

API 6D ISO9001认证企业
ISO14001 OHSAS18001认证企业
特种设备制造许可认证企业
(压力管道类)

API 6D ISO9001 ISO14001 OHSAS18001
CERTIFIED ENTERPRISE
SPECIAL EQUIPMENT MANUFACTURE
LICENSE CERTIFIED ENTERPRISE

CHV[®]

FTB型锻钢固定式球阀

FTB Forging Steel Trunnion Ball Valve

ASME CLASS 150Lb、300Lb、400Lb、600Lb、
900Lb、1500Lb、2500Lb

GB PN 16、20、25、40、50、63、100、(110)、
150、(160)、(250)、260、420



成都成高阀门有限公司
CHENGDU CHENGGAO VALVE CO., LTD.

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DN20~1500mm(3/4"-60")

CHV FTB 锻钢固定球阀是工厂工程技术人员集四十余年高压阀门设计制造之经验，采用国际最新技术标准开发而成。主要用于石油、天然气的长距离管线输送和城市煤气管道系统。由于长输管线用阀的独有特征，因而在设计时充分考虑了其承受管道应力的能力，以及安全性、耐候性、长期使用的可靠性等；密封、结构设计属工厂独有。操作方式有手动、蜗杆蜗轮驱动、气动、电动、气/液联动、电/液联动，以及各类特殊控制形式。

CHV FTB forging steel trunnion mounted ball valve is developed by the engineering technical personnel from the factory with more than 40 years experience in high pressure valve design and manufacture and the international latest technical standard. The valve is mainly used in long distance pipe line transportation of petroleum and natural gas and gas pipe line system in cities. For the special characteristics in use of the valve by long distance pipe line transportation, full consideration is given in the design to capability in bearing pipe stress, safety, weather resistance and reliability in long time use. The designs of sealing and structure belong exclusively to the factory. The driving types are manual, worm-and-gear, pneumatic, electrical, pneumatic/hydraulic linked, electrical/hydraulic linked and all kinds of special control type.

●主要功能特征:

Major function feature:

- | | |
|---|--|
|  | 1. 截断和排放
Double Block & Bleed |
|  | 2. 安全解压
Safe release |
|  | 3. 可靠密封
Reliable seal |
|  | 4. 火灾安全
Fire Safe |
|  | 5. 清扫管道
Cleaning pipe |
|  | 6. 紧急密封
Emergency seal |
|  | 7. 特殊阀座
Special seat |
|  | 8. 阀盖组合密封
Bonnet combined seal |
|  | 9. 排污
Draining |
|  | 10. 加长阀杆
Extended stem |
|  | 11. 各类驱动方式
Various driving methods |
|  | 12. 连接方式多样
Various end connections |
|  | 13. 阀体材质多样
Diversity of body materials |
|  | 14. 阀座材质多样
Diversity of seat materials |
|  | 15. 各类控制系统
Various kinds of control systems |
|  | 16. 可靠的操作
Reliable operation |
|  | 17. 承受管道应力安全
Bearing pipe stress safety |



结构特点:

Structure characteristics:

● 锻钢结构

Forging steel structure

CHV FTB系列球阀。阀体采用锻钢材料。在最大的额定工作压力下能保证其有足够的强度和刚度，没有铸件所固有的缺陷。阀门内件经过精心设计和选择，确保在各种工况下的可靠性。分体式阀体足够的壁厚和采用高强度的连接螺栓，有利于阀门的保养和维护，并足以承受管道的应力。

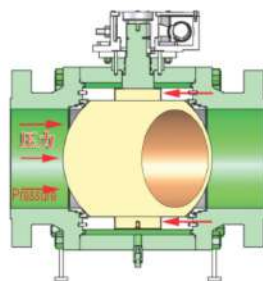
In CHV FTB series ball valve, forging steel material is used for body, which can ensure sufficient rigidity and strength under maximum rated operation pressure without inherent flaw of cast. The internal parts of valve are carefully designed and selected to ensure reliability under all kinds of work condition. Enough wall thickness of separate body and adaptation of high strength tie bolts are convenient for valve maintenance and sufficient to bear the stress of pipe.

● 操作扭矩低

Low torque in operation

FTB系列球阀。球体为固定球，球面经包络线磨球工艺进行磨削抛光硬化处理，与阀杆分离；阀杆为细长轴，表面经硬化处理；球体的轴向载荷经两个较大的自润滑滑动轴承传递给阀体，因而耐磨损，并且操作灵活扭矩低。

In FTB series ball valve, the structure of the ball is trunnion mounted, whose surface is ground, polished with envelope ball milling process and hard face treated. The ball is separated from valve stem that is a slender shaft, whose surface is hard treated. The axial load of ball is transmitted to body by means of two large self lubricated bearings, resulting in wear resistance, flexibility of operation and low torque.



● 先进的球体固定方式

Advanced fixing method of ball

球体是通过上下对称的两个轴承座固定在阀体上，由阀体承受球体的轴向载荷，因此与球体分离的阀杆不承受弯曲载荷，实现纯扭矩操作；同时，球体的轴向载荷更接近中心，作用力半径减小，轴承座位置靠近管道外径，因此受力状况得到改善，使用寿命更持久，密封更可靠。

The ball is fixed on the body by two up-and-down symmetric bearing blocks. The axial load of ball is carried by body; therefore, valve stem separated from ball will not bear curve load to realize pure torque operation. At the same time, the axial load of ball is more near to the center and the radius effort is reduced. The location of bearing seat is near to the pipe external diameter; therefore, force bearing condition is improved, life time is longer and sealing more reliable.

● 可靠的密封

Reliable sealing

阀座密封是由软密封材料与金属支承圈的组件完成；FTB-DR型球阀的阀座密封是由橡胶软密封加金属的组合密封结构，特别适用于含粉尘天然气和含砂原油的恶劣工况。阀座支承圈是轴向浮动的，通过弹簧预压实现阀座的低压密封，并且合理设计阀座的活塞效应，依靠介质自身的压力实现高压密封，从而达到切断介质的目的。同时设计防火密封环实现失火状态下的密封。

The sealing of valve seat is formed by soft sealing material and metal retainer. The seat seal of FTB-DR type ball valve is a combined sealing structure composed of rubber soft seal and metal, which is quite applicable in formidable work conditions of natural gas with dust and crude oil with sand. The seat retainer floats axially and low pressure sealing of valve seat is reached by pre-pressure of spring. In addition, the piston effect of valve seat is designed reasonably, which realizes high pressure sealing by the pressure of transmitter substance and cut off the flow medium. At the same time, fire safe ring is designed to realize sealing under fire condition.



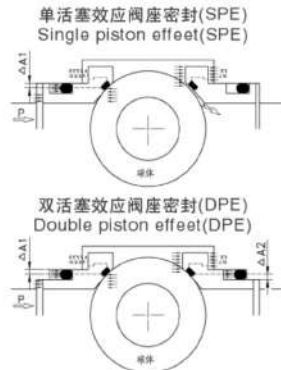
双重密封阀座结构
Double-sealing seat structure

● 阀座活塞效应的原理

Principle of seat piston effect

球阀的密封原理（非强制密封）是依靠介质自身的压力来实现密封，采用的方式通常是利用活塞效应的原理：阀座密封结构有单活塞效应和双活塞效应之分，当上下游阀座都是单活塞效应时，球阀是上游密封，下游自泄压；当上下游阀座都是双活塞效应时，球阀为上下游阀座同时密封，密封可靠性大大提高，但如用于液体介质则须在阀体上加装自动泄压阀，为了实现上下游同时密封又不安装自动泄压阀，则可采用上游为单活塞（上游自泄压），下游为双活塞的密封结构，此时阀门具有主安装方向的要求。

The principle of ball valve seal (not forced sealing) is realized by self pressure of transmitter substance and the method used is generally application of piston effect principle. The seat sealing structure is divided into single piston effect and double piston effect. If both upper and lower valve seats are single piston effects, the upper reach of ball valve is sealed and lower reach of ball valve self-discharges. If both upper and lower seats of ball valve is sealed at the same time and the reliability of sealing is improved greatly. But when it is used in transmitting liquid medium, an automatic release valve is required on the body. In order to realize the sealing of upper and lower reaches at the same time without installation of automatic release valve, the sealing structure of that single piston can be used for upper reach (upper reach automatic discharge) and double piston for lower reach. At this time, there will be a main installation direction requirement.

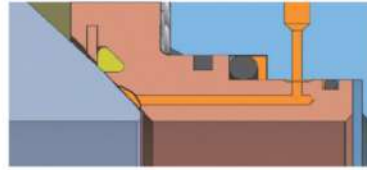


● 紧急密封

Emergency sealing

阀杆/压盖部位和侧阀体阀座支承部位都设计有注脂孔，安装有注脂阀，如果阀杆和/或阀座密封有所损伤而引起泄漏，可使用密封脂实现二次密封。每个注脂阀内都装有一个内藏式止回阀，防止密封脂在介质的作用下外溢，注脂阀顶部为注脂枪快速连接的接头。

Compound injection holes are designed and compound injection valves are installed at locations of stem/cap and +body support of side valve. When sealing of stem and/or seat is damaged to induce leakage, the compound can be used to do the second time sealing. A concealed check-valve is installed in side of each compound injection valve to prevent compound from out flowing due to the action of transmitter substance. The top of the compound injection valve is the connector for fast connection with compound injection gun.



● 双截断和泄放 (DBB)

Double Block & Bleed (DBB)

当球体处于全开或全关位置时，阀体中腔介质可以通过排污和放空装置排放。同时阀门中腔的超压可由自卸压式阀座将其排放到低压端。

When ball is full open or close position, the transmitter substance in center cavity of body can be released by drainage and emptying devices. In addition, the over load pressure in the center cavity of valve can be released to low pressure end by self relief seat.

● 放空装置

Emptying device

在阀体上部加工有NPT放空孔，放空孔在阀体试压后安装放空阀。阀门运行中可对阀体中腔进行放空和清洗。

NPT emptying hole is made on the body and the emptying valve will be installed in the hole after the body pressure test. This emptying device can empty and clean the center cavity of the body during the operation of valve.

● 防火设计

Fire Safe

阀门设计符合API 6FA/API 607标准的要求，并通过了防火测试，试验证明是符合要求的。

The design of valve meets the requirement in API 6FA/API 607 Standard, passes fire safe test that certifies the design is in compliance with the requirements.

● 防静电设计

Anti-static design

由于金属与塑料或橡胶间的摩擦而产生的静电，对于输送易燃、易爆介质是非常危险的。因此，对被塑料或橡胶密封件隔绝了的金属部件（如阀体、球体、阀座支承圈、阀杆）之间的导电性，用不锈钢弹簧来保证符合BS 5351的规定。

The electrostatic produced by friction between metal and plastic or rubber is very hazard to inflammable and explosive transmitter substance transmitted. The conductivity of metal parts (such as body, ball, seat retainer and stem) enclosed by plastic or rubber sealing parts is ensured by stainless steel spring to conform to regulations in BS5351.

● 材料选用

Selection of material

阀门零件的材料选用符合API 6D、ASTM、ASME等规范的要求。对零件的表面处理根据工况不一采用不同的方式，要求抗硫化应力腐蚀则按NACE MR 0175的要求进行。

The selection of valve part material conforms to the requirements in regulations of API 6D, ASTM, ASME and etc. Different methods are used for surface treatment of the parts depending upon different work conditions. If anti sulfured hydrogen stress corrosion is required, the treatment will be done according to the requirement of NACE MR 01-75.

● 接长阀杆

Extension stem

对于直埋式安装阀门，可将阀杆接长，并将相应的注脂排污延伸到阀顶部，便于操作。

For the underground installed valve, the stem can be lengthened and for the convenience of operation the corresponding compound injection nozzle and drainage valve can be extended to the top of valve.

● 操作方式多样

Various driving types

阀门与驱动器的连接盘符合ISO 5211的规定，便于各类驱动器的连接和互换，常用驱动方式有手动、电动、气动、气液联动等。

The top pad of valve designed according to ISO 5211, which is convenient for connection and exchange of various drivers. The common driving types are manual, electrical, pneumatic and pneumatic / hydraulic.

设计标准与规范:

Design codes and regulations:

我公司主要按API6D进行设计、检测，也可按其它标准要求来设计制造，除非客户特殊要求，我公司球阀遵照以下标准。

API:

6D	管线阀门规范
Q1	质量大纲规范
607	软密封和90° 转向阀门的耐火试验
6FA	阀门耐火测试
598	阀门检测和试验
5L	管道规范

ANSI/ASME:

ASME	锅炉和压力容器规范第-section V, VII, IX
B16.5	管法兰和法兰管件连接
B16.10	阀门结构长度
B16.25	焊接端
B16.34	法兰和焊接端阀门
B16.47	大口径钢制法兰
B31.8	气体输送及配气管线系统

MSS-SP:

SP-6	管法兰和连接端法兰接触面标准粗糙度
SP-25	阀门及法兰标识
SP-44	钢制管线法兰
SP-45	旁通及排污连接

NACE:

MR0175	油田设备抗硫应力裂纹材料
TM0177	H ₂ S环境中抗特殊形式的环境开裂材料的实验室试验

BS 5351

石油、石化及相关工业用钢制球阀

ISO 5211

部份回转型阀门驱动装置连接规范

材料规范:

Material regulations:

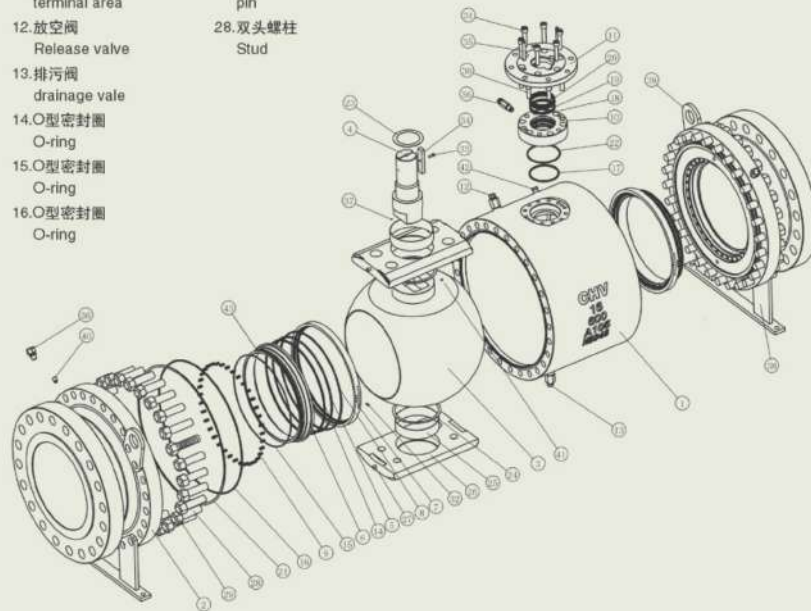
ASTM:

A193/A193M	高温用合金钢和不锈钢螺栓材料
A194/A194M	高压和高温用碳钢和合金钢螺母材料
A313/A313M	铬镍不锈钢和耐热钢弹簧钢丝
A322	标准级合金钢棒材
A105	管道用碳素钢锻件
A350/A350M	要求冲击韧性试验的管件用碳钢及低合金钢锻件标准规范
A694/A694M	高压管路用锻造碳钢和合金钢法兰、管件、阀门及其它部件

阀门部件清单

Details for parts of valve

- | | | | |
|--------------------------|----------------------------|------------------------------------|-----------------------------|
| 1. 阀体
Body | 17. O型密封圈
O-ring | 29. 六角螺母
nut | foot Stand |
| 2. 侧阀体
Cap | 18. O型密封圈
O-ring | 30. 圆柱头螺钉
bolt | 39. 吊耳
lifting lug |
| 3. 球体
Ball | 19. 挡圈
back ring | 31. 圆柱头螺钉
bolt | 40. 止回阀
check-valve |
| 4. 阀杆
Stem | 20. 填料
packing | 32. 阀座退位螺钉
seat back space bolt | 41. 止回阀
check-valve |
| 5. 阀座
Seat | 21. 防火密封垫片
gasket | 33. 圆柱头螺钉
bolt | 42. 安全阀
relief valve |
| 6. 阀座支承
Seat retainer | 22. 防火密封垫片
gasket | 34. 键
pin | 43. 防火密封环
Fire safe ring |
| 7. 阀座压环
Seat ring | 23. 止推轴承
thrust bearing | 35. 定位销
Lock pin | |
| 8. 阀座卡环
Seat clasp | 24. 止推轴承
thrust bearing | 36. 注脂阀
Sealant injection valve | |
| 9. 弹簧
spring | 25. 止推轴承
thrust bearing | 37. 防静电装置
anti-static device | |
| 10. 压盖
Gland | 26. 轴承座
bearing Holder | 38. 脚架 | |
| 11. 联接盘
terminal area | 27. 销
pin | | |
| 12. 放空阀
Release valve | 28. 双头螺柱
Stud | | |
| 13. 排污阀
drainage vane | | | |
| 14. O型密封圈
O-ring | | | |
| 15. O型密封圈
O-ring | | | |
| 16. O型密封圈
O-ring | | | |



阀门主要零部件材质 Material for main parts of valve

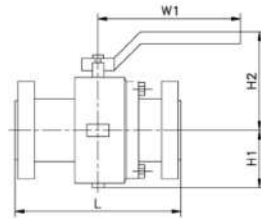
类别 Category	CHV标准（常用材料） CHV standard(generd material)		
阀体 Body	碳钢 Carbon steel	不锈钢 Stainless steel	合金钢 Alloy steel
	ASTM A105	ASTM A182 F304	Gr5Mo
	ASTM A350 LF2	ASTM A182 F316	
球体 Ball	碳钢 Carbon steel	不锈钢 Stainless steel	合金钢 Alloy steel
	ASTM A105	ASTM A182 F304	Gr5Mo
	ASTM A350 LF2	ASTM A182 F316	
阀杆 Stem	碳钢 Carbon steel	不锈钢 Stainless steel	合金钢 Alloy steel
	AISI 1040	ASTM A276 410	AISI 4140
		ASTM A182 F304	
		ASTM A182 F316	
		ASTM A564 Type630(17-4PH)	AISI 4130
阀座 Seat	PTFE, VITON, NYLON		
阀座支承圈 Seat retainer	碳钢 Carbon steel	不锈钢 Stainless steel	合金钢 Alloy steel
	ASTM A105	ASTM A182 F304	Gr5Mo
	ASTM A350 LF2	ASTM A182 F316	

注：表中为阀门主要零部件常用材质，可根据不同工况进行选配。

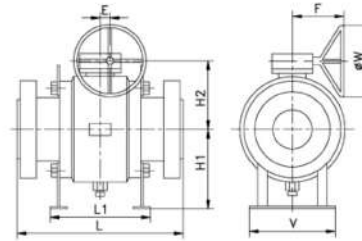
Notes:The table is general material for main parts of valve,with selecting and matching according to different working conditions.

阀门尺寸表

Valve dimension list



TYPE WFTB



TYPE GFTB

ASME CLASS 150Lb GB 16 20 25 bar

mm

通 径 size	L	L	L	L1	V	W1	H1	H2	E	F	OW	TYPE NO.	Wt. kg
DN INCH	RF	RTJ	BWE										
25 1"	127	—	—	—	—	160	61	100	—	—	—	WFTB	7
40 1 1/2"	165	178	190	—	—	280	78	140	—	—	—	WFTB	12
50 x 40 2" x 1 1/2"	178	191	216	—	—	280	78	140	—	—	—	WFTB	15
50 2"	178	191	216	—	—	280	83	149	—	—	—	WFTB	16
80 x 50 3" x 2"	203	216	283	—	—	280	83	149	—	—	—	WFTB	32
80 3"	203	216	283	—	—	400	105	159	—	—	—	WFTB	36
100 x 80 4" x 3"	229	241	305	—	—	400	105	159	—	—	—	WFTB	53
100 4"	229	241	305	—	—	650	130	230	—	—	—	WFTB	70
150 x 100 6" x 4"	394	406	457	—	—	650	130	230	—	—	—	WFTB	94
150 6"	394	406	457	250	310	—	258	306	85	294	450	GFTB	145
200 x 150 8" x 6"	457	470	521	250	310	—	258	306	85	294	450	GFTB	260
200 8"	457	470	521	335	403	—	307	315	116	350	600	GFTB	346
250 x 200 10" x 8"	533	546	559	335	403	—	307	315	116	350	600	GFTB	375
250 10"	533	546	559	378	390	—	350	354	116	350	600	GFTB	540
300 x 250 12" x 10"	610	622	635	378	390	—	350	354	116	350	600	GFTB	675
300 12"	610	622	635	433	440	—	390	404	145	517	600	GFTB	850
350 x 300 14" x 12"	686	699	762	433	440	—	390	404	145	517	600	GFTB	890
350 14"	686	699	762	556	570	—	408	425	145	517	600	GFTB	1060
400 x 300 16" x 12"	762	775	838	433	440	—	390	404	145	517	600	GFTB	1200
400 x 350 16" x 14"	762	775	838	556	570	—	408	425	145	517	600	GFTB	1300
400 16"	762	775	838	610	600	—	458	484	169	573	700	GFTB	1380
450 x 350 18" x 14"	864	876	914	556	570	—	408	425	145	517	600	GFTB	1400
450 x 400 18" x 16"	864	876	914	610	600	—	458	484	169	573	700	GFTB	1455
450 18"	864	876	914	665	640	—	510	522	169	573	700	GFTB	1910
500 x 400 20" x 16"	914	927	991	610	600	—	458	484	169	573	700	GFTB	1810
500 x 450 20" x 18"	914	927	991	665	640	—	510	522	169	573	700	GFTB	2130
500 20"	914	927	991	740	660	—	538	558	169	573	700	GFTB	2300
550 x 450 22" x 18"	1016	—	1092	665	640	—	510	522	169	573	700	GFTB	2315
550 x 500 22" x 20"	1016	—	1092	740	660	—	538	558	169	573	700	GFTB	2400
550 22"	1016	—	1092	832	680	—	585	661	42	696	700	GFTB	2435
600 x 500 24" x 20"	1067	1080	1143	740	660	—	538	558	169	573	700	GFTB	2450
600 x 550 24" x 22"	1067	1080	1143	832	680	—	585	661	42	696	700	GFTB	2750
600 24"	1067	1080	1143	875	850	—	630	712	42	696	700	GFTB	3180
700 x 600 28" x 24"	1245	—	1346	875	850	—	630	712	42	696	700	GFTB	3610
700 28"	1245	—	1346	1000	980	—	705	809	72	745	700	GFTB	4480
800 x 700 32" x 28"	1372	—	1524	1000	980	—	705	809	72	745	700	GFTB	
800 32"	1372	—	1524	1120	1060	—	781	882	72	745	700	GFTB	
900 36"	1524	—	1727	1254	1100	—	860	1006	91	830	700	GFTB	
1000 x 900 40" x 36"				1254	1100	—	860	1006	91	830	700	GFTB	
1000 40"						—			91	830	700	GFTB	
1200 48"						—			85	887	700	GFTB	

ASME CLASS 300Lb GB 40 50 bar

mm

通 径 size	L	L	L	L1	V	W1	H1	H2	E	F	OW	TYPE	Wt.	
DN INCH	RF	RTJ	BWE									NO.	kg	
25	1"	165	—	—	—	160	61	100	—	—	—	WFTB	8	
40	1 1/2"	190	203	190	—	280	78	140	—	—	—	WFTB	15	
50 x 40	2" x 1 1/2"	216	232	216	—	280	78	140	—	—	—	WFTB	18	
50	2"	216	232	216	—	280	83	149	—	—	—	WFTB	33	
80 x 50	3" x 2"	283	298	283	—	280	83	149	—	—	—	WFTB	36	
80	3"	283	298	283	—	400	105	159	—	—	—	WFTB	41	
100 x 80	4" x 3"	305	321	305	—	400	105	159	—	—	—	WFTB	53	
100	4"	305	321	305	—	650	130	230	—	—	—	WFTB	81	
150 x 100	6" x 4"	403	419	457	—	650	130	230	—	—	—	WFTB	105	
150	6"	403	419	457	250	310	—	258	306	85	294	450	GFTB	155
200 x 150	8" x 6"	502	518	521	250	310	—	258	306	85	294	450	GFTB	285
200	8"	502	518	521	335	403	—	307	315	116	350	600	GFTB	360
250 x 200	10" x 8"	568	584	559	335	403	—	307	315	116	350	600	GFTB	390
250	10"	568	584	559	378	390	—	350	354	116	350	600	GFTB	585
300 x 250	12" x 10"	648	664	635	378	390	—	350	354	116	350	600	GFTB	720
300	12"	648	664	635	433	440	—	390	404	145	517	600	GFTB	890
350 x 300	14" x 12"	762	778	762	433	440	—	390	404	145	517	600	GFTB	905
350	14"	762	778	762	556	570	—	408	425	145	517	600	GFTB	1160
400 x 300	16" x 12"	838	854	838	433	440	—	390	404	145	517	600	GFTB	1280
400 x 350	16" x 14"	838	854	838	556	570	—	408	425	145	517	600	GFTB	1350
400	16"	838	854	838	610	600	—	458	484	169	573	700	GFTB	1560
450 x 350	18" x 14"	914	930	914	556	570	—	408	425	145	517	600	GFTB	1500
450 x 400	18" x 16"	914	930	914	610	600	—	458	484	169	573	700	GFTB	1730
450	18"	914	930	914	665	640	—	510	522	169	573	700	GFTB	2420
500 x 400	20" x 16"	991	1010	991	610	600	—	458	484	169	573	700	GFTB	2010
500 x 450	20" x 18"	991	1010	991	665	640	—	510	522	169	573	700	GFTB	2505
500	20"	991	1010	991	740	660	—	538	558	169	573	700	GFTB	2610
550 x 450	22" x 18"	1092	1114	1092	665	640	—	510	522	169	573	700	GFTB	2630
550 x 500	22" x 20"	1092	1114	1092	740	660	—	538	558	169	573	700	GFTB	2670
550	22"	1092	1114	1092	832	680	—	585	661	42	696	700	GFTB	2700
600 x 500	24" x 20"	1143	1165	1143	740	660	—	538	558	169	573	700	GFTB	2950
600 x 550	24" x 22"	1143	1165	1143	832	680	—	585	661	42	696	700	GFTB	3200
600	24"	1143	1165	1143	875	850	—	630	712	42	696	700	GFTB	3025
700 x 600	28" x 24"	1346	1372	1346	875	850	—	630	712	42	696	700	GFTB	4310
700	28"	1346	1372	1346	1000	980	—	705	809	72	745	700	GFTB	5170
800 x 700	32" x 28"	1524	1553	1524	1000	980	—	705	809	72	745	700	GFTB	
800	32"	1524	1553	1524	1120	1060	—	781	882	72	830	700	GFTB	
900	36"	1727	1756	1727	1254	1100	—	860	1006	91	830	700	GFTB	
1000 x 900	40" x 36"				1254	1100	—			91	830	700	GFTB	
1000	40"						—			91	830	700	GFTB	
1200	48"						—			85	887	700	GFTB	

ASME CLASS 400Lb GB 63 bar

mm

通 径 size	L	L	L	L1	V	W1	H1	H2	E	F	OW	TYPE	Wt.	
DN INCH	RF	RTJ	BWE									NO.	kg	
15	1/2"	165	163	165	—	180	—	102	—	—	—	浮动式	6	
20	1/2"	190	190	190	—	180	—	115	—	—	—	浮动式	9	
25	1"	216	216	216	—	280	69	121	—	—	—	WFTB	11	
40	1 1/2"	241	241	241	—	400	87	140	—	—	—	WFTB	22	
50 x 40	2" x 1 1/2"	292	295	292	—	400	87	140	—	—	—	WFTB	23	
50	2"	292	295	292	—	400	93	157	—	—	—	WFTB	39	
80 x 50	3" x 2"	358	359	358	—	400	93	157	—	—	—	WFTB	46	
80	3"	358	359	358	—	650	128	236	—	—	—	WFTB	83	
100 x 80	4" x 3"	406	410	406	—	650	128	236	—	—	—	WFTB	96	
100	4"	406	410	406	254	320	—	154	279	85	294	450	GFTB	120
150 x 100	6" x 4"	495	498	495	254	320	—	185	279	85	294	450	GFTB	192
150	6"	495	498	495	332	310	—	265	277	116	350	600	GFTB	301
200 x 150	8" x 6"	597	600	597	332	310	—	265	277	116	350	600	GFTB	360
200	8"	597	600	597	394	395	—	315	327	145	517	600	GFTB	520
250 x 200	10" x 8"	673	676	673	394	395	—	315	327	145	517	600	GFTB	630
250	10"	673	676	673	452	420	—	355	368	145	517	600	GFTB	760
300 x 250	12" x 10"	762	765	762	452	420	—	355	368	145	517	600	GFTB	880
300	12"	762	765	762	532	530	—	400	425	169	573	700	GFTB	1360
350 x 300	14" x 12"	826	829	826	532	530	—	400	425	169	573	700	GFTB	1480
350	14"	826	829	826	580	598	—	420	449	169	573	700	GFTB	1620
400 x 300	16" x 12"	902	905	902	532	530	—	400	425	169	573	700	GFTB	1700
400 x 350	16" x 14"	902	905	902	580	598	—	420	449	169	573	700	GFTB	1780
400	16"	902	905	902	645	640	—	485	493	169	573	700	GFTB	1860
450 x 350	18" x 14"	978	981	978	580	598	—	420	449	169	573	700	GFTB	1848
450 x 400	18" x 16"	978	981	978	645	640	—	485	493	169	573	700	GFTB	2080
450	18"	978	981	978	730	720	—	530	611	42	696	700	GFTB	2336
500 x 400	20" x 16"	1054	1060	1054	645	640	—	485	493	169	573	700	GFTB	2230
500 x 450	20" x 18"	1054	1060	1054	730	720	—	530	611	42	696	700	GFTB	2450
500	20"	1054	1060	1054	800	760	—	575	654	42	696	700	GFTB	2900
550 x 450	22" x 18"	1143	1153	1143	730	720	—	530	611	42	696	700	GFTB	2950
550 x 500	22" x 20"	1143	1153	1143	800	760	—	575	654	42	696	700	GFTB	3060
550	22"	1143	1153	1143	852	790	—	622	722	72	745	700	GFTB	3340
600 x 500	24" x 20"	1232	1241	1232	800	760	—	575	654	42	696	700	GFTB	3130
600 x 550	24" x 22"	1232	1241	1232	852	790	—	622	722	72	745	700	GFTB	3485
600	24"	1232	1241	1232	930	840	—	658	759	72	745	700	GFTB	3825
700 x 600	28" x 24"	1397	1410	1397	930	840	—	658	759	72	745	700	GFTB	6190
700	28"	1397	1410	1397	1060	1020	—	733	836	72	745	700	GFTB	7030
800 x 700	32" x 28"	1651	1667	1651	1060	1020	—	733	836	72	745	700	GFTB	
800	32"	1651	1667	1651	1236	1160	—	795	977	91	830	700	GFTB	
900	36"	1880	1895	1880	1340	1270	—	890	1098	85	897	700	GFTB	
1000 x 900	40" x 36"				1340	1270	—	890	1098	85	897	700	GFTB	
1000	40"				1450	1490	—	985	1196	85	897	700	GFTB	
1200	48"				1670	1630	—	1160	1373	97	903	700	GFTB	

ASME CLASS 600Lb GB 100 (110) bar

mm

通 径 size	L	L	L	L1	V	W1	H1	H2	E	F	OW	TYPE	Wt.
DN INCH	RF	RTJ	BWE									NO.	kg
15	1/2"	165	163	165	—	—	180	—	102	—	—	浮动式	6
20	1/2"	190	190	190	—	—	180	—	115	—	—	浮动式	9
25	1"	216	216	216	—	—	280	69	121	—	—	WFTB	11
40	1 1/2"	241	241	241	—	—	400	87	140	—	—	WFTB	22
50 × 40	2" × 1 1/2"	292	295	292	—	—	400	87	140	—	—	WFTB	23
50	2"	292	295	292	—	—	400	93	157	—	—	WFTB	39
80 × 50	3" × 2"	356	359	356	—	—	400	93	157	—	—	WFTB	46
80	3"	356	359	356	—	—	650	128	236	—	—	WFTB	83
100 × 80	4" × 3"	432	435	432	—	—	650	128	236	—	—	WFTB	120
100	4"	432	435	432	270	320	—	154	279	85	294	GFTB	150
150 × 100	6" × 4"	559	562	559	290	320	—	185	279	85	294	GFTB	240
150	6"	559	562	559	338	310	—	265	277	116	350	GFTB	377
200 × 150	8" × 6"	660	664	660	338	310	—	265	277	116	350	GFTB	450
200	8"	660	664	660	408	395	—	315	327	145	517	GFTB	650
250 × 200	10" × 8"	787	791	787	408	395	—	315	327	145	517	GFTB	780
250	10"	787	791	787	468	420	—	355	368	145	517	GFTB	950
300 × 250	12" × 10"	838	841	838	468	420	—	355	368	145	517	GFTB	1100
300	12"	838	841	838	532	530	—	400	425	169	573	GFTB	1700
350 × 300	14" × 12"	889	892	889	532	530	—	400	425	169	573	GFTB	1850
350	14"	889	892	889	580	598	—	420	449	169	573	GFTB	2050
400 × 300	16" × 12"	991	994	991	532	530	—	400	425	169	573	GFTB	2150
400 × 350	16" × 14"	991	994	991	580	598	—	420	449	169	573	GFTB	2200
400	16"	991	994	991	659	640	—	485	493	169	573	GFTB	2325
450 × 350	18" × 14"	1092	1095	1092	580	598	—	420	449	169	573	GFTB	2310
450 × 400	18" × 16"	1092	1095	1092	659	640	—	485	493	169	573	GFTB	2600
450	18"	1092	1095	1092	730	720	—	530	611	42	696	GFTB	2920
500 × 400	20" × 16"	1194	1200	1194	659	640	—	485	493	169	573	GFTB	2850
500 × 450	20" × 18"	1194	1200	1194	730	720	—	530	611	42	696	GFTB	3120
500	20"	1194	1200	1194	800	780	—	575	654	42	696	GFTB	3400
550 × 450	22" × 18"	1295	1305	1295	730	720	—	530	611	42	696	GFTB	3450
550 × 500	22" × 20"	1295	1305	1295	800	780	—	575	654	42	696	GFTB	3600
550	22"	1295	1305	1295	872	790	—	622	722	72	745	GFTB	3930
600 × 500	24" × 20"	1397	1407	1397	800	780	—	575	654	42	696	GFTB	3680
600 × 550	24" × 22"	1397	1407	1397	872	790	—	622	722	72	745	GFTB	4100
600	24"	1397	1407	1397	930	840	—	658	759	72	745	GFTB	4500
700 × 600	28" × 24"	1549	1559	1549	930	840	—	658	759	72	745	GFTB	5280
700	28"	1549	1559	1549	1084	1020	—	733	836	72	745	GFTB	
800 × 700	32" × 28"	1778	1794	1778	1084	1020	—	733	836	72	745	GFTB	
800	32"	1778	1794	1778	1236	1160	—	795	977	91	830	GFTB	
900	36"	2083	2099	2083	1340	1270	—	890	1098	85	897	GFTB	
1000 × 900	40" × 36"	2100	2100	2100	1340	1270	—	890	1098	85	897	GFTB	
1000	40"	2100	2100	1450	1490	—	—	985	1196	85	897	GFTB	
1200	48"	2400	2400	1670	1630	—	—	1160	1373	97	903	GFTB	

ASME CLASS 900Lb GB 150 (160) bar

mm

通 径 size	L	L	L	L1	V	W1	H1	H2	E	F	OW	TYPE	Wt.
DN INCH	RF	RTJ	BWE									NO.	kg
15	1/2"	216	216	216	—	—	180	—	117	—	—	浮动式	
20	1/2"	229	229	229	—	—	280	72	146	—	—	WFTB	
25	1"	255	255	255	—	—	280	69	153	—	—	WFTB	
40	1 1/2"	305	305	305	—	—	400	110	147	—	—	WFTB	
50 × 40	2" × 1 1/2"	368	371	368	—	—	400	110	147	—	—	WFTB	
50	2"	368	371	368	—	—	650	129	228	—	—	WFTB	
80 × 50	3" × 2"	381	384	381	—	—	650	129	228	—	—	WFTB	
80	3"	381	384	381	—	—	—	125	256	85	294	GFTB	
100 × 80	4" × 3"	457	460	457	—	—	—	125	256	85	294	GFTB	
100	4"	457	460	457	260	305	—	200	260	116	350	GFTB	
150 × 100	6" × 4"	610	613	610	260	305	—	200	260	116	350	GFTB	
150	6"	610	613	610	367	310	—	280	290	116	350	GFTB	
200 × 150	8" × 6"	737	740	737	367	310	—	280	290	116	350	GFTB	
200	8"	737	740	737	454	360	—	355	354	145	517	GFTB	
250 × 200	10" × 8"	838	841	838	454	360	—	355	354	145	517	GFTB	
250	10"	838	841	838	503	500	—	395	406	169	573	GFTB	
300 × 250	12" × 10"	965	968	965	503	500	—	395	406	169	573	GFTB	
300	12"	965	968	965	616	560	—	445	454	169	573	GFTB	
350 × 300	14" × 12"	1029	1038	1029	616	560	—	445	454	169	573	GFTB	
350	14"	1029	1038	1029	—	—	—	169	573	700	GFTB		
400 × 300	16" × 12"	1130	1140	1130	616	560	—	445	454	169	573	GFTB	
400 × 350	16" × 14"	1130	1140	1130	—	—	—	169	573	700	GFTB		
400	16"	1130	1140	1130	—	—	—	42	696	700	GFTB		
450 × 350	18" × 14"	1219	1232	1219	—	—	—	169	573	700	GFTB		
450 × 400	18" × 16"	1219	1232	1219	—	—	—	42	696	700	GFTB		
450	18"	1219	1232	1219	—	—	—	42	696	700	GFTB		
500 × 400	20" × 16"	1321	1334	1321	—	—	—	42	696	700	GFTB		
500 × 450	20" × 18"	1321	1334	1321	—	—	—	42	696	700	GFTB		
500	20"	1321	1334	1321	—	—	—	72	745	700	GFTB		
600 × 500	24" × 20"	1549	1568	1549	—	—	—	72	745	700	GFTB		
600 × 550	24" × 22"	1549	1568	1549	—	—	—	91	830	700	GFTB		
600	24"	1549	1568	1549	1018	1050	—	710	856	91	830	GFTB	
700 × 600	28" × 24"	1753	1775	1753	1018	1050	—	710	856	91	830	GFTB	
700	28"	1753	1775	1753	1162	1210	—	768	931	91	830	GFTB	
900	36"	2286	2315	—	1420	1410	—	940	1140	97	903	GFTB	
1000 × 900	40" × 36"	—	—	—	1420	1410	—	940	1140	97	903	GFTB	
1000	40"	—	—	—	—	—	—	97	903	700	GFTB		
1200	48"	—	—	—	—	—	—	73	1080	800	GFTB		

ASME CLASS 1500Lb GB (250) 260 bar

mm

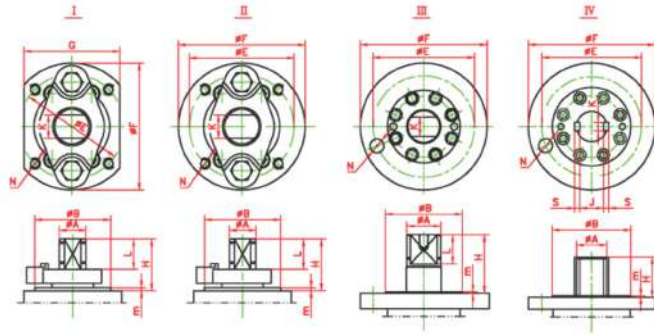
通 径 size		L	L	L	L1	V	W1	H1	H2	E	F	ØW	TYPE NO.	Wt. kg
DN	INCH	RF	RTJ	BWE										
15	1/2"	216	216	216	—	—	180	—	117	—	—	—	浮动式	
20	3/4"	229	229	229	—	—	280	72	146	—	—	—	WFTB	
25	1"	255	255	255	—	—	280	69	153	—	—	—	WFTB	
40	1 1/2"	305	305	305	—	—	400	110	147	—	—	—	WFTB	
50 × 40	2" × 1 1/2"	368	371	368	—	—	400	110	147	—	—	—	WFTB	
50	2"	368	371	368	—	—	650	129	228	—	—	—	WFTB	
80 × 50	3" × 2"	470	473	470	—	—	650	129	228	—	—	—	WFTB	
80	3"	470	473	470	—	—	—	155	230	116	350	600	GFTB	
100 × 80	4" × 3"	546	549	546	—	—	—	155	230	116	350	600	GFTB	
100	4"	546	549	546	—	—	—	187	260	116	350	600	GFTB	
150 × 100	6" × 4"	705	711	705	—	—	—	187	260	116	350	600	GFTB	
150	6"	705	711	705	384	390	—	291	330	145	517	600	GFTB	
200 × 150	8" × 6"	832	841	832	384	390	—	291	330	145	517	600	GFTB	
200	8"	832	841	832	474	400	—	350	378	169	573	700	GFTB	
250 × 200	10" × 8"	991	1000	991	474	400	—	350	378	169	573	700	GFTB	
250	10"	991	1000	991	558	470	—	410	443	169	573	700	GFTB	
300 × 250	12" × 10"	1130	1146	1130	558	470	—	410	443	169	573	700	GFTB	
300	12"	1130	1146	1130	—	—	—	—	—	169	573	700	GFTB	
350 × 300	14" × 12"	1257	1276	1257	—	—	—	—	—	169	573	700	GFTB	
350	14"	1257	1276	1257	—	—	—	—	—	42	696	700	GFTB	
400 × 300	16" × 12"	1384	1407	1384	—	—	—	—	—	169	573	700	GFTB	
400 × 350	16" × 14"	1384	1407	1384	—	—	—	—	—	42	696	700	GFTB	
400	16"	1384	1407	1384	—	—	—	—	—	42	696	700	GFTB	
450 × 350	18" × 14"	1537	1559	1537	—	—	—	—	—	169	573	700	GFTB	
450 × 400	18" × 16"	1537	1559	1537	—	—	—	—	—	42	696	700	GFTB	
450	18"	1537	1559	1537	—	—	—	—	—	72	745	700	GFTB	
500 × 400	20" × 16"	1664	1686	1664	—	—	—	—	—	42	696	700	GFTB	
500 × 450	20" × 18"	1664	1686	1664	—	—	—	—	—	72	745	700	GFTB	
500	20"	1664	1686	1664	—	—	—	—	—	91	830	700	GFTB	
600 × 500	24" × 20"	—	1972	—	—	—	—	—	—	91	830	700	GFTB	
600 × 550	24" × 22"	—	1972	—	—	—	—	—	—	97	903	700	GFTB	
600	24"	—	1972	—	—	—	—	—	—	97	903	700	GFTB	

ASME CLASS 2500Lb GB 420 bar

mm

通 径 size		L	L	L	L1	V	W1	H1	H2	E	F	ØW	TYPE NO.	Wt. kg
DN	INCH	RF	RTJ	BWE										
25	1"	308	308	308	—	—	400	98	135	—	—	—	WFTB	
40	1 1/2"	384	384	384	—	—	650	135	222	—	—	—	WFTB	
50 × 40	2" × 1 1/2"	451	454	451	—	—	650	135	222	—	—	—	WFTB	
50	2"	451	454	451	—	—	—	135	269	85	294	600	GFTB	
80 × 50	3" × 2"	578	584	578	—	—	—	135	269	85	294	600	GFTB	
80	3"	578	584	578	—	—	—	181	261	116	350	600	GFTB	
100 × 80	4" × 3"	673	683	673	—	—	—	181	261	116	350	600	GFTB	
100	4"	673	683	673	350	370	—	225	296	145	517	600	GFTB	
150 × 100	6" × 4"	914	927	914	350	370	—	225	296	145	517	600	GFTB	
150	6"	914	927	914	452	410	—	287	369	169	573	700	GFTB	
200 × 150	8" × 6"	1022	1038	1022	452	410	—	287	369	169	573	700	GFTB	
200	8"	1022	1038	1022	540	560	—	350	408	169	573	700	GFTB	
250 × 200	10" × 8"	1422	1445	1422	540	560	—	350	408	169	573	700	GFTB	
250	10"	1270	1292	1270	655	630	—	395	527	42	696	700	GFTB	
300 × 250	12" × 10"	1422	1445	1422	655	630	—	395	527	42	696	700	GFTB	

接盘连接尺寸 Dimensions of Top Connection



ASME CLASS 150Lb 300Lb GB16 20 25 40 50 bar

缩径 reduced bore	全径 full bore	类型 type	OA	OB	H	m	L	J	K	S	OE	OF	G	N	ISO5211
-	1"	I	16	35	24	2	12	-	10	-	50	-	-	4-M6	F05
2" x 1 1/2"	1 1/2"		20	55	38	2	22	-	12	-	70	92	70	4-M8	F07
3" x 2"	2"		20	55	38	2	22	-	12	-	70	92	70	4-M8	F07
4" x 3"	3"		26	55	48	2	32	-	17	-	70	92	70	4-M8	F07
6" x 4"	4"		34	70	48	2	32	-	22	-	102	125	95	4-M10	F10
8" x 6"	6"	III	44	100	84	2	38	-	27	-	140	175	-	4-Ø19	F14
10" x 8"	8"	IV	50	130	66	2	-	39	14	9.0	165	210	-	4-Ø23	F16
12" x 10"	10"		50	130	66	2	-	39	14	9.0	165	210	-	4-Ø23	F16
14" x 12"	12"		64	200	83	3	-	52	18	11.6	254	300	-	8-Ø19	F25
16" x 14"	14"		64	200	83	3	-	52	18	11.6	254	300	-	8-Ø19	F25
18" x 16"	16"		75	200	108	3	-	61	20	12.6	254	300	-	8-Ø19	F25
20" x 18"	18"		75	200	108	3	-	61	20	12.6	254	300	-	8-Ø19	F25
24" x 20"	20"		85	200	108	3	-	69	24	15.6	254	300	-	8-Ø19	F25
-	22"		100	230	138	3	-	82	28	17.6	298	350	-	8-Ø23	F30
28" x 24"	24"		100	230	138	3	-	82	28	17.6	298	350	-	8-Ø23	F30
32" x 28"	28"		120	260	190	3	-	100	32	19.6	356	415	-	8-Ø33	F35
36" x 30"	30"		120	260	190	3	-	100	32	19.6	356	415	-	8-Ø33	F35
36" x 32"	32"		120	260	190	3	-	100	32	19.6	356	415	-	8-Ø33	F35
40" x 36"	36"		140	300	190	3	-	118	35	22.6	406	475	-	8-Ø39	F40
48" x 40"	40"		140	300	190	3	-	118	35	22.6	406	475	-	8-Ø39	F40
-	48"		150	300	248	3	-	110	36	36	406	475	-	8-Ø39	F40

ASME CLASS 400Lb 600Lb GB63 100 (110) bar

缩径 reduced bore	全径 full bore	类型 type	OA	OB	H	m	L	J	K	S	OE	OF	G	N	ISO5211
2" x 1 1/2"	1 1/2"	II	20	55	38	2	22	-	12	-	70	92	70	4-M8	F07
3" x 2"	2"		26	55	48	2	33	-	17	-	70	90	-	4-M8	F07
4" x 3"	3"		34	70	48	2	34	-	22	-	102	118	-	4-M10	F10
6" x 4"	4"	III	44	100	85	2	38	-	27	-	140	175	-	4-Ø19	F14
8" x 6"	6"	IV	50	130	66	2	-	39	14	9.0	165	210	-	4-Ø23	F16
10" x 8"	8"		64	200	85	3	-	52	18	11.6	254	300	-	8-Ø19	F25
12" x 10"	10"		64	200	85	3	-	52	18	11.6	254	300	-	8-Ø19	F25
14" x 12"	12"		75	200	108	3	-	61	20	12.6	254	300	-	8-Ø19	F25
16" x 14"	14"		75	200	108	3	-	61	20	12.6	254	300	-	8-Ø19	F25
18" x 16"	16"		85	200	108	3	-	69	24	15.6	254	300	-	8-Ø19	F25
20" x 18"	18"		100	230	138	3	-	82	28	17.6	298	350	-	8-Ø23	F30
24" x 20"	20"		100	230	138	3	-	82	28	17.6	298	350	-	8-Ø23	F30
-	22"		100	230	138	3	-	82	28	17.6	298	350	-	8-Ø23	F30
28" x 24"	24"		120	260	190	3	-	100	32	19.6	356	415	-	8-Ø33	F35
32" x 28"	28"		120	260	190	3	-	100	32	19.6	356	415	-	8-Ø33	F35
36" x 30"	30"		140	300	190	3	-	118	35	22.6	406	475	-	8-Ø39	F40
36" x 32"	32"		140	300	190	3	-	118	35	22.6	406	475	-	8-Ø39	F40
40" x 36"	36"		150	300	248	3	-	110	36	36	406	475	-	8-Ø39	F40
48" x 40"	40"		150	300	248	3	-	110	36	36	406	475	-	8-Ø39	F40
-	48"		175	370	283	3	-	133	38	38	483	560	-	12-Ø39	F48

ASME CLASS 900Lb GB150 (160) bar

缩径 reduced bore	全径 full bore	类型 type	QA	QB	H	m	L	J	K	S	QE	QF	G	N	ISO5211
2" x 1 1/2"	1 1/2"	II	26	55	48	2	33	-	17	-	70	90	-	4-M8	F07
3" x 2"	2"		34	70	48	2	34	-	22	-	102	120	-	4-M10	F10
4" x 3"	3"	III	34	100	48	2	34	-	22	-	140	175	-	4-Ø19	F14
6" x 4"	4"		50	130	66	2	-	39	14	9.0	165	210	-	4-Ø23	F16
8" x 6"	6"	IV	50	130	66	2	-	39	14	9.0	165	210	-	4-Ø23	F16
10" x 8"	8"		64	200	85	3	-	52	18	11.6	254	300	-	8-Ø19	F25
12" x 10"	10"		75	200	108	3	-	61	20	12.6	254	300	-	8-Ø19	F25
14" x 12"	12"		85	200	108	3	-	69	24	15.6	254	300	-	8-Ø19	F25
16" x 14"	14"		85	200	108	3	-	69	24	15.6	254	300	-	8-Ø19	F25
18" x 16"	16"		100	230	138	3	-	82	28	17.6	298	350	-	8-Ø23	F30
20" x 18"	18"		100	230	138	3	-	82	28	17.6	298	350	-	8-Ø23	F30
24" x 20"	20"		120	260	190	3	-	100	32	19.6	356	415	-	8-Ø33	F35
28" x 24"	24"		140	300	190	3	-	118	35	22.6	406	475	-	8-Ø39	F40
32" x 28"	28"		140	300	190	3	-	118	35	22.6	406	475	-	8-Ø39	F40
36" x 30"	30"		150	300	248	3	-	110	36	36	406	475	-	8-Ø39	F40
36" x 32"	32"		150	300	248	3	-	110	36	36	406	475	-	8-Ø39	F40
40" x 36"	36"		175	370	283	3	-	133	38	38	483	560	-	12-Ø39	F48
48" x 40"	40"		175	370	283	3	-	133	38	38	483	560	-	12-Ø39	F48
-	48"		190	470	318	3	-	139	45	45	603	686	-	20-Ø39	F60

ASME CLASS 1500Lb GB(250) 260 bar

缩径 reduced bore	全径 full bore	类型 type	QA	QB	H	m	L	J	K	S	QE	QF	G	N	ISO5211
2" x 1 1/2"	1 1/2"	II	26	55	48	2	33	-	17	-	70	90	-	4-M8	F07
3" x 2"	2"		34	70	48	2	34	-	22	-	102	120	-	4-M10	F10
4" x 3"	3"	IV	50	130	66	2	-	39	14	9.0	165	210	-	4-Ø23	F16
6" x 4"	4"		50	130	66	2	-	39	14	9.0	165	210	-	4-Ø23	F16
8" x 6"	6"		64	200	85	3	-	52	18	11.6	254	300	-	8-Ø19	F25
10" x 8"	8"		75	200	108	3	-	61	20	12.6	254	300	-	8-Ø19	F25
12" x 10"	10"		85	200	108	3	-	69	24	15.6	254	300	-	8-Ø19	F25
14" x 12"	12"		85	200	108	3	-	69	24	15.6	254	300	-	8-Ø19	F25
16" x 14"	14"		100	230	138	3	-	82	28	17.6	298	350	-	8-Ø23	F30
18" x 16"	16"		100	230	138	3	-	82	28	17.6	298	350	-	8-Ø23	F30
20" x 18"	18"		120	260	190	3	-	100	32	19.6	356	415	-	8-Ø33	F35
24" x 20"	20"		140	300	190	3	-	118	35	22.6	406	475	-	8-Ø39	F40
28" x 24"	24"		175	370	283	3	-	133	38	38	483	560	-	12-Ø39	F48

ASME CLASS 2500Lb GB420 bar

缩径 reduced bore	全径 full bore	类型 type	QA	QB	H	m	L	J	K	S	QE	QF	G	N	ISO5211
1 1/2" x 1"	1"	II	26	55	43	2	33	-	17	-	70	106	-	4-M8	F07
2" x 1 1/2"	1 1/2"		34	70	44	2	34	-	22	-	102	120	-	4-M10	F10
3" x 2"	2", 2 1/2"	III	44	100	84	2	38	-	27	-	140	175	-	4-M16	F14
4" x 3"	3"	IV	50	130	66	2	-	39	14	9.0	165	210	-	4-Ø23	F16
6" x 4"	4"		64	200	85	3	-	52	18	11.6	254	300	-	8-Ø19	F25
8" x 6"	6"		75	200	108	3	-	61	20	12.6	254	300	-	8-Ø19	F25
10" x 8"	8"		85	200	108	3	-	69	24	15.6	254	300	-	8-Ø19	F25
12" x 10"	10"		100	230	138	3	-	82	28	17.6	298	350	-	8-Ø23	F30
-	12"		100	230	138	3	-	82	28	17.6	298	350	-	8-Ø23	F30

阀体·阀座·O型密封圈 Body, seat and O-ring

温度-压力额定值 Temperature-pressure capacity value

软密封球阀的使用温度、压力额定值不仅取决于阀体材质，而且取决于密封材料，如阀座、O型密封圈、阀杆填料。
The operation temperature and pressure rated value of soft sealing valve does not only depend upon the body material, but also the sealing material, such as seat, O-ring and stem packing.

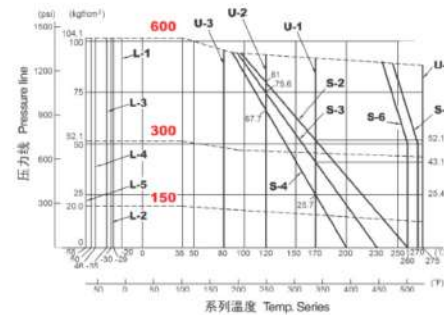
阀体 温度-压力额定值 Body temperature-pressure rated value

下表列出了主要阀体材料的温度压力额定值。它是按照美国标准ASME/ANSI B16.34定出。
The temperature and pressure rated value of main body materials are listed in the table below. It is determined according to America standard ASME/ANSI B16.34

温度 Temperature	最大工作压力 Maximum operation pressure											
	150Lb		300Lb		400Lb		600Lb		900Lb		1500Lb	
"F °C	A105,LF2	ASTM A182 F316	A105,LF2	ASTM A182 F316	A105,LF2	ASTM A182 F316	A105,LF2	ASTM A182 F316	A105,LF2	ASTM A182 F316	A105,LF2	ASTM A182 F316
Up to Up to	bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	bar
100 38	19.7	19	51	49.6	68.3	66.2	102	99.3	153.1	148.9	255.5	248.2
200 93	17.9	16.5	46.5	42.7	62.1	56.9	93.1	85.5	139.6	128.2	232.7	213.4
300 149	15.9	14.8	45.2	38.6	60.3	51.4	90.7	77.2	135.8	115.8	226.1	192.7
400 204	13.8	13.4	43.8	35.5	58.3	47.2	87.6	71.0	131.0	106.2	218.6	177.2
500 264	11.7	11.7	41.4	33.1	55.2	43.8	82.7	65.8	123.8	98.9	206.5	164.8

阀座·O型密封圈 温度-压力额定值 Seat, O-ring Temperature-pressure rated value

Class 150 / 300 / 600

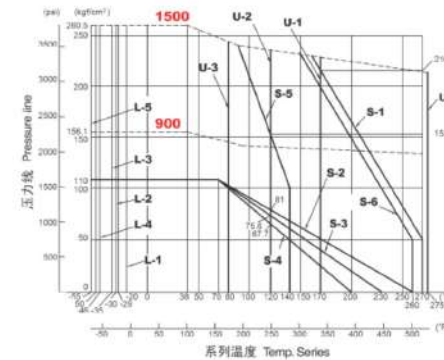


阀座类别

Type of seat

- S-1: PEEK
- S-2: 碳纤维(Carbon fiber)+PTFE
- S-3: (1)玻纤(Glass fiber)+PTFE
(2)玻纤(Glass fiber)+PTFE+MoS2
- S-4: Virgin PTFE
- S-5: Nylon+MoS2
- S-6: PPL

Class 900 / 1500



O型密封圈温度上限

Upper limit for O-ring temperature

- U-1: (1)FPM(不锈钢阀用for stainless steel valves)
(2)低温(Low temperature)FPM
- U-2: (1)EPDM (2)ECO
- U-3: (1)NBR (2)低温(Low temperature)NBR
- U-4: Kalrez(6375)

O型密封圈温度下限

Lower limit for O-ring temperature

- L-1: FPM(不锈钢阀用for stainless steel valves)
- L-2: (1)EPDM (2)NBR
- L-3: 低温(Low temperature)FPM
- L-4: ECO
- L-5: 低温(Low temperature)NBR

固定球阀操作扭矩表
Trunnion Mounted Ball Valve Open torque

PN 扭矩 torque	DN	150Lb(2.0MPa)		300Lb(5.0MPa)		400Lb(6.4MPa)		600Lb(10.0MPa)		900Lb(15.0MPa)		1500Lb(25.0MPa)		2500Lb(42.0MPa)	
		扭矩 Torque 全压差下 full differential pressure	扭矩 Torque 全压差下 full differential pressure	扭矩 Torque 全压差下 full differential pressure	扭矩 Torque 全压差下 full differential pressure	扭矩 Torque 全压差下 full differential pressure	扭矩 Torque 全压差下 full differential pressure	扭矩 Torque 全压差下 full differential pressure	扭矩 Torque 全压差下 full differential pressure	扭矩 Torque 全压差下 full differential pressure	扭矩 Torque 全压差下 full differential pressure	扭矩 Torque 全压差下 full differential pressure	扭矩 Torque 全压差下 full differential pressure	扭矩 Torque 全压差下 full differential pressure	扭矩 Torque 全压差下 full differential pressure
1"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1 1/2"	2" x 1 1/2"	246	246	246	246	246	246	246	246	246	246	246	246	246	246
2"	3" x 2"	74	246	95	246	102	246	128	246	161	246	215	627	950	1377
3"	4" x 3"	157	627	194	627	208	1377	253	1377	312	1377	445	8836	1580	8836
4"	6" x 4"	253	1377	309	1377	330	2722	401	2722	695	2722	798	8836	2300	16986
6"	8" x 6"	460	2722	641	2722	697	8836	902	8836	1318	8836	2231	16986	5500	27336
8"	10" x 8"	762	8836	1253	8836	1388	16986	1827	16986	2475	16986	4238	27336	11800	39793
10"	12" x 10"	1183	8836	1703	8836	1902	16986	2550	16986	4105	16986	6496	39793	19500	64796
12"	14" x 12"	1654	16986	2531	16986	2774	27336	3560	27336	5190	27336	7840	39793	—	—
14"	16" x 14"	2338	16986	3183	16986	3670	27336	5026	27336	7501	39793	10865	64796	—	—
16"	18" x 16"	2813	27336	4069	27336	4569	39793	7000	39793	9042	64796	12422	64796	—	—
18"	20" x 18"	3982	27336	5878	27336	7070	64796	9868	64796	13718	64796	—	—	—	—
20"	24" x 20"	4647	39793	7544	39793	9085	64796	12398	64796	18294	100090	—	—	—	—
22"	24" x 22"	5837	64796	9906	64796	11484	64796	14565	64796	23106	100090	—	—	—	—
24"	28" x 24"	7702	64796	11948	64796	13428	100090	17639	100090	27208	158940	—	—	—	—
26"	—	9467	64796	15184	64796	16565	100090	20497	100090	31800	158940	—	—	—	—
28"	32" x 28"	11251	100090	17299	100090	18730	100090	25326	100090	35276	158940	—	—	—	—
30"	36" x 30"	12639	100090	19194	100090	21322	158940	29577	158940	41116	222860	—	—	—	—
32"	36" x 32"	14233	100090	21263	100090	24293	158940	34718	158940	53318	222860	—	—	—	—
34"	—	16064	100090	22444	100090	26832	158940	38025	158940	57998	222860	—	—	—	—
36"	40" x 36"	18115	158940	28510	158940	30620	222860	43284	222860	66058	335266	—	—	—	—
40"	48" x 40"	21032	158940	33989	158940	38944	222860	65250	222860	93880	335266	—	—	—	—
42"	—	24208	222860	38605	222860	44110	335266	73995	335266	—	—	—	—	—	—
48"	—	—	—	—	—	—	335266	105050	335266	146100	444431	—	—	—	—

备注:

Remark:

1.驱动装置公称扭矩=阀门全压差下开启扭矩×1.5倍安全系数。

Nominal torque of driving device=valve open torque under full pressure head×1.5 time of safety factor.

2.上述数据为干燥的气体或液体介质测得,如为二相介质不干净则数据有所变化。

The above data is detected under the condition of clean gas or liquid transmitter substance. The data detected will vary a little if two-phase transmitter substance is not clean.

锻钢球阀型号编制方法 Forging Steel Ball Valve Model Description

