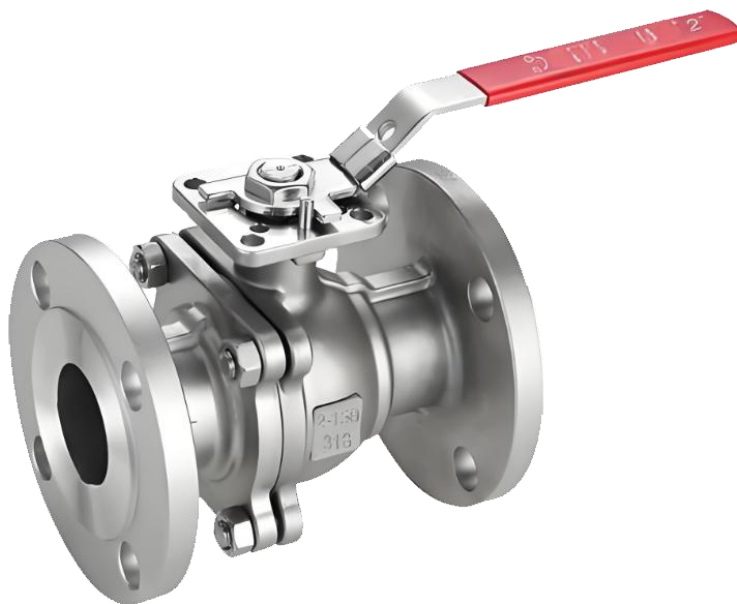


BS 英标球阀

BS Standard Ball Valve

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开 维 喜 阀 门 集 团 有 限 公 司
Kaiweixi Valve Group Co., Ltd.

BS 英标球阀

型号: BS	规格: DN15-DN250
公称压力: 150LB	适用介质: 水、蒸汽、油品及类似液体、气体
适用温度: ≤180℃	阀体材质: WCB, CF8, CF8M
连接方式: 法兰	驱动方式: 手动、气动、电动、涡轮
其他参数: 制造标准按 BS5351	

BS Standard Ball Valve

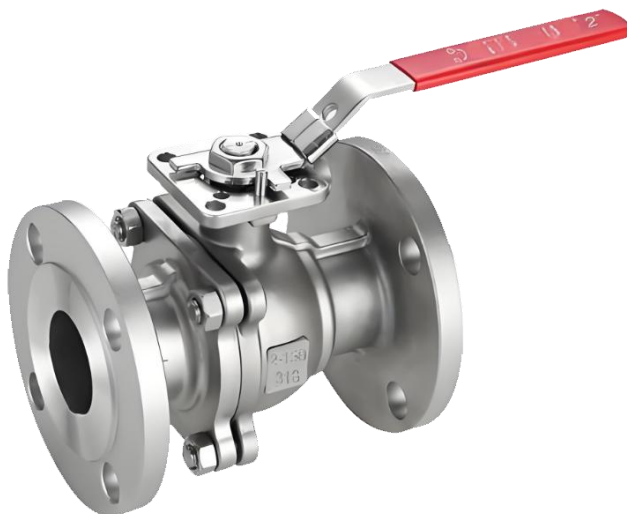
Model: BS	Specifications: DN15-DN250
Nominal Pressure: 150LB	Applicable Media: Water, steam, oil and similar liquids and gases
Applicable Temperature: ≤180℃	
Body Material: Nitric acid, acetic acid, uric acid, and other corrosive substances/compounds.	
End Connection : Flange	Operation: Manual, pneumatic, electric ,gear
Other Parameters: Manufacturing standard according to BS5351.	

BS 英标球阀概述

BS 英标球阀是严格遵循英国标准（BS）体系设计制造的工业球阀，其设计、尺寸、材料及测试要求均符合 BS 5351、BS 5159 等相关规范。阀体采用铸钢、不锈钢或黄铜等材质，采用浮动球或固定球结构，通过球体 90 度旋转实现快速启闭。密封副通常采用软密封（如 PTFE）或金属硬密封，满足不同工况需求。该阀门与英标管道系统（如 BS 10、BS 4504 法兰）完全兼容，广泛应用于石油化工、船舶制造、水处理及英联邦国家的工业项目中，是英标体系下关键的流体控制设备。

BS Standard Ball Valve Overview

The BS Standard Ball Valve is an industrial ball valve designed and manufactured in strict compliance with the British Standard (BS) system. Its design, dimensions, material specifications, and testing requirements fully adhere to relevant standards such as BS 5351 and BS 5159. The valve body is typically made of materials including cast steel, stainless steel, or brass, and features a floating or trunnion-mounted ball structure. Rapid opening and closing are achieved through a 90-degree rotation of the ball. The sealing pair generally employs soft seals (e.g., PTFE) or metal hard seals to meet varying operational requirements. This valve is fully compatible with British standard pipeline systems (e.g., BS 10 and BS 4504 flanges). It is widely used in industries such as petrochemicals, shipbuilding, water treatment, and industrial projects across Commonwealth countries, serving as a critical fluid control device within the BS standard system.



BS 英标球阀产品图
BS Standard Ball Valve Product Image

BS 英标球阀特点

1. 严格 BS 标准符合性：全面遵循 BS 5351 等英国标准，在结构长度、法兰尺寸、压力等级及材料规范上与英标管道系统无缝对接。
2. 双密封结构选择：提供软密封（零泄漏）和金属硬密封（耐高温高压）两种密封形式，适应水、蒸汽、油品及腐蚀性介质等多种工况。
3. 操作轻便安全可靠：90 度旋转启闭迅速，操作扭矩小。阀杆防吹出设计，部分型号符合防火安全标准（如 BS 6755）。
4. 连接兼容性强：法兰尺寸符合 BS 4504 等规范，与英标、部分欧标及国际标准管道具有良好的互换性。
5. 维护简便应用广泛：结构设计便于拆卸维护，密封件可更换。适用于船舶、能源、水务及英联邦国家基础设施项目，通用性高。

BS Standard Ball Valve Features

1. Strict Compliance with BS Standards:

Fully adheres to British standards such as BS 5351, ensuring seamless integration with British standard pipeline systems in terms of face-to-face dimensions, flange sizes, pressure ratings, and material specifications.

2. Dual Seal Structure Options:

Offers both soft seals (zero leakage) and metal hard seals (resistant to high temperatures and pressures), suitable for a wide range of applications, including water, steam, oil, and corrosive media.

3. Easy Operation with Safety and Reliability:

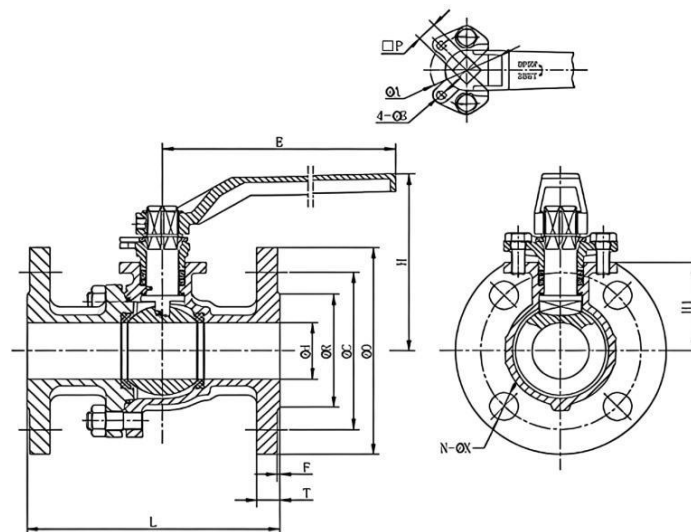
Provides rapid 90-degree opening and closing with low operating torque. Features an anti-blowout stem design, and certain models comply with fire safety standards such as BS 6755.

4. Strong Connection Compatibility:

Flange dimensions conform to standards like BS 4504, ensuring excellent interchangeability with British, European, and international standard pipelines.

5. Easy Maintenance and Wide Application Range:

Designed for easy disassembly and maintenance, with replaceable sealing components. Suitable for shipbuilding, energy, water utilities, and infrastructure projects in Commonwealth countries, offering high versatility.



BS 英标球阀结构图

BS Standard Ball Valve Structure Diagram

零部件名称材料表

Parts Name Material List

序号 NO.	名称 Name	材料 Material
1	阀体 body	CF8、CF3 、CF8M、CF3M
2	球体 ball	F304,F304L,F316,F316L
3	密封垫 seal gasket	F4,PPL
4	填料 packing	柔性石墨 Flexible、PTFE
5	阀杆 stem	F304,F304L,F316,F316L

性能规范表 Performance Specification

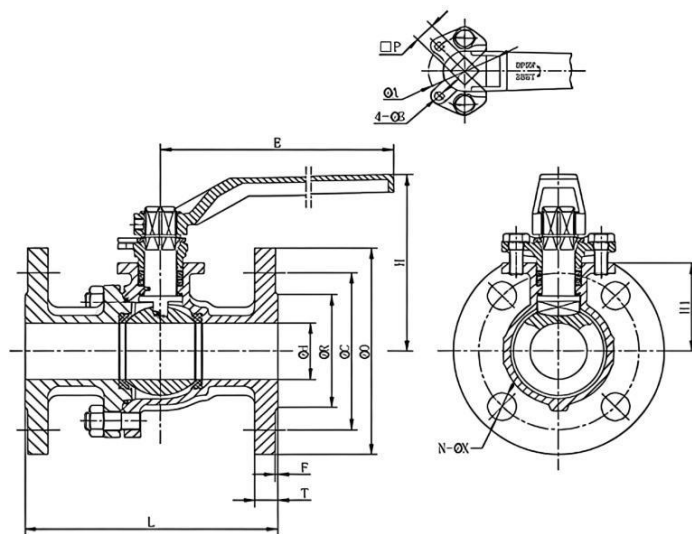
公称压力 Nominal Pressure	1.6/2.5	Mpa
强度试验压力 Shell Test	2.4/3.75	
密封试验压力 Seal Test	1.75/2.75	
适用温度 Suitable Temp.	180	℃

外形尺寸标准要求

- 1、阀门的结构长度按 ASME B16.10 的标准
- 2、连接法兰按 BS4504 的标准

Dimensions Standard Requirements

1. The structural length of the valve shall conform to the standard ASME16.10.
2. The connecting flange shall conform to the standard BS4504.



BS 英标球阀外形图

BS Standard Ball Valve View Drawing

BS 英标球阀外形尺寸表

BS Standard Ball Valve Dimensions Table

Size	LBS	d	L	R	C	D	H	H1	E	F	T	□P	ØA	ØB	N	ØX	ISO5211
1/2"	150	15	108	45	65	95	78	34	150	2	14	11	42	4	4	14	F04
3/4"	150	20	117	58	75	105	80	35	150	2	16	11	42	4	4	14	F04
1"	150	25	127	68	85	115	88	45	150	2	16	11	42	4	4	14	F04
1-1/4"	150	32	140	78	100	140	100	50	170	2	16	14	50	5	4	18	F05
1-1/2"	150	38	165	88	110	150	122	60	230	2	16	17	70	6	4	18	F07
2"	150	50	178	102	125	165	130	68	230	2	18	17	70	6	4	18	F07

2-1/2"	150	65	190	122	145	185	148	86	230	2	18	17	70	6	4	18	F07
3"	150	78	203	138	160	200	167	96	305	2	20	22	102	8	8	18	F10
4"	150	100	229	158	180	220	188	117	305	2	20	22	102	8	8	18	F10
5"	150	125	356	188	210	250	246	141	500	2	22	22	125	10	8	18	F12
6"	150	150	394	212	240	285	288	172	650	2	22	27	125	10	8	22	F12
8"	150	200	457	268	295	340	329	213	850	2	24	27	125	10	12	22	F12
10"	150	250	533	320	355	405	396	255	1400	2	26	36	140	14	12	26	F14

BS 英标球阀安装、使用与维护说明

安装指南

1. 安装前需确认阀门型号、压力等级（PN）及连接标准（如 BS EN 1092-1 法兰）与管道设计要求一致，并清洁阀门及管道内部。
2. 采用法兰连接时，应使用符合 BS 标准的垫片与紧固件，将阀门置于管道法兰间，确保流向与阀体标记一致。
3. 按 BS EN 1092 标准要求，使用交叉对称顺序逐级拧紧螺栓至规定扭矩值，确保密封均匀。
4. 焊接端阀门应由合格人员按 BS 焊接工艺施焊，焊接期间阀门需保持全开状态，并采取阀体冷却措施。
5. 阀门安装后需参与管道系统压力试验，试验标准应符合 BS EN 12266 要求，检查所有连接部位有无泄漏。

使用操作

1. 通过手柄、齿轮箱或执行机构驱动阀门进行 90 度旋转启闭操作，动作应平稳到位，避免冲击。
2. 通过阀杆位置指示器或执行器反馈信号确认阀门开关状态，关键工况建议设置永久状态标识。
3. 本阀门设计用于通断控制，不建议长期用于流量调节。长期全开使用时，应定期进行全行程开关操作。
4. 若在带压操作中遇到异常阻力增大，应立即停止操作并检查系统压力及阀门状况。

维护保养

1. 定期检查阀门连接部位密封情况、阀体表面状况及外部紧固件状态。
2. 如阀门配有注脂阀，可按制造厂建议定期注入指定密封脂，以维持密封性能。
3. 阀杆填料处出现轻微泄漏时，可均匀适度拧紧填料压盖；若泄漏持续或加剧，应在系统泄压后更换填料。
4. 阀门需要内部检修时，须确保系统已完全泄压，检查阀座、球体密封面磨损情况，必要时更换密封件。
5. 阀门长期停用时，应保持全开或全关状态，对阀杆及外露表面进行防锈处理，重新启用前应进行功能测试。

Installation, Operation, and Maintenance Instructions for BS Standard Ball Valve

Installation Guide

1. Pre-Installation Preparation

Confirm that the valve model, pressure rating (PN), and connection standards (e.g., BS EN 1092-1 flanges) are consistent with pipeline design requirements. Clean the internal surfaces of the valve and pipeline.

2. Flange Connection

For flange connections, use gaskets and fasteners compliant with BS standards. Position the valve between the pipeline flanges, ensuring the flow direction aligns with the markings on the valve body.

3. Bolt Tightening

In accordance with BS EN 1092, tighten the bolts to the specified torque in a cross-symmetrical sequence in stages to ensure even sealing.

4. Welded-End Valves

For welded-end valves, welding must be performed by qualified personnel following BS welding procedures. The valve must remain fully open during welding, and cooling measures should be applied to the valve body.

5. Pressure Testing

After installation, the valve must participate in the pipeline system's pressure test. The test must comply with BS EN 12266 standards. Inspect all connections for leaks.

Operation Instructions

1. Opening and Closing Operation

Operate the valve by rotating it 90 degrees using a handle, gearbox, or actuator. The movement should be smooth and complete, avoiding impact or shock.

2. Status Confirmation

Confirm the valve's open or closed status using the stem position indicator or actuator feedback signal. For critical applications, it is recommended to install permanent status markers.

3. Normal Operation

This valve is designed for on/off control and is not recommended for long-term flow regulation. If the valve remains fully open for extended periods, periodic full-stroke opening and closing operations are advised.

4. Precautions

If abnormal resistance is encountered during pressurized operation, stop immediately and check the system pressure and valve condition.

Maintenance

1. Regular Inspections

Periodically inspect the sealing condition of valve connections, the surface condition of the valve body, and the status of external fasteners.

2. Sealant Injection

If the valve is equipped with a grease fitting, inject the specified sealant periodically as recommended by the manufacturer to maintain sealing performance.

3. Stem Packing Maintenance

For minor leakage at the stem packing, evenly and moderately tighten the packing gland. If leakage persists or worsens, replace the packing after depressurizing the system.

4. Internal Inspection

Before performing internal maintenance, ensure the system is fully depressurized. Inspect the wear condition of the seat and ball sealing surfaces, and replace seals if necessary.

5. Long-Term Storage

For long-term storage, keep the valve fully open or fully closed. Apply anti-rust treatment to the stem and exposed surfaces. Conduct a functional test before returning the valve to service.

非常感谢您的阅读！

Thank you very much for reading!

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