型号编制方法 Numbering System

1	2	3	4	5	6	——	7	8	——	9

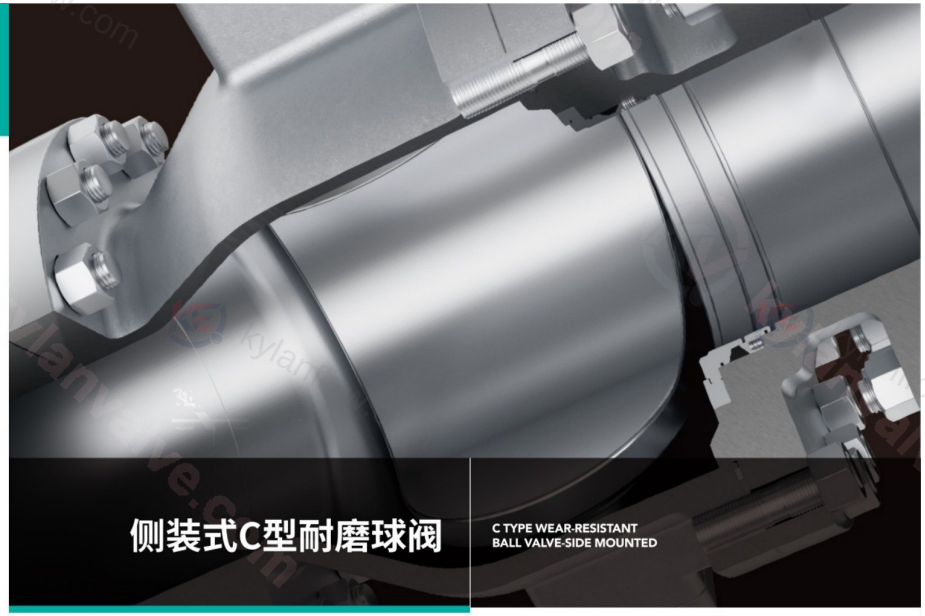
单元号 Unit Number	含义 Meaning	单元代号使用说明 Unit Code Usage Instructions	
1	专用功能 Specialized Functions	D-低温；G-高温；B-保温；T-调节型；N-有抗硫要求(NACE) D-Low temperature; G-High temperature; B - Thermal insulation; T-Regulatory type; N - Has sulfur resistance requirements (NACE)	
2	阀门类型 Valve Type	SQC-上装式C型球阀；QC-C型球阀 SQC-Top mounted C-type ball valve; QC-C type ball valve	
3	辅助分类 Auxiliary Classification	S-缩径 S-diameter reduction	
4	传动方式 Transmission Mode	手柄-省略；3-蜗轮传动；6-气动；9-电动；8-气液联动；2-电液联动 Handle - Omitted; 3- Worm gear transmission; 6-Pneumatic; 9-Electric; 8-Gas liquid linkage; 2-Electro hydraulic linkage	
5	连接形式 Connection Form	1-内螺纹连接；2-外螺纹连接；4-法兰连接；6-对焊连接；7-对夹连接 1. Internal thread connection; 2-External thread connection; 4-Flange connection; 6-Welding connection; 7-Pair clip connection	
6	密封面材料 Sealing Surface Material	PTFE、PPL、PEK、NYLON、Y-镍基合金、碳化钨、碳化铬、STL、金刚石、镶陶瓷 PTFE, PPL, PEK, NYLON, Y-nickel based alloy, tungsten carbide, chromium carbide STL, Diamond, ceramic inlay	
7	压力等级 Pressure Level	公称压力（欧洲标准） Nominal pressure (European Standard)	10-PN1.0MPa; 16-PN1.6MPa; 40-PN4.0MPa; 63-PN6.3MPa; 100-PN10.0FMPa; 160-PN16.0MPa; 250-PN25.0MPa
		公称压力（美洲标准） Nominal pressure (American Standard)	20-PN2.0MPa; 50-PN5.0MPa; 110-PN11.0MPa; 150-PN15.0MPa; 260-PN26.0MPa; 420-PN42.0MPa;
		磅级 Pound Level	150LB-Class 150; 300LB-Class 300; 400LB-Class 400; 600LB-Class 600; 900LB-Class 900; 1500LB-Class 1500; 2500LB-Class 2500
		JIS K级 JIS K Grade	10K-JIS 10K; 20K-JIS 20K; 30K-JIS 30K ;40K-JIS 40K
8	阀体材料 Body Material	C-WCB,A105;C5-C5;C6-WC6,F11;C9-WC9,F22;CL-LCB,LF2;LC-LCC;L2-LC2;L3-LC3;P8-CF8, F304;P3-CF3,F304L;R8-CF8M,F316;R3-CF3M,F316L;Ti-Ti及其合金;Q-球墨铸铁;F5-双向钢 F304; P3-CF3,F304L; R8-CF8M,F316; R3-CF3M,F316L; Ti-Ti and its alloys; Q-ductile iron; F5- Bidirectional steel	
9	内件材料 Internal Material	用户未要求，省略本代号（碳钢阀体标配 P8 内件，不锈钢阀体标配与阀体材质一致的内件） P8-CF8,F304;P3-CF3,F304L;R8-CF8M,F316;R3-CF3M,F316L;F5-双向钢 Not requested by the user, omit this code (P8 internal parts are standard for carbon steel valve bodies, and internal parts with the same material as the valve body are standard for stainless steel valve bodies) P8-CF8,F304; P3-CF3,F304L; R8-CF8M,F316; R3-CF3M,F316L; F5- Bidirectional steel	

C型耐磨球阀特点:

1. 阀体为上装整体式结构;
2. 加长阀盖设计，保证填料处于环境温度，阀杆采用防吹出结构;
3. 阀内件便于拆卸，阀座可在线维护并易于更换，内件和密封可以快速从阀顶部拆卸，实现在线维修。

Characteristics of C-type wear-resistant ball valve:

1. The valve body is a top-entry integral structure.
2. The valve cover is extended in design to ensure the packing remains at ambient temperature, and the valve stem adopts an anti-blowout structure.
3. The internal components of the valve are easy to disassemble, and the valve seat can be maintained and replaced online. The internal components and seals can be quickly removed from the top of the valve, allowing for online maintenance.



侧装式C型耐磨球阀

C TYPE WEAR-RESISTANT
BALL VALVE-SIDE MOUNTED



QC947Y

产品概述 Product Overview

C型耐磨球阀是针对含固体颗粒或高纤维介质输送的恶劣工况而推出的产品，解决了原装置开关困难、易积渣、易冲刷、易磨损等技术难题。

该产品主要适用于煤化工、石油化工、多晶硅、LNG等工况的水煤浆、黑灰水、矿浆、粉煤、固化颗粒、粘稠、清洁等介质，具有密封可靠、抗耐磨，耐冲刷，自清洁、磨损自补偿、寿命长等优点。可有效替代传统的轨道球阀、金属密封球阀、耐磨闸阀等，能保障在严苛工况长周期运行的泄漏等级要求。

The C-type wear-resistant ball valve is designed for harsh conditions involving the transportation of solid particles or high-fiber media. It addresses technical challenges such as difficult switching, easy accumulation of residue, easy erosion, and wear resistance.

This product is primarily suitable for applications in coal chemical, petrochemical, polysilicon, LNG, and other industries, handling media such as water-coal slurry, black ash water, ore pulp, pulverized coal, solidified particles, viscous, clean, etc. It features reliable sealing, wear resistance, erosion resistance, self-cleaning, wear compensation, and a long service life. It can effectively replace traditional track ball valves, metal-sealed ball valves, and wear-resistant gate valves, ensuring leakage requirements during long-term operation under severe conditions.

主要技术参数 Main Technical Parameters

压力等级 Pressure Rating	Class150~Class2500
规格尺寸 Size	2"~36"
温度范围 Temperature Range	-196°C~650°C
驱动方式 Actuation	气动、电动、蜗轮传动、电液联动 Pneumatic, Electric, Gear Operation, Electro-Hydraulic Operation
连接方式 Connection Type	RF、MF、RJ、BW

侧装式C型耐磨球阀

C TYPE WEAR-RESISTANT BALL VALVE-SIDE MOUNTED

C型球阀特点 Characteristics of C-type Ball Valve

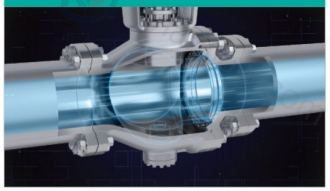
双偏心设计
Double Eccentric Design



双偏心设计，扭矩密封关闭时，阀芯相对阀座渐入运动，越关越紧，密封可靠，密封面磨损后可自动补偿，还可通过弹簧推动阀座对密封面磨损进行有效补偿，实现双磨损补偿。阀芯与密封副只在启闭瞬间才接触，其余行程范围内均无摩擦、无磨损，启闭轻便快捷。

Double eccentric design, when the torque seal is closed, the valve core gradually moves relative to the valve seat, becoming tighter as it is closed, ensuring reliable sealing. The sealing surface can be automatically compensated for wear, and the valve seat can be effectively compensated for wear through a spring, achieving dual wear compensation. The valve core and sealing pair only come into contact at the moment of opening and closing, and there is no friction or wear in the rest of the stroke range, making opening and closing light and fast.

全通径设计
Full Port Design



全通径设计，单阀座无阀腔，开启时，阀腔内无阻流元件，关闭后，无物料滞留区，具有流线型阀体流道，减少物料对阀芯和阀腔的磨损。

Full bore design, single seat without valve chamber. When opened, there are no flow blocking elements in the valve chamber. After closed, there is no material retention area. It has a streamlined valve body flow channel to reduce material wear on the valve core and valve chamber.

阀芯上下支撑固定球设计
Double Eccentric Design



阀芯上下支撑固定球设计，解决了介质力对密封的影响，介质力和阀座对芯的密封力由上下支撑承受，阀杆不承受径向力，而只承受启闭力矩，改善了阀杆的受力情况，确保了在极端的工况条件下，阀杆也不会被卡死。阀杆防爆出，倒密封结构，在各种压力下均能保证阀杆的可靠密封。

The valve stem has a reverse sealing structure and an explosion-proof design. The valve core is supported by a fixed ball at the top and bottom, which solves the influence of medium force on the seal. The medium force and the sealing force of the valve seat on the core are borne by the upper and lower supports. The valve stem does not bear radial force, but only bears opening and closing torque, improving the stress situation of the valve stem and ensuring that it will not get stuck under extreme working conditions. The valve stem is explosion-proof and has a reverse sealing structure, which can ensure reliable sealing of the valve stem under various pressures.

阀杆倒密封结构，防爆出设计
Full Port Design



阀杆防爆出，倒密封结构，在各种压力下均能保证阀杆的可靠密封。

The valve stem is explosion-proof and has a reverse sealing structure, which can ensure reliable sealing of the valve stem under various pressures.

采用弹簧加载可移动阀座
Adopting a Spring-loaded Movable Valve Seat



采用弹簧加载可移动阀座，既保证了密封的可靠性，又能吸收温度变化热胀冷缩带来的影响，确保阀门能在高温或较大温差条件下防抱死使用。在弹簧腔两侧采用柔性石墨环进行保护，防止杂物进入，有效防止弹簧的失效。

The use of a spring-loaded movable valve seat not only ensures the reliability of the seal, but also absorbs the effects of temperature changes such as thermal expansion and contraction, ensuring that the valve can be used for anti lock braking under high temperature or large temperature differences. Flexible graphite rings are used on both sides of the spring chamber for protection, preventing debris from entering and effectively preventing spring failure.

自清洁设计
Self Cleaning Design



阀门开启时，阀芯清理阀座，流体沿密封面360度将一些杂物冲洗干净。阀门关闭时，可实现对密封故障、粘附物料及杂物的剪切，保证密封副的清洁。

When the valve is opened, the valve core cleans the valve seat, and the fluid flushes some debris 360 degrees along the sealing surface. When the valve is closed, it can achieve cutting of sealing faults, adhered materials, and debris, ensuring the cleanliness of the sealing pair.

关键位置喷涂技术
Key Position Spraying Technology



上下支撑轴与阀芯接触部位均喷焊镍基合金、碳化钨、碳化铬、STL等耐磨技术处理，确保长时间使用也不会磨损，满足阀门频繁切换要求。

阀芯和阀座喷涂技术，采用先进的冶金熔融喷焊，喷焊表面硬度HRC60以上，喷涂层加工后，有效厚度为0.7毫米以上，结合强度12,000PSI以上，球面整体喷焊，具有极强的耐摩擦、耐冲刷等性能，适用苛刻工况。

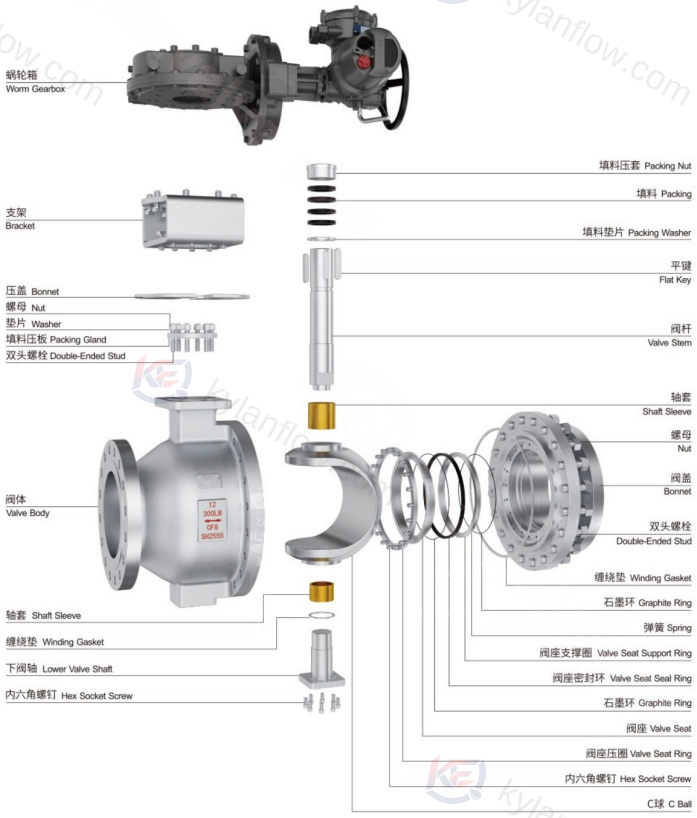
The contact parts between the upper and lower support shafts and the valve core are sprayed with wear-resistant technologies such as nickel based alloy, tungsten carbide, chromium carbide, STL, etc., to ensure that they will not wear out even after long-term use and meet the requirements of frequent valve switching.

The valve core and valve seat spraying technology adopts advanced metallurgical melt spraying welding, with a surface hardness of HRC60 or above. After the spraying layer is processed, the effective thickness is over 0.7 millimeters, and the combined strength is over 12000 PSI. The spherical integral spraying welding has extremely strong friction and erosion resistance, and is suitable for harsh working conditions.

侧装式C型耐磨球阀

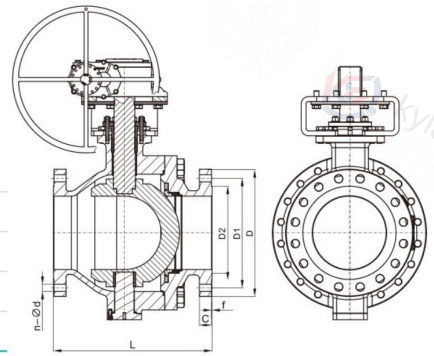
C TYPE WEAR-RESISTANT BALL VALVE-SIDE MOUNTED

结构图 Structure Chart



执行标准 Execution Standards

设计与制造 Design and Manufacturing	ASME B16.34, API 608, API 6D
法兰连接 Flange Connection	ASME B16.5, ASME B16.47
结构长度 Structural Length	ASME B16.10
试验与检验 Testing and Inspection	API 598



主要外形及连接尺寸 Main Appearance and Connection Dimensions

单位 Unit:mm

压力 Pressure	公称通径 NOMINAL DIAMETER		尺寸 Size (mm)							
	DN	NPS	L		D	D1	D2	n-d1	C	f
			RF	BW						
Class150 PN20	50	2	178	216	150	120.7	92.1	4-Ø19	14.3	2
	65	2 1/2	190	241	180	139.7	104.8	4-Ø19	15.9	2
	80	3	203	283	190	152.4	127	4-Ø19	17.5	2
	100	4	229	305	230	190.5	157.2	8-Ø19	22.3	2
	125	5	356	381	255	215.9	185.7	8-Ø22	22.3	2
	150	6	394	457	280	241.3	215.9	8-Ø22	23.9	2
	200	8	457	521	345	298.5	269.9	8-Ø22	27	2
	250	10	533	559	405	362	323.8	12-Ø26	28.6	2
	300	12	610	635	485	431.8	381	12-Ø26	30.2	2
	350	14	686	762	535	476.3	412.8	12-Ø29	33.4	2
	400	16	762	838	595	539.8	469.9	16-Ø29	35	2
	450	18	864	914	635	577.9	533.4	16-Ø32	38.1	2
	500	20	914	991	700	635	584.2	20-Ø32	41.3	2
	600	24	1067	1143	815	749.3	692.2	20-Ø35	46.1	2
	650	26	1143	1245	870	806.4	749	24-Ø35	66.7	2
	700	28	1245	1346	925	863.6	800	28-Ø35	69.9	2
	750	30	1295	1397	985	914.4	857	28-Ø35	73.1	2
	800	32	1372	1524	1060	977.9	914	28-Ø41	79.4	2
	900	36	1524	1727	1170	1085.6	1022	32-Ø41	88.9	2

侧装式C型耐磨球阀

C TYPE WEAR-RESISTANT BALL VALVE-SIDE MOUNTED

主要外形及连接尺寸 Main Appearance and Connection Dimensions

单位 Unit:mm

压力 Pressure	公称通径 NOMINAL DIAMETER		尺寸 Size (mm)							
	DN	NPS	L		D	D1	D2	n-d1	C	f
			RF	BW						
Class300 PN50	50	2	216	216	165	120.7	92.1	8-Ø19	20.7	2
	65	2 1/2	241	241	190	149.2	104.8	8-Ø22	23.9	2
	80	3	282	282	210	168.3	127	8-Ø22	27	2
	100	4	305	305	255	200	157.2	8-Ø22	30.2	2
	125	5	381	381	280	235	185.7	8-Ø22	33.4	2
	150	6	403	457	320	269.9	215.9	12-Ø22	35	2
	200	8	502	521	380	330.2	269.9	12-Ø26	39.7	2
	250	10	568	559	445	387.4	323.8	16-Ø29	46.1	2
	300	12	648	635	520	450.8	381	16-Ø32	49.3	2
	350	14	762	762	585	514.4	412.8	20-Ø32	52.4	2
	400	16	838	838	650	571.5	469.9	20-Ø35	55.6	2
	450	18	914	914	710	628.6	533.4	24-Ø35	58.8	2
	500	20	991	991	775	685.8	584.2	24-Ø35	62	2
	600	24	1143	1143	915	812.8	692.2	24-Ø41	68.3	2
	650	26	1245	1245	970	876.3	749	28-Ø45	77.8	2
	700	28	1346	1346	1035	939.8	800	28-Ø45	84.2	2
	750	30	1397	1397	1090	997	857	28-Ø48	90.5	2
	800	32	1524	1524	1150	1054.1	914	28-Ø51	96.9	2
	900	36	1727	1727	1270	1168.4	1022	32-Ø54	103.2	2

主要外形及连接尺寸 Main Appearance and Connection Dimensions

单位 Unit:mm

压力 Pressure	公称通径 NOMINAL DIAMETER		尺寸 Size (mm)							
	DN	NPS	L		D	D1	D2	n-d1	C	f
			RF	BW						
Class600 PN110	50	2	216	216	165	120.7	92.1	8-Ø19	20.7	2
	65	2 1/2	241	241	190	149.2	104.8	8-Ø22	23.9	2
	80	3	282	282	210	168.3	127	8-Ø22	27	2
	100	4	305	305	255	200	157.2	8-Ø22	30.2	2
	125	5	381	381	280	235	185.7	8-Ø22	33.4	2
	150	6	403	457	320	269.9	215.9	12-Ø22	35	2
	200	8	502	521	380	330.2	269.9	12-Ø26	39.7	2
	250	10	568	559	445	387.4	323.8	16-Ø29	46.1	2
	300	12	648	635	520	450.8	381	16-Ø32	49.3	2
	350	14	762	762	585	514.4	412.8	20-Ø32	52.4	2
	400	16	838	838	650	571.5	469.9	20-Ø35	55.6	2
	450	18	914	914	710	628.6	533.4	24-Ø35	58.8	2
	500	20	991	991	775	685.8	584.2	24-Ø35	62	2
	600	24	1143	1143	915	812.8	692.2	24-Ø41	68.3	2
	700	26	1245	1245	970	876.3	749	28-Ø45	77.8	2
	800	28	1346	1346	1035	939.8	800	28-Ø45	84.2	2

主要外形及连接尺寸 Main Appearance and Connection Dimensions

单位 Unit:mm

压力 Pressure	公称通径 NOMINAL DIAMETER		尺寸 Size (mm)							
	DN	NPS	L		D	D1	D2	n-d1	C	f
			RF	BW						
Class900 PN150	50	2	368	368	215	165.1	92.1	8-Ø26	38.1	7
	65	2 1/2	419	419	245	190.5	104.8	8-Ø29	41.3	7
	80	3	381	381	240	190.5	127	8-Ø26	38.1	7
	100	4	457	457	290	235	157.2	8-Ø32	44.5	7
	125	5	559	559	350	279.4	185.7	8-Ø35	50.8	7
	150	6	610	610	380	317.5	215.9	12-Ø32	55.6	7
	200	8	737	737	470	393.7	269.9	12-Ø39	63.5	7
	250	10	838	838	545	469.9	323.8	16-Ø39	69.9	7
	300	12	965	965	610	533.4	381	20-Ø39	79.4	7
	350	14	1029	1029	640	558.8	412.8	20-Ø41	85.8	7
	400	16	1130	1130	705	616	469.9	20-Ø45	88.9	7
	450	18	1219	1219	785	685.8	533.4	20-Ø51	101.6	7
	500	20	1321	1321	855	749.3	584.2	20-Ø54	108	7
	600	24	1549	1549	1040	901.7	692.2	20-Ø67	139.7	7
Class1500 PN260	25	1	254	254	150	101.8	50.8	4-Ø26	28.6	7
	40	1 1/2	305	305	180	123.8	73	4-Ø29	31.8	7
	50	2	368	368	215	165.1	92.1	8-Ø26	38.1	7
	65	2 1/2	419	419	245	190.5	104.8	8-Ø29	41.3	7
	80	3	470	470	265	203.2	127	8-Ø32	47.7	7
	100	4	546	546	310	241.3	157.2	8-Ø35	54	7
	125	5	673	673	375	292.1	185.7	8-Ø41	73.1	7
	150	6	705	705	395	317.5	215.9	12-Ø39	82.6	7
	200	8	832	832	485	393.7	269.9	12-Ø45	92.1	7
	250	10	991	991	585	482.6	323.8	12-Ø51	108	7
	300	12	1130	1130	675	671.5	281	16-Ø54	123.9	7
	350	14	1257	1257	750	635	412.8	16-Ø60	133.4	7
	400	16	1384	1384	825	704.8	469.9	16-Ø67	146.1	7
	450	18	1537	1537	915	774.8	533.4	16-Ø73	162	7
	500	20	1664	1664	985	831.8	584.2	16-Ø79	177.8	7

PN16、PN25阀门结构长度同**Class150;**
PN40、PN63阀门结构长度同**Class300;**
PN100阀门结构长度同**Class600;**
PN160阀门结构长度同**Class900;**
有弹簧型和无弹簧型尺寸一致。其他结构长度的C型耐磨球阀，请于制造商 联系，可按客户要求以特殊阀门形式单独设计制造。

The structural length of PN16 and PN25 valves is the same as Class 150;
The structural length of PN40 and PN63 valves is the same as that of Class300;
PN100 valve structure length is the same as Class600;
PN160 valve structure length is the same as Class900;
The size of the spring type and the non spring type are the same. For C-type wear-resistant ball valves of other structural lengths, please contact the manufacturer. They can be designed and manufactured separately in a special valve form according to customer requirements.



上装式C型耐磨球阀



QC940Y

产品概述 Product Overview

上装式C型耐磨球阀是专门针对严酷工况开发设计的解决方案。它集多种苛刻工况阀门，并消除了这些设计的弱点及缺陷。适用于高压、高温、低温、粘稠、易结垢结晶等含有固体颗粒的严苛工况，性能稳定，可有效替代金属硬密封球阀、轨道球阀、耐磨闸阀、撑开式球阀等产品。非常适合煤化工、石化、天然气、化工、石油、采矿、液化天然气等关键应用领域的苛刻要求。

我公司可根据客户工况需求，选用上装式C型耐磨球阀，上装结构涵盖侧装C型耐磨球阀的优势特点，并具有实现在线维修且管道应力不会影响中道法兰密封的特殊优点。

The upper mounted C-type ball valve is a solution specifically developed and designed for harsh working conditions. It integrates various harsh operating condition valves and eliminates the weaknesses and defects of these designs. Suitable for harsh working conditions containing solid particles such as high pressure, high temperature, low temperature, viscosity, and easy scaling and crystallization, with stable performance, it can effectively replace metal hard seal ball valves, track ball valves, wear-resistant gate valves, expansion ball valves, and other products. Very suitable for the demanding requirements of key application fields such as coal chemical, petrochemical, natural gas, chemical, petroleum, mining, liquefied natural gas, etc.

Our company can select top mounted C-type ball valves according to customer operating requirements. The top mounted structure covers the advantages of side mounted C-type ball valves and has the special advantage of achieving online maintenance without affecting the sealing of the middle flange due to pipeline stress.

主要技术参数 Main Technical Parameters

压力等级 Pressure Rating	Class150~Class2500
规格尺寸 Size	1"~60"
温度范围 Temperature Range	-196°C~816°C
驱动方式 Actuation	气动、电动、蜗轮传动、电液联动 Pneumatic, Electric, Gear Operation, Electro-Hydraulic Operation
连接方式 Connection Type	RF、MF、RJ、BW

C TYPE WEAR-RESISTANT BALL VALVE-TOP MOUNTED

可选择项 Optional Features

低泄漏 Low Leakage	上装式C型耐磨球阀可配置低泄漏填料，满足低泄漏工况要求。 The upper mounted C-type wear-resistant ball valve can be equipped with low leakage packing, Meet the requirements of low leakage working conditions.
球杆一体式 One-Piece Ball and Stem	在标配应用中，C球和阀杆为两个部件在重载及特殊工况中也可提供一体式设计。 In standard applications, the C-ball and valve stem are two separate components Integrated design can also be provided for heavy-duty and special working conditions.
调节阀 Control Valve	具有多种配置型式，以降低噪声，振动湍流，或气蚀。用户如有降噪需求，阀腔可加降噪孔板。 Featuring multiple configuration options to reduce noise, vibration turbulence, orCavitation. If users have noise reduction needs, noise reduction orifice plates can be added to the valve chamber.
加长阀盖 Extended Bonnet	在低温条件下，使填料远离冷区。在高温时，使阀门更易操作。 Under low temperature conditions, keep the filler away from the cold zone. Make the valve easier to operate at high temperatures.
可加袖管 Extensible Stem	对焊连接，可选择带焊接短管，确保焊接端阀门的密封性。 Welding connection, optional with welding short tube to ensure weldingSealing performance of end valves.
夹套阀 Extensible Stem	夹套伴热保持介质的流动性。 Jacket heat tracing maintains the fluidity of the medium.

严酷工况专用:

- LNG 液化天然气 · LNG liquefied natural gas
- 分子筛、空分 · Molecular sieve, air separation
- 煤浆、煤粉 · Coal slurry, coal powder
- PTA、MDI、TDI · PTA, MDI, TDI
- 多晶硅、有机硅 · Polycrystalline silicon, organic silicon
- 泥浆、矿浆 · Mud and slurry
- 催化剂颗粒 · Catalyst particles
- 石油和天然气 · Oil and gas
- 合成气 · Synthetic gas
- 黑水、灰水、渣水 · Black water, grey water, slag water

上装式C型耐磨球阀特点
Characteristics of Top Mounted C-type Ball Valve

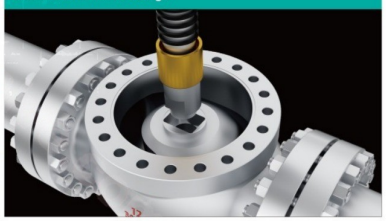
上装式设计 Top Mounted Design



阀体为上装整体式结构。

The valve body is of an upper integral structure.

在线维修设计 Online Maintenance Design



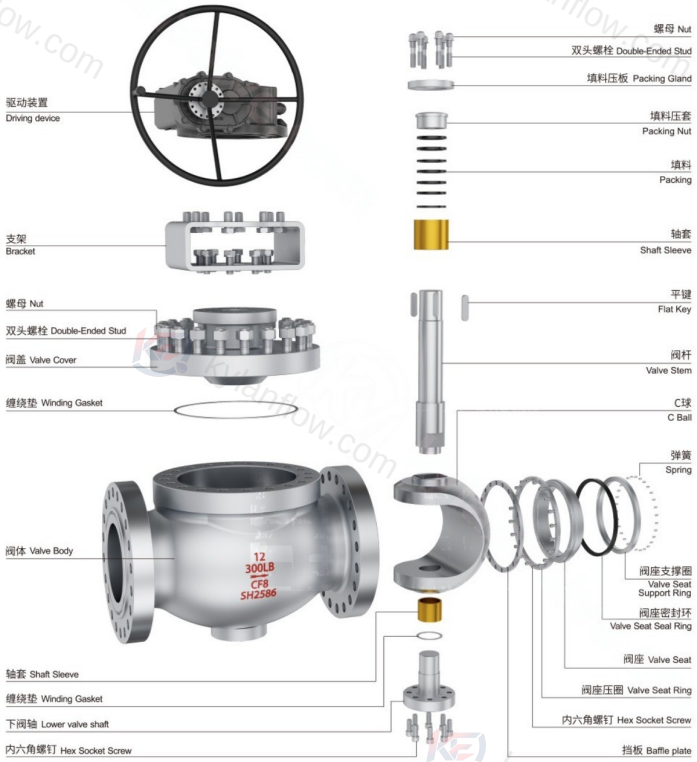
阀内件便于拆卸，阀座可在线维护并易于更换，
内件和密封可以快速从阀顶部拆卸，实现在线维修。

The valve internals are easy to disassemble, and the valve seat can be maintained online and easily replaced,
The internal components and seals can be quickly disassembled from the top of the valve for online maintenance.

上装式C型耐磨球阀

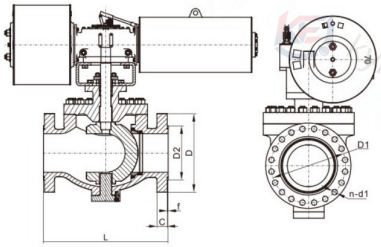
C TYPE WEAR-RESISTANT BALL VALVE-TOP MOUNTED

结构图 Structure Chart



执行标准 Execution Standards

质量标准 Quality Standard	ISO 9001
设计标准 Design Standard	ASME B16.34, API 6D, API 608
结构长度 Structural Length	ASME B16.10
检验标准 Inspection Standard	API 598, ANSI B16.104
防火标准 Fire Protection Standard	API 607, API 6FA
低泄漏标准 Low Leakage Standard	ISO 15848, API 641
连接端尺寸 Connection End Dimensions	ASME B16.5, ASME B16.47



主要外形及连接尺寸 Main Appearance and Connection Dimensions

单位 Unit:mm

压力 Pressure	公称通径 NOMINAL DIAMETER		尺寸 Size (mm)							
	DN	NPS	L		D	D1	D2	n-d1	C	f
			RF	BW						
Class150 PN20	25	1	127	165	110	79.4	50.8	4-Ø16	9.6	2
	32	1/4	140	178	115	88.9	63.5	4-Ø16	11.2	2
	40	1 1/2	165	190	125	98.4	73	4-Ø16	12.7	2
	50	2	178	216	150	120.7	92.1	4-Ø19	14.3	2
	65	2 1/2	190	241	180	139.7	104.8	4-Ø19	15.9	2
	80	3	203	282	190	152.4	127	4-Ø19	17.5	2
	100	4	229	305	230	190.5	157.2	8-Ø19	22.3	2
	125	5	356	381	255	215.9	185.7	8-Ø22	22.3	2
	150	6	394	457	280	241.3	215.9	8-Ø22	23.9	2
	200	8	457	521	345	298.5	269.9	8-Ø22	27	2
	250	10	533	559	405	362	323.8	12-Ø26	28.6	2
	300	12	610	635	485	431.8	381	12-Ø26	30.2	2
	350	14	686	762	535	476.3	412.8	12-Ø29	33.4	2
	400	16	762	838	595	539.8	469.9	16-Ø29	35	2
	450	18	864	914	635	577.9	533.4	16-Ø32	38.1	2
	500	20	914	991	700	635	584.2	20-Ø32	41.3	2
	600	24	1067	1143	815	749.3	692.2	20-Ø35	46.1	2
	650	26	1143	1245	870	806.4	749	24-Ø35	66.7	2
	700	28	1245	1346	925	863.6	800	28-Ø35	69.9	2
	750	30	1295	1397	985	914.4	857	28-Ø35	73.1	2
	800	32	1372	1524	1060	977.9	914	28-Ø41	79.4	2
	900	36	1524	1727	1170	1085.8	1022	32-Ø41	88.9	2

上装式C型耐磨球阀

C TYPE WEAR-RESISTANT BALL VALVE-TOP MOUNTED

主要外形及连接尺寸 Main Appearance and Connection Dimensions

单位 Unit:mm

压力 Pressure	公称通径 NOMINAL DIAMETER		尺寸 Size (mm)							
	DN	NPS	L		D	D1	D2	n-d1	C	f
			RF	BW						
Class300 PN50	25	1	165	165	125	88.9	50.8	4-Ø19	15.9	2
	32	1 1/4	178	178	135	98.4	63.5	4-Ø19	17.5	2
	40	1 1/2	190	190	155	114.3	73	4-Ø22	19.1	2
	50	2	216	216	165	127	92.1	8-Ø19	20.7	2
	65	2 1/2	241	241	190	149.2	104.8	8-Ø22	23.9	2
	80	3	282	282	210	168.3	127	8-Ø22	27	2
	100	4	305	305	255	200	157.2	8-Ø22	30.2	2
	125	5	381	381	280	235	185.7	8-Ø22	33.4	2
	150	6	403	403	320	269.9	215.9	12-Ø22	35	2
	200	8	502	502	380	330.2	269.9	12-Ø26	39.7	2
	250	10	568	568	445	387.4	323.8	16-Ø29	46.1	2
	300	12	648	648	520	450.8	381	16-Ø32	49.3	2
	350	14	762	762	585	514.4	412.8	20-Ø32	52.4	2
	400	16	838	838	650	571.5	469.9	20-Ø35	55.6	2
	450	18	914	914	710	628.6	533.4	24-Ø35	58.8	2
	500	20	991	991	775	685.8	584.2	24-Ø35	62	2
	600	24	1143	1143	915	812.8	692.2	24-Ø41	68.3	2
	650	26	1245	1245	970	876.3	749	28-Ø45	77.8	2
	700	28	1346	1346	1035	939.8	800	28-Ø45	84.2	2
	750	30	1397	1397	1090	997	857	28-Ø48	90.5	2
	800	32	1524	1524	1150	1054.1	914	28-Ø51	96.9	2
	900	36	1727	1727	1270	1168.4	1022	32-Ø54	103.2	2

压力 Pressure	公称通径 NOMINAL DIAMETER		尺寸 Size (mm)							
	DN	NPS	L		D	D1	D2	n-d1	C	f
			RF	BW						
Class600 PN110	25	1	216	216	125	88.9	50.8	4-Ø19	17.5	7
	32	1 1/4	229	229	135	98.4	63.5	4-Ø19	20.7	7
	40	1 1/2	241	241	155	114.3	73	4-Ø22	22.3	7
	50	2	292	292	165	127	92.1	8-Ø19	25.4	7
	65	2 1/2	330	330	190	149.2	104.8	8-Ø22	28.6	7
	80	3	356	356	210	168.3	127	8-Ø22	31.8	7
	100	4	432	432	275	215.9	157.2	8-Ø26	38.1	7
	125	5	508	508	330	266.7	185.7	8-Ø29	44.5	7
	150	6	559	559	355	292.1	215.9	12-Ø29	47.7	7
	200	8	660	660	420	349.2	269.9	12-Ø32	55.6	7
	250	10	787	787	510	431.8	323.8	16-Ø35	63.5	7
	300	12	838	838	560	489	381	20-Ø35	66.7	7
	350	14	889	889	605	527	412.8	20-Ø39	69.9	7
	400	16	991	991	685	603.2	469.9	20-Ø41	76.2	7
	450	18	1092	1092	745	654	533.4	20-Ø45	82.6	7
	500	20	1194	1194	815	723.9	584.2	24-Ø45	88.9	7
	600	24	1397	1397	940	838.2	692.2	24-Ø51	101.6	7
	700	28	1549	1549	1075	965.2	800	28-Ø54	111.2	7
	800	32	1778	1778	1195	1079.5	914	28-Ø60	117.5	7

主要外形及连接尺寸 Main Appearance and Connection Dimensions

单位 Unit:mm

压力 Pressure	公称通径 NOMINAL DIAMETER		尺寸 Size (mm)							
	DN	NPS	L		D	D1	D2	n-d1	C	f
			RF	BW						
Class900 PN150	25	1	254	254	150	101.6	50.8	4-Ø26	28.6	7
	32	1 1/4	279	279	160	111.1	63.5	4-Ø26	28.6	7
	40	1 1/2	305	305	180	123.8	73	4-Ø29	31.8	7
	50	2	368	368	215	165.1	92.1	8-Ø26	38.1	7
	65	2 1/2	419	419	245	190.5	104.8	8-Ø29	41.3	7
	80	3	381	381	240	190.5	127	8-Ø26	38.1	7
	100	4	457	457	290	235	157.2	8-Ø32	44.5	7
	125	5	559	559	350	279.4	185.7	8-Ø35	50.8	7
	150	6	610	610	380	317.5	215.9	12-Ø32	55.6	7
	200	8	737	737	470	393.7	269.9	12-Ø39	63.5	7
	250	10	838	838	545	469.9	323.8	16-Ø39	69.9	7
	300	12	965	965	610	533.4	381	20-Ø39	79.4	7
	350	14	1029	1029	640	558.8	412.8	20-Ø41	85.8	7
	400	16	1130	1130	705	616	469.9	20-Ø45	88.9	7
	450	18	1219	1219	785	685.8	533.4	20-Ø51	101.6	7
	500	20	1321	1321	855	749.3	584.2	20-Ø54	108	7
	600	24	1549	1549	1040	901.7	692.2	20-Ø67	139.7	7

压力 Pressure	公称通径 NOMINAL DIAMETER		尺寸 Size (mm)							
	DN	NPS	L		D	D1	D2	n-d1	C	f
			RF	BW						
Class1500 PN260	25	1	254	254	150	101.6	50.8	4-Ø26	28.6	7
	32	1 1/4	279	279	160	111.1	63.5	4-Ø26	28.6	7
	40	1 1/2	305	305	180	123.8	73	4-Ø29	31.8	7
	50	2	368	368	215	165.1	92.1	8-Ø26	38.1	7
	65	2 1/2	419	419	245	190.5	104.8	8-Ø29	41.3	7
	80	3	470	470	265	203.2	127	8-Ø32	47.7	7
	100	4	546	546	310	241.3	157.2	8-Ø35	54	7
	125	5	673	673	375	292.1	185.7	8-Ø41	73.1	7
	150	6	705	705	395	317.5	215.9	12-Ø39	82.6	7
	200	8	832	832	485	393.7	269.9	12-Ø45	92.1	7
	250	10	991	991	585	482.6	323.8	12-Ø51	108	7
	300	12	1130	1130	675	571.5	381	16-Ø54	123.9	7
	350	14	1257	1257	750	635	412.8	16-Ø60	133.4	7
	400	16	1384	1384	825	704.8	469.9	16-Ø67	146.1	7
	450	18	1537	1537	915	774.8	533.4	16-Ø73	162	7
	500	20	1664	1664	985	831.8	584.2	16-Ø79	177.8	7

PN16、PN25阀门结构长度同Class150; PN40、PN63阀门结构长度同Class300;
PN100阀门结构长度同Class600; PN160阀门结构长度同Class900;
有弹簧型和无弹簧型尺寸一致;
其他结构长度的C型耐磨球阀,请与制造商联系,可按客户要求单独设计制造。

The structural length of PN16 and PN25 valves is the same as Class 150; The structural length of PN40 and PN63 valves is the same as that of Class300;
PN100 valve structure length is the same as Class600; PN160 valve structure length is the same as Class900;
The size of the spring type and non spring type is consistent;
For C-type wear-resistant ball valves of other structural lengths, please contact the manufacturer and they can be designed and manufactured separately according to customer requirements.