	80	98	80	0.9
DN15/ 1/2″	80	98	80	1.1
DN20/ 3/4″	100	121	95	2
DN25/ 1″	100	123	95	1.9



材质表 Material

类别 Category / 部件 Component	321	316	316L
阀体 Body	321	316	316L
阀杆 Stem	321	316	316L
阀座 Body	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
填料 Filler	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite

分体式承插焊仪表阀
Split SW instrument valves

技术指标：

介质温度：50℃-650℃

公称压力：10Mpa-46Mpa

工作压力：10Mpa-28Mpa

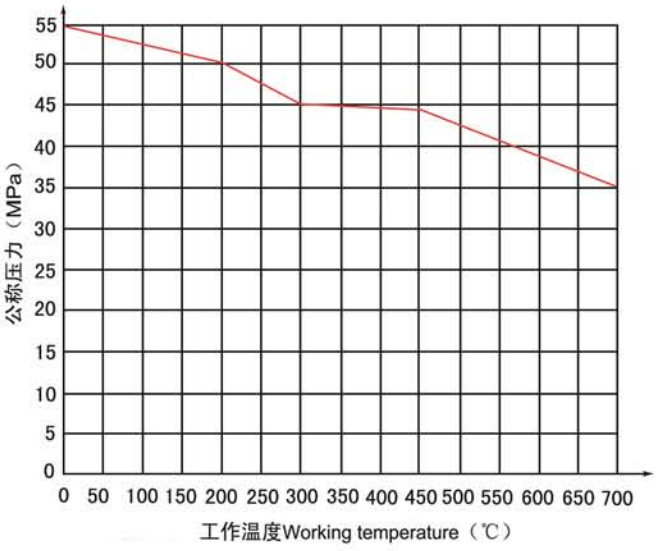
适用于蒸汽、水和腐蚀介质

Technical indicators:

- Medium temperature:-50℃-650℃
- Nominal pressure:10Mpa-46Mpa
- Working pressure:10Mpa-28Mpa
- Applicable medium: steam,water, and corrosive medium

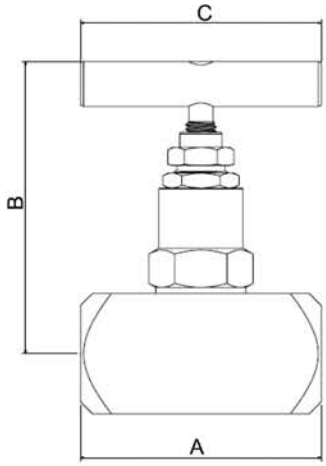


温压曲线图
Temperature and pressure curves



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
DN6/ 1/4″	65	77	65	0.5
DN10/ 3/8″	80	98	80	1.1
DN15/ 1/2″	80	98	80	1.2
DN20/ 3/4″	100	121	95	2.1
DN25/ 1″	100	123	95	2.2



材质表 Material

类别 Category / 部件 Component	321	316	316L
阀体 Body	321	316	316L
阀杆 Stem	321	316	316L
阀座 Body	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
填料 Filler	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite

技术指标：

介质温度：-50℃-450℃

公称压力：10Mpa-32Mpa

工作压力：10Mpa-19Mpa

适用于蒸汽、水和腐蚀介质

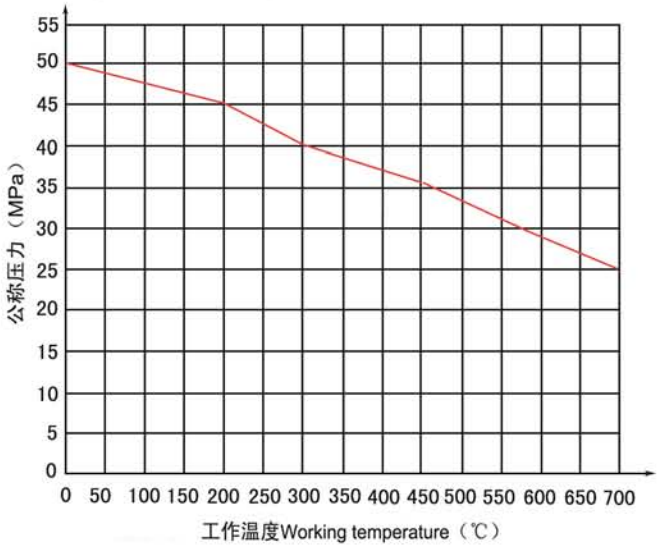
Technical indicators:

- Medium temperature:-50℃-450℃
- Nominal pressure:10Mpa-32Mpa
- Working pressure:10Mpa-19Mpa
- Applicable medium: steam,water, and corrosive medium



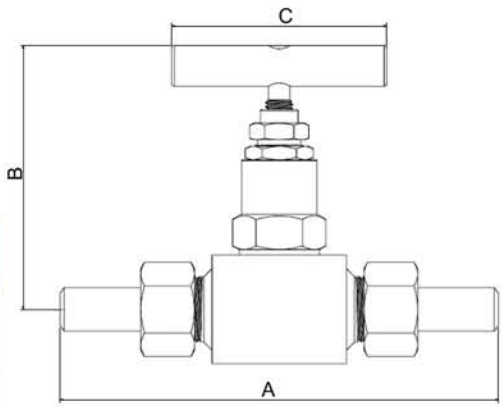
温压曲线图

Temperature and pressure curves



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
DN6/ 1/4″	65	77	65	0.5
DN10/ 3/8″	80	98	80	1
DN15/ 1/2″	80	98	80	1.2
DN20/ 3/4″	100	121	95	2
DN25/ 1″	100	123	95	2.1



材质表 Material

类别 Category / 部件 Component	321	316	316L
阀体 Body	321	316	316L
阀杆 Stem	321	316	316L
阀座 Body	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
填料 Filler	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite

分体式卡套仪表阀
Split sleeve instrument valves



技术指标：

介质温度：50℃-560℃

公称压力：10Mpa-46Mpa

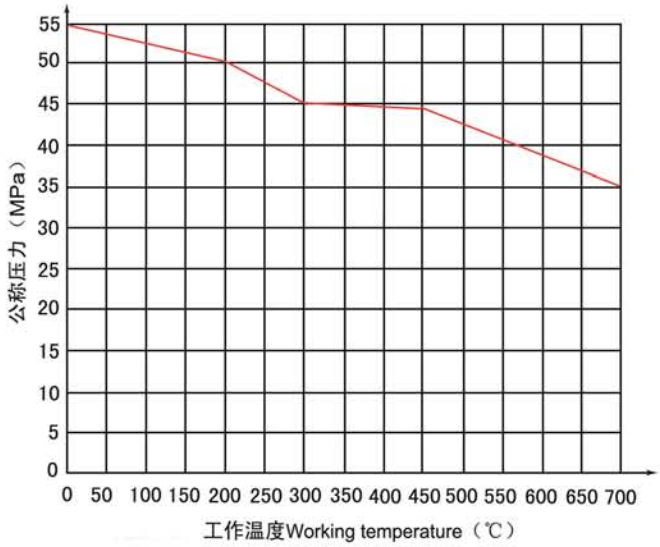
工作压力：10Mpa-28Mpa

适用于蒸汽、水和腐蚀介质

Technical indicators:

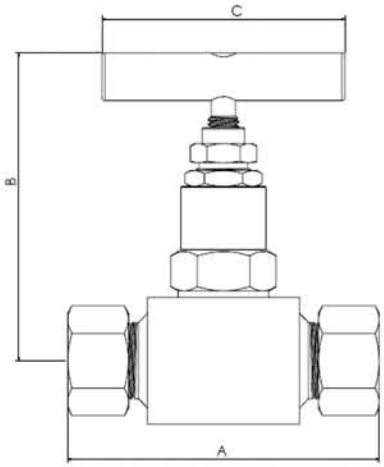
- Medium temperature:-50℃-560℃
- Nominal pressure:10Mpa-46Mpa
- Working pressure:10Mpa-28Mpa
- Applicable medium: steam,water, and corrosive medium

温压曲线图
Temperature and pressure curves



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
DN6/ 1/4″	80	77	65	0.5
DN10/ 3/8″	103	98	80	1
DN15/ 1/2″	103	98	80	1.1
DN20/ 3/4″	125	121	95	2.2
DN25/ 1″	125	123	95	2.1



材质表 Material

类别 Category / 部件 Component	321	316	316L
阀体 Body	321	316	316L
阀杆 Stem	321	316	316L
阀座 Body	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
填料 Filler	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite

性能特点：Performance characteristics:

1、 优质锻件并经固融处理的阀体，确保无内外裂纹。

2、 阀座堆焊钴基硬质合金，极大地提高了高温硬度和抗介质冲蚀能力。

3、 阀瓣采用钴铬钨钢球，具有很高的高温硬度，使其抗介质冲蚀能力大大优于普通针型阀。

4、 经锻造的阀杆，柔性和强度一同一般，滚压加工的螺纹位于填料之上，避免了与介质接触，光杆部位经精磨处理，不仅与填料紧密接触，保证了密封无外漏，而且减少了开启力矩，阀门启闭时灵活自如。

5、 独特设计的中口金属密封垫，经特殊工艺调质处理，确保高温高压下的良好密封。

6、 致密性优良的柔性石墨填料，确保了高温高压下无外漏。

7、执行标准：ASMI B16.34

1. The valve body has quality forging and after melts processing firmly. This can guarantee that does not have the inside and outside cracks.

2. The valve seat built-up welding cobalt base hard alloy, this can enhance the high temperature degree of hardness and anti-medium eroding ability enormously.

3. The valve petal uses the cobalt chrome tungsten steel ball. It has the very high high temperature degree of hardness. This can cause its anti-medium eroding ability to surpass the ordinary needle valve.

4. The valve stem is forged, its flexibility and intensity different general. The trundle processed thread located at padding above, this can avoid contact with the medium. The polished rod spot is processed by correct gridding. This can guarantee the close contact with the padding. The valve has no outside leaks. This design can also reduce the opening moment of force and the valve opens shuts time nimble freely.

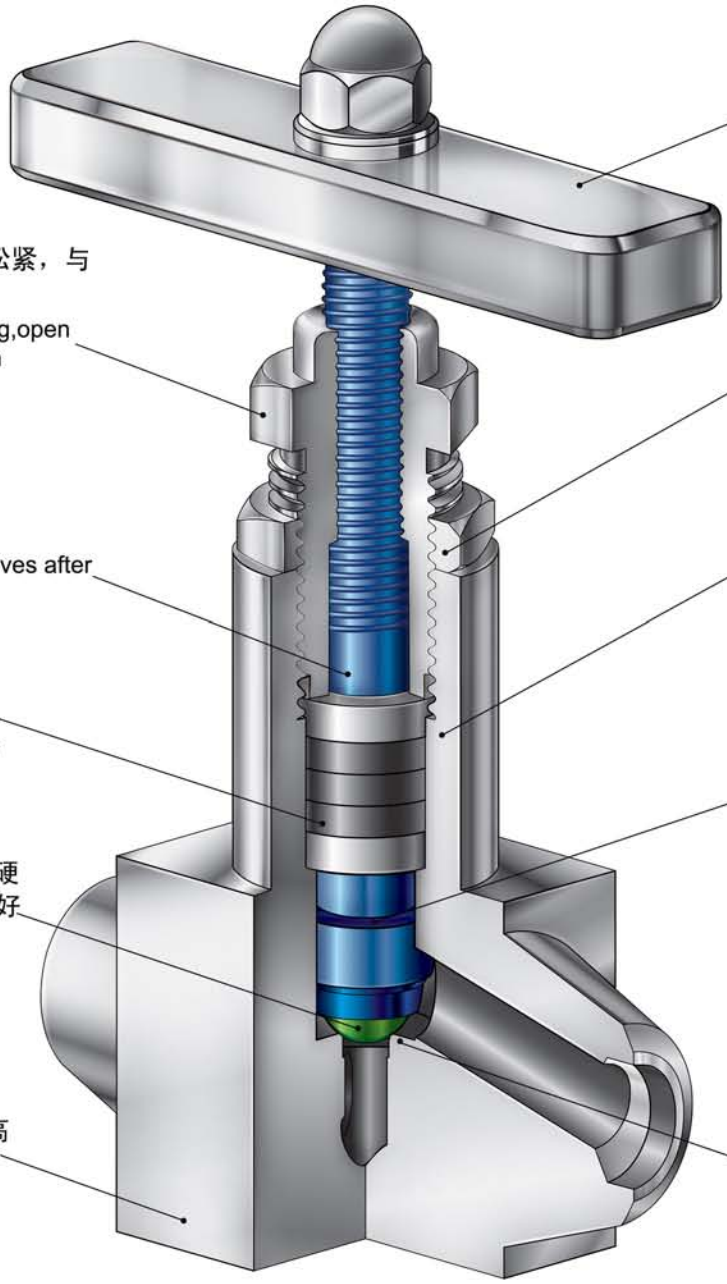
5. The unique design mouth metal gasket is manufactured by special craft quenching treatment. This can guarantee the good seal in the high temperature and high pressure.

6. The compact fine flexible graphite padding, has guaranteed the valve has not outside leaks in the high temperature high pressure.

7. Standard: ASMI B16.34



剖视图 Cutaway view



锻压扁手柄
结实耐用不脱落
Forged flat handle
durable and not easy to fall off

阀杆螺母 调整填料函的松紧，与阀杆配合启闭阀门
Stem nut to adjust the packing,open and close the valve with the stem

锁紧螺母 锁定阀杆螺母
Locking nut to lock the stem nut

填料箱 与阀体一起锻造出来，阀体与填料箱之间没有接缝，减少任何一个疑似漏点
Stuffing box forged together with the body,there are no joints between the body and the stuffing box,reduce any one suspected leak

阀杆 精磨后经防腐处理
Stem treated with preservatives after fine grinding

优质柔性石墨 防止外漏
Excellent flexible graphite
to prevent the outside leakage of the valve

上密封圈 阀全开后，与填料箱底部形成密封副，防止阀外漏
Upper sealing ring
the upper sealing and the stuffing box composes the second seal -ing,to prevent the outside leak -age of the valve

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

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 resistance and good sealing performance with the ball petal

锻造阀体 密度大、承压高
Forged body large density and high pressure capability

技术指标：

介质温度：200℃-650℃

公称压力：2.5Mpa-25Mpa

工作压力：2.5Mpa-16Mpa

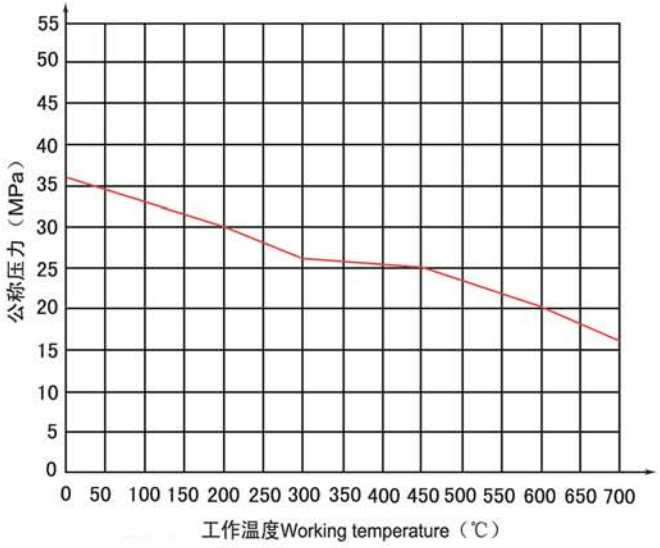
适用介质：适用于油品、水和腐蚀介质

Technical indicators:

- Medium temperature: 200℃-650℃
- Nominal pressure : 2.5Mpa-25Mpa
- Working pressure: 2.5Mpa-16Mpa
- Applicable medium: oil, water, corrosive medium



温压曲线图
Temperature and pressure curves

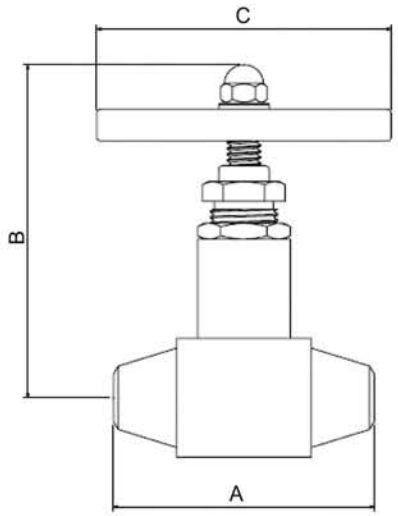


尺寸表 Dimensions

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
DN6/ 1/4″	56	84	60	0.36
DN10/ 3/8″	62	86	70	1.2
DN15/ 1/2″	86	123	95	1.4
DN20/ 3/4″	86	123	95	1.3
DN25/ 1″	86	123	95	1.3

材质表 Material

类别 Category / 部件 Component	321	316	316L
阀体 Body	321	316	316L
阀杆 Stem	321	316	316L
阀座 Body	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
填料 Filler	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite



技术指标：

介质温度：200℃-650℃

公称压力：2.5Mpa-25Mpa

工作压力：2.5Mpa-16Mpa

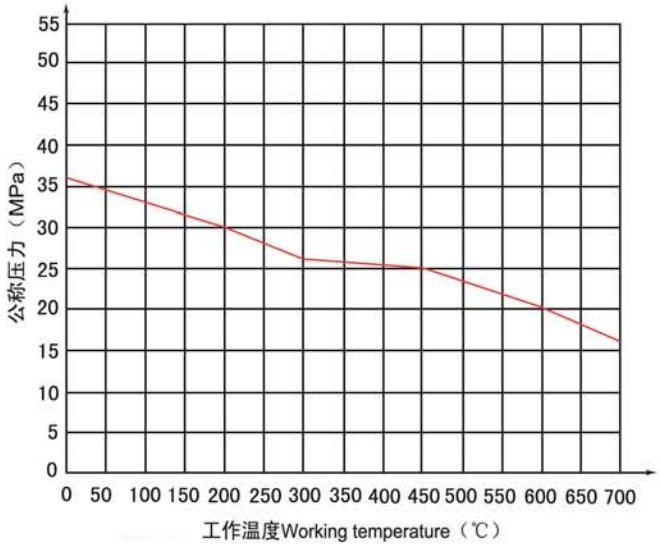
适用介质：适用于油品、水和腐蚀介质

Technical indicators:

- Medium temperature: 200℃-650℃
- Nominal pressure : 2.5Mpa-25Mpa
- Working pressure: 2.5Mpa-16Mpa
- Applicable medium: oil, water, corrosive medium



温压曲线图
Temperature and pressure curves

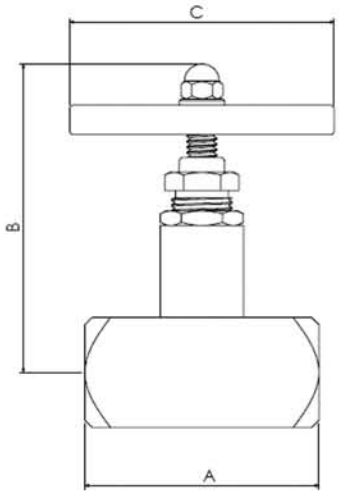


尺寸表 Dimensions

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
DN6/ 1/4″	56	84	60	0.44
DN10/ 3/8″	62	86	70	0.5
DN15/ 1/2″	86	123	95	1.6
DN20/ 3/4″	86	123	95	1.5
DN25/ 1″	86	123	95	1.5

材质表 Material

类别 Category / 部件 Component	321	316	316L
阀体 Body	321	316	316L
阀杆 Stem	321	316	316L
阀座 Body	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
填料 Filler	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite



技术指标：

介质温度：200℃-450℃

公称压力：2.5Mpa-25Mpa

工作压力：2.5Mpa-16Mpa

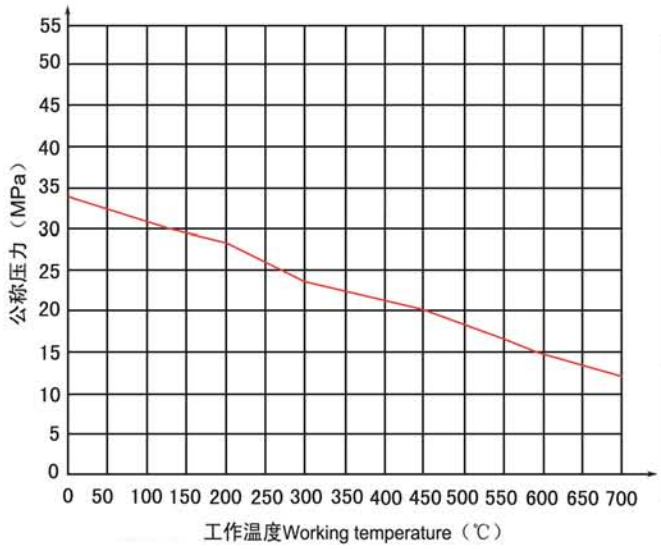
适用介质：适用于油品、水和腐蚀介质

Technical indicators:

- Medium temperature: 200℃-450℃
- Nominal pressure : 2.5Mpa-25Mpa
- Working pressure: 2.5Mpa-16Mpa
- Applicable medium: oil, water, corrosive medium



温压曲线图
Temperature and pressure curves

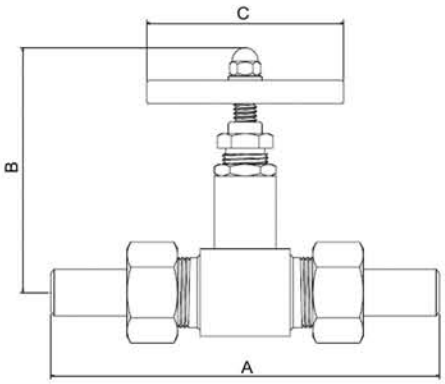


尺寸表 Dimensions

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
DN6/ 1/4″	132	84	60	0.53
DN10/ 3/8″	138	86	70	0.57
DN15/ 1/2″	190	123	95	2
DN20/ 3/4″	190	123	95	1.9
DN25/ 1″	190	123	95	1.9

材质表 Material

类别 Category / 部件 Component	321	316	316L
阀体 Body	321	316	316L
阀杆 Stem	321	316	316L
阀座 Body	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
填料 Filler	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite



技术指标：

介质温度：200℃-560℃

公称压力：2.5Mpa-25Mpa

工作压力：2.5Mpa-16Mpa

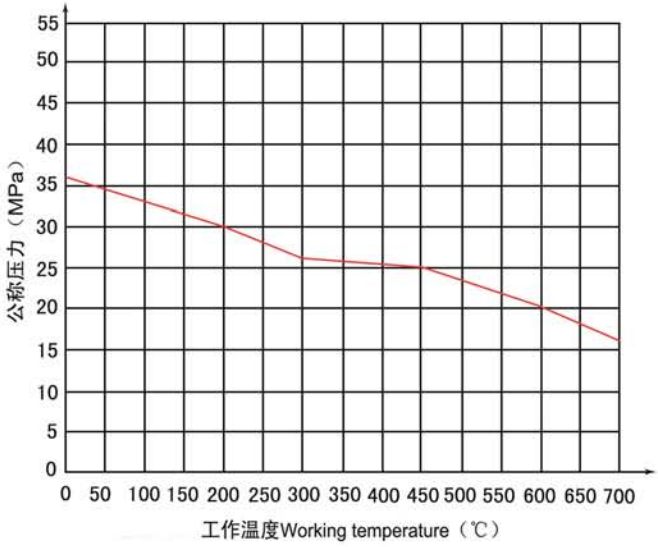
适用介质：适用于油品、水和腐蚀介质

Technical indicators:

- Medium temperature: 200℃-560℃
- Nominal pressure : 2.5Mpa-25Mpa
- Working pressure: 2.5Mpa-16Mpa
- Applicable medium: oil, water, corrosive medium



温压曲线图
Temperature and pressure curves

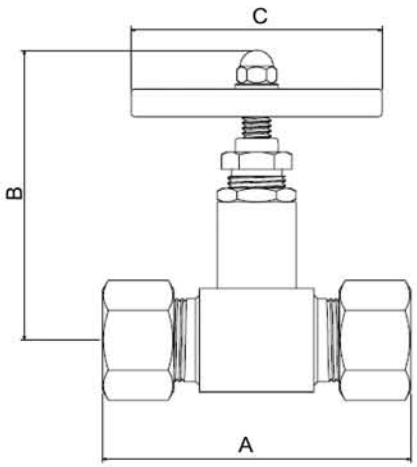


尺寸表 Dimensions

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
DN6/ 1/4″	81	84	60	0.44
DN10/ 3/8″	86	86	70	0.48
DN15/ 1/2″	109	123	95	1.7
DN20/ 3/4″	109	123	95	1.6
DN25/ 1″	109	123	95	1.6

材质表 Material

类别 Category / 部件 Component	321	316	316L
阀体 Body	321	316	316L
阀杆 Stem	321	316	316L
阀座 Body	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
填料 Filler	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite



性能特点 Performance characteristics:

1、 优质锻件并经固融处理的阀体，确保无内外裂纹。锻件符合JB9626-1999的规定。

2、 阀座堆焊钴基硬质合金，极大地提高了高温硬度和抗介质冲蚀能力。

3、 阀瓣采用进口钴铬钨钢球，具有很高的高温硬度，使其抗介质冲蚀能力大大优于普通针型阀。

4、 经锻造的阀杆，柔性和强度不同一般，滚压加工的螺纹位于填料之上，避免了与介质接触，光杆部位经精磨处理，不仅与填料紧密接触，保证了密封无外漏，而且减少了开启力矩，阀门启闭时灵活自如。

5、 独特设计的中口金属密封垫，经特殊工艺调质处理，确保高温高压下的良好密封。

6、 致密性优良的柔性石墨填料，确保了高温高压下无外漏。

7、执行标准：ASMI B16.34

1. The body is solid melting treated after forged.The valve does not have inside and outside cracks. The forging conforms to JB 9626-1999.

2. The seat is built-welded with cobalt base hard alloy, this can enhance the high temperature hardness and anti-erosion perfor -mance greatly.

3. The petal uses the Co-Cr-W steel ball. It has very high high temperature hardness. Its anti-erosion is better than the ordinary needle valves.

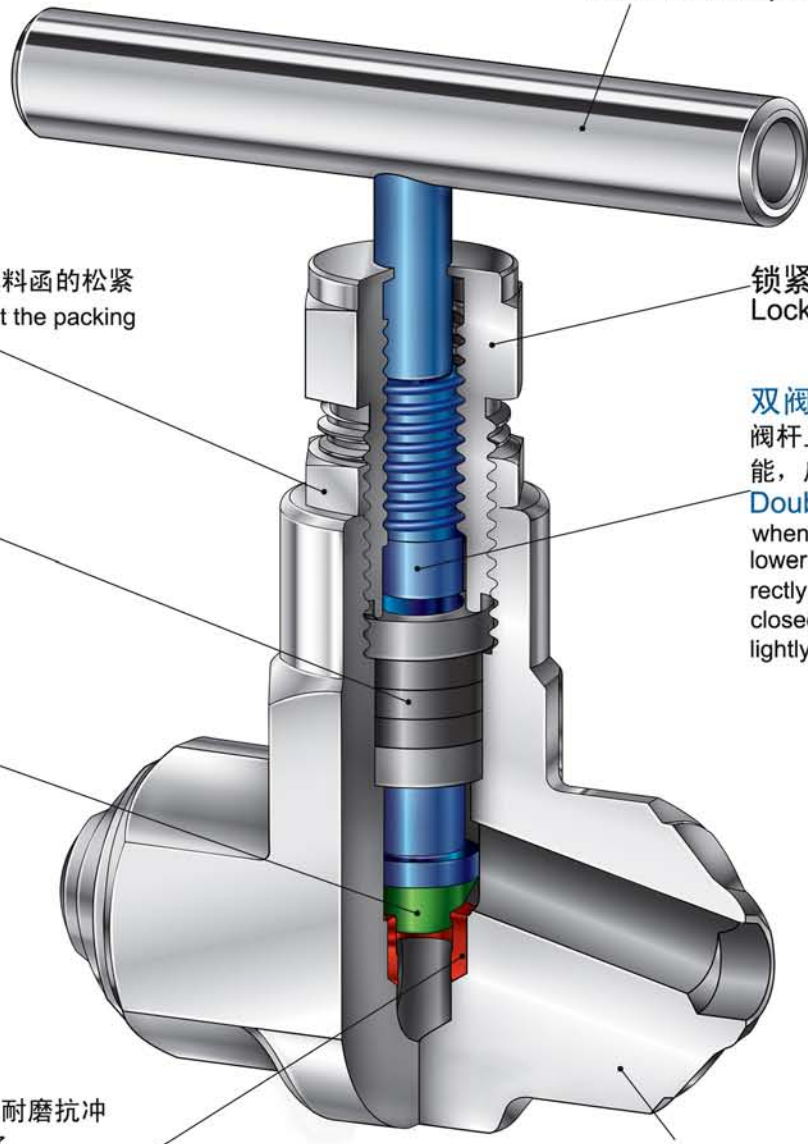
4. The stem is forged, its flexibility and intensity is good. Rolling processed thread located above the filler, this can avoid contact with the medium directly. The polished rod spot is processed by correct gridding. This can guarantee the close contact with the filler. The valve has no outside leaks. This design can also reduce the open torque and the valve can be opened and closed eas -ily。

5. The unique design mouth metal gasket is manufactured by special craft quenching treatment. This can guarantee the sealing in the high temperature and high pressure is good.

6. Compactness of the flexible graphite filler is very good, the valve has not outside leaks in the high temperature and high press -ure.



剖视图　Cutaway view



技术指标：

介质温度：50℃-650℃

公称压力：10Mpa-32Mpa

工作压力：10Mpa-19Mpa

适用于蒸汽、水和腐蚀介质

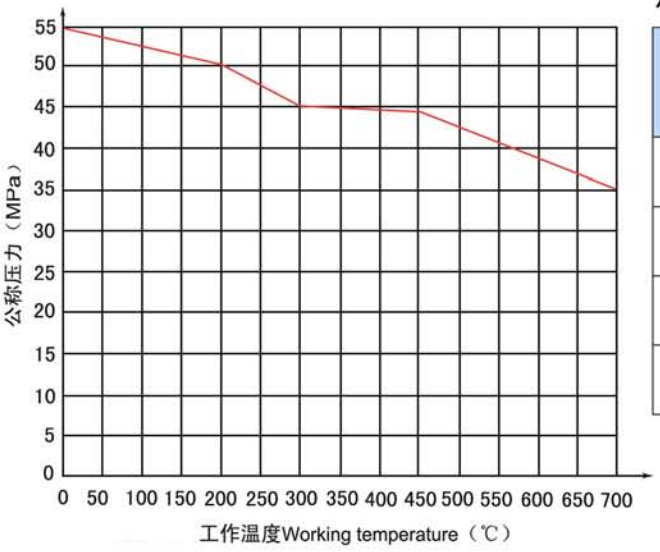
Technical indicators:

- Medium temperature:-50℃-650℃
- Nominal pressure:10Mpa-32Mpa
- Working pressure:10Mpa-19Mpa
- Applicable medium: steam,water, and corrosive medium



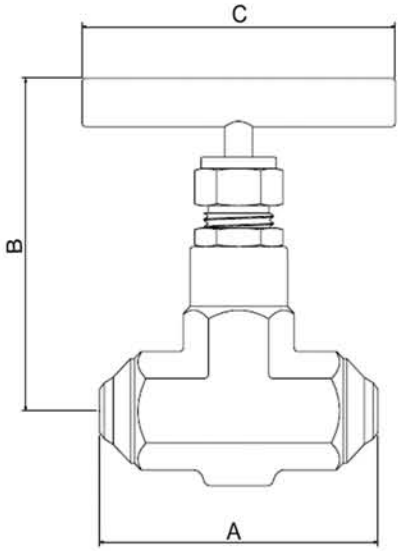
温压曲线图

Temperature and pressure curves



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
DN6/ 1/4"	60	70	60	0.3
DN10/ 3/8"	80	90	90	0.51
DN15/ 1/2"	100	125	100	1.82
DN20/ 3/4"	100	125	100	1.67



材质表 Material

类别 Category / 部件 Component	321	316	316L
阀体 Body	321	316	316L
阀杆 Stem	321	316	316L
阀座 Body	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
填料 Filler	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite

技术指标

介质温度：50℃-650℃

公称压力：10Mpa-46Mpa

工作压力：10Mpa-28Mpa

适用于蒸汽、水和腐蚀介质

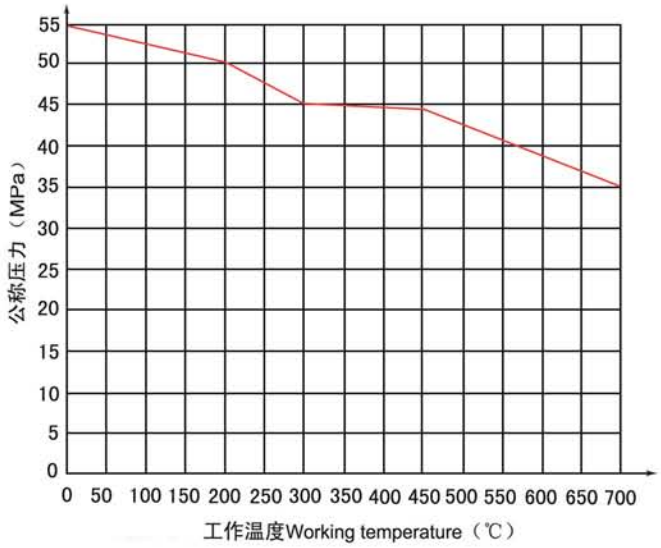
Technical indicators:

- Medium temperature:-50℃-650℃
- Nominal pressure:10Mpa-46Mpa
- Working pressure:10Mpa-28Mpa
- Applicable medium: steam,water, and corrosive medium



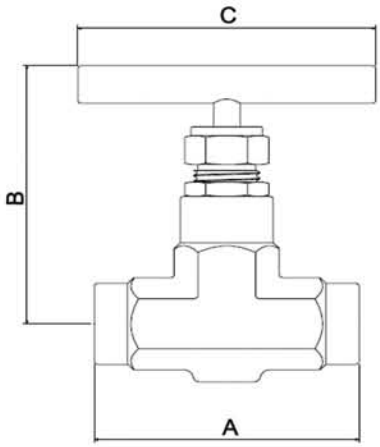
温压曲线图

Temperature and pressure curves



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
DN6/ 1/4″	60	70	60	0.31
DN10/ 3/8″	80	90	90	0.53
DN15/ 1/2″	100	125	100	1.85
DN20/ 3/4″	100	125	100	1.68



材质表 Material

类别 Category / 部件 Component	321	316	316L
阀体 Body	321	316	316L
阀杆 Stem	321	316	316L
阀座 Body	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
填料 Filler	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite

技术指标：

介质温度：-50℃-450℃

公称压力：10Mpa-32Mpa

工作压力：10Mpa-14Mpa

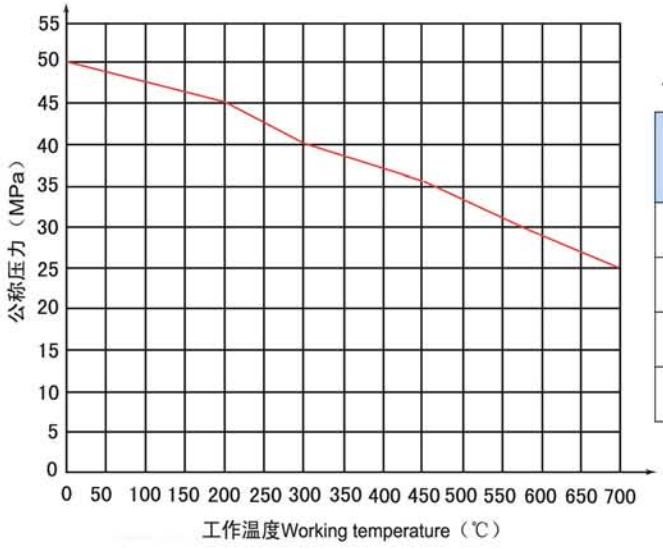
适用于蒸汽、水和腐蚀介质

Technical indicators:

- Medium temperature:-50℃-450℃
- Nominal pressure:10Mpa-32Mpa
- Working pressure:10Mpa-14Mpa
- Applicable medium: steam,water, and corrosive medium

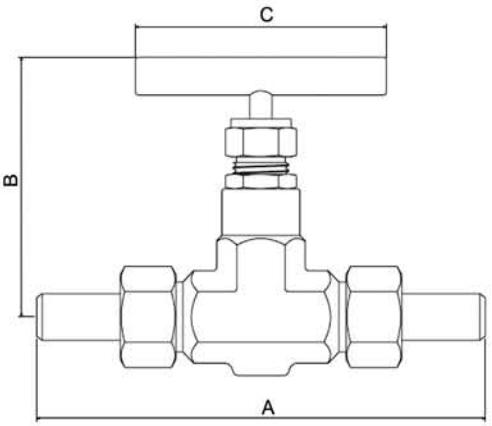


温压曲线图
Temperature and pressure curves



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
DN6/ 1/4″	136	70	60	0.47
DN10/ 3/8″	160	90	90	0.74
DN15/ 1/2″	203	125	100	2.35
DN20/ 3/4″	203	125	100	2.12



材质表 Material

类别 Category / 部件 Component	321	316	316L
阀体 Body	321	316	316L
阀杆 Stem	321	316	316L
阀座 Body	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
填料 Filler	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite

模锻卡套仪表阀
Forging sleeve instrument valves

技术指标：

介质温度：50℃-650℃

公称压力：10Mpa-32Mpa

工作压力：10Mpa-19Mpa

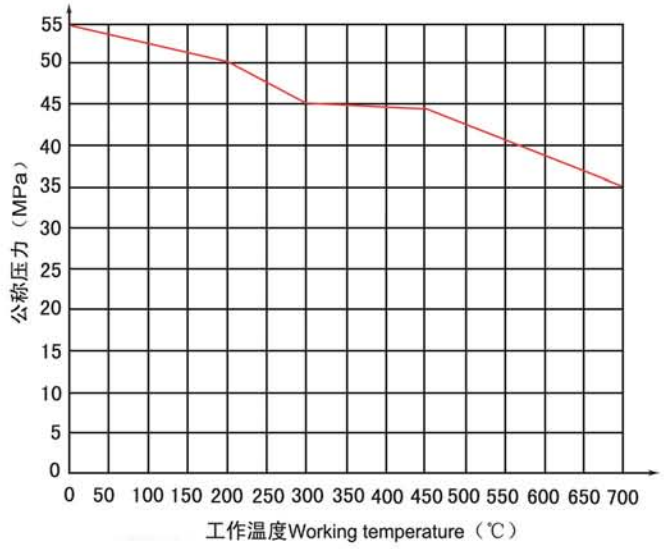
适用于蒸汽、水和腐蚀介质

Technical indicators:

- Medium temperature:-50℃-650℃
- Nominal pressure:10Mpa-32Mpa
- Working pressure:10Mpa-19Mpa
- Applicable medium: steam,water, and corrosive medium

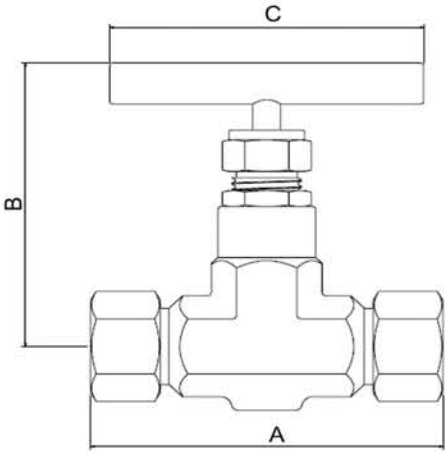


温压曲线图
Temperature and pressure curves



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
DN6/ 1/4″	84	70	60	0.37
DN10/ 3/8″	100	90	90	0.78
DN15/ 1/2″	128	125	100	1.96
DN20/ 3/4″	128	125	100	1.84



材质表 Material

类别 Category / 部件 Component	321	316	316L
阀体 Body	321	316	316L
阀杆 Stem	321	316	316L
阀座 Body	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
填料 Filler	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite

安装使用说明　Installment and operating instructions

1．产品出厂时已经严格检验，请勿解体，可打光谱，可试压

2．产品调试应由专业人员在零压下进行

3．安装应使介质流向和箭头方向一致

4．安装时，使阀门全开，对阀门及管道清洗，旋紧阀杆螺母，保证填料良好密封

5．当阀门处于打开或受压情况下不可拆卸

6．请不要将截止阀当作节流阀使用，否则会损坏阀座和阀瓣

1. Our valves have been examined strictly when leaving the plant. Please do not disintegrate. You may hit the spec -trum and carry on the pressure test.

1. The product debugging should carry on by the specialists under the zero pressure.

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

3. When installing the valve , please open the valve completely, clean the valve and the pipe.

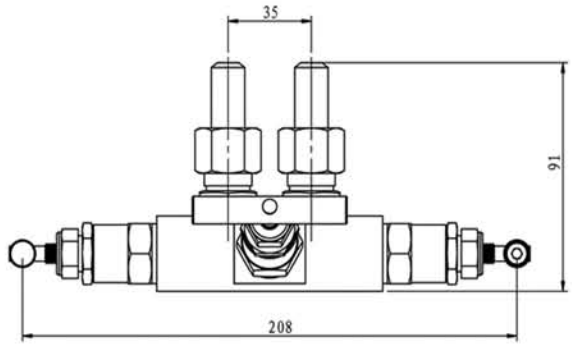
4. You should tighten the stem nut. This can guarantee the good seal of the padding.

5. Do not disassemble the valve when it is open or under the pressure.

6. Please do not use the cut-off valve as throttle valve. Because this will damage the seat and the petal.

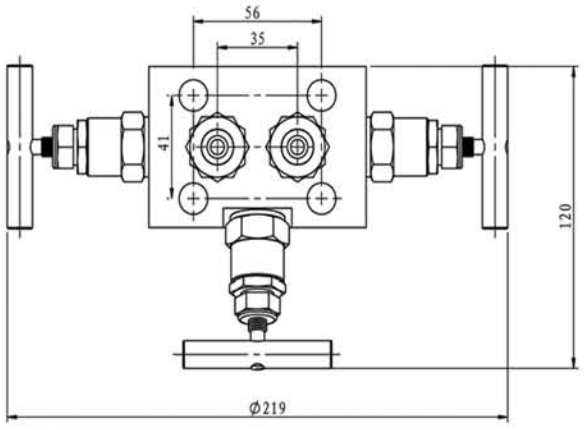
可能发生的故障及消除方法　Breakdown and Solution

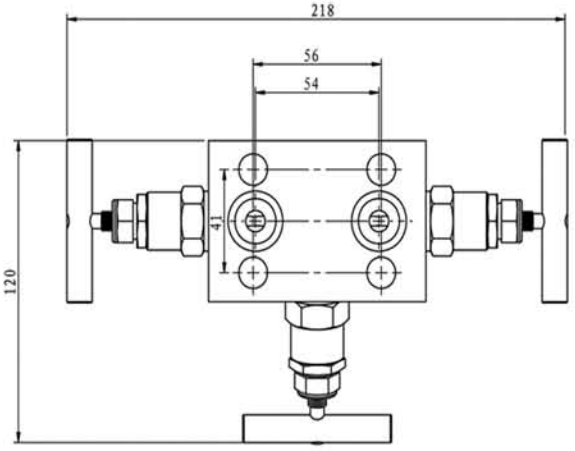
可能发生的故障 Breakdown	产生故障的原因 Reason	消除方法 Solution
阀杆处泄漏（外漏） Leakage of the stem (outside leaks)	1、阀杆螺母未压紧 2、密封面损坏或老化 1.The stem nut has not contracted. 2.The seal packing collar is damaged or aging.	1、拧紧阀杆螺母 2、更换密封圈 1.Screwing the stem nut tightly. 2.Replace the seal packing collar.
密封面间漏（内漏） Leakage between the packing surface (inside leaks)	1、密封面间附着杂污物 2、密封面划伤或损坏 1.Mixed contamination adhere to the packing surface. 2.The packing sueface is scratched or damaged.	1、消除杂污物 2、研磨或更换阀杆 1.Eliminates the mixed contamination. 2.Polishes the packing surface or replace the valve.
转动不灵活 rotates inflexibly	1、阀杆螺母长期使用有杂物 2、阀杆弯曲 1.Because of the long-term using ,the stem screw has the sundry goods. 2.The stem is curing.	1、清洗阀杆，加润滑剂 2、校正或更换阀杆 1.Clean the stem and add the lubricant. 2.Adjust or replace the stem.
接管间泄漏 Leakage between the connectors （此项仅限于外螺纹连接阀门） (Confined to the external thread valves only)	1、铜垫损坏 2、螺纹松动 1. The copper pad is damaged 2. Looseness of the thread	1、更换铜垫 2、拧紧螺母 1. Replace the copper pad 2. Tighten the nut





ZSYQ-351系列





参数表　Parameters

序号 No.	公称压力 PN Nominal pressure	公称通径 DN Nominal diameter	适用温度℃ Applicable temperature	阀体材料 Body material
1	32MPa	DN5	-70~200	35#/A105
2			-20~450	1Cr18Ni9Ti/F316

性能特点　Performance characteristics

该系列阀组与1151、1751、3051差压变送器配套安装，用于从引压点将信号引入1151、1751、3051系列差压变送器正、负测量室，使引压点与测量室接通或断开。

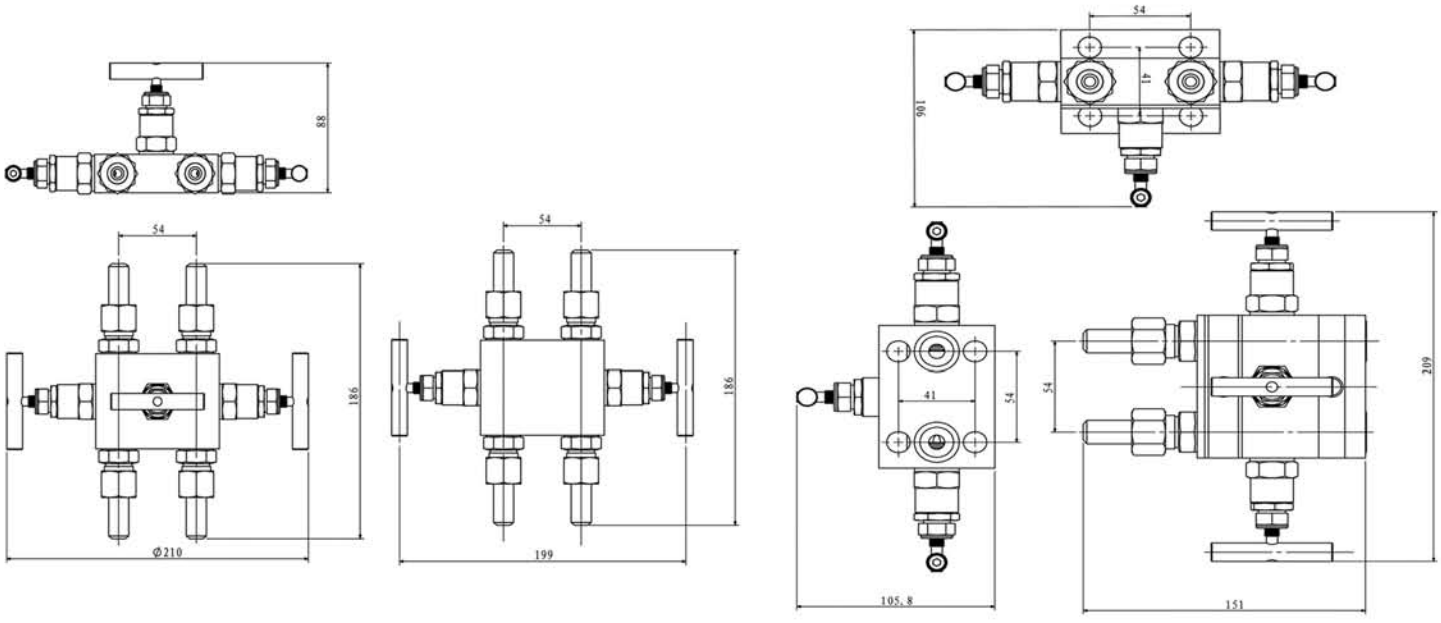
This kind of Three-valve manifold is used with 1151, 1751, 3051 series differential pressure transmitting instrument. The Three-valve manifold is used to introduce the signal to the positive and the negative measurement room of 1151, 1751, 3051 series differential pressure transmitting instrument from the pressure spot. This can cause the connection or separation between the pressure spot and the measurement room.



PSYQ-F3系列



TSYQ-151系列



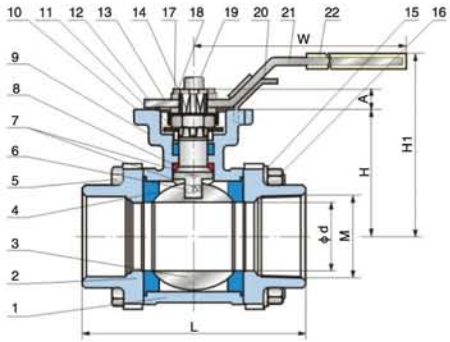
参数表 Parameters

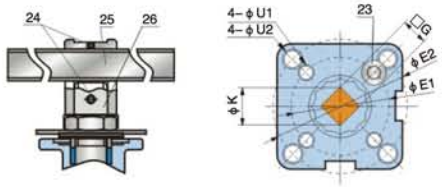
序号 No.	公称压力 PN Nominal pressure	公称通径 DN Nominal diameter	适用温度℃ Applicable temperature	阀体材料 Body material
1	32MPa	DN5	-70~200	35#/A105
2			-20~450	1Cr18Ni9Ti/F316

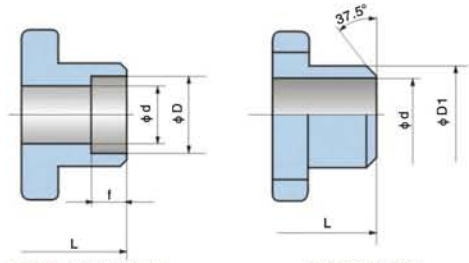
性能特点 Performance characteristics

由高、低压阀及平衡阀为一体，与差压变送器配套使用。其作用是将差压变送器正、负测量室与引压点导通或断开，或将正、负测量室断开或导通，引压、输压点直接与钢管连接，连接采用焊接，也可采用其它连接方式。

The high pressure valve and the low pressure valve as a body , used with differential pressure transmitting in strument. Its function is to connect or separate the measurement room and the pressure spot. It also used to co nnect or separate the positive and the negative measurement room. The pressure spot is welded with the steel pipe directly, it can also use the other connection mode.







承插焊（SW）连接
Connection: Socket welded

对焊(BW)连接
Connection: Butt welded

标准规范 Standard Specification

1. 承插焊Socket welded：ASME B16.11
2. 对焊Butt welded：ASME B16.25,ASME B36.10M

设计特点 Design features

1、手柄上带有限位，锁定装置，防止误操作，更加安全可靠。
1. The valve has limiting and locking device on the handle, the operation error can be prevented.

2、防飞出阀杆设计。
2. The stem is designed to prevent flying out.

3、可靠轻便的操作。
3. The valve can be operated reliably and lightly.

4、符合API 607防火设计。
4. Design standard for fire protection is API607.

5、阀门通道有通径和缩径两种类型。
5. The valve channel is full sized port and reduced port.

6、阀杆与球体连接处有防静电装置。
6. There is antistatic device in the connection between the stem and sphere.

7、连接端：螺纹、承插焊、对焊（可延长阀体）。
7. Connection: Thread, Socket welded, Butt welded(The body can be extensed)

阀门性能 Valve performance

适用于淡水、污水、海水、空气、蒸汽、食品、药品、化学制剂、各种油类、酸碱类和盐类等。

The medium is fresh water, sewage, sea water, air, steam, food, medicine, chemical agents, oil, acid, alkali and salt.



主要零件及材质 Main parts and material

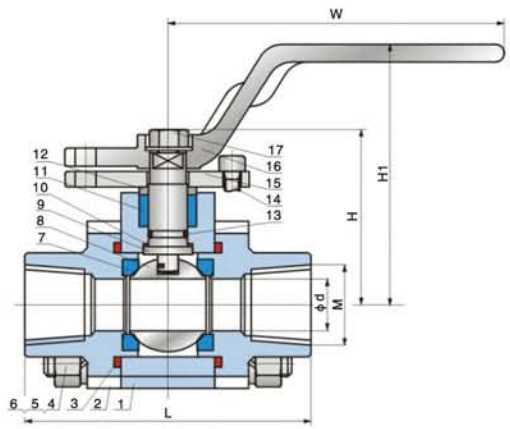
序号 No	名称 Name	材料 Material		
1	阀体 Body	CF8M	CF8	WCB
2	阀盖 Cover	CF8M	CF8	WCB
3	球体 Sphere	316	304	
4	阀座 Seat	PTFE/RP TFE/PPL/碳纤维 Carbon fiber		
5	螺母 Nut	A193 B8		A193 B7
6	阀杆 Stem	316	304	2Cr13
7	防静电装置Antistatic device	304		
8	止推垫片 Thrust washer	PTFE/碳纤维 Carbon fiber		
9	填料 Filler	PTFE		
10	填料保护垫 Packing protection pad	304		
11	填料压套 The packing set	304		
12	蝶簧 Butterfly spring	304		
13	螺母 Nut	304		
14	防松盖 Lock cover	304		
15	弹垫 Spring washer	304		
16	螺栓螺母 Bolt/Nut	304		
17	手柄螺母 Handle nut	304		
18	限位片 The limiting piece	304		
19	手柄 Handle	304		
20	手柄套 Handle sleeve	塑料 Plastic		
21	定位螺栓 Positioning bolt	304		
22	锁紧螺丝 Locking screw	304		
23	手柄 Handle	304		
24	扳头 Wrench	CF8		

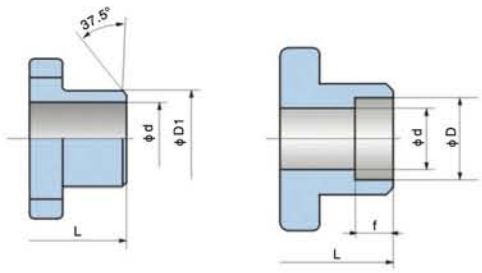
1000Psi 主要连接尺寸 Connection size

NPS (in)	Φd	f	L	H	H1	A	W	ΦE1	ΦE2	G	ΦU1	ΦU2	D	D1	M
1/2"	15	10	72	40	76	8	145	36	42	9	6	6	21.8	22	
3/4"	20	13	82	46	82	8	145	36	42	9	6	6	27.2	28	
1"	25	13	90	57	100	11.5	165	42	50	11	6	7	34	34	
1 1/4"	32	13	112	64	95	12.5	165	42	50	11	6	7	42.6	43	NPT
1 1/2"	38	13	120	71	118	16	200	50	70	14	7	9	48.7	50	BSP G
2"	50	16	145	81.5	129	20	200	50	70	14	7	9	61.2	61	RC
2 1/2"	65	16	185	95	152	20	250	70	102	17	9	11	74	76	
3"	80	16	208	109	159	20	265	70	102	17	9	11	90	92	
4"	100	19	268	142	205	22	400	/	102	22	/	11	115.6	115	

标准规范 Standard Specification

1. NPT螺纹连接NPT threaded connection：ASME B1.20.1
2.承插焊Socket welded：ASME B16.11
3.对焊Butt welded：ASME B16.25,ASME B36.10M





对焊(BW)连接
Connection：Butt welded

承插焊（SW）连接
Connection：Socket welded

设计特点 Design features

1、手柄上带有限位，锁定装置，防止误操作，更加安全可靠。
1. The valve has limiting and locking device on the handle, the operation error can be prevented.
2、防飞出阀杆设计。
2. The stem is designed to prevent flying out.
3、可靠轻便的操作。
3. The valve can be operated reliably and lightly.
4、符合API 607防火设计。
4. Design standard for fire protection is API607.
5、阀门通道有通径和缩径两种类型。
5. The valve channel is full sized port and reduced port.
6、阀杆与球体连接处有防静电装置。
6. There is antistatic device in the connection between the stem and sphere.
7、连接端：螺纹、承插焊、对焊（可延长阀体）。
7. Connection: Thread, Socket welded, Butt welded(The body can be extensed)

阀门性能 Valve performance

适用于淡水、污水、海水、空气、蒸汽、食品、药品、化学制剂、各种油类、酸碱类和盐类等。
The medium is fresh water, sewage, sea water, air, steam, food, medicine, chemical agents, oil, acid, alkali and salt.



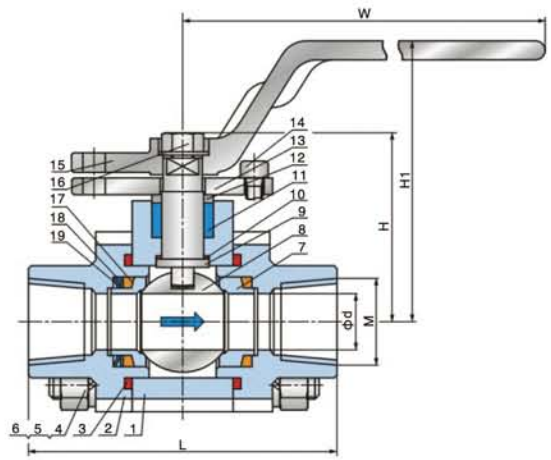
主要零件及材质 Main parts and material

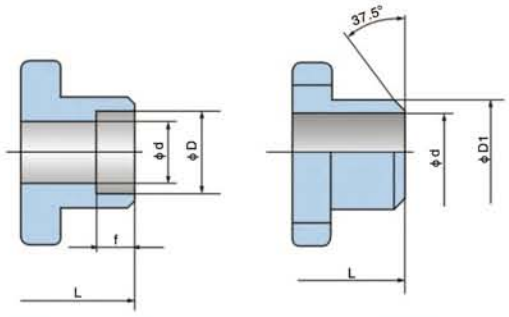
序号 No	名称 Name	材料 Material			
1	中体 Middle body	A105	F304	F316	F304L
2	阀盖 Cover	A105	F304	F316	F304L
3	垫片 Gasket	304+石墨 Graphite			
4	弹簧垫 Spring gasket	65Mn	304		
5	双头螺栓 Stud	A193 B7	A193 B8		
6	螺母 Nut	A194 2H	A194 8		
7	密封圈 Sealing ring	RPTFE/钼龙/铁氟龙 RPTFE/Molybdenum/Teflon			
8	球体 Sphere	A276 420	304	316	304L
9	阀杆 Stem	F6a	304	17-4PH	304L
10	阀杆垫 Stem gasket	PTFE/RPP TFE/碳纤维 Carbon fiber			
11	填料 Filler	PRFE/柔性石墨/V型填料 PRFE/Flexible Graphite/V-Filler			
12	填料压套 Packing gland	F304			
13	O型圈 O-ring	NBR/VITON			
14	内六角螺钉 Hexagon screw	A193 B7	A193 B8		
15	压盖 Gland	WCB	CF8	CF8M	CF3
16	手柄 Handle	WCB+Zn			
17	六角法兰螺母 Hex Flange Nuts	A194 2H	A194 8		

主要连接尺寸 Connection size

Class 800,1500Lb

DN	L	D	d	f	H	H1	W	D1	M
10	105	17.8	10	10	61	95	165	35	
15	105	22	15	10	61	95	165	35	NPS
20	113	27.3	20	13	67	100	165	40	BSP
25	125	34	25	13	70	100	165	48	G
32	135	42.8	32	13	85	125	180	62	Rc
40	160	48.9	38	13	95	135	200	66	
50	170	61.4	50	16	102	145	200	80	





承插焊（SW）连接
Connection：Socket welded

对焊(BW)连接
Connection：Butt welded

标准规范 Standard Specification

1. NPT螺纹连接NPT threaded connection：ASME B1.20.1

设计特点 Design features

1、手柄上带有限位，锁定装置，防止误操作，更加安全可靠。
1. The valve has limiting and locking device on the handle, the operation error can be prevented.

2、防飞出阀杆设计。
2. The stem is designed to prevent flying out.

3、可靠轻便的操作。
3. The valve can be operated reliably and lightly.

4、符合API 607防火设计。
4. Design standard for fire protection is API607.

5、阀门通道有通径和缩径两种类型。
5. The valve channel is full sized port and reduced port.

6、阀杆与球体连接处有防静电装置。
6. There is antistatic device in the connection between the stem and sphere.

7、连接端：螺纹、承插焊、对焊（可延长阀体）。
7. Connection: Thread, Socket welded, Butt welded(The body can be extensed)

阀门性能 Valve performance

适用于淡水、污水、海水、空气、蒸汽、食品、药品、化学制剂、各种油类、酸碱类和盐类等。

The medium is fresh water, sewage, sea water, air, steam, food, medicine, chemical agents, oil, acid, alkali and salt.

主要零件及材质 Main parts and material

序号 No	名称 Name	材料 Material			
1	中体 Middle body	A105	F304	F316	F304L
2	阀盖 Cover	A105	F304	F316	F304L
3	垫片 Gasket	304+石墨 Graphite			
4	弹簧垫 Spring gasket	65Mn	304		
5	双头螺栓 Stud	A193 B7	A193 B8		
6	螺母 Nut	A194 2H	A194 8		
7	阀座 Seat	A276 420	304	316	304L
8	球体 Sphere	A276 420	304	316	304L
9	阀杆 Stem	F6a	304	17–4PH	304L
10	阀杆垫 Stem gasket	PTFE/RPTFE/碳纤维 PTFE/RPTFE/Carbon fiber			
11	填料 Filler	PTFE/柔性石墨/V型填料 PTFE/Flexible Graphite/V-Filler			
12	填料压盖 Packing gland	F304			
13	压盖 Gland	WCB	CF8	CF8M	CF3
14	内六角螺钉 Hexagon screw	A193 B7	A193 B8		
15	手柄 Handle	WCB+Zn			
16	螺母 Nut	A194 2H	A194 8		
17	密封圈 Sealing ring	柔性石墨 Flexible Graphite			
18	垫片 Gasket	304			
19	碟簧 Butterfly spring	Inconel X750			

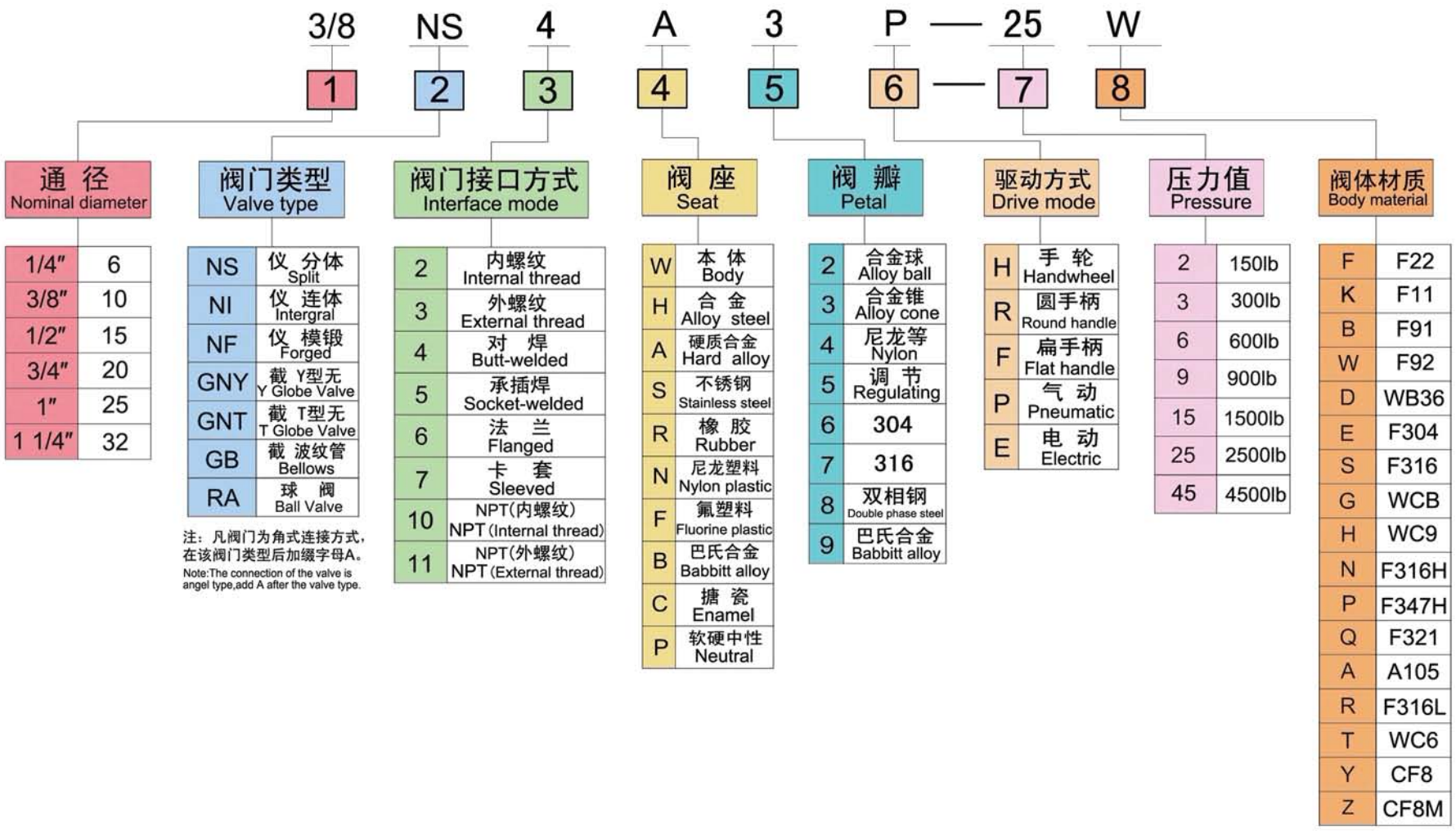
主要连接尺寸 Connection size

Class 800,1500Lb

DN	L	D	d	f	H	H1	W	D1	M
10	105	17.8	10	10	61	95	165	35	
15	105	22	15	10	61	95	165	35	
20	113	27.3	20	13	67	100	165	40	NPT
25	125	34.0	25	13	70	100	165	48	BSP
32	135	42.8	32	13	85	125	180	62	G
40	160	48.9	38	13	95	135	200	66	RC
50	170	61.4	50	16	102	145	200	80	

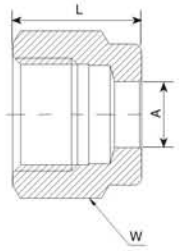
SWEK® 史威阀 仪表阀型号释意

Model interpretation of instrument valves



卡套螺母 Sleeve nut





卡套螺母（公制）Sleeve nut(Metric system)

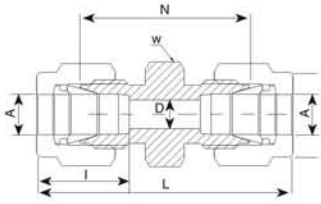
A 导管外径 Outer diameter of the catheter 毫米mm	W 六角螺母横切宽度 Cross-section width of the hex nut 毫米mm	L 毫米mm
2	12	11.9
3	12	11.9
4	12	11.9
6	14	12.7
8	16	13.5
10	19	15.1
12	22	17.4
14	25	17.4
15	25	17.4
16	25	17.4
18	30	17.4
20	32	17.4
22	32	17.4
25	38	20.6

卡套螺母（英制）Sleeve nut(Imperial)

A 导管外径Outer diameter of the catheter 英寸inch	A 毫米mm	W 六角螺母横切宽度 Cross-section width of the hex nut 英寸inch	W 毫米mm	L 英寸inch	L 毫米mm
1/16	1.58	5/16	7.93	.31	7.87
1/8	3.17	7/16	11.11	.47	11.93
3/16	4.76	1/2	12.70	.47	11.93
1/4	6.35	9/16	14.28	.50	12.70
5/16	7.93	5/8	15.87	.53	13.46
3/8	9.52	11/16	17.46	.56	14.22
1/2	12.70	7/8	22.22	.69	17.52
5/8	15.87	1	25.40	.69	17.52
3/4	19.05	1-1/8	28.57	.69	17.52
7/8	22.22	1-1/4	31.75	.69	17.52
1	25.40	1-1/2	38.10	.81	20.57

活接头 Active joints





活接头（公制）Active joints(Metric system)

用于导管与导管的连接 For the connection of catheter and catheter

A 导管外径 Outer diameter of the catheter 毫米mm	D 毫米mm	W 六角螺母横切宽度 Cross-section width of the hex nut 毫米mm	N 毫米mm	L 毫米mm	I 毫米mm
2	1.7	12	22.1	35.2	12.9
3	2.4	12	22.1	35.3	12.9
4	2.4	12	23.4	36.5	13.7
6	4.8	14	26.2	41.0	15.3
8	6.4	15	28.2	43.2	16.2
10	7.9	18	31.0	45.9	17.2
12	9.5	22	31.0	51.2	22.8
14	11.1	24	31.8	52.0	22.8
15	11.9	24	31.8	52.0	24.4
16	12.7	24	31.8	52.0	24.4
18	15.1	27	33.3	53.5	24.4
20	15.9	30	34.8	55.0	26.0
22	18.3	30	34.8	55.0	26.0
25	21.8	35	40.4	65.0	31.3

活接头（英制）Active joints(Imperial)

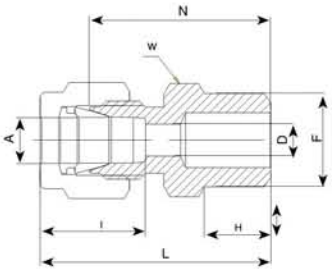
用于导管与导管的连接 For the connection of catheter and catheter

A 导管外径 Outer diameter of the catheter 英寸inch	A 毫米mm	D 英寸inch	D 毫米mm	W 六角螺母横切宽度 Cross-section width of the hex nut 英寸inch	W 毫米mm	N 英寸inch	N 毫米mm	L 英寸inch	L 毫米mm	I 英寸inch	I 毫米mm
1/16	1.58	.05	1.27	5/16	7.93	.69	17.52	.99	25.14	.34	8.6
1/8	3.17	.09	2.28	7/16	11.11	.88	22.35	1.40	35.56	.50	12.7
3/16	4.76	.12	3.04	7/16	11.11	.95	24.13	1.47	37.33	.54	13.7
1/4	6.35	.19	4.82	1/2	12.70	1.03	26.16	1.61	40.89	.60	15.2
5/16	7.93	.25	6.35	9/16	14.28	1.11	28.2	1.69	42.9	.64	16.3
3/8	9.52	.28	7.11	5/8	15.87	1.19	30.22	1.77	44.95	.66	16.8
1/2	12.70	.41	10.41	13/16	20.63	1.22	30.98	2.02	51.30	.90	22.9
5/8	15.87	.50	12.70	15/16	23.81	1.25	31.75	2.05	52.07	.96	24.4
3/4	19.05	.62	15.74	1-1/16	26.98	1.31	33.27	2.11	53.59	.96	24.4
7/8	22.22	.72	18.28	1-3/16	30.16	1.38	35.05	2.17	55.11	1.02	26.0
1	25.40	.88	22.35	1-3/8	34.92	1.59	40.38	2.55	64.77	1.23	31.3
*1-1/4	31.75	1.09	27.7	1-3/4	44.45	1.89	48.0	3.63	92.2	1.62	41.15
*1-1/2	38.1	1.34	34.0	2-1/8	28.57	2.11	53.6	4.25	107.95	1.97	50.04

卡套式外螺纹管焊接接头 - 用于导管（公制）之间的连接
Sleeve external thread pipe welded joints-For connection of catheters(Metric system)

卡套式外螺纹管焊接接头
Sleeve external thread pipe welded joints



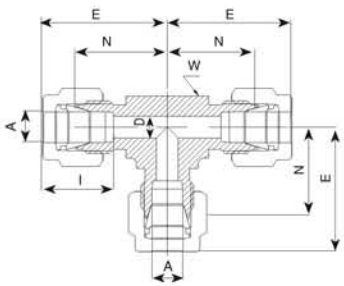


A 导管外径 Outer diameter of catheter 毫米 mm	F 导管尺寸 Catheter size 毫米mm	D 毫米mm	W 六角螺母横切宽度 Cross-section width of the hex nut 毫米mm	N 毫米mm	H 毫米mm	L 毫米 mm	I 毫米mm
3	10.3	2.4	12	23.1	9.7	30.5	12.9
4	10.3	2.4	12	24.1	9.7	31.2	13.7
6	10.3	4.8	14	25.4	9.7	32.8	15.3
6	13.7	4.8	14	30.2	14.2	37.9	15.3
8	10.3	5.1	15	26.7	9.7	34.2	16.2
8	13.7	6.4	15	31.2	14.2	38.7	16.2
8	21.3	6.4	22	37.3	19.0	45.6	16.2
10	13.7	7.1	18	33.3	14.2	40.9	17.2
10	17.1	7.9	18	32.5	14.2	40.9	17.2
10	21.3	7.9	22	38.1	19.0	46.5	17.2
12	13.7	7.1	22	33.3	14.2	43.4	22.8
12	17.1	9.5	22	33.3	14.2	43.4	22.8
12	21.3	9.5	22	38.1	19.0	49.0	22.8
15	21.3	11.9	24	38.9	19.0	49.0	24.4
16	21.3	12.7	24	38.9	19.0	49.0	24.4
18	21.3	13.5	27	40.4	19.0	50.5	24.4

卡套式活接三通 - 用于连接所有导管（公制）
Sleeve three-way active joints-For connection of all catheters(Metric system)

卡套式活接三通
Sleeve three-way active joints





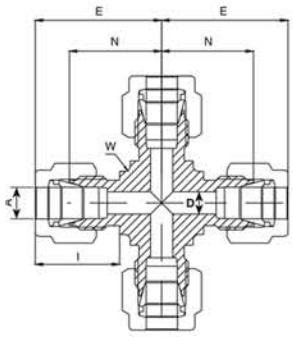
A 导管外径 Outer diameter of the catheter 毫米 mm	D 毫米mm	W 六角螺母横切宽度 Cross-section width of the hex nut 毫米mm	英寸 inch	N 毫米mm	E 毫米mm	I 毫米 mm
2	1.7	9.5	3/8	15.7	22.3	12.9
3	2.4	9.5	3/8	15.7	22.3	12.9
4	2.4	12.7	1/2	18.8	25.4	13.7
6	4.8	12.7	1/2	19.6	27.0	15.3
8	6.4	16.0	5/8	22.4	29.9	16.2
10	7.9	20.5	11/16	23.9	31.5	17.2
12	9.5	20.5	13/16	25.9	36.0	22.8
14	11.1	24.0	15/16	28.7	38.8	24.4
15	11.9	25.0	15/16	28.7	38.8	24.4
16	12.7	25.0	15/16	28.7	38.8	24.4
18	15.1	27.0	1-1/8	29.7	39.8	24.4
20	15.9	30.0	1-3/8	34.5	44.6	26.0
22	18.3	30.0	1-3/8	34.5	44.6	26.0
25	21.8	35.0	1-3/8	36.8	49.1	31.3

卡套式活接三通 - 用于连接所有导管（英制）
Sleeve three-way active joints-For connection of all catheters(Imperial)

A 导管外径 Outer diameter of the catheter 英寸 inch	毫米mm	D 英寸 inch	毫米mm	W 六角螺母横切宽度 Cross-section width of the hex nut 英寸 inch	毫米mm	N 英寸 inch	毫米mm	E 英寸 inch	毫米mm	I 英寸inch	毫米 mm
1/16	1.58	.05	1.27	3/8	9.52	.56	14.22	.70	17.8	.34	8.6
1/8	3.17	.09	2.28	1/2	12.7	.62	15.74	.88	22.35	.50	12.7
3/16	4.76	.12	3.04	1/2	12.70	.70	17.8	.96	24.4	.54	13.7
1/4	6.35	.19	4.82	1/2	12.70	.77	19.55	1.06	26.9	.60	15.2
5/16	7.93	.25	6.35	5/8	15.87	.88	22.35	1.17	29.71	.64	16.3
3/8	9.52	.28	7.11	5/8	15.87	.91	23.11	1.20	30.48	.66	16.8
1/2	12.70	.41	10.41	13/16	20.63	1.02	25.9	1.42	30.1	.90	22.9
5/8	15.87	.50	12.70	15/16	23.81	1.13	28.7	1.53	38.9	.96	24.4
3/4	19.05	.62	15.74	1-1/8	28.6	1.17	29.7	1.57	39.9	.96	24.4
1	25.40	.88	22.35	1-3/8	34.9	1.45	36.8	1.93	49.0	1.23	31.2
*1-1/4	31.75	1.09	27.7	1-11/16	42.9	1.75	44.5	2.62	66.5	1.62	41.1
*1-1/2	38.1	1.34	34.0	2	50.8	2.00	50.8	3.07	78.0	1.97	50.0

卡套式四通接头 Sleeve four-way active joints





卡套式四通接头 - 用于所有导管（公制）的连接
Sleeve four-way active joints-For connection of all catheters(Metric system)

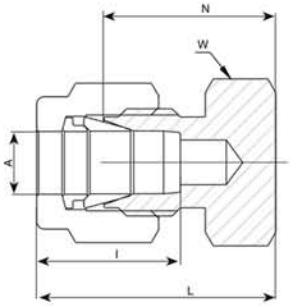
A 导管外径 Outer diameter of the catheter 毫米mm	D 毫米mm	W 六角螺母横切宽度 Cross-section width of the hex nut 毫米mm	N 毫米mm	E 毫米mm	I 毫米mm
3	2.4	9.5	15.7	22.3	12.9
6	4.8	12.7	19.6	27.0	15.3
8	6.4	15.9	22.4	29.9	16.2
10	7.9	20.6	25.9	33.5	17.2
12	9.5	20.6	25.9	36.0	22.8
16	12.7	23.8	26.9	37.0	24.4
18	15.1	27.0	28.2	38.3	24.4
20	15.9	34.9	34.5	44.6	26.0

卡套式四通接头 - 用于所有导管（英制）的连接
Sleeve four-way active joints-For connection of all catheters(Imperial)

A 导管外径 Outer diameter of the catheter		D		W 六角螺母横切宽度 Cross-section width of the hex nut		N		E		I	
英寸inch	毫米mm	英寸inch	毫米mm	英寸inch	毫米mm	英寸inch	毫米mm	英寸inch	毫米mm	英寸inch	毫米mm
1/8	3.17	.09	2.28	3/8	9.52	.62	15.74	.88	22.35	.50	12.7
1/4	6.35	.19	4.82	1/2	12.70	.77	19.56	1.07	27.18	.60	15.2
5/16	7.93	.25	6.35	5/8	15.87	.88	22.35	1.17	29.71	.64	16.2
3/8	9.52	.28	7.11	5/8	15.87	.91	23.11	1.20	30.48	.66	16.8
1/2	12.70	.41	10.41	13/16	20.63	1.02	25.9	1.42	36.07	.90	22.9
3/4	19.05	.62	15.74	1-1/16	26.98	1.17	29.72	1.57	39.88	.96	24.4
1	25.40	.88	22.35	1-3/8	34.9	1.45	36.8	1.93	49.02	1.23	31.2

管帽 Pipe cap





管帽 - 用于封堵导管（公制）终端
Pipe cap-Used to block the catheter terminal(Metric system)

A 导管外径 Outer diameter of the catheter 毫米mm	W 六角螺母横切宽度 Cross-section width of the hex nut 毫米mm	N 毫米mm	L 毫米mm	I 毫米mm
2	12	13.5	20.1	12.9
3	12	13.5	20.1	12.9
4	12	14.7	21.3	13.7
6	14	15.7	23.1	15.3
8	15	17.0	24.6	16.2
10	18	15.0	26.6	17.2
12	22	19.0	29.1	22.8
15	24	19.8	29.9	24.4
16	24	19.8	29.9	24.4
18	27	21.3	31.4	24.4
20	30	23.9	34.0	26.0
22	30	23.9	34.0	26.0
25	35	26.2	38.5	31.3

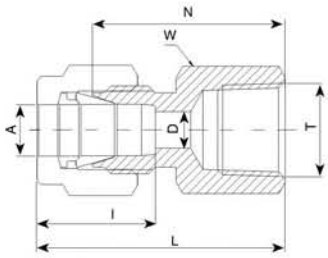
管帽 - 用于封堵导管（英制）终端
Pipe cap-Used to block the catheter terminal(Imperial)

A 导管外径 Outer diameter of the catheter		W 六角螺母横切宽度 Cross-section width of the hex nut		N		L		I	
英寸inch	毫米mm	英寸inch	毫米mm	英寸inch	毫米mm	英寸inch	毫米mm	英寸inch	毫米mm
1/16	1.58	5/16	7.93	.44	11.17	.59	14.98	.34	8.6
1/8	3.17	7/16	11.11	.53	13.46	.79	20.06	.50	12.7
3/16	4.76	7/16	11.11	.58	14.73	.84	21.84	.54	13.7
1/4	6.35	1/2	12.70	.62	15.74	.91	23.11	.60	15.2
5/16	7.93	9/16	14.28	.67	17.01	.96	24.38	.64	16.2
3/8	9.52	5/8	15.87	.72	18.28	1.01	26.65	.66	16.2
1/2	12.70	13/16	20.63	.75	19.05	1.15	29.21	.90	16.8
5/8	15.87	15/16	23.81	.78	19.81	1.18	29.97	.96	22.9
3/4	19.05	1-1/16	26.98	.84	21.33	1.24	31.49	.96	24.4
7/8	22.22	1-3/16	30.16	.94	23.88	1.34	34.04	1.02	25.9
1	25.40	1-3/8	34.92	1.03	26.16	1.51	38.35	1.23	31.2

卡套式内螺纹接头 - 用于导管（公制）与NPT标准内螺纹的连接
Sleeve female connectors-For connection of catheter and standard internal thread(NPT)(Metric system)

卡套式内螺纹接头
Sleeve female connectors



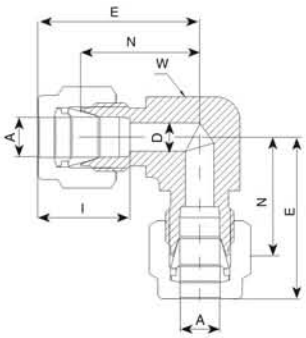


A 导管外径 Outer diameter of catheter 毫米mm	T 美国标准锥管螺纹(NPT) U.S.standard pipe thread(NPT) 英寸inch	D 毫米mm	W 六角螺母横切宽度 Cross-section width of the hex nut 毫米mm	N 毫米mm	L 毫米mm	I 毫米mm
3	1/8	2.4	14	22.1	28.7	12.7
3	1/4	2.4	19	26.9	33.5	12.7
4	1/8	2.4	14	23.1	29.7	13.7
6	1/8	4.8	14	23.9	31.3	15.3
6	1/4	4.8	19	28.4	35.8	15.3
6	3/8	4.8	22	30.2	37.6	15.3
6	1/2	4.8	27	35.1	42.5	15.3
8	1/8	6.4	15	24.6	32.1	16.2
8	1/4	6.4	19	29.5	37.0	16.2
8	3/8	6.4	22	31.0	38.5	16.2
8	1/2	6.4	27	35.8	43.3	16.2
10	1/4	7.9	19	30.2	37.8	17.2
10	3/8	7.9	22	31.8	39.4	17.2
10	1/2	7.9	27	36.6	44.2	17.2
12	1/4	9.5	22	30.2	40.3	22.8
12	3/8	9.5	22	31.8	41.9	22.8
12	1/2	9.5	27	36.6	46.7	22.8

卡套式活接弯头 - 用于导管（公制）与导管（公制）的连接
Sleeve active elbow-For connection of catheter and catheter(Metric system)

卡套式活接弯头
Sleeve active elbow





A 导管外径 Outer diameter of catheter 毫米mm	D 毫米mm	W 六角螺母横切宽度 Cross-section width of the hex nut 毫米mm	英寸inch	N 毫米mm	E 毫米mm	I 毫米mm
3	2.4	9.5	3/8	15.7	22.3	12.9
4	2.4	11.1	7/16	18.8	25.4	13.7
6	4.8	12.5	1/2	19.6	27.0	15.3
8	6.4	16.0	5/8	21.3	28.8	16.2
10	7.9	17.5	11/16	23.9	31.5	17.2
12	9.5	20.6	13/16	25.9	36.0	22.8
14	11.1	24.0	15/16	27.9	38.1	24.4
15	11.9	24.0	15/16	27.9	38.8	24.4
16	12.7	24.0	15/16	27.9	38.0	24.4
18	15.1	28.6	1-1/8	29.7	39.8	24.4
20	15.9	35	1-3/8	34.5	44.6	26.0
22	18.3	35	1-3/8	34.5	44.6	26.0
25	21.8	35.0	1-3/8	36.8	49.1	31.3

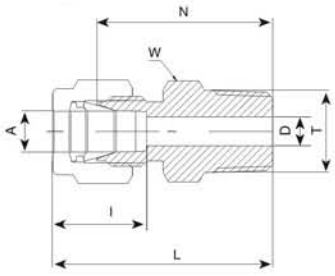
卡套式活接弯头 - 用于导管（英制）与导管（英制）的连接
Sleeve active elbow-For connection of catheter and catheter(Imperial)

A 导管外径 Outer diameter of catheter 英寸inch	毫米mm	D 英寸inch	毫米mm	W 六角螺母横切宽度 Cross-section width of the hex nut 英寸inch	毫米mm	N 英寸inch	毫米mm	E 英寸inch	毫米mm	I 英寸inch	毫米mm
1/8	3.17	.09	2.28	3/8	9.52	.62	15.74	.88	22.35	.50	12.7
3/16	4.76	.12	3.04	1/2	12.70	.75	19.05	1.01	25.65	.54	13.7
1/4	6.35	.19	4.82	1/2	12.70	.77	19.56	1.06	26.92	.60	15.2
5/16	7.93	.25	6.35	5/8	15.87	.84	21.33	1.13	28.7	.64	16.3
3/8	9.52	.28	7.11	5/8	15.87	.91	23.11	1.20	30.48	.66	16.8
1/2	12.70	.41	10.41	13/16	20.63	1.02	25.90	1.42	36.06	.90	22.9
5/8	15.87	.50	12.70	15/16	23.81	1.10	27.94	1.50	38.1	.96	24.4
3/4	19.05	.62	15.74	1-1/8	28.6	1.17	29.71	1.57	39.89	.96	24.4
7/8	22.22	.72	18.28	1-3/16	30.2	1.36	34.5	1.76	44.7	1.02	25.9
1	25.40	.88	22.35	1-3/8	34.92	1.45	36.83	1.93	49	1.23	31.3
*1-1/4	31.75	1.09	27.7	1-11/16	42.9	1.75	44.5	2.62	66.5	1.62	41.1
*1-1/2	38.10	1.34	34.0	2	50.8	2.00	50.8	3.07	78.0	1.97	50.0

卡套式外螺纹接头 - 用于导管（公制）与NPT标准外螺纹的连接
Sleeve male connector-For connection of catheter and standard external thread(NPT)(Metric system)

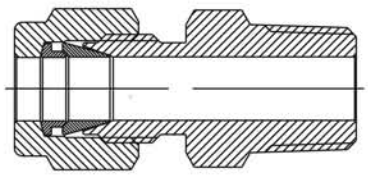
卡套式外螺纹接头
Sleeve male connector





A 导管外径 Outer diameter of catheter 毫米mm	T 美国标准锥管螺纹 (NPT) U.S.standard pipe thread(NPT) 英寸 inch	D 毫米mm	W 六角螺母横切宽度 Cross-section width of the hex nut 毫米mm	N 毫米mm	L 毫米mm	I 毫米mm
3	1/8	2.4	12	23.9	30.5	12.9
3	1/4	2.4	14	29.0	35.6	12.9
4	1/8	2.4	12	24.6	31.2	13.7
4	1/4	2.4	14	29.7	36.3	13.7
6	1/8	4.8	14	25.4	32.8	15.3
6	1/4	4.8	14	30.5	37.9	15.3
6	3/8	4.8	18	31.0	38.4	15.3
6	1/2	4.8	22	37.3	44.7	15.3
8	1/8	4.8	15	26.7	34.2	16.2
8	1/4	6.4	15	31.2	38.7	16.2
8	3/8	6.4	18	31.8	39.3	16.2
8	1/2	6.4	22	31.8	45.6	16.2
10	1/8	4.8	18	28.7	36.3	17.2
10	1/4	7.9	18	33.3	40.9	17.2
10	3/8	7.9	18	33.3	40.9	17.2
10	1/2	7.9	22	38.1	46.5	17.2
10	3/4	7.9	27	40.4	48.0	19.5
12	1/8	4.8	22	28.7	38.8	22.8
12	1/4	7.1	22	33.3	43.4	22.8
12	3/8	9.5	22	33.3	43.4	22.8
12	1/2	9.5	22	30.9	49.0	22.8
12	3/4	9.5	27	40.4	50.5	22.8
14	1/4	7.1	24	34.0	44.1	22.8
14	3/8	9.5	24	34.0	44.1	22.8
14	1/2	11.1	24	38.9	49.0	22.8
15	1/2	11.9	24	38.9	49.0	24.4
16	3/8	9.5	24	34.0	44.1	24.4
16	1/2	11.9	24	38.9	49.0	24.4
16	3/4	12.7	27	40.4	50.5	24.4
18	1/2	11.9	27	40.4	50.5	24.4
18	3/4	15.1	27	40.4	50.5	24.4
20	1/2	11.9	30	42.2	52.3	26.0
20	3/4	15.9	30	42.2	52.3	26.0
22	3/4	15.9	30	42.2	52.3	26.0
22	1	18.3	35	47.0	57.1	26.0
25	1/2	11.9	35	45.2	57.5	31.3
25	3/4	15.9	35	45.2	57.5	31.3
25	1	21.8	35	50.0	62.3	31.3

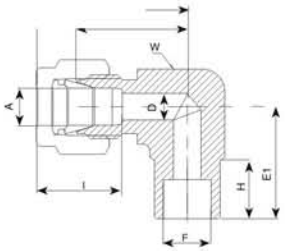
热电偶连接器
Thermocouple connectors



卡套式承插焊接弯头 Sleeve socket welded elbow

卡套式承插焊接弯头
Sleeve socket welded elbow





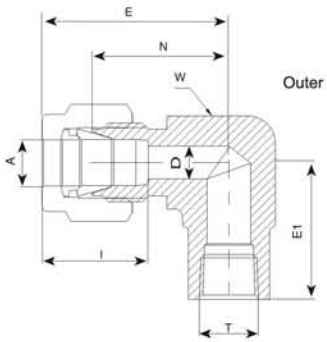
A 导管外径 Outer diameter of catheter		D		W 六角螺母横切宽度 Cross-section width of the hex nut		F		N		H		E		E_1		I	
英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm
1/4	6.35	.19	4.82	1/2	12.70	1/4	6.35	.78	19.81	.31	7.87	1.07	27.17	.78	19.81	0.6	15.2
3/8	9.52	.28	7.11	5/8	15.87	3/8	9.50	.91	23.11	.38	9.65	1.20	30.98	.91	23.11	0.66	16.76
1/2	12.70	.41	10.41	13/16	20.64	1/2	12.70	1.02	25.91	.50	12.70	1.41	35.81	1.02	25.91	0.90	22.9

卡套式内螺纹弯头-用于导管（公制）至美国标准 (NPT)内螺纹的连接

Sleeve internal thread elbow-For connection of catheter(Metric system) and U.S.standard internal thread(NPT)

卡套式内螺纹弯头
Sleeve internal thread elbow





A 导管外径 Outer diameter of catheter		T 美国标准锥管螺纹(NPT) U.S.standard taper pipe thread	D	W 六角螺母横切宽度 Cross-section width of the hex nut		N	E	E_1	I
毫米 mm	英寸 inch	毫米 mm	毫米 mm	英寸 inch	毫米 mm	毫米 mm	毫米 mm	毫米 mm	毫米 mm
6	1/8	4.8	16.0	5/8	19.6	27.0	19.1	17.7	
6	1/4	4.8	20.6	13/16	22.4	29.8	22.4	17.7	
12	1/2	9.5	30.0	1 1/8	28.6	38.8	28.5	22.8	
10	1/4	7.9	20.6	13/16	25.9	33.5	22.4	22.8	
12	1/4	9.5	20.6	13/16	25.9	36.0	22.4	22.8	

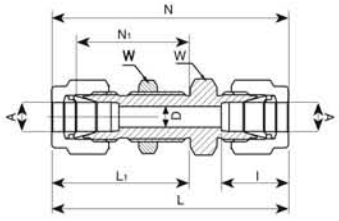
卡套式内螺纹弯头-用于导管（英制）至美国标准 (NPT)内螺纹的连接

Sleeve internal thread elbow-For connection of catheter(Imperial) and U.S. standard internal thread(NPT)

A 导管外径 Outer diameter of catheter		T 美国标准锥管螺纹(NPT) U.S.standard taper pipe thread(NPT)		D	W 六角螺母横切宽度 Cross-section width of the hex nut		N		E		E_1		I	
英寸inch	毫米mm	英寸inch	英寸inch	毫米mm	英寸inch	毫米mm	英寸inch	毫米mm	英寸inch	毫米mm	英寸inch	毫米mm	英寸inch	毫米mm
1/8	3.17	1/8	.09	2.28	5/8	15.87	.71	18.03	.97	24.64	.75	19.05	.50	12.7
1/8	3.17	1/4	.09	2.28	13/16	20.63	.82	20.83	1.08	27.43	.88	22.35	.50	12.7
3/16	4.76	1/8	.12	3.04	5/8	15.87	.74	18.8	1.02	25.9	.75	19.05	.54	13.7
1/4	6.35	1/8	.19	4.82	5/8	15.87	.77	19.56	1.06	26.92	.75	19.05	.60	15.2
1/4	6.35	1/4	.19	4.82	13/16	20.63	.88	22.35	1.17	29.72	.88	22.35	.60	15.2
1/4	6.35	1/2	.19	4.82	15/16	23.8	.96	24.38	1.25	31.75	.88	22.35	.66	15.2
1/4	6.35	1/2	.19	4.82	1-1/8	28.6	1.07	27.18	1.36	34.54	1.12	28.45	.60	15.2
5/16	9.52	1/8	.25	6.35	5/8	15.87	.84	21.34	1.13	28.7	.75	19.05	.60	16.2
5/16	7.93	1/4	.25	6.35	13/16	20.63	.91	23.11	1.20	30.48	.88	22.35	.64	16.2
3/8	7.93	1/8	.28	7.11	5/8	15.87	.75	19.05	1.20	30.48	.75	19.05	.64	16.76
3/8	9.52	1/4	.28	7.11	13/16	20.63	.88	22.35	1.23	31.24	.88	22.35	.66	16.76
3/8	9.52	3/8	.28	7.11	15/16	23.81	.88	22.35	1.31	33.27	.88	22.35	.66	16.76
3/8	9.52	1/2	.28	7.11	1-1/8	28.6	1.12	28.45	1.42	36.07	1.12	28.45	.66	16.76
1/2	12.70	1/4	.41	10.41	13/16	20.63	.88	22.35	1.42	36.07	.88	22.35	.90	22.9
1/2	12.70	3/8	.41	10.41	15/16	23.81	.88	22.35	1.42	36.07	.88	22.35	.90	22.9
1/2	12.70	1/2	.41	10.41	1-1/8	28.6	1.12	28.44	1.53	36.86	1.12	28.44	.90	22.9
5/8	15.87	3/8	.50	12.70	15/16	28.6	.88	22.35	1.50	38.1	.88	22.35	.96	22.9
5/8	15.87	1/2	.50	12.70	1-1/8	28.6	1.12	28.44	1.57	39.88	1.12	28.44	.96	22.9
3/4	19.05	1/2	.62	15.74	1-1/8	28.6	1.12	28.44	1.57	39.88	1.12	28.44	.96	22.9
3/4	19.05	3/4	.62	15.74	1-3/8	34.9	1.25	31.75	1.76	44.7	1.25	31.75	.96	22.9
7/8	22.22	3/4	.72	18.28	1-3/8	34.9	1.25	31.75	1.76	44.7	1.25	31.75	1.02	25.9
1	25.40	3/4	.88	22.35	1-3/8	34.92	1.25	31.75	1.93	49.02	1.25	31.75	1.23	31.24
1	25.40	1	.88	22.35	1-11/16	42.86	1.50	38.10	2.11	53.59	1.50	38.10	1.23	31.24

卡套式穿板直通接头
Sleeve through plate straight joint





卡套式穿板直通接头-用于导管（英制）与导管（英制）的连接
Sleeve through plate straight joint-For connection of catheter and catheter(Imperial)

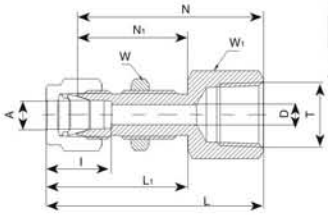
A 导管外径 Outer diameter of catheter		D		W 六角螺母横切宽度 Cross-section width of the hex nut		N		N_1		L		L_1		l		板孔开孔钻头尺寸 Bit size		最大板厚 Maximum thickness	
英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm
1/16	1.58	.05	1.27	5/16	7.93	0.94	23.88	0.53	13.46	1.24	31.5	0.68	17.3	.34	8.6	13/64	5.16	.12	3.05
1/8	3.17	.09	2.28	1/2	12.70	1.50	38.10	0.97	24.63	2.02	51.30	1.23	31.24	.50	12.7	21/64	8.33	.50	12.70
3/16	4.76	.12	3.04	9/16	14.28	1.59	40.38	1.00	25.40	2.11	53.59	1.26	32.00	.54	13.7	25/64	9.92	.50	12.70
1/4	6.35	.19	4.82	5/8	15.87	1.69	42.92	1.03	26.16	2.27	57.65	1.32	33.52	.60	15.2	29/64	11.50	.40	10.16
5/16	7.93	.25	6.35	11/16	17.46	1.81	45.97	1.12	28.44	2.39	60.70	1.41	35.81	.64	16.2	33/64	13.09	.43	10.92
3/8	9.52	.28	7.11	3/4	19.05	1.87	47.5	1.16	29.46	2.45	62.2	1.45	36.83	.66	16.8	37/64	14.68	.44	11.17
1/2	12.70	.41	10.41	15/16	23.81	2.00	50.20	1.25	31.75	2.80	71.12	1.65	41.91	.90	22.9	49/64	19.44	.50	12.70
5/8	15.87	.50	12.7	1-1/16	26.98	2.06	52.32	1.28	32.51	2.86	72.64	1.68	42.67	.96	24.4	57/64	22.62	.50	12.70
3/4	19.05	.50	12.70	1-3/16	30.16	2.31	58.67	1.47	37.33	3.11	78.99	1.87	47.49	.96	24.4	1-1/64	25.79	.66	16.76
1	25.40	.88	22.35	1-5/8	41.27	2.81	71.37	1.78	45.21	3.77	95.76	2.26	57.40	1.23	31.2	1-21/64	33.73	.75	19.05

卡套式穿板直通活接头 - 用于导管（公制）与导管（公制）的连接
Sleeve through plate straight active joint-For connection of catheter and catheter(Metric system)

A 导管外径 Outer diameter of catheter	D	W 六角螺母横切宽度 Cross-section width of the hex nut	N	N_1	L	L_1	l	板孔开孔钻头尺寸 Bit size	最大板厚 Maximum thickness
毫米mm	毫米mm	毫米mm	毫米mm	毫米mm	毫米mm	毫米mm	毫米mm	毫米mm	毫米mm
3	2.4	14.0	38.1	24.6	51.3	31.2	12.9	8.30	12.7
4	2.4	14.0	40.4	25.4	53.6	32.0	13.7	9.90	12.7
6	4.8	16.0	42.9	26.2	57.7	33.6	15.3	11.50	10.2
8	6.4	18.0	46.0	28.6	61.0	36.1	16.2	13.10	11.2
10	7.9	22.0	48.5	29.4	63.7	37.0	17.2	16.25	11.2
12	9.5	24.0	50.8	31.8	71.0	41.9	22.8	19.50	12.7
15	11.9	27.0	52.3	32.5	72.5	42.6	24.4	22.80	12.7
16	12.7	27.0	52.3	32.5	72.5	42.6	24.4	22.80	12.7
18	15.1	30.0	58.7	37.3	78.9	47.4	24.4	26.00	16.8
20	15.9	35.0	64.3	42.9	84.5	53.0	26.0	29.00	23.9
25	21.8	40.0	71.4	45.2	96.0	57.5	31.2	33.70	19.0

卡套式内螺纹穿板接头
Sleeve internal thread through plate joint





卡套式内螺纹穿板接头 - 用于导管（英制）与美国标准（NPT）内螺纹的连接
Sleeve internal thread through plate joint-For connection of catheter (Imperial) and U.S.standard internal thread(NPT)

A 导管外径 Outer diameter of catheter		t 美国标准锥管螺纹 (NPT) U.S.standard taper pipe thread(NPT)		D		W 六角螺母横切宽度 Cross-section width of the hex nut		W_1 六角螺母横切宽度 Cross-section width of the hex nut		N		N_1		L		L_1		l		板孔开孔钻头尺寸 Bit size		最大板厚 Maximum thickness	
英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm	英寸 inch	毫米 mm
1/8	3.17	1/8	.09	2.28	9/16	14.28	1/2	12.70	1.50	38.10	.97	24.63	1.76	44.70	1.23	31.24	0.5	12.7	21/64	8.33	.50	12.70	
1/4	6.35	1/8	.19	4.82	5/8	15.87	5/8	15.87	1.56	39.62	1.03	26.16	1.85	46.99	1.32	33.52	.60	15.2	29/64	11.50	.40	10.16	
1/4	6.35	1/4	.19	4.82	3/4	19.05	5/8	15.87	1.75	44.45	1.03	26.16	2.04	51.81	1.32	33.52	.60	15.2	29/64	11.50	.40	10.16	
3/8	9.52	1/4	.28	7.11	3/4	19.05	3/4	19.05	1.88	47.75	1.16	29.46	2.17	55.11	1.45	36.83	.66	16.8	37/64	14.68	.44	11.17	
1/2	12.70	3/8	.41	10.41	15/16	23.81	15/16	23.81	2.03	51.56	1.25	31.75	2.43	61.72	1.65	41.91	.90	22.9	49/64	19.44	.50	12.70	
1/2	12.70	1/2	.41	10.41	1-1/16	26.98	15/16	23.81	2.22	56.38	1.25	31.75	2.62	66.54	1.65	41.91	.90	22.9	49/64	19.44	.50	12.70	

SWEK® 史威阀

管 件 型 号 释 意

Model interpretation of instrument pipe fittings

L — R — FM — 86 — 6M — SS

1 2 3 4 5 6

1 类 型 Type

符号 Symbol	含义 Meaning
L	弯头类 Elbow
C	直通类 Through
3T	三通类 Tee
4T	四通类 Four way
JH	活接头 Movable joint
JB	仪表接头 Instrument connector
H3	排放环类 Discharge ring
H4	冷凝罐类 Condensation tank
DM	螺堵类 Plug
Q	气源分配器 Gas distributor
其它 Other	届时命名 When naming

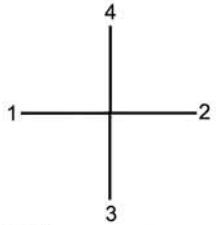
2 特 征 Features

符号 Symbol	含义 Meaning
R	变径 Variable diameter
B	穿板 Go through

3 接口方式 Interface mode

符号 Symbol	含义 Meaning
F	NPT螺孔 NPT Screw hole
M	NPT螺柱 NPT Stud
T	承插孔 Socket
P	接管 Connector
GF	内螺纹 Internal thread
GM	外螺纹 External thread
K	卡套螺母 Sleeve nut

注：按管件接口顺序排列
Note: According to the order of the interface of the pipe fittings.



管件接口顺序，1为最大尺寸端
The order of the interface of the pipe fittings, 1 is the maximum size of the end .

4 接口尺寸 Connection size

数字 Digital	管螺纹 Pipe thread	直径 Diameter	直螺纹 Straight thraed
1	1/8	10	M6
2	1/4	12	M8
3	3/8	14	M10
4	1/2	16	M12
5	5/8	17	M14
6	3/4	18	M16
7	7/8	20	M18
8	1	22	M20
9	1 1/8	25	M22
10	1 1/4	27	M24
11	1 3/8	28	M27
12	1 1/2	32	M30
13	1 5/8	34	M33
14	1 3/4	38	M36
15	1 7/8	42	M39
16	2	45	M42

注：数字位数对应接口顺序，接口相同时，只标注第1位
Note: Number of digits corresponding interface order ,the interface is the same,only marks first digit.

5 压力等级 Pressure

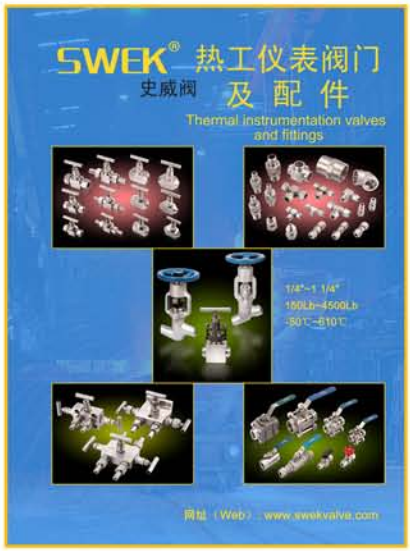
符号 Symbol	MPa	磅级 Class
2M	35	2000
3M	50	3000
6M	100	6000
9M	150	9000

注：螺纹管件压力≤2M时，该项不标注
焊接管件压力≤3M时，该项不标注
Note: When the pressure of the threaded pipe fittings is less than 2M,the term annotation.
When the perssure of the welding pipe fittings is less than 3M,the term annotation.

6 材 料 Material

符号 Symbol	材 料 Material
A	铝合金 Aluminium alloy
B	黄 铜 Brass
C20	20合金钢 20 Alloy steel
CS	碳 钢 Carbon steel
HC	C276合金钢 C276 Alloy steel
IHC	600合金钢 600 Alloy steel
M	400合金钢 400 Alloy steel
NY	尼 龙 Nylon
S1	321
S3	304L
S4	304
S5	316L
SS	316
S7	347
T	聚四氟乙烯 PTFE
TI	钛合金 Titanium alloy



















Distributor（经销商）：