

球阀被广泛的应用在石油炼制、化工、造纸、制药、食品、水力、市政、钢铁等行业。其中抗硫系列球阀特别适用于含硫化氢介质、杂质多、腐蚀严重的天然气长输管线。

Ball valves are widely used in petroleum refining, chemical, paper making, pharmacy, food, water power, municipal, steel and other industries. Among them, sulfur-resistant series ball valves are particularly suitable for long-distance pipeline for transmission of high-corrosion natural gas with sulphuretted hydrogen medium and many impurities.

球阀的全通径及缩径结构 FULL & REDUCE BORE

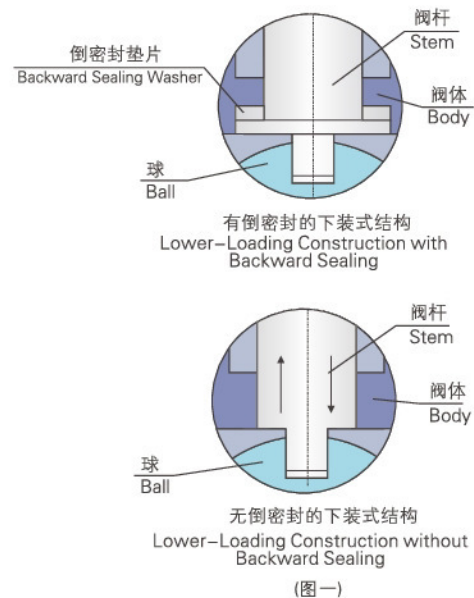
为满足客户的不同需求，球阀设有全通及缩径两大系列。全通径球阀的通道内径与管线内径一致，不但流体阻力最小，也便于管道清理。而缩径球阀的流体阻力比相同口径截止阀的流体阻力要低很多，重量比相同口径的球阀要轻30%左右，有效的降低了生产成本及价格，因而遂得到了较为广泛的使用。

In order to meet different needs of customers, we provide two series of ball valves, full bore and reduced bore ball valves. The channel inner diameter of full bore ball valves is consistent with the inner diameter of pipeline, which can not only minimize the fluid resistance but also facilitate pipeline cleaning. The fluid resistance of necked bore ball valves is much less than that of the globe valve with the same caliber while its weight is 30% lighter than ball valves with the same caliber. As a result, it can effectively reduce both the production cost and price, and is relatively widely used.

阀杆防冲出及有效密封结构 BLOW – OUT PROOF STEM

阀杆采用下装式、设置带有密封垫片的倒密封结构，倒密封的密封力随阀腔介质压力的增高而增大，从而确保阀杆的密封效果。当阀腔异常升压时，阀杆不会被冲出。填料采用设计合理的V型结构、能将阀腔内部的介质压力及外部压盖的锁紧力有效的转化成阀杆的密封力(如图一)。

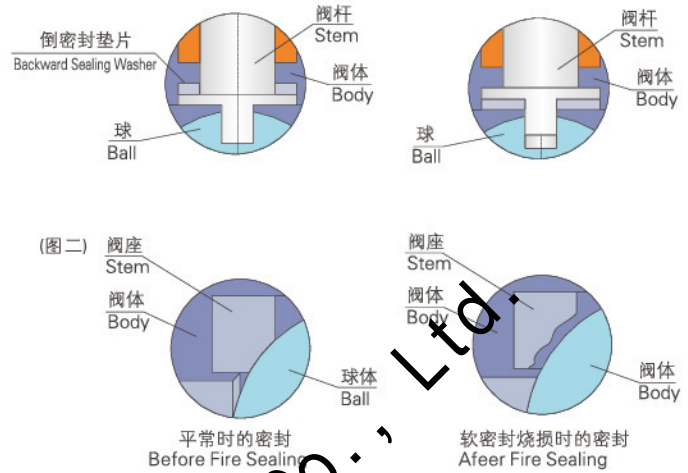
The stem is downloading with its inverted sealing structure with sealing gasket. The force of inverted sealing structure will increase while the medium pressure in the valve cavity increases, to ensure the sealing effect of the stem. In case of abnormal pressure increasing of the valve cavity, the stem won't be impacted out. The filler is designed with proper V-shaped structure, which can effectively convert the medium pressure inside the valve cavity and the locking force of outer gland into the sealing force of stem (Figure 1).



**耐火结构
FIRE SAFE SEAT SEALING**

根据用户的需要，球阀可设计成耐火结构，当万一发生火灾而使密封圈烧损时，球阀的各个密封部位均能形成金属对金属的硬密封结构，有效阻止介质的扩散，防止火灾扩大(如图二)。

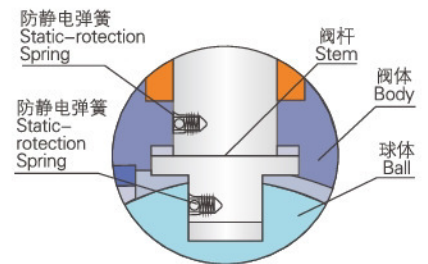
According to the user's requirement, the ball valve can be designed with fire-resistant structure. In case of a fire and the sealing ring is damaged, every sealing part of the ball valve can form the structure of metal-to-metal hard seal, which can prevent the spreading of both the media and fire (Figure 2).



**防静电结构
STATIC-PROTECTING CONSTRUCTION**

根据用户需要，球阀可设计防静电结构，即在球体与阀杆、阀杆与阀体之间设置导电弹簧，使阀门在开启过程中产生的静电能通过所设置的静电通道传入管路导入地下，达到清除静电的目的。避免静电打火点燃易燃介质，确保系统安全。(如图九)

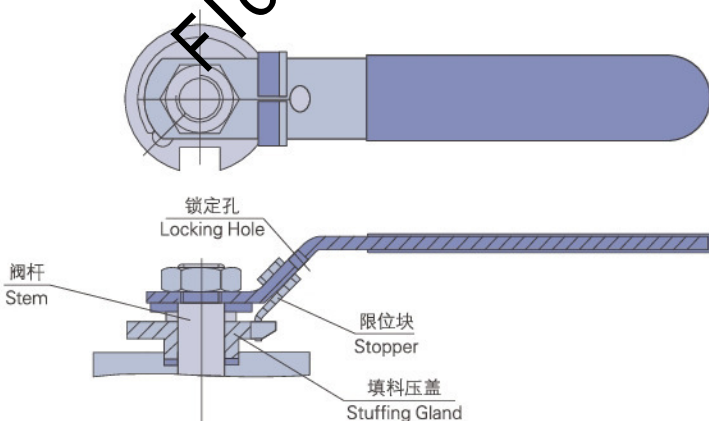
The ball valve could be designed as static-protecting construction as required, namely, mounting conductive spring between the globe body and stem, or between the stem and body. There after the static engendered during opening the valve could be conducted to pipelines then earth through the pre-set static passage to clear static away. The design works to prevent igniting combustible medium by static fire-striking for the system safety. (As shown in figure 9)



**带锁结构
INTERLOCKING DEVICE**

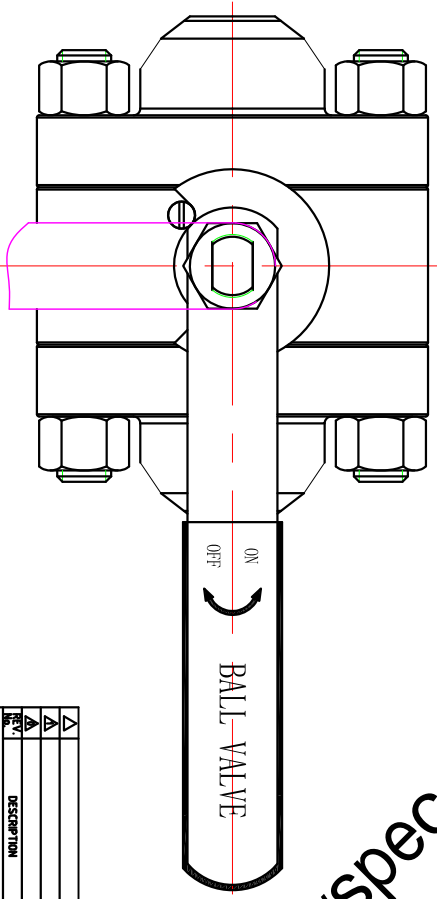
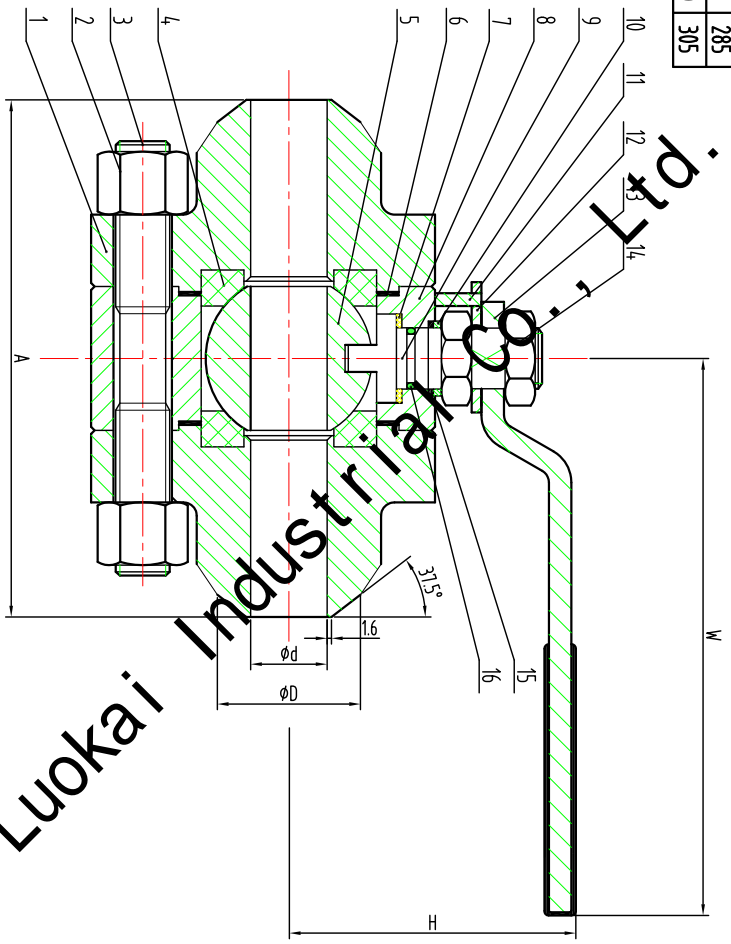
对安装在野外的或防止非工作人员误操作的，以及在有些震动较大的场合手柄受到撞击易产生误操作的阀门，在阀门的全开或全关的位置设有锁定孔，需要时可加锁，起到安全保险作用(十二、十三)。

For valves installed outdoors, those prevent improper operation of non-workers and valves, of which collision of its stem in relatively violent vibration occasions easily causes improper operation, a locking bore can be set in the full open position or fully closed position and a lock can be used if needed, for the purpose of security insurance (Figure 4).



图十三/ Figure 12

No.	CLASS	Main dimension (mm)					
		Inch	A	d	D	H	W
1	800LB	1/2"	92	14	213	70	185
2	800LB	3/4"	111	20	267	80	190
3	800LB	1"	127	25	334	95	215
4	800LB	1-1/4"	140	31	422	100	250
5	800LB	1-1/2"	152	38	483	110	285
2	800LB	2"	178	49	603	120	305



Flowspec Luokai Industrial Co., Ltd.

NO	PART NAME	MATERIAL	REMARKS
1	BONNET	Duplex SS2205	
2	NUT	A194 GR8M	
3	STUD BOLTS	A193 GR8M	
4	SEAT RING	RPTFE	
5	BALL	Duplex SS2205	
6	BODY GASKET	GRAPHITE+SS316	
7	THRUST WASHER	PTFE	
8	BODY	Duplex SS2205	
9	STEM	Duplex SS2205	
10	GLAND	Duplex SS2205	
11	POSITIONING PIN	STAINLESS STEEL	
12	POSITIONING PLATE	STAINLESS STEEL	
13	LEVER	201-PLASTIC	
14	STEM NUT	STAINLESS STEEL	
15	PACKING	GRAPHITE	
16	STEM "O"-RING	VITON	

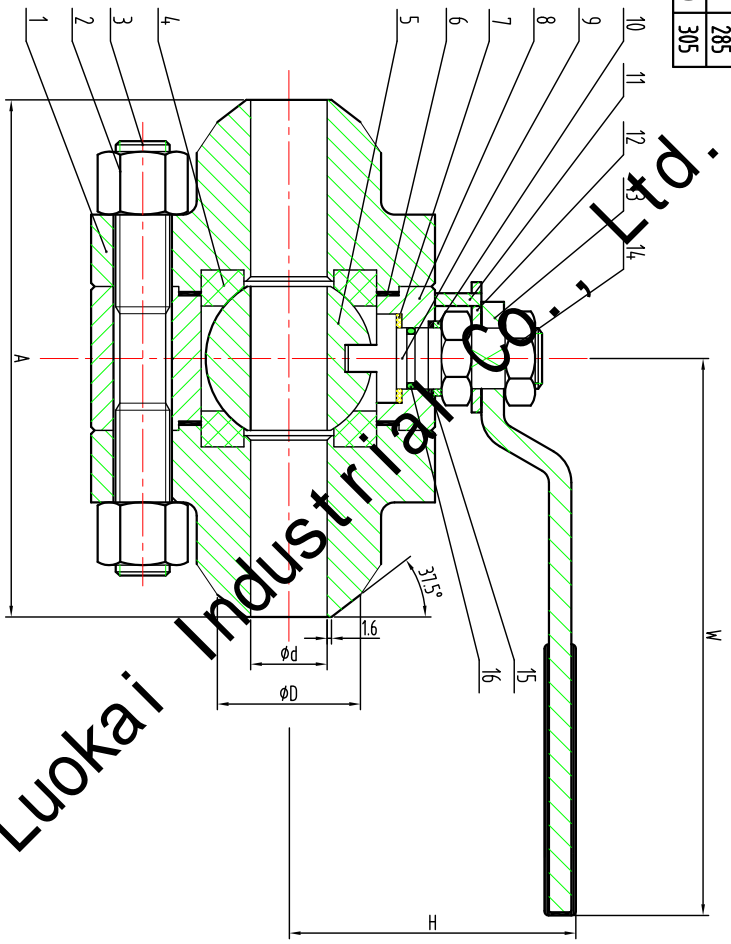
VALVE DESIGN DATA

SPECIFICATION REQUIRED	ASME B16.34
TYPE OF VALVE	FLOATING TYPE
VALVE OPERATING	LEVER OPERATED
VALVE PRESSURE CLASS	800LB
END CONNECTION TYPE	BW
END TO END DIMENSION	MANUFACTURER STANDARD
BW END	ANSI B16.25
TEST	API 598
FIRE SAFE TEST	API 607
APPLICABLE TEMPERATURE	-29-510°
APPLICABLE MEDIUM	W.O.G
TEST PRESSURE	SHELL: 19.20 MPa
	HYDRAULIC SEAT: 13.08 MPa
PNEUMATIC SEAT:	0.60 MPa
	DESIGNED
Date	REVIEWED
DWG.No.	APPROVED
CLIENT	

3 PCS FORGED STEEL FLOATING TYPE BALL VALVE
F.B.
FLOWSPEC LUOKAI INDUSTRIAL CO., LTD.

REV	DESCRIPTION	DATE	Draw	Rev'd	APPD
Δ					
Δ					
Δ					

No.	Main dimension (mm)						
	CLASS	Inch	A	d	D	H	W
1	1500LB	1/2"	92	14	213	70	185
2	1500LB	3/4"	111	20	267	80	190
3	1500LB	1"	127	25	334	95	215
4	1500LB	1-1/4"	140	31	422	100	250
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9	STEM	Duplex SS2205	
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13	LEVER	201PLASTIC	
14	STEM NUT	STAINLESS STEEL	
15	PACKING	GRAPHITE	
16	STEM O-RING	VITON	

VALVE DESIGN DATA

SPECIFICATION REQUIRED	ASME B16.34	
TYPE OF VALVE	FLOATING TYPE	
VALVE OPERATING	LEVER OPERATED	
VALVE PRESSURE CLASS	1500LB	
END CONNECTION TYPE	BW	
END TO END DIMENSION	MANUFACTURER STANDARD	
BW END	ANSI B16.25	
TEST	API 598	
FIRE SAFE TEST	API 607	
APPLICABLE TEMPERATURE	-29-150°	
APPLICABLE MEDIUM	W.O.G	
TEST PRESSURE	SHELL: 37.50	MPa
	HYDRAULIC SEAT: 27.50	MPa
Date	PNEUMATIC SEAT: 0.60	MPa
	REV.No.	DESIGNED
DWG.No.		REVIEWED
CLIENT		APPROVED

REV	DESCRIPTION	DATE	Draw	Rev'd	APPD
△					
△					
△					

3 PCS FORGED STEEL FLOATING TYPE BALL VALVE
F.B.
FLOWSPEC LUOKAI INDUSTRIAL CO., LTD.