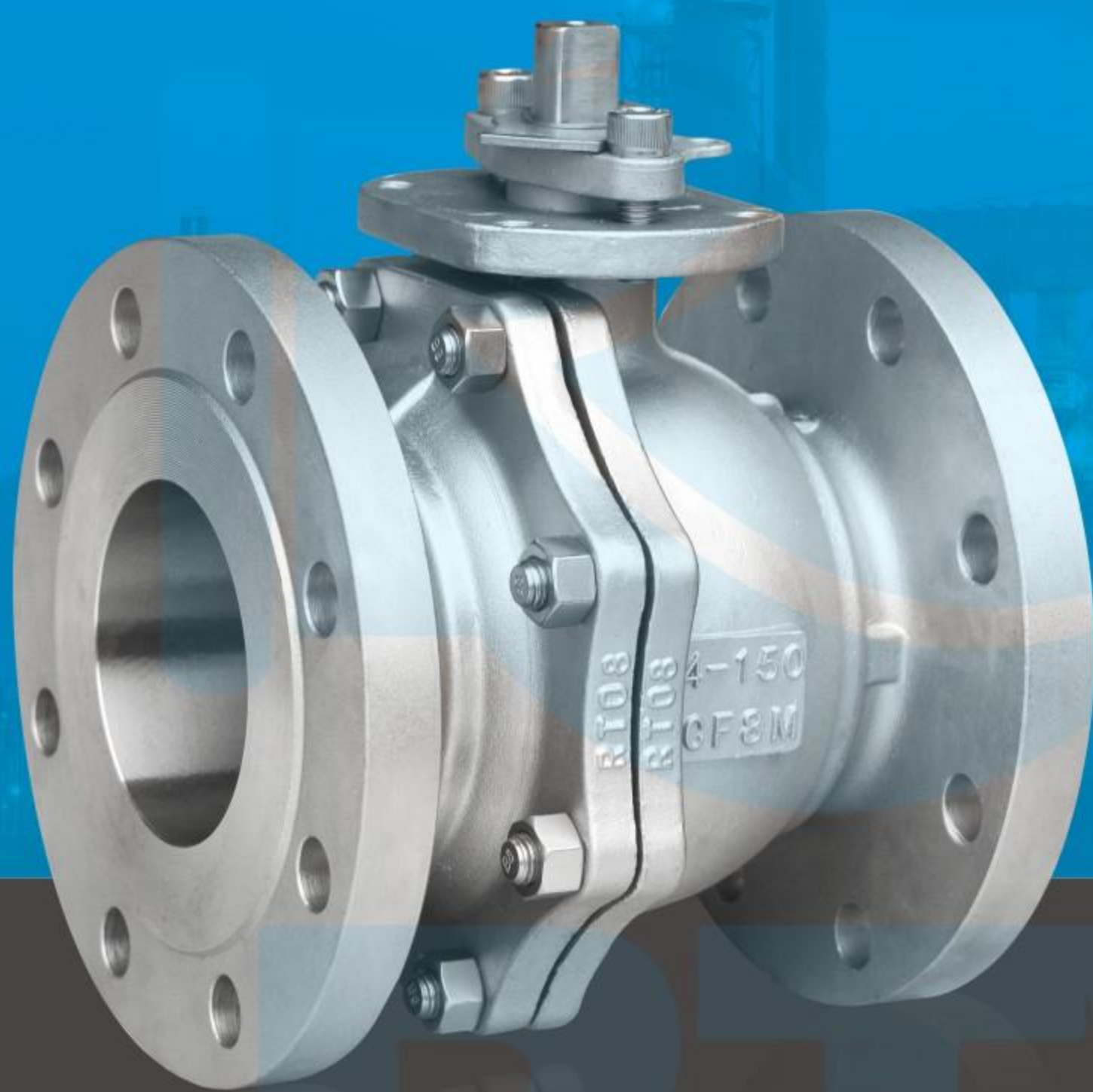




01

RUITONG
VALVE

球阀

BALL VALVE SERIES

系列

美标法兰浮动球阀 API Flanged floating ball valve

设计 Design

球阀为提供最大的操作寿命和可靠性而设计和生产的，所有的球阀都符合美国石油学会标准API608和API6D的求和英标BS 5351与美国机械工程师协会标准ASME B16.34一致。阀门由完整的阀体、阀盖和内件组成。

ball valve are designed and manufactured to provide maximum service life and dependability. All ball valves are full ported and meet the design requirements of API Standard API 600&API 6D, British Standard BS 5351 and generally conform to American Society of Mechanical Engineers Standard ASME B 16.34. Valves are available in a complete range of body/bonnet materials and trims.

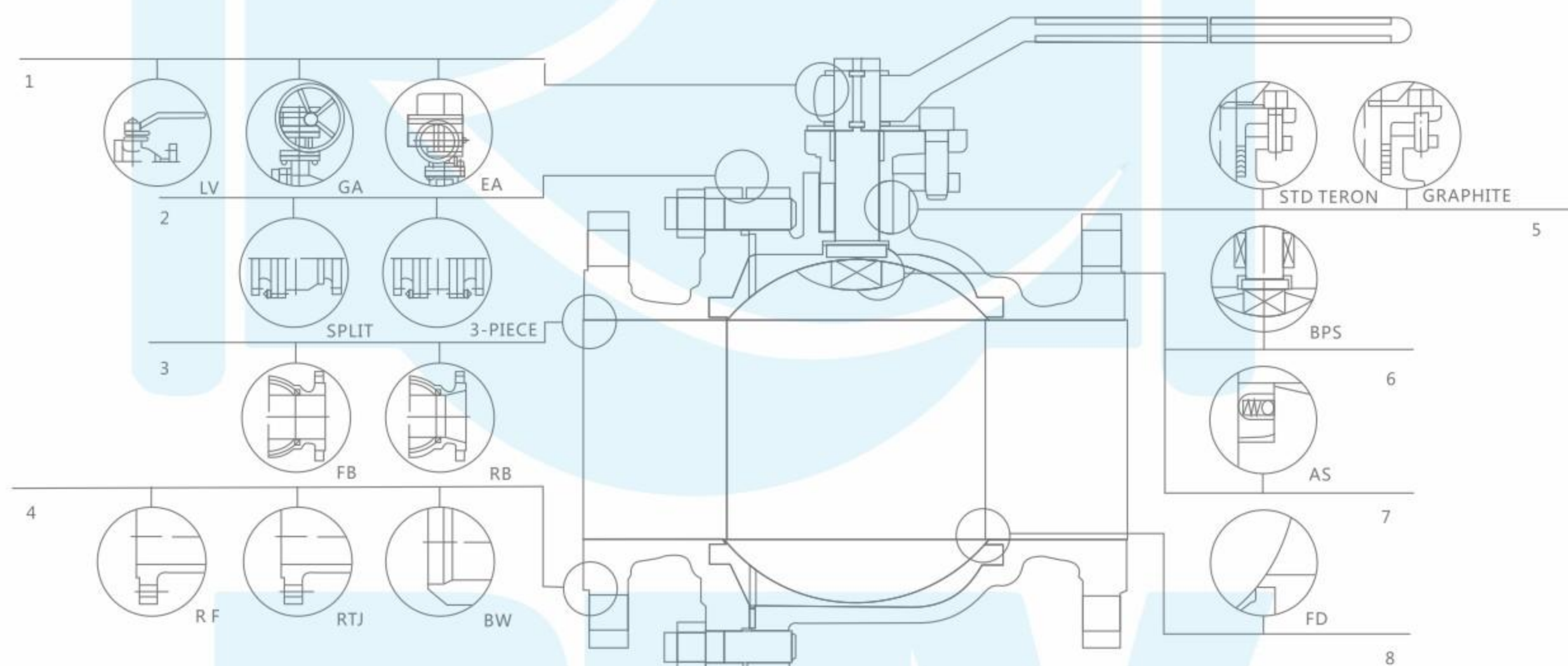
材料范围 Rang of Materials

阀体/阀盖的材料包括碳含量的九个等级，低合金和不锈钢，在特殊的适用中，他们可用合金和不锈钢的其他等级。有许多的内件供不同的环境下使用，填料和垫片的选择也为各种环境所具备。

Standard body/bonnet materials include nine grades of carbon, low alloy and stainless steels. For special applications they can be supplied in other grades of alloy and stainless steel. There's a full range of trim materials to match any service. Optional packing and gasket materials are available for a full range of service conditions.

阀门的商标可以按照客户的要求修改 Available Modifications For Trademark Cast Steel Valves

- | | | | |
|------------|--------------------------------|--------------|--|
| * 内件变化 | * Trim changes | * 压力调节 | * Pressure Equalizing |
| * 连接方式改变 | * End connection Modifications | * 静电弹簧/防火标准 | * AS or FD |
| * 填料和垫片的改变 | * Packing and Gasket Changes | * 客户的特殊铸造要求 | * Customer specified Coatings |
| * 固定式操作 | * Operator Mounting | * 焊接端的内孔改变 | * Weld End Bore Changes |
| * 加长手柄 | * Handwheel Extensions | * 氧/氯气的清洁及包装 | * Oxygen & Chlorine Cleaning & Packaging |



1、操作 Operating

用手柄更容易操作，同样也可以用蜗轮、电动、气动、液动，他们用于更艰难的环境下

Extended lever for easy operation. Also available with gearing, motor actuator, pneumatic or hydraulic actuators for more difficult services.

2、阀体-阀盖 BODY & BONNET

不采3片式12"以下的阀体、阀盖，用这种结构更方便于外部零件的修理和替换

Split or 3-piece, split body & bonnet for 12" & small. Disassembles easily for repair or replacement of internal components.

3、通径 BORE

全通径和缩径全通径适用于大的流量介质，也可请扫管路

Full and reduced full diameters are suitable for large flow media, also please sweep the pipe

4、连接方式 End Connections

可采用法兰连接、环连接、对接焊管

Flange connection, ring connection and butt welding fitting can be used

5、填料 Packing

标准填料一般采用特氟龙材质，保证填料在高循环的压缩和严峻的操作环境下，石墨填料适合高温条件下使用

STD Packing Multiple V-TEFLON packing, combined with live loading, maintains packing compression under high-cycle and severe service applications. Graphite packing use situation for high-temperature.

6、阀杆防脱 BPS

防止阀杆脱落，一个压力安全的阀杆设计应该是有防脱结构，在正常压力下不易飞出

To prevent stem shedding, a pressure-safe stem design should be designed with a trip-proof design that does not fly out under normal pressure

7、静电弹簧 AS

这种连接总是在球体和阀杆/阀体之间运动卸载最终在操作时静止

This connection always moves between the ball and stem/body and the unloading eventually stops during operation

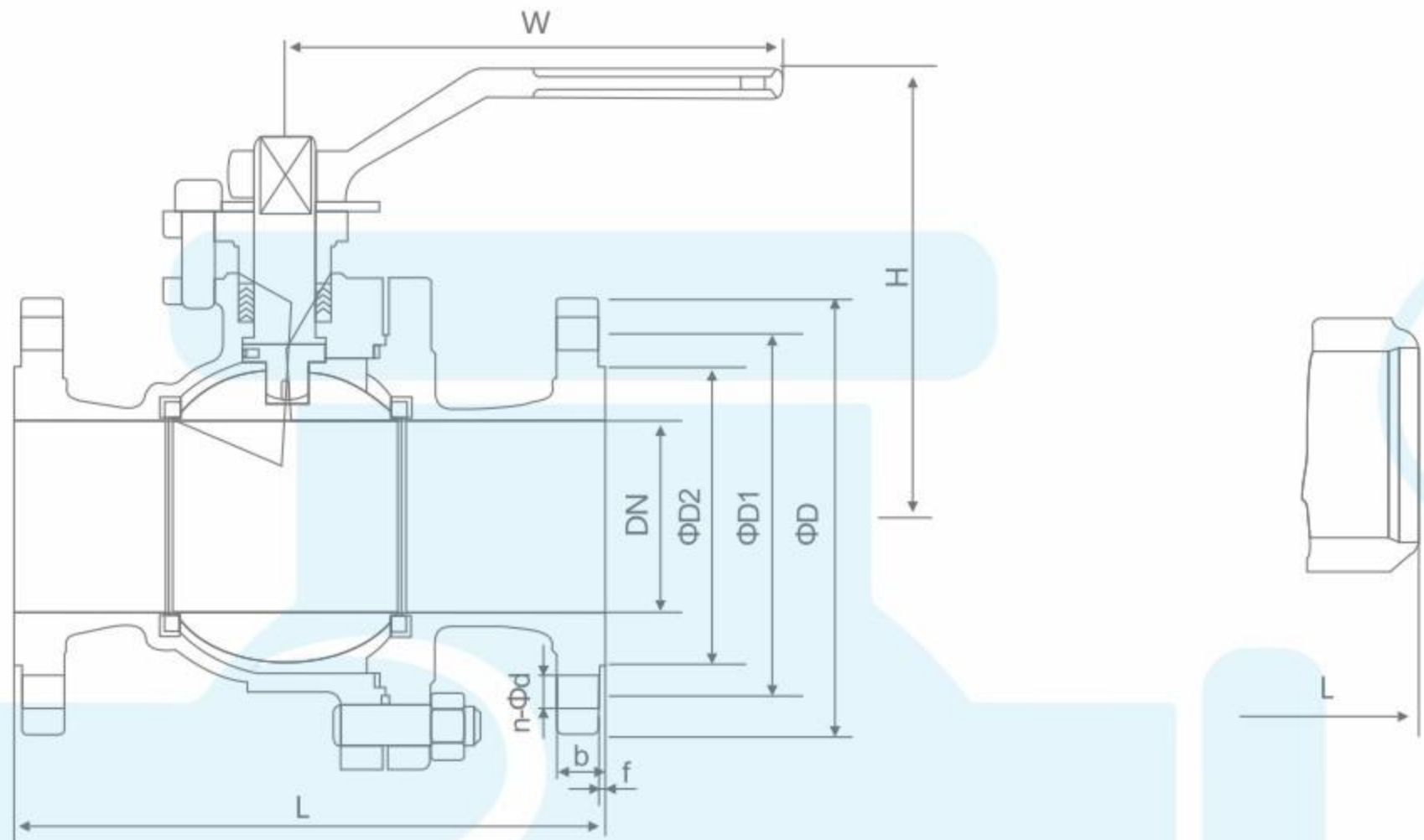
8、防火标志 FD

根据API607或BS6755来设计，确保他们在发生火灾时的操作适用性，其次金属密封面当主要的密封面被火破坏时就像是一层隔离墙，符合API607的阀门带石墨填料和垫片

Fire Durable. Designed according to API607 or BS6755 to ensure their operability in case of fire, the metal sealing surface ACTS as a barrier when the main sealing surface is damaged by fire, and API607 compliant valves with graphite packing and gaskets

美标法兰浮动球阀
API Flanged floating ball valve

Q41F-150Lb



应用标准

球阀符合API 608/API 6D标准
球阀符合ISO 10434/ISO 14313标准
防火标志采用API 607 标准
防静电采用API 608标准
符合ASME B 16.34标准
结构长度符合ASME B 16.10标准
法兰尺寸符合ASME B 16.5标准
对接焊符合ASME B 16.25标准
试验与检验符合API 598/API 6D标准

Applicable standards

BALL VALVES , API 608/API 6D
BALL VALVES , ISO 10434/ISO 14313
FIRE DURABLE , API 607
ANTI STATIC , API 608
VALVES , ASME B 16.34
FACE TO FACE , ASME B 16.10
END FLANGES , ASME B 16.5
BUTTWELDING ENDS , ASM B 16.25
INSPECTION AND TEST , API 598/API 6D

设计描述

全通径设计
螺栓连接
浮动结构
防脱阀杆
防火设计
静电装置
切断装置
ISO5211 固定盘
法兰/焊接端
蜗轮操作

Design description:

FULL PORT DESIGN
BB , BOLTED BONNET , SPLIT BODY
FLOATING BALL TYPE
BLOW-OUT PROOF STEM
FIRE DURABLE CONSTRUCTION
ANTI STATIC DEVICE
STOPPER DEVICE
ISO5211 MOUNTING PAD
FLANGED OR BUTT WELDING ENDS
AVAILABLE WITH BG OPERATOR

各部件材质 Materials of parts

序号 NO	零件名称 Part Name	ASTM材质 ASTM Material		
		碳钢Carbon Steel	CF8M	CF8
1	阀体Body	A216-WCB	A351-CF8M	CF8
2	阀盖Bonnet	A216-WCB	A351-CF8M	CF8
3	球Ball	A182-F3041)	A182-F316	F304
4	阀杆Stem	A276-304	A276-316	F304
5	阀座Seat seat	R.PTFE		
6	垫片Gasket	石墨+3042) Graphite+3042)	PTFE	PTFE
7	阀盖螺栓Valve cover bolt	A193-B7	A193-B8M	A193-B8M
8	阀盖螺母Valve cover nut	A194-2H	A194-8M	A194-8M
9	填料Packing	PTFE		
10	填料压板Packing press plate	A216-WCB	CF8	CF8
11	填料螺栓Packing bolt	A193-B7	A193-B8M	A193-B8M
12	定位片Positioning sheet	碳钢Carbon Steel	F304	F304
13	手柄Handle	碳钢Carbon Steel		

注释：1、A105+ENP 可选的 Note:1).A105+ENP optional 2、缠绕石墨垫片 2).Spiral wound construction.

美标法兰浮动球阀 API Flanged floating ball valve

球阀系列

BALL VALVE SERIES

Class 150LB 主要连接尺寸 Main connection dimensions

单位Unit:mm

DN	SIZE	L	D	D1	D2	b	f	n-Φd	H	W0
15	1/2"	108	90	60.3	34.9	10	2	4-16	59	130
20	3/4"	117	100	69.9	42.9	10.9	2	4-16	63	130
25	1"	127	110	79.4	50.8	11.6	2	4-16	75	160
32	1-1/4"	140	115	88.9	63.5	13.2	2	4-16	75	160
40	1-1/2"	165	125	98.4	73	14.7	2	4-16	95	230
50	2"	178	152	120.7	92.1	16.3	2	4-19	107	230
65	2-1/2"	190	180	139.7	104.8	17.9	2	4-19	142	400
80	3"	203	190	152.4	127	19.5	2	4-19	152	400
100	4"	229	230	190.5	157.2	24.3	2	8-19	178	700
125	5"	256	255	215.9	185.7	24.3	2	8-22	252	1100
150	6"	394	280	241.3	215.9	25.9	2	8-22	272	1100
200	8"	457	345	298.5	269.9	29	2	8-22	342	1500
250	10"	533	405	362	323.8	30.6	2	12-26	495	5#
300	12"	610	485	431.8	381	32.2	2	12-26	580	6#
350	14"	686	535	476.3	412.8	35.4	2	12-29	625	8#
400	16"	762	595	539.8	469.9	37	2	16-29	720	+
450	18"	864	635	577.9	533.4	40.1	2	16-32	800	+
500	20"	914	700	635	584.2	43.3	2	20-32	840	+
600	24"	1067	815	749.3	692.2	48.1	2	20-35	1050	+

Class 300LB 主要连接尺寸 Main connection dimensions

单位Unit:mm

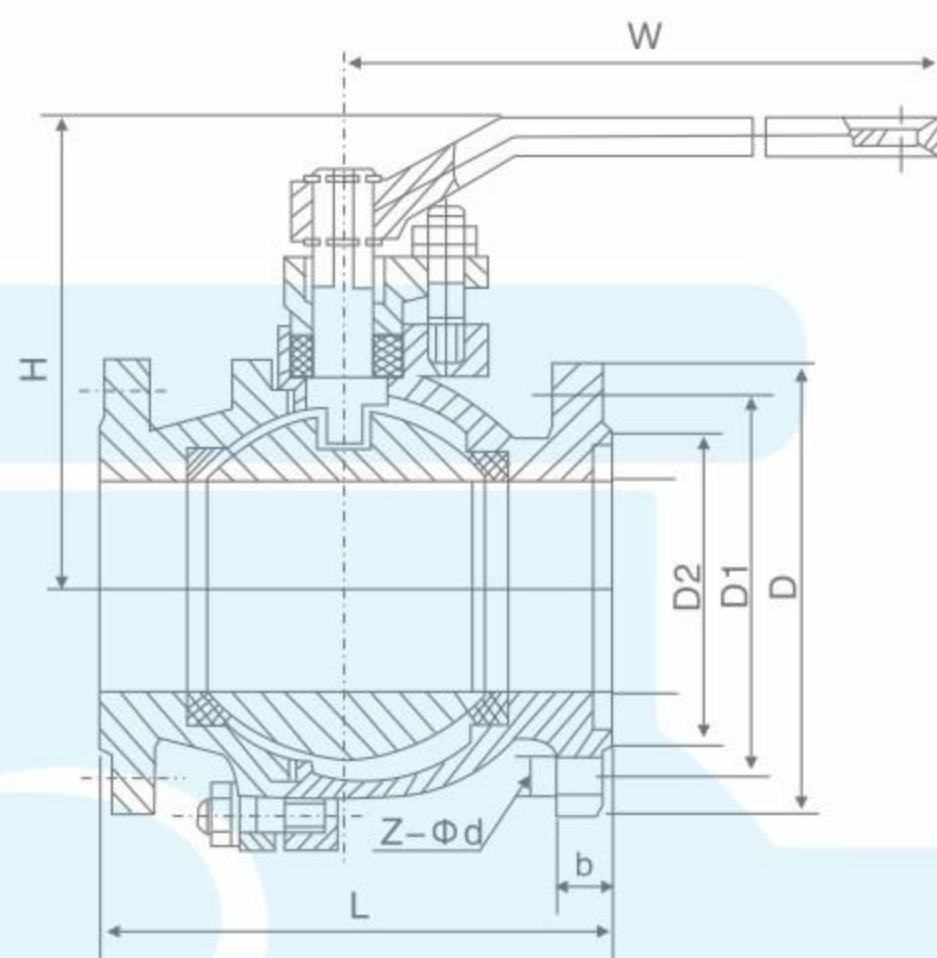
DN	SIZE	L	D	D1	D2	b	f	n-Φd	H	W0
15	1/2"	140	95	66.7	34.9	14.7	2	4-16	59	130
20	3/4"	152	115	82.6	42.9	16.3	2	4-19	63	130
25	1"	165	125	88.9	50.8	17.9	2	4-19	75	160
32	1-1/4"	178	135	98.4	63.5	19.5	2	4-19	75	160
40	1-1/2"	190	155	114.3	73	21.1	2	4-22	95	230
50	2"	216	165	127	92.1	22.7	2	8-19	107	230
65	2-1/2"	241	190	149.2	104.8	25.9	2	8-22	142	400
80	3"	282	210	168.3	127	29	2	8-22	152	400
100	4"	305	255	200	157.2	32.2	2	8-22	178	700
125	5"	381	280	235	185.7	35.4	2	8-22	252	1100
150	6"	403	320	269.9	215.9	37	2	12-22	272	1100
200	8"	502	380	330.2	269.9	41.7	2	12-25	342	1500
250	10"	568	445	387.4	323.8	48.1	2	16-29	495	5#
300	12"	648	520	450.8	381	51.3	2	16-32	580	6#
350	14"	762	585	514.4	412.8	54.4	2	20-32	625	8#
400	16"	838	650	571.5	469.9	57.6	2	20-35	720	+
450	18"	914	710	628.6	533.4	60.8	2	24-35	800	+
500	20"	991	775	685.8	584.2	64	2	24-35	840	+
600	24"	1143	915	812.8	692.2	70.3	2	24-41	1050	+

Class 600LB 主要连接尺寸 Main connection dimensions

单位Unit:mm

DN	SIZE	L	D	D1	D2	b	f	n-Φd	H	W0
15	1/2"	165	95	66.7	34.9	21.3	7	4-16	59	160
20	3/4"	190	115	82.6	42.9	22.9	7	4-19	63	160
25	1"	216	125	88.9	50.8	24.5	7	4-19	75	230
32	1-1/4"	229	135	98.4	63.5	27.7	7	4-19	75	300
40	1-1/2"	241	155	114.3	73	29.3	7	4-22	95	400
50	2"	292	165	127	92.1	32.4	7	8-19	107	700
65	2-1/2"	330	190	149.2	104.8	35.6	7	8-22	150	700
80	3"	356	210	168.3	127	38.8	7	8-22	169	750
100	4"	432	275	215.9	157.2	45.1	7	8-26	178	1100
125	5"	508	330	266.7	185.7	51.5	7	8-29	245	4#
150	6"	559	355	292.1	215.9	54.7	7	12-29	300	5#
200	8"	660	420	349.2	269.9	62.6	7	12-32	374	5#
250	10"	787	510	431.8	323.8	70.5	7	16-35	445	6#
300	12"	838	560	489	381	73.7	7	20-35	515	+
350	14"	889	605	527	412.8	76.9	7	20-38	550	+
400	16"	991	685	603.2	469.9	83.2	7	20-41	615	+
450	18"	1092	745	654	533.4	89.6	7	20-45	900	+
500	20"	1194	815	723.9	584.2	95.9	7	24-45	950	+
600	24"	1397	940	838.2	692.2	108.6	7	24-51	1200	+

日标球阀 JIS ball valve



执行标准 Execution standard

设计标准 Design standard	结构长度 Face to Face	法兰连接尺寸 Flange End	压力-温度 Pressure-Temp.	试验与检验 Test & Check
BS 5351	JIS B2002	JIS B2212 B2214	JIS B2201	JIS B2003

10K 主要连接尺寸 Main connection dimensions

单位Unit:mm

DN	SIZE	L	D	D1	D2	b	n-Φd
15	1/2"	108	95	70	52	12	4-15
20	3/4"	117	100	75	58	14	4-15
25	1"	127	125	90	70	14	4-19
32	1-1/4"	140	135	100	80	16	4-19
40	1-1/2"	165	140	105	85	16	4-19
50	2"	178	155	120	100	16	4-19
65	2-1/2"	190	175	140	120	18	4-19
80	3"	203	185	150	130	18	8-19
100	4"	229	210	175	155	18	8-19
125	5"	356	250	210	185	20	8-23
150	6"	394	280	240	215	22	8-23
200	8"	457	330	290	265	22	12-23
250	10"	533	400	355	325	24	12-25

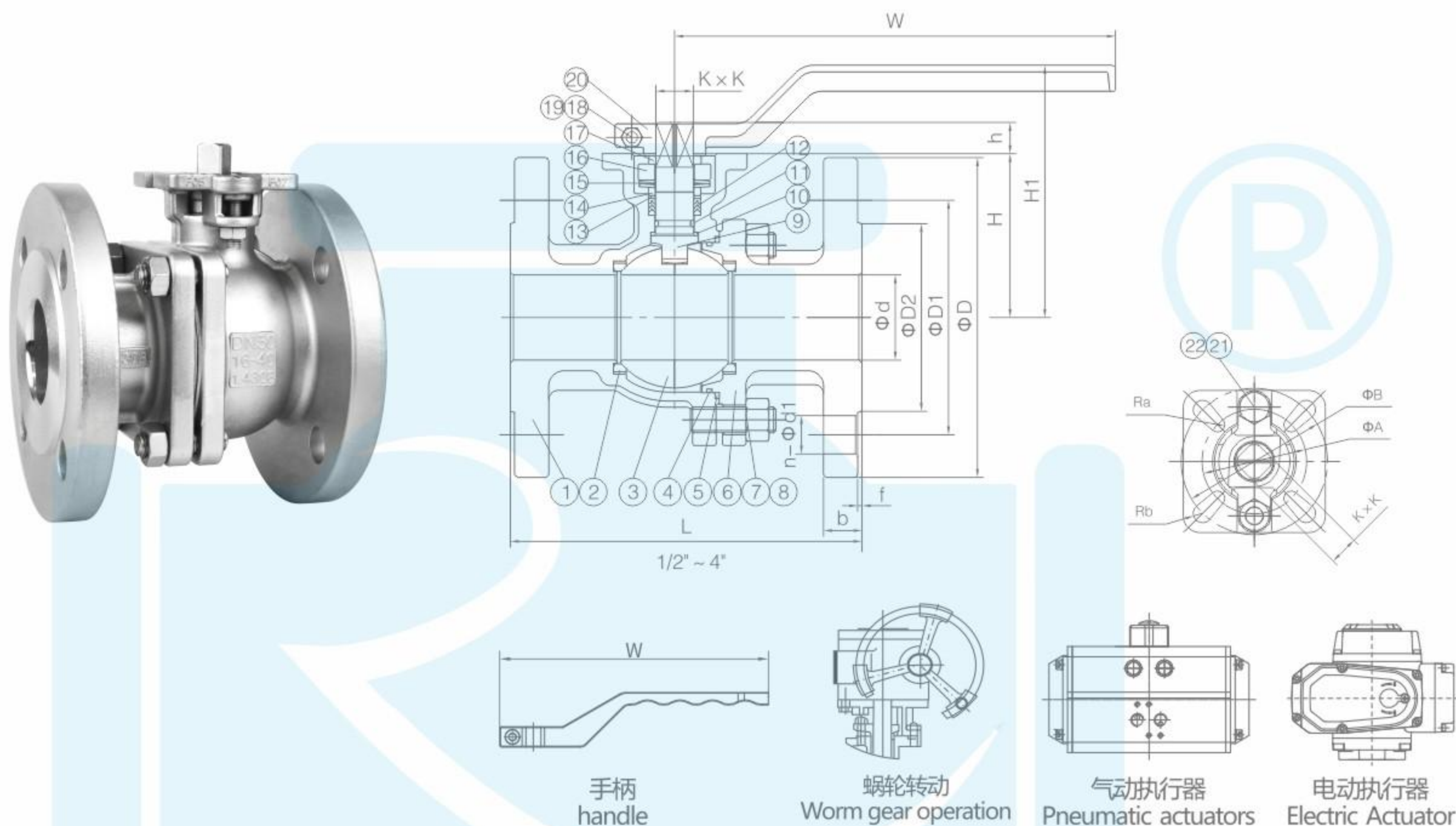
20K 主要连接尺寸 Main connection dimensions

单位Unit:mm

DN	SIZE	L	D	D1	D2	b	n-Φd
15	1/2"	140	95	70	52	12	4-15
20	3/4"	152	100	75	58	14	4-15
25	1"	165	125	90	70	14	4-19
40	1-1/2"	190	140	105	85	16	4-19
50	2"	216	155	120	100	18	8-19
65	2-1/2"	241	175	140	120	20	8-19
80	3"	283	200	160	135	22	8-23
100	4"	305	225	185	160	24	8-23
125	5"	400	270	225	195	26	8-25
150	6"	403	305	260	230	28	12-25
200	8"	419	350	305	275	30	12-25
250	10"	568	430	380	345	34	12-27

二片式德标高平台法兰球阀

2-PC ball valve flange end DIN direct mounting pad



特点 Characteristic

全通径 Full port: 1/2"~12"(DN15~DN300)
工作压力W.P.: PN16/40
工作温度W.T.: -20°C~180°C
精密铸造 Investment casting
阀杆防爆出装置设计 Blow-out proof stem
防静电装置(可选)Anti-static device(option)
带锁手柄 Locking device handle
ISO5211直装高平台设计 ISO5211 Direct mounting pad
自动化装置(可选) Automation accessories(option)

设计标准 Design: EN1983,EN12516-1
法兰标准 Flange dimension: DIN 2543~2545,EN1092-1 PN16/40
结构长度 Face to face: DIN3202 part1-F4 (DN15~DN100),
DIN3202 part1-F5 (DN125~DN300)
检验&测试 Inspection& testing: DIN3230,EN12266-1

材料列表 Material List

序号 Number	零件名称 Part name	材料 Material
1	阀体 BODY	1.0619 1.4308 1.4408
2	阀座 SEAT	PTFE
3	球体 BALL	1.4308 1.4308 1.4408
4	O形圈 O-RING	FPM
5	垫片 GASKET	PTFE
6	阀盖 BONNET	1.0619 1.4308 1.4408
7	螺栓 BOLT	304
8	螺母 NUT	304
9	阀杆 STEM	304 316
10	阀杆垫圈 STEM WASHER	PTFE+25% GF
11	O形圈 O-RING	FPM
12	填料 PACKING	PTFE
13	耐磨垫圈 WEAR WASHER	PTFE+25% GF
14	填料盖 GLAND	304
15	蝶形弹簧 DISC SPRING	304
16	压盖法兰 GLAND FLANGE	CF8
17	定位片 STOPPER	304
18	内六角螺钉 HEX SOCKET BOLT	304
19	螺母 NUT	304
20	手柄 HANDLE	WCB/CF8
21	螺栓 BOLT	304
22	螺母 NUT	304

二片式德标高平台法兰球阀

2-PC ball valve flange end DIN direct mounting pad

PN16 主要连接尺寸 Main connection dimensions

单位Unit:mm

DN	SIZE	L	d	D2	D1	D	b	f	n-Φd1	H	h	H1	W	Ra	Rb	A	B	KxK
15	1/2"	115	15	45	65	95	16	2	4-14	55	9	87	140	3.0	3.5	36	50	9x9
20	3/4"	120	20	58	75	105	18	2	4-14	60	9	92	140	3.0	3.5	36	50	9x9
25	1"	125	25	68	85	115	18	2	4-14	67	11	102	170	3.0	3.5	42	50	11x11
32	1-1/4"	130	32	78	100	140	18	2	4-18	76	11	111	170	3.0	3.5	42	50	11x11
40	1-1/2"	140	40	88	110	150	18	3	4-18	85	14	123	200	3.5	4.5	50	70	14x14
50	2"	150	50	102	125	165	20	3	4-18	93	14	131	200	3.5	4.5	50	70	14x14
65	2-1/2"	170	65	122	145	185	18	3	4-18	113	17	157	300	4.5	5.5	70	102	17x17
80	3"	180	80	138	160	200	20	3	8-18	126	17	170	300	4.5	5.5	70	102	17x17
100	4"	190	100	158	180	220	20	3	8-18	141	17	185	300	4.5	5.5	70	102	17x17
125	5"	325	125	188	210	250	22	3	8-18	170	25	255	650	5.5	6.5	102	125	22x22
150	6"	350	150	212	285	285	22	3	8-22	192	30	277	800	5.5	6.5	102	125	27x27
200	8"	400	200	268	340	340	24	3	8-22	234	35	280	300	5.5	6.5	102	125	27x27

PN40 主要连接尺寸 Main connection dimensions

单位Unit:mm

DN	SIZE	L	d	D2	D1	D	b	f	n-Φd1	H	h	H1	W	Ra	Rb	A	B	KxK
15	1/2"	115	15	45	65	95	16	2	4-14	55	9	87	140	3.0	3.5	36	50	9x9
20	3/4"	120	20	58	75	105	18	2	4-14	60	9	92	140	3.0	3.5	36	50	9x9
25	1"	125	25	68	85	115	18	2	4-14	67	11	102	170	3.0	3.5	42	50	11x11
32	1-1/4"	130	32	78	100	140	18	2	4-18	76	11	111	170	3.0	3.5	42	50	11x11
40	1-1/2"	140	40	88	110	150	18	3	4-18	85	14	123	200	3.5	4.5	50	70	14x14
50	2"	150	50	102	125	165	20	3	8-18	93	14	131	200	3.5	4.5	50	70	14x14
65	2-1/2"	170	65	122	145	185	22	3	4-18	113	17	157	300	4.5	5.5	70	102	17x17
80	3"	180	80	138	160	200	24	3	8-18	126	17	170	300	4.5	5.5	70	102	17x17
100	4"	190	100	162	190	235	24	3	8-22	141	17	226	650	5.5	6.5	102	125	22x22
125	5"	325	125	188	220	270	26	3	8-26	170	25	255	650	5.5	6.5	102	125	22x22
150	6"	350	150	218	250	300	28	3	8-26	192	30	277	800	5.5	6.5	102	125	27x27
200	8"	400	200	285	320	375	34	3	12-30	234	35	280	300	5.5	6.5	102	125	27x27

球阀系列

BALL VALVE SERIES

Q47F/Y/H型固定式球阀

Fixed ball valve

结构特点及用途

Structural characteristics and uses

1、操作省力：球体由上下轴承支撑，减少摩擦，消除了由于进口压力推动球体与密封座形成的巨大密封负荷而造成过大的扭矩。

1、 Operation: ball bearings supported by the up and down, to reduce friction, eliminate the pressure as imports to promote the formation of the sphere and the great seal sealed seat load caused by excessive torque.

2、密封性能可靠（见图1）：PTFE弹性材料密封圈嵌于不锈钢阀座内，金属阀座尾端没有弹簧，保证密封圈足够的预紧力，阀门在使用过程中密封面摩擦损时，在弹簧作用下阀门继续保证良好密封性能。

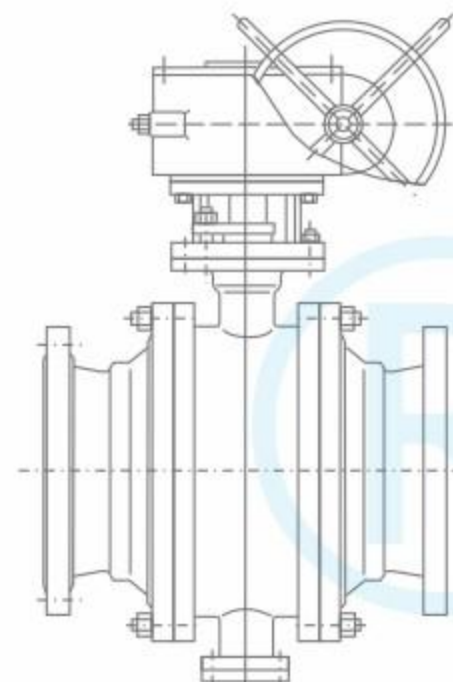
2、 Sealing performance and reliable (see Figure 1): PTFE elastic material embedded in stainless steel valve seat ring, the metal spring seat no end, to ensure adequate preload ring, valve sealing surface in the course of friction loss When the valve under the action of the spring to ensure good sealing performance.

3、防火结构（见图2）：为防止由于骤热或火灾的出现，使聚四氟乙烯密封圈烧毁，发生较大泄漏，而助长火势，在球体与阀座间设置防火密封环，在密封圈烧毁时，在弹簧力作用下，将阀座密封环迅速推向球体上，形成金属与金属密封，起到一定程度的密封效果。耐火试验符合API 6FA和API 607标准要求。

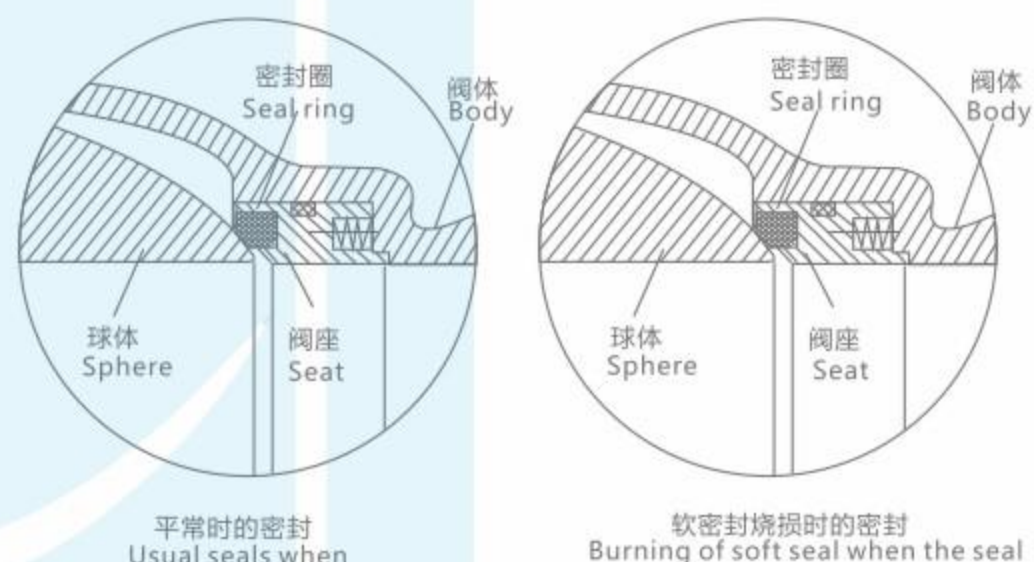
3、 Fire structure (see Figure 2): In order to prevent the sudden appearance of heat or fire to burn PTFE seals, large leak occurred, and contribute to the fire, the fire ball and set the seal ring between the valve seat, in the ring when burned, under the action of the spring force will quickly push the ball valve seat seal ring, the formation of metal to metal seal, play a certain degree of sealing effect. The fireproof experiment conforms to API 6FA and the API 607 standard requests.

4、自动泄压功能（见图3）：当阀门中腔停滞的介质压力异常升高超过弹簧的预紧力时，阀座后退脱离球体，达到自动泄压的效果，卸压后阀座自动复位。

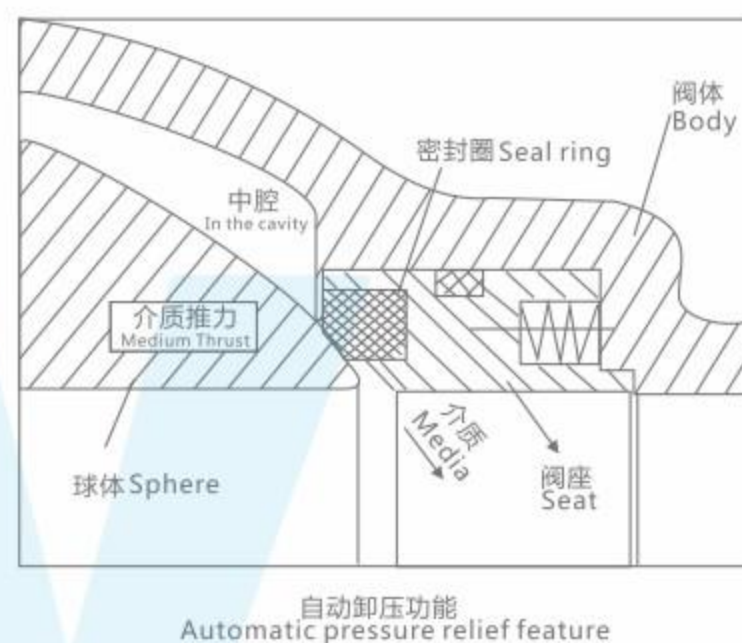
4、 Automatic pressure relief function (see Figure 3): When the valve is in a stagnant medium pressure in the cavity increased over the spring preload, the seat back from the ball, to the effect of automatic pressure relief, pressure relief valve seat after automatically reset.



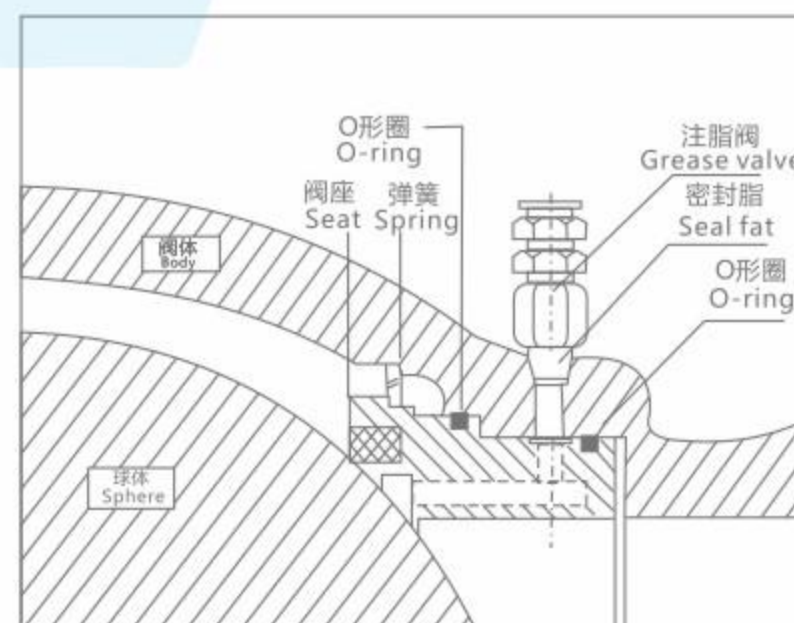
图一 Figure 1



图二 Figure 2



图三 Figure 3



图四 Figure 4

Q47F/Y/H型固定式球阀

Fixed ball valve

5、排泄管路：阀体上下均设置排泄孔，可检查阀座是否发生泄漏，在工作中，阀门处于全开或全关时，卸掉中腔压力，可直接更换填料；可以排放中腔滞留物，减少介质对阀门的污染。

辅助密封设置系统（客户需要请在订购时说明）

5、Discharge tube: the upper and lower body were set to vent, to check whether the leak valve seat, at work, the valve is fully open or fully closed, the removal of the pressure in the cavity can directly replace the packing; to emissions cavity left in reducing pollution of medium on the valve.

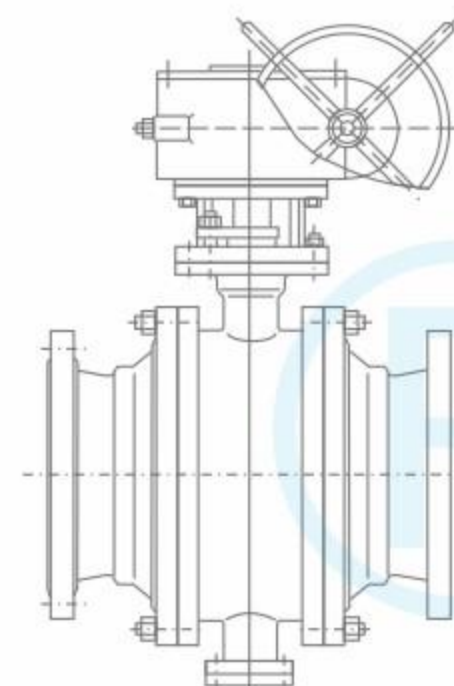
Auxiliary sealing set the system (customer needs when ordering please specify)

6、见图4：本阀门设计有辅助的阀座紧急密封系统，一旦密封受损或出现紧急情况而不能密封时，通过辅助密封系统向密封面注射相应的密封剂即可修复密封面，达到紧急密封。当输送的介质不洁或含有少量颗粒时，为保护密封面，确保达到可靠的密封，还可给这一装置注射相应的清洗剂或润滑剂对密封面进行清洗。

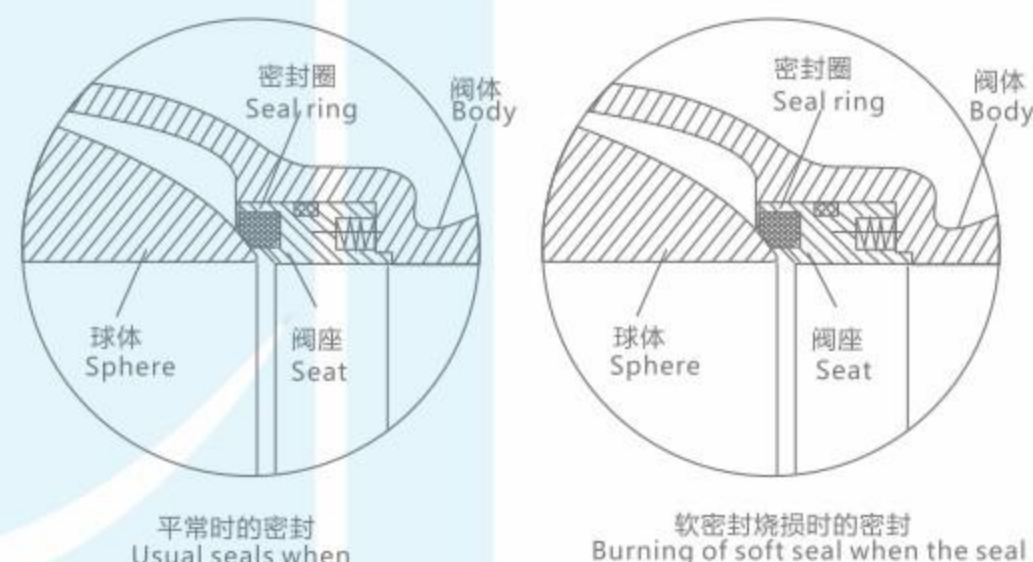
6、Figure 4: The auxiliary valve seat designed for emergency sealing system, once the seal damage or emergency situations cannot be sealed, through the auxiliary sealing system corresponding to the sealing surface sealant injection sealing surface can be repaired, to an emergency seal. When the transport medium or containing a small amount of contaminated particles, in order to protect the sealing surface and ensure that a reliable seal, the device can also be injected to the appropriate cleaning agents or lubricants on the sealing surface cleaning.

7、广泛适用于食品、医药、石油、化工、天然气、钢铁、环保、造纸等输送管路介质的切断或流通。还可给这一装置注射相应的清洗剂或润滑剂对密封面进行清洗。

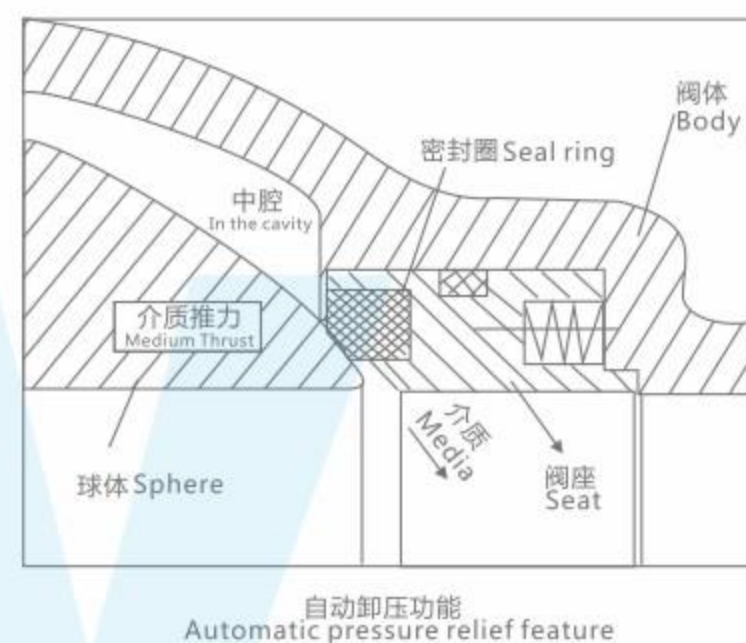
7、Widely used in food, medicine, petroleum, chemical, natural gas, steel, environmental protection, paper and other media to cut off pipeline transportation or circulation. The device can also be injected to the appropriate cleaning agents or lubricants on the sealing surface cleaning.



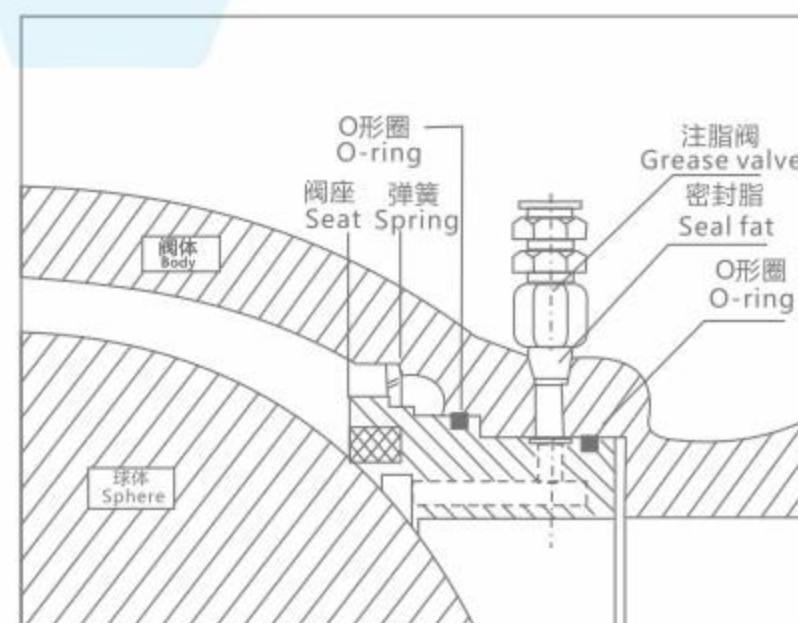
图一 Figure 1



图二 Figure 2



图三 Figure 3



图四 Figure 4

Q47F/Y/H型固定式球阀

Fixed ball valve

执行标准 Implementation of standards

- 1、设计和制造 Design and manufacture : GB/T 12237;API 608
- 2、检验和试验 Inspection and test : GB/T 26480-2011;API 598
- 3、法兰连接 Flange connection : HG/T 20592-2009;ASME/ANSI B 16.5
- 4、结构长度 Structure length : GB/T 12221-2005;ASME/ANSI B 16.10

性能规范 Performance Specifications

试验压力 Test pressure

单位 Unit : MPa

公称压力 PN	常温最大工作压力 Max temperature Working pressure	壳体 试验压力 Case Test pressure	气密封 试验压力 Gas Seals test pressure	高压密封 试验压力 High-pressure sealing Test pressure
1.6	1.6	2.4	0.6	1.76
2.5	2.5	3.8	0.6	2.75
4.0	4.0	6.0	0.6	4.4
6.4	6.4	9.6	0.6	7.1
Class 150	2.0	3.0	0.6	2.2
Class 300	5.0	7.5	0.6	5.5

使用范围 Terms of Use

壳体材料 Shell material	阀座材料 Seat material	活用温度 Applicable temperature	适用介质 Applicable media
碳钢 C 型 Carbon Steel C	聚四氟乙烯 PTFE	≤150℃	水、蒸汽、油品等 Water, steam, oil, etc.
	对位聚苯 Counterpoint polystyrene	≤250℃	
铬镍钛钢 P 型 Chrome P-type nickel-titanium steel	聚四氟乙烯 PTFE	≤150℃	硝酸类 Nitric acid
	对位聚苯 Counterpoint polystyrene	≤200℃	
铬镍钼钛钢 R 型 Chrome-nickel steel R-Mo Ti	聚四氟乙烯 PTFE	≤150℃	醋酸类 Acetic acid
	对位聚苯 Counterpoint polystyrene	≤200℃	

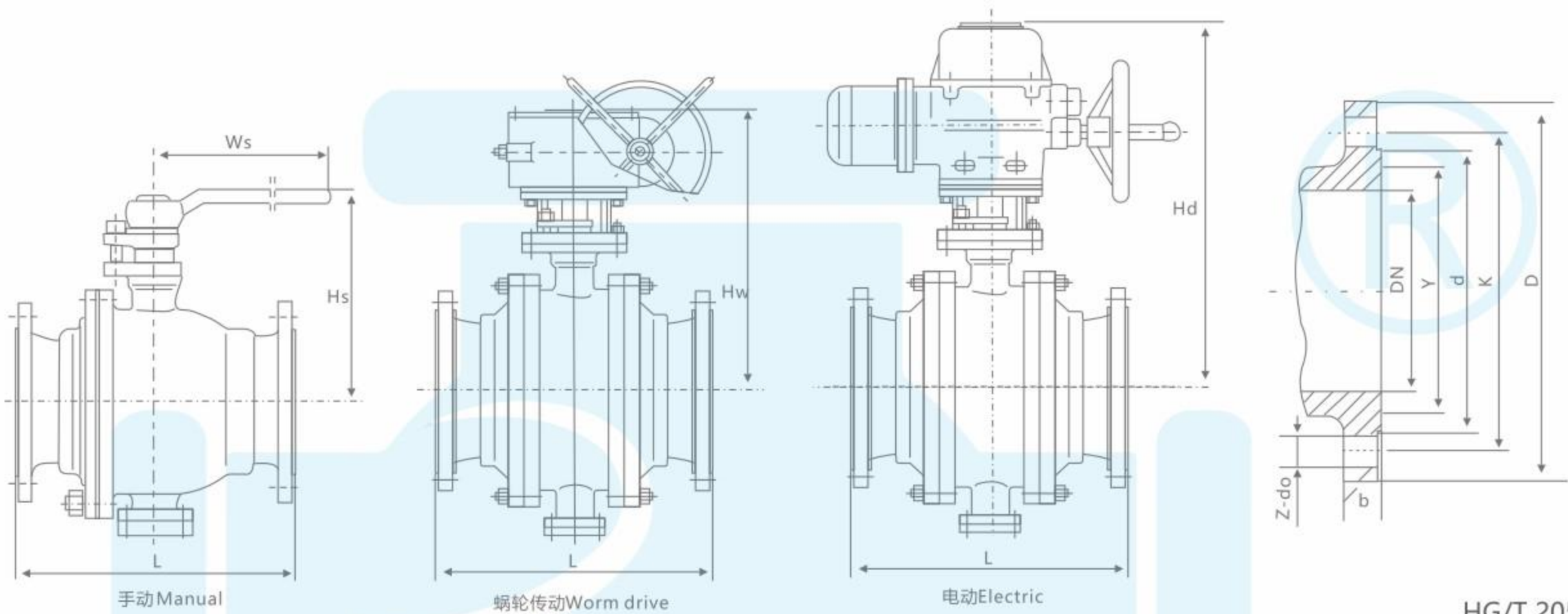
主要零件材料 Main components material

阀体、阀盖 Body, bonnet	GB	WCB	ZG0Cr18Ni9	ZG0Cr17Ni12Mo2
	ASTM	WCB	CF8	CF8M
球体 Ball body	GB	2Cr13	0Cr18Ni9	0Cr17Ni12Mo2
	ASTM	420	304	316
阀杆 Stem	GB	2Cr13	0Cr18Ni9	1Cr18Ni12Mo2Ti
	ASTM	420	304	316
阀座 Seat	GB	2Cr13/PTFE	0Cr18Ni9/PTFE	0Cr17Ni12Mo2/PTFE
	ASTM	420/PTFE	304/PTFE	316/PTFE
填料 Packing	GB	PTFE	PTFE	PTFE
	ASTM	PTFE	PTFE	PTFE
螺栓 Bolt	GB	35	0Cr18Ni9	0Cr18Ni9
	ASTM	A193 B7	A320-B8	A320-B8
螺母 Nut	GB	45	0Cr18Ni9	0Cr18Ni9
	ASTM	A194 2H	A190-8	A194-8

Q47F/Y/H型固定金属密封球阀
Fixed metal seal ball valve

球阀系列

BALL VALVE SERIES



PN16 主要外形和连接尺寸 Main external and connection dimension

HG/T 20592
单位Unit:mm

DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd	N.m
150	394	285	240	210	-	22	8-23	1000	305	470	540	300
200	457	340	295	265	-	24	12-23	-	-	520	580	450
250	533	405	355	320	-	26	12-25	-	-	610	640	750
300	610	460	410	375	-	28	12-25	-	-	650	690	1250
350	686	520	470	435	-	32	16-25	-	-	740	785	2000
400	762	580	525	485	-	36	16-30	-	-	795	830	2350
450	864	640	585	545	-	38	20-30	-	-	860	910	3300
500	914	705	650	608	-	42	20-34	-	-	945	990	4300
600	1067	840	770	718	-	46	20-41	-	-	1040	1090	7400
700	1245	910	840	788	-	48	24-41	-	-	1150	1210	-
800	1372	1020	950	898	-	50	24-41	-	-	1280	1340	-
900	1524	1120	1050	998	-	52	28-41	-	-	1430	1510	-
1000	1753	1255	1170	1110	-	54	28-48	-	-	1580	1640	-
1200	2032	1485	1390	1325	-	56	32-54	-	-	1810	1910	-
1400	2300	1685	1590	1525	-	60	36-54	-	-	2010	2115	-

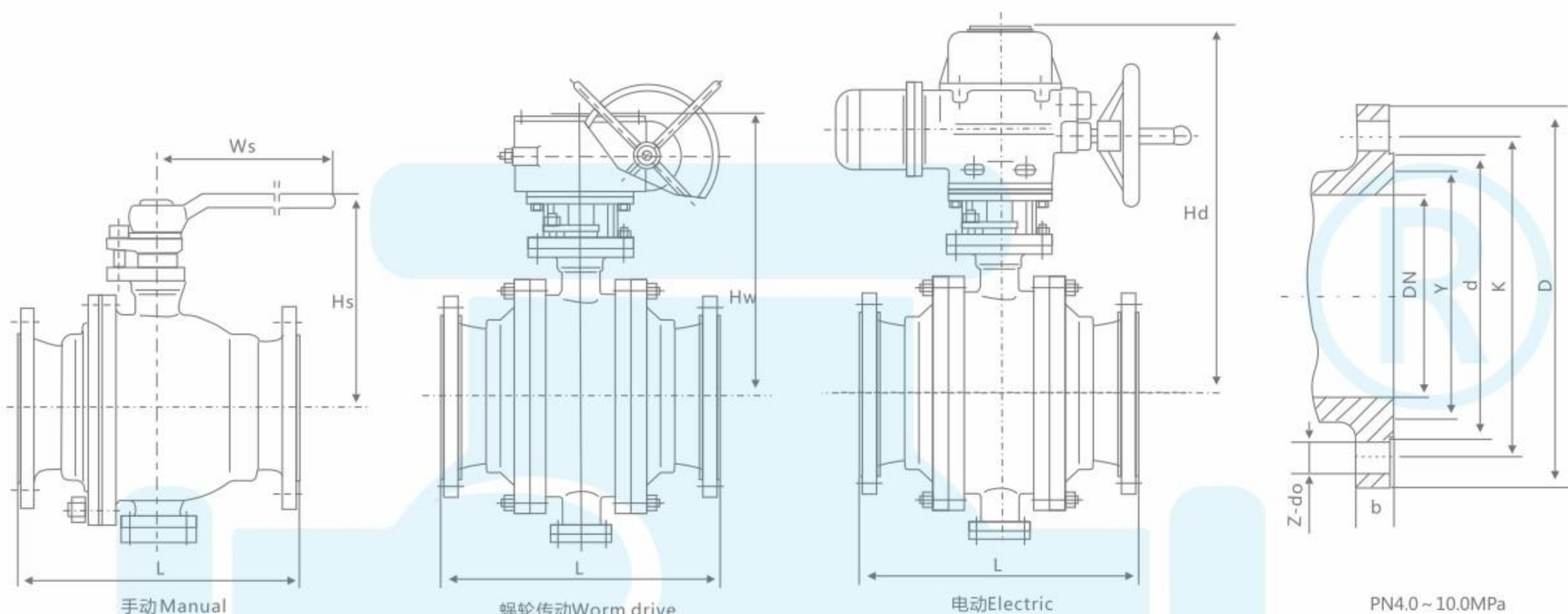
PN25 主要外形和连接尺寸 Main external and connection dimension

单位Unit:mm

150	403	300	250	218	-	30	8-25	1000	305	470	555	380
200	502	360	310	278	-	34	12-25	-	-	540	595	630
250	568	425	370	332	-	36	12-30	-	-	630	655	1050
300	648	485	430	390	-	40	16-30	-	-	650	705	1750
350	762	550	490	448	-	44	16-34	-	-	740	795	2600
400	838	610	550	505	-	48	16-34	-	-	795	830	3200
450	914	660	600	555	-	50	20-34	-	-	860	910	4600
500	991	730	660	610	-	52	20-41	-	-	945	990	6000
600	1143	840	770	718	-	56	20-41	-	-	1040	1090	10000
700	1346	955	875	815	-	60	24-48	-	-	1150	1210	-
800	1524	1070	990	930	-	64	24-48	-	-	1305	1340	-
900	1727	1180	1090	1025	-	66	28-54	-	-	1505	1600	-
1000	1880	1305	1210	1140	-	68	28-58	-	-	1615	1705	-
1200	2184	1525	1420	1350	-	72	32-58	-	-	1925	2035	-
1400	2300	1750	1640	1560	-	78	36-65	-	-	2110	2185	-

Q47F/Y/H型固定金属密封球阀

Fixed metal seal ball valve



PN40 主要外形和连接尺寸 Main external and connection dimension

HG/T 20592
单位Unit:mm

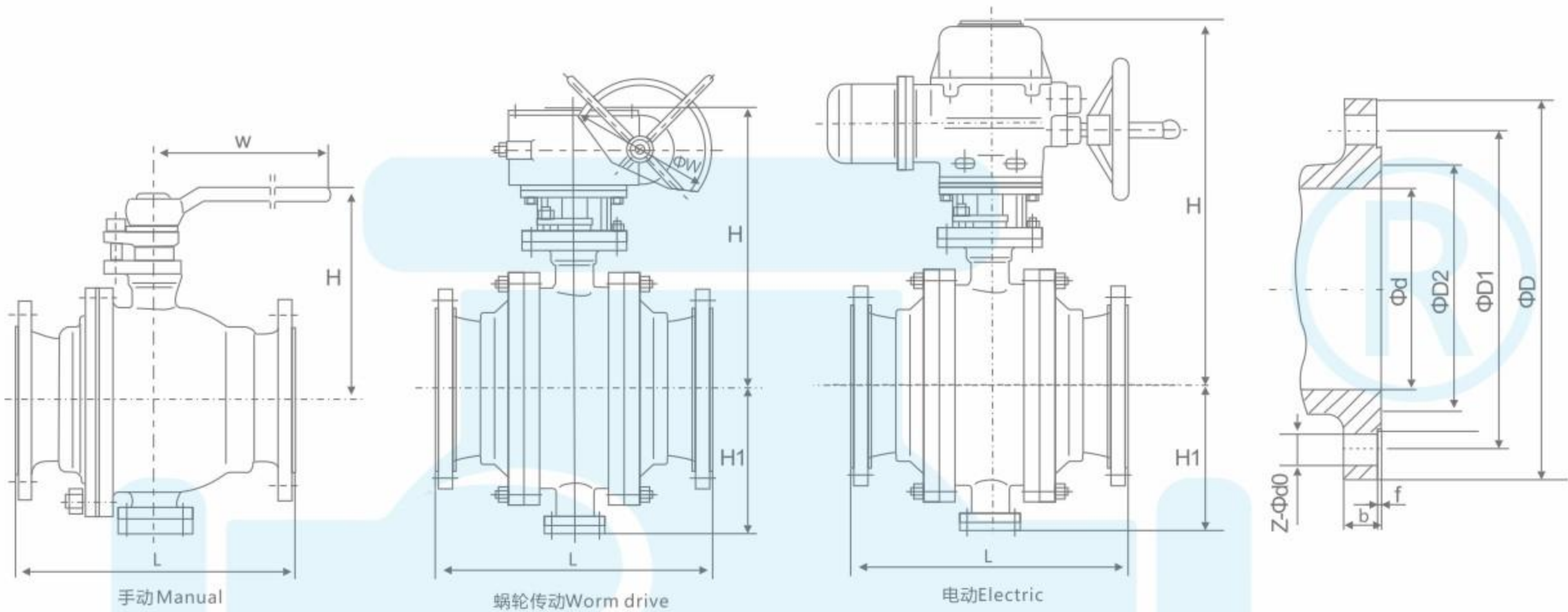
DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd	N.m
150	403	300	250	218	204	30	8-25	1200	360	485	590	450
200	502	375	320	282	260	38	12-30	-	-	580	640	750
250	568	445	385	345	313	42	12-34	-	-	665	680	1250
300	648	510	450	408	364	46	16-34	-	-	760	810	2100
350	762	570	510	465	422	52	16-34	-	-	820	890	2800
400	838	655	585	535	474	58	16-41	-	-	860	940	4300
450	914	680	610	560	524	60	20-41	-	-	930	1010	5500
500	991	755	670	612	576	62	20-48	-	-	980	1130	6800
600	1143	890	795	730	678	62	20-54	-	-	1040	1090	11000
700	1346	995	900	835	768	68	24-54	-	-	1150	1210	-
800	1524	1135	1030	960	876	76	24-58	-	-	1305	1340	-
900	1727	1270	1168	1022	-	105	32-54	-	-	1505	1600	-
1000	1880	1238	1156	1086	-	114	32-44	-	-	1615	1705	-
1200	2184	1467	1372	1302	-	133	32-51	-	-	1925	2035	-
1400		1708	1600	1518	-	154	28-60	-	-	2110	2185	-

PN64 主要外形和连接尺寸 Main external and connection dimension

单位Unit:mm

DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd	N.m
150	495	340	280	240	204	38	8-34	1200	360	485	590	600
200	597	405	345	300	260	44	12-34	-	-	580	650	1300
250	673	470	400	352	313	48	12-41	-	-	665	720	2000
300	762	530	460	412	364	54	16-41	-	-	760	840	2900
350	826	595	525	475	422	60	16-41	-	-	820	930	3700
400	902	670	585	525	474	66	16-48	-	-	870	990	5800
500	1054	800	705	640	576	70	20-54	-	-	995	1150	-
600	1232	930	820	750	678	76	20-58	-	-	1100	1180	-
700	1397	1035	940	800	-	95	28-51	-	-	1180	1230	-
800	1651	1149	1054	914	-	108	28-54	-	-	1345	1385	-
900	1880	1270	1168	1022	-	114	32-54	-	-	1550	1655	-
1000	1981	1270	1175	1092	-	133	32-51	-	-	1675	1745	-
1200	2311	1511	1403	1308	-	152	28-60	-	-	1945	2075	-

Q47F/Y/H型固定金属密封球阀
Fixed metal seal ball valve



Class 150 PN20 主要连接尺寸 Main connection dimensions

单位Unit:mm

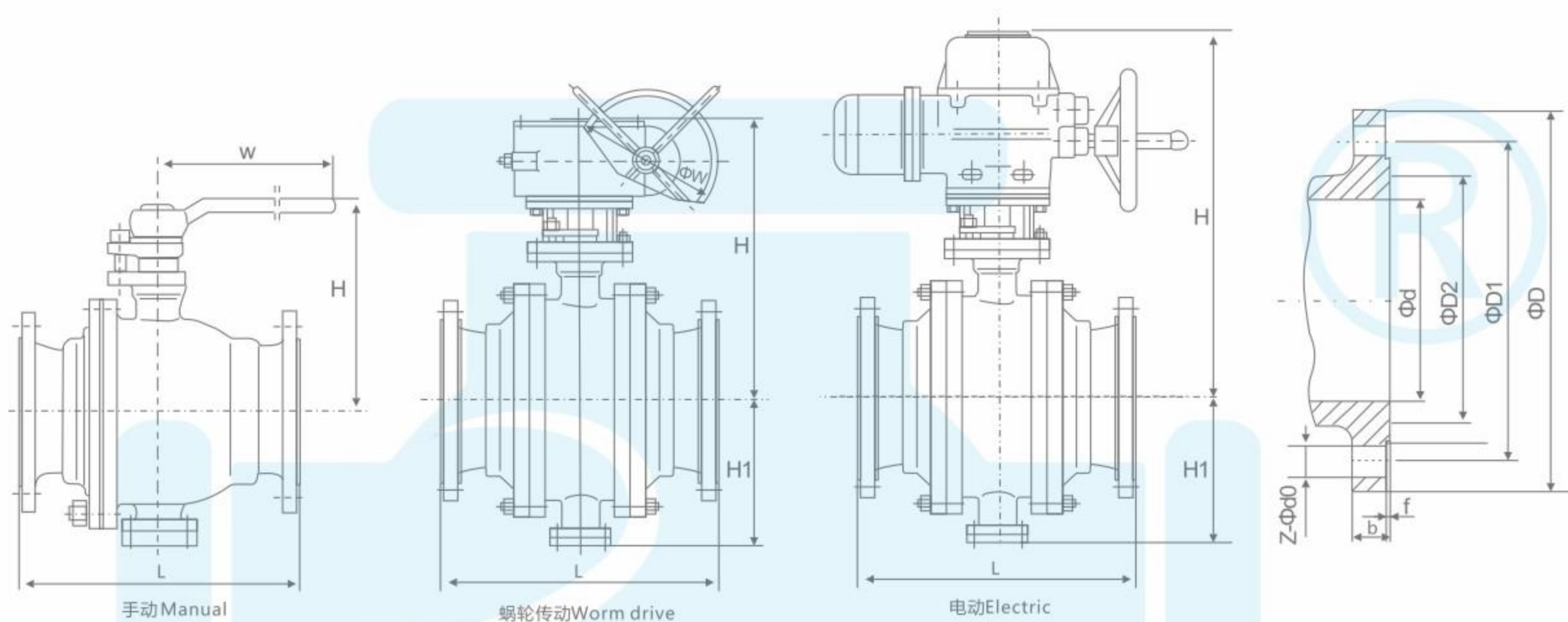
DN	SIZE	L		d	D	D1	D2	b	f	Z-Φd	H	H1	W
		RF	对焊										
50	2"	178	216	51	152	120.5	92	16	1.6	4-19	-	-	-
65	2 1/2"	190	241	64	178	139.5	105	18	1.6	4-19	-	-	-
80	3"	203	283	76	190	152.5	127	19	1.6	4-19	-	-	-
100	4"	229	305	102	229	190.5	157	24	1.6	8-19	330	135	300
125	5"	356	381	127	254	216	186	24	1.6	8-22	360	165	300
150	6"	394	457	152	279	241.5	216	25.5	1.6	8-22	392	193	300
200	8"	457	521	203	343	298.5	270	29	1.6	8-22	492	240	300
250	10"	533	559	254	406	362	324	31	1.6	12-25	548	293	300
300	12"	610	635	305	483	432	381	32	1.6	12-25	688	340	400
350	14"	686	762	337	533	476	413	35	1.6	12-29	722	372	400
400	16"	762	838	387	597	540	470	37	1.6	16-29	722	415	400
450	18"	864	914	438	635	578	533	40	1.6	16-32	804	462	500
500	20"	914	991	489	699	635	584	43	1.6	20-32	952	511	600
600	24"	1067	1143	591	813	749.5	692	48	1.6	20-35	1154	601	750
650	26"	1143	1245	633	786	744.5	711	40	1.6	36-22	1300	700	750
700	28"	1245	1346	684	837	795.5	762	43	1.6	40-22	1550	780	750
750	30"	1295	1397	735	887	846	813	43	1.6	44-22	1650	830	750
800	32"	1372	1524	779	941	900	864	44	1.6	48-22	1740	870	750
900	36"	1524	1727	874	1057	1009.5	972	51	1.6	44-26	1950	970	750

球阀系列

BALL VALVE SERIES

Q47F/Y/H型固定金属密封球阀

Fixed metal seal ball valve

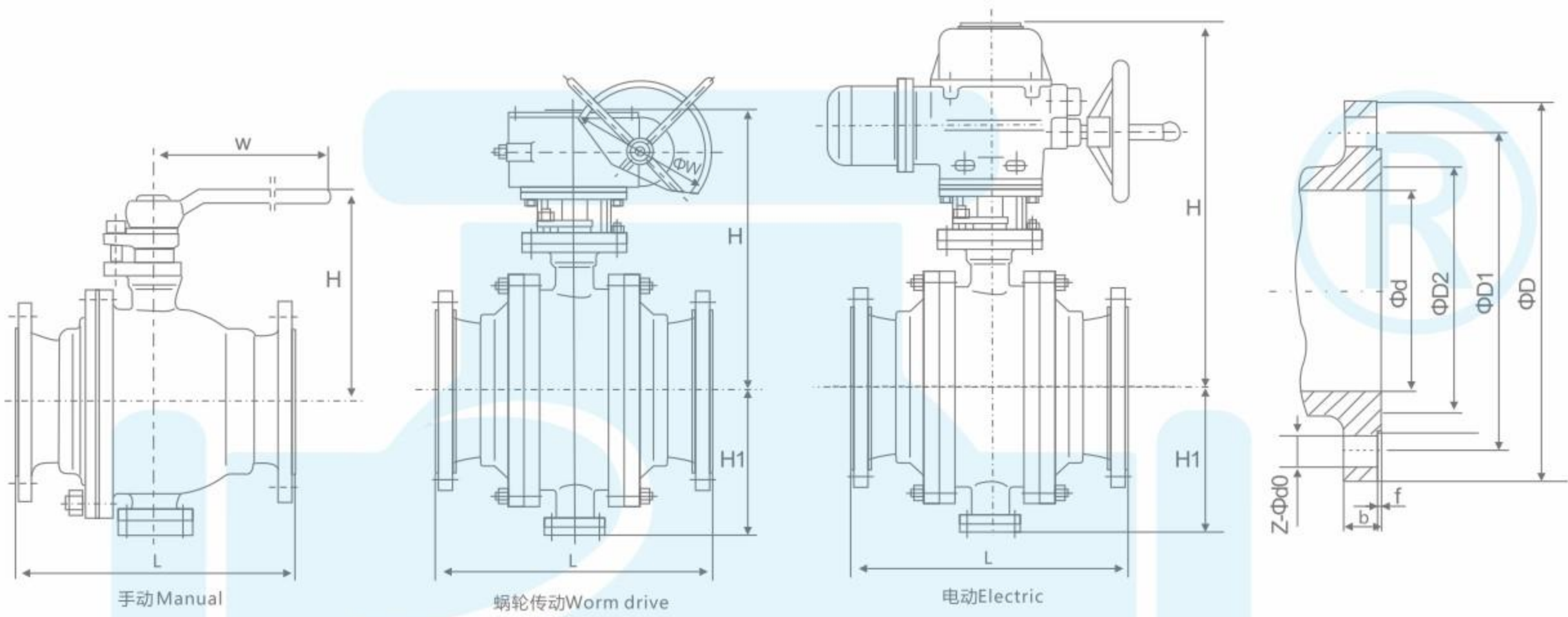


Class 300 PN150 主要连接尺寸 Main connection dimensions

单位Unit:mm

DN	SIZE	L		d	D	D1	D2	b	f	Z-φd	H	H1	W
		RF	对焊										
50	2"	216	216	51	165	127	92	23	1.6	8-22	-	-	-
65	2 1/2"	241	241	64	190	149	105	26	1.6	8-22	-	-	-
80	3"	283	283	76	210	168.5	127	29	1.6	8-22	-	-	-
100	4"	305	305	102	254	200	157	32	1.6	8-22	340	140	300
125	5"	318	381	127	279	235	186	35	1.6	8-22	370	170	300
150	6"	403	457	152	318	270	216	37	1.6	12-22	402	192	300
200	8"	502	521	203	381	330	270	41.5	1.6	12-25	498	246	300
250	10"	568	559	254	445	387.5	324	48	1.6	16-29	655	303	400
300	12"	648	635	305	521	451	381	51	1.6	16-32	658	348	400
350	14"	762	762	337	584	514.5	413	54	1.6	20-32	686	378	400
400	16"	838	838	387	648	571.5	470	58	1.6	12-35	880	429	600
450	18"	914	914	438	711	628.5	533	61	1.6	24-35	1050	518	750
500	20"	991	991	489	775	686	584	64	1.6	24-35	1110	540	750
600	24"	1143	1143	591	914	813	692	70	1.6	24-41	1400	650	750
650	26"	1245	1245	633	867	803.5	737	87	1.6	32-35.5	1500	750	750
700	28"	1346	1346	684	921	857	787	87	1.6	36-35.5	1600	800	750
750	30"	1397	1397	735	991	921	845	92	1.6	36-39	1720	860	750
800	32"	1524	1524	779	1054	978	902	102	1.6	32-42	1800	900	750
900	36"	1727	1727	874	1172	1089	1010	102	1.6	32-45	2200	1020	600

Q47F/Y/H型固定金属密封球阀
Fixed metal seal ball valve



Class 600 PN110 主要连接尺寸 Main connection dimensions

单位Unit:mm

DN	SIZE	L			d	D	D1	D2	b	f	Z-Φd	H	H1	W
		RF	RJ	对焊										
50	2"	292	295	292	51	165	127	92	26	6.4	8-19	240	94	300
65	2 1/2"	330	333	330	64	190	149	105	29	6.4	8-22	290	115	300
80	3"	356	359	356	76	210	168	127	32	6.4	8-22	340	136	300
100	4"	432	435	432	102	273	216	157	38	6.4	8-25	358	152	300
125	5"	508	511	508	127	330	266.5	186	45	6.4	8-29	400	180	300
150	6"	559	562	559	152	356	292	216	48	6.4	12-29	445	209	400
200	8"	660	664	660	203	419	349	270	56	6.4	12-32	498	263	400
250	10"	787	791	787	254	508	432	324	64	6.4	16-35	653	312	400
300	12"	838	840	838	305	559	489	381	67	6.4	20-35	665	354	500
350	14"	889	892	889	334	603	527	413	70	6.4	20-38	738	389	600
400	16"	991	994	991	385	686	603	470	77	6.4	20-41	920	440	750
450	18"	1092	1095	1092	436	743	654	533	83	6.4	20-44	1100	530	750
500	20"	1194	1200	1194	487	813	724	584	89	6.4	24-44	1200	560	750
600	24"	1397	1407	1397	589	940	838	692	102	6.4	24-52	1480	670	750

球阀系列

BALL VALVE SERIES

锻钢球阀

Forged steel ball valve

结构特点及用途

- 1、抗硫化应力裂化：阀门接触介质的材料都是按美国腐蚀工程师协会 NACE0 1-75 的标准进行选择，且按标准进行表面镀镍，能满足硫化环境工况的要求。
- 2、用聚合物或金属作密封材料，在高温、高压工况具有优良的密封性能。
- 3、设置填料箱，防止阀门内腔压力异常升高而使阀杆飞出，增置倒密封结构，能确保填料可靠密封。
- 4、广泛适用于化工、炼油、油气、天然气、钢铁等介质管路。

Unique feature and use

- 1、Anti-curing stress cracking: The valve contact medium's material is corrodes Engineer according to the US the association NACE0 1-75 standards to carry on the choice, and carries on the superficial nickel plating according to the standard, can satisfy the curing environment operating mode the request.
- 2、Make the packing material with the polymer or the metal, in the high temperature, the high-pressured operating mode has the fine sealing property.
- 3、The establishment stuffing box, prevents the valve cavity pressure anolmaly to elevate causes the valve lever to depart, increasess ets seals the structure but actually, can guarantee that the padding seals reliably.
- 4、Widely is suitable for medium pipelines and so on chemical industry, refinery, oil gas, natural gas, steel and iron.

性能规范 Performance Specifications

试验压力 Test pressure

单位 Unit : MPa

公称压力 PN	常温最大工作压力 Max temperature Working pressure	壳体试验压力 Case Test pressure	气密封试验压力 Gas Seals test pressure	高压密封试验压力 High-pressure sealing test pressure
1.6	1.6	2.4	0.6	1.76
2.5	2.5	3.8	0.6	2.75
4.0	4.0	6.0	0.6	4.4
6.4	6.4	9.6	0.6	7.1
10.0	10.0	15.0	0.6	11.0
16.0	16.0	24.0	0.6	17.6
20.0	20.0	30.0	0.6	22.0
25.0	25.0	37.5	0.6	27.5
Class 150	2.0	3.0	0.6	2.2
Class 300	5.0	7.5	0.6	5.5
Class 600	10.0	15.0	0.6	11.0
Class 900	15.0	22.5	0.6	16.5
Class 1500	25.0	37.5	0.6	27.5

执行标准 Implementation of standards

- 1、设计和制造 Design and manufacture :
GB/T 12237; API 608
- 2、检验和试验 Inspection and test :
GB/T 13927; API 598
- 3、法兰连接 Flange connection :
JB/T 79.1-4; ASME/ANSI B 16.5
- 4、结构长度 Structure length :
GB/T 12221; GB/T 15188.1
ASME/ANSI B 16.10

使用范围 Terms of use

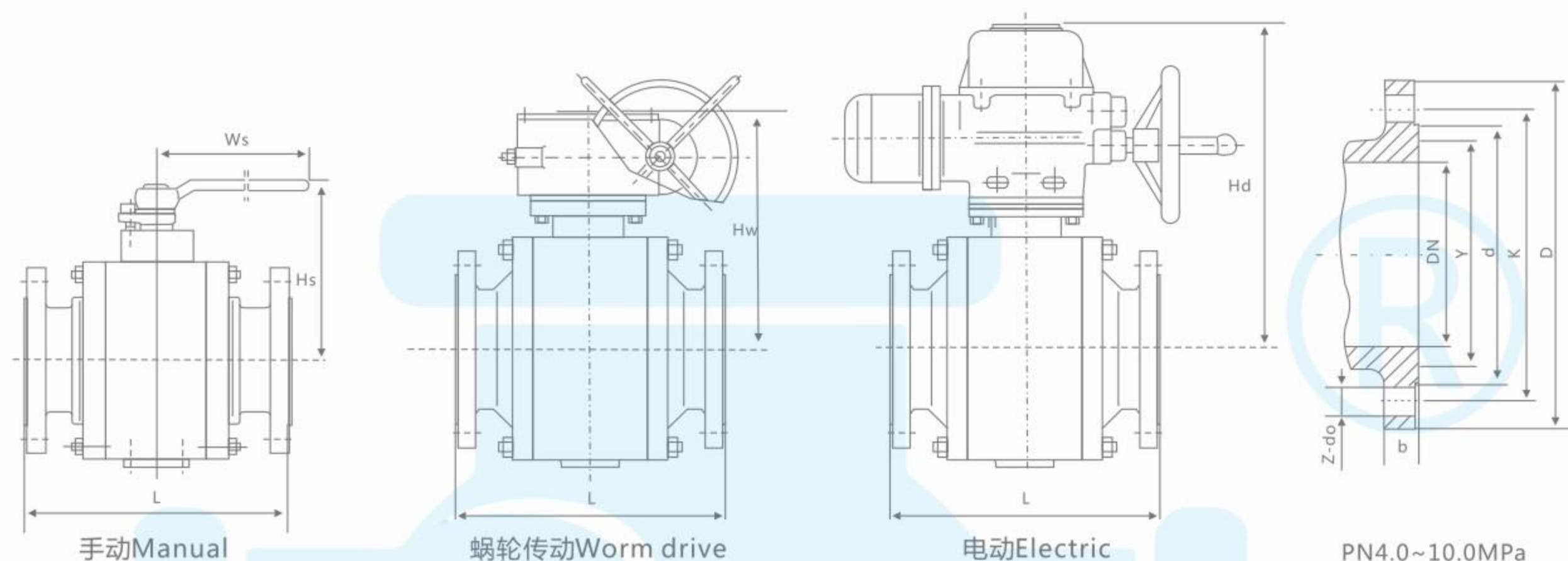
壳体材料 Shell material	阀座材料 Seat Material	适用温度 Applicable medium	适用介质 Applicable temperature
碳钢 C 型 Carbon Steel C	PTFE PTFE	≤150℃	水、蒸汽、油品等 Water, steam, oil, etc.
	不锈钢 Stainless steel	≤425℃	
铬镍钛钢 P 型 Chrome P-type nickel-titanium steel	PTFE PTFE	≤150℃	硝酸类 Nitric acid
	不锈钢 Stainless steel	≤200℃	
铬镍钼钛钢 R 型 Chrome-nickel steel R-Mo Ti	PTFE PTFE	≤150℃	醋酸类 Acetic acid
	不锈钢 Stainless steel	≤200℃	
铬钼钒钢 I 型 Cr-Mo steel I-V	硬质合金 Hard alloy	≤550℃	蒸汽、冶炼、能源等 Steam, metallurgical, energy, etc.

主要零件材料 Main components material

阀体、阀盖、填料箱 Body, bonnet Packing Box	GB	25	1Cr18Ni9Ti	0Cr18Ni12Mo2Ti	15Cr1Mo1V
	ASTM	1025	304	316	F22a
球体 Ball	GB	2Cr13/表面处理 Special surface treatment	1Cr18Ni9Ti/表面处理 Special surface treatment	0Cr18Ni12Mo2Ti/表面处理 Special surface treatment	25Cr2Mo1V/表面处理 Special surface treatment
	ASTM	420	304+HF	316+HF	F22a+HF
阀杆、固定轴 Stem, fixed axis	GB	2Cr13	0Cr18Ni9	0Cr17Ni12Mo2	25Cr2Mo1V
	ASTM	420	304	316	F22a
阀座 Seat	GB	PTFE 2Cr13	PTFE 0Cr18Ni9	PTFE 0Cr17Ni12Mo2	25Cr2Mo1V
	ASTM	PTFE 420	PTFE 304	PTFE 316	F22a
填料 Packing	GB	PTFE 柔性石墨 Flexible Graphite	PTFE 柔性石墨 Flexible Graphite	PTFE 柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite
	ASTM	PTFE 柔性石墨 Flexible Graphite	PTFE 柔性石墨 Flexible Graphite	PTFE 柔性石墨 Flexible Graphite	柔性石墨 Flexible Graphite
螺栓 Bolt	GB	35	0Cr18Ni9	0Cr18Ni9	15Cr1Mo1V
	ASTM	A193 B7	A320-B8	A320-B8	A193 B16
螺母 Nut	GB	45	1Cr13	1Cr13	20CrMo
	ASTM	A194 2H	A194-8	A194-8	A194-4

锻钢球阀

Forged steel ball valve



PN16 主要连接尺寸 Main connection dimensions

HG/T 20592
单位Unit:mm

DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd
40	165	145	110	85	-	16	4-18	230	135	-	-
50	203	160	125	100	-	16	4-18	260	150	-	-
65	222	180	145	120	-	18	4-18	350	180	-	-
80	241	195	160	135	-	20	8-18	500	195	-	-
100	305	215	180	155	-	20	8-18	650	245	310	420
125	356	245	210	185	-	22	8-18	800	270	330	440
150	394	280	240	210	-	24	8-23	1000	295	390	470
200	457	335	295	265	-	26	12-23	-	-	440	510
250	533	405	355	320	-	30	12-25	-	-	490	560
300	610	460	410	375	-	30	12-25	-	-	530	600
350	686	520	470	435	-	34	16-25	-	-	620	670
400	762	580	525	485	-	36	16-30	-	-	675	720
450	864	640	585	545	-	40	20-30	-	-	740	790
500	914	705	650	608	-	44	20-34	-	-	825	870
600	1067	840	770	718	-	48	20-41	-	-	920	960

PN25 主要连接尺寸 Main connection dimensions

单位Unit:mm

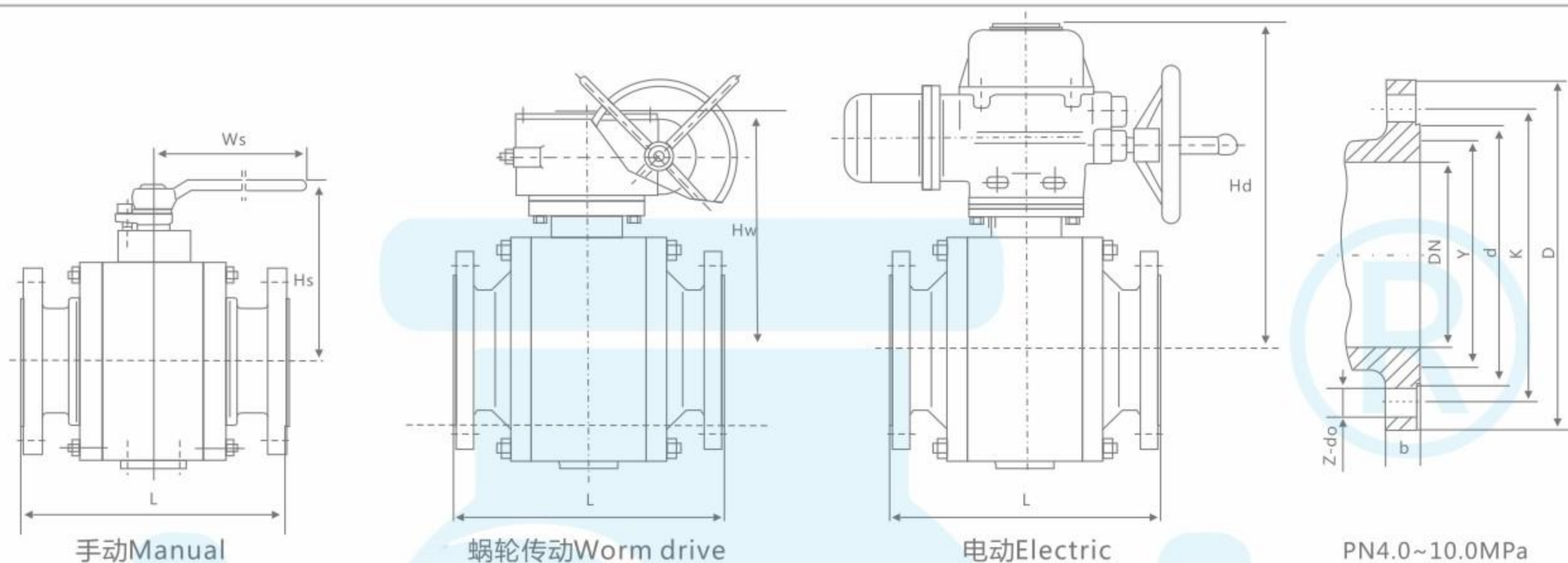
40	190	145	110	85	-	18	4-18	230	135	-	-
50	216	160	125	100	-	20	4-18	260	150	-	-
65	241	180	145	120	-	22	8-18	350	180	-	-
80	283	195	160	135	-	22	8-18	500	195	-	-
100	305	230	190	160	-	24	8-23	650	245	310	420
125	381	270	220	188	-	28	8-25	800	270	330	440
150	403	300	250	218	-	30	8-25	1000	295	390	470
200	502	360	310	278	-	34	12-25	-	-	440	510
250	568	425	370	332	-	36	12-30	-	-	490	560
300	648	485	430	390	-	40	16-30	-	-	530	600
350	762	550	490	448	-	44	16-34	-	-	620	670
400	838	610	550	505	-	48	16-34	-	-	675	720
450	914	660	600	555	-	50	20-34	-	-	740	790
500	991	730	660	610	-	52	20-41	-	-	825	870
600	1143	840	770	718	-	56	20-41	-	-	920	960

球阀系列

BALL VALVE SERIES

锻钢球阀

Forged steel ball valve



PN40 主要连接尺寸 Main connection dimensions

HG/T 20592
单位Unit:mm

DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd
40	190	145	110	85	76	18	4-18	230	135	-	-
50	216	160	125	100	88	20	4-18	260	150	-	-
65	241	180	145	120	110	22	8-18	350	180	-	-
80	283	195	160	135	121	22	8-18	500	195	-	-
100	305	230	190	160	150	24	8-23	800	250	320	430
125	381	270	220	188	176	28	8-25	1000	280	340	450
150	403	300	250	218	204	30	8-25	1200	300	405	480
200	502	375	320	282	260	38	12-30	-	-	450	530
250	568	445	385	345	313	42	12-34	-	-	505	590
300	648	510	450	408	364	46	16-34	-	-	545	620
350	762	570	510	465	422	52	16-34	-	-	640	690
400	838	655	585	535	474	58	16-41	-	-	690	740
450	914	680	610	560	524	60	20-41	-	-	760	810
500	991	755	670	612	576	62	20-48	-	-	850	900

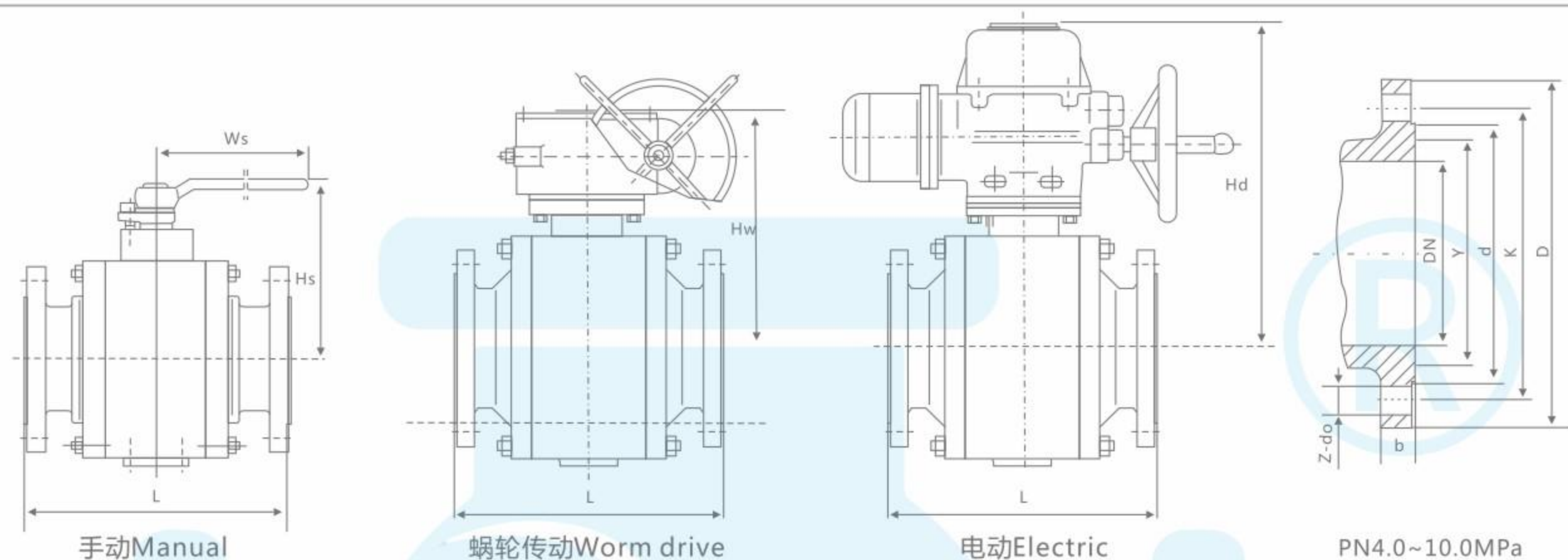
PN63 主要连接尺寸 Main connection dimensions

单位Unit:mm

DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd
40	241	165	125	95	76	24	4-23	260	140	-	-
50	292	175	135	105	88	26	4-23	260	160	-	-
65	330	200	160	130	110	28	8-23	350	180	-	-
80	356	210	170	140	121	30	8-23	500	220	-	-
100	406	250	200	168	150	32	8-25	800	250	320	430
125	400	295	240	202	176	36	8-30	1000	295	340	450
150	495	340	280	240	204	38	8-34	1200	340	405	480
200	597	405	345	300	260	44	12-34	-	-	450	530
250	673	470	400	352	313	48	12-41	-	-	505	590
300	762	530	460	412	364	54	16-41	-	-	545	620
350	826	595	525	475	422	60	16-41	-	-	640	690
400	902	670	585	525	474	66	16-48	-	-	690	740
500	1054	800	705	640	576	70	20-54	-	-	760	810

锻钢球阀

Forged steel ball valve



PN10 主要连接尺寸 Main connection dimensions

DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd
40	241	165	125	95	76	26	4-23	260	160	-	-
50	292	195	145	112	88	28	4-25	350	180	-	-
65	330	220	170	138	110	32	8-25	500	200	-	-
80	356	230	180	148	121	34	8-25	800	240	310	410
100	432	265	210	172	150	38	8-30	1000	270	340	450
125	508	310	250	210	176	42	8-34	1200	320	360	505
150	559	350	290	250	204	46	12-34	-	-	425	555
200	660	430	360	312	260	54	12-41	-	-	470	625
250	787	500	430	382	313	60	12-41	-	-	525	645
300	838	585	500	442	364	70	16-48	-	-	565	715
350	889	665	560	498	422	76	16-54	-	-	670	770
400	991	715	620	558	474	80	16-54	-	-	720	840

PN16 主要连接尺寸 Main connection dimensions

DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd
40	305	175	125	92	76	32	4-27	350	160	-	-
50	368	215	165	132	88	36	8-25	500	180	-	-
65	419	245	190	152	110	44	8-30	800	200	-	-
80	381	260	205	168	121	46	8-30	1000	240	310	410
100	457	300	240	200	150	48	8-34	1200	270	340	450
125	559	355	285	238	176	60	8-41	-	-	360	505
150	610	390	318	270	204	66	12-41	-	-	425	560
200	737	480	400	345	260	78	12-48	-	-	530	630
250	838	580	485	425	313	88	12-54	-	-	570	720
300	965	665	570	510	364	100	16-54	-	-	680	780

PN20 主要连接尺寸 Main connection dimensions

DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd
40	305	170	124	90	56	34	4-27	500	180	-	-
50	368	210	160	128	70	40	8-25	650	200	-	-
65	419	260	203	165	97	48	8-30	800	220	-	-
80	470	290	230	190	116	54	8-34	1000	260	320	420
100	546	360	292	245	138	66	8-41	1200	290	360	470
125	673	385	318	270	170	76	12-41	-	-	380	530
150	705	440	360	305	190	82	12-48	-	-	440	580
200	832	535	440	380	245	92	12-54	-	-	550	650
250	991	670	572	508	319	110	16-58	-	-	590	740

PN25 主要连接尺寸 Main connection dimensions

DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd
40	305	180	124	92	68.28	32	4-29.5	500	180	-	-
50	368	215	165	124	95.25	38.5	8-26	650	200	-	-
65	419	245	190.5	137	107.95	41.5	8-29.5	800	220	-	-
80	470	265	203	168	136.52	48	8-32.5	1000	260	320	420
100	546	310	241.5	194	161.92	54	8-35.5	1200	290	360	470
125	673	375	292	229	193.68	73.5	8-42	-	-	380	530
150	705	395	317.5	248	211.12	83	12-39	-	-	440	580
200	832	485	393.5	318	269.88	92	12-45	-	-	550	650

球阀系列

BALL VALVE SERIES

国标浮动球阀
GB Floating ball valve

结构特点Structure characteristics

浮动软密封不锈钢球阀用于PN16~PN63的各种管路上，用于截断或接通管路中的介质，选用不同的材质，可分别适用于水、蒸汽、油品、液化气、天然气、煤气、醋酸、氧化性介质、尿素等多种介质。

a、在各种阀门中，球阀的流动阻力最小，全径球阀打开时，球体通道、阀体通道和连接管径相等并成一直径，介质几乎可以毫无损失的流过。

b、球阀旋转90°即可全关全开，启闭迅速。与相同规格的闸阀、截止阀比较，球阀体积小、重量轻、便于管道安装。

Soft floating seal stainless steel ball valve used for PN16 ~ PN63 various piping, used to truncate or on line in the medium, choose no material, can be respectively suitable for water, steam, oil, liquefied petroleum gas, natural gas, coal gas, acetic acid, oxidizing medium, urea, and other media.

A, in all kinds of valve, ball valve flow resistance of the smallest, full bore ball valve is opened, the sphere channels, the body and connected to equal diameter and diameter, flow medium can be almost no losses.

B, ball valve can be rotated 90° seated fully open, opening and closing fast. Compared with the same specifications of the gate valve, globe valve, ball valve, small volume, light weight, easy to pipeline installation.

标准与规范 Standards and norms

设计标准 Design standard	结构长度 Face to Face	法兰连接尺寸 Flange End	试验与检验 Test & Check	压力-温度 Pressure-Temp.
GB/T 12237 API6D	GB/T 12221	JB/T 79 HG20592	GB/T 26480	GB/T 12224 ASME B16.34

性能参数performance parameters

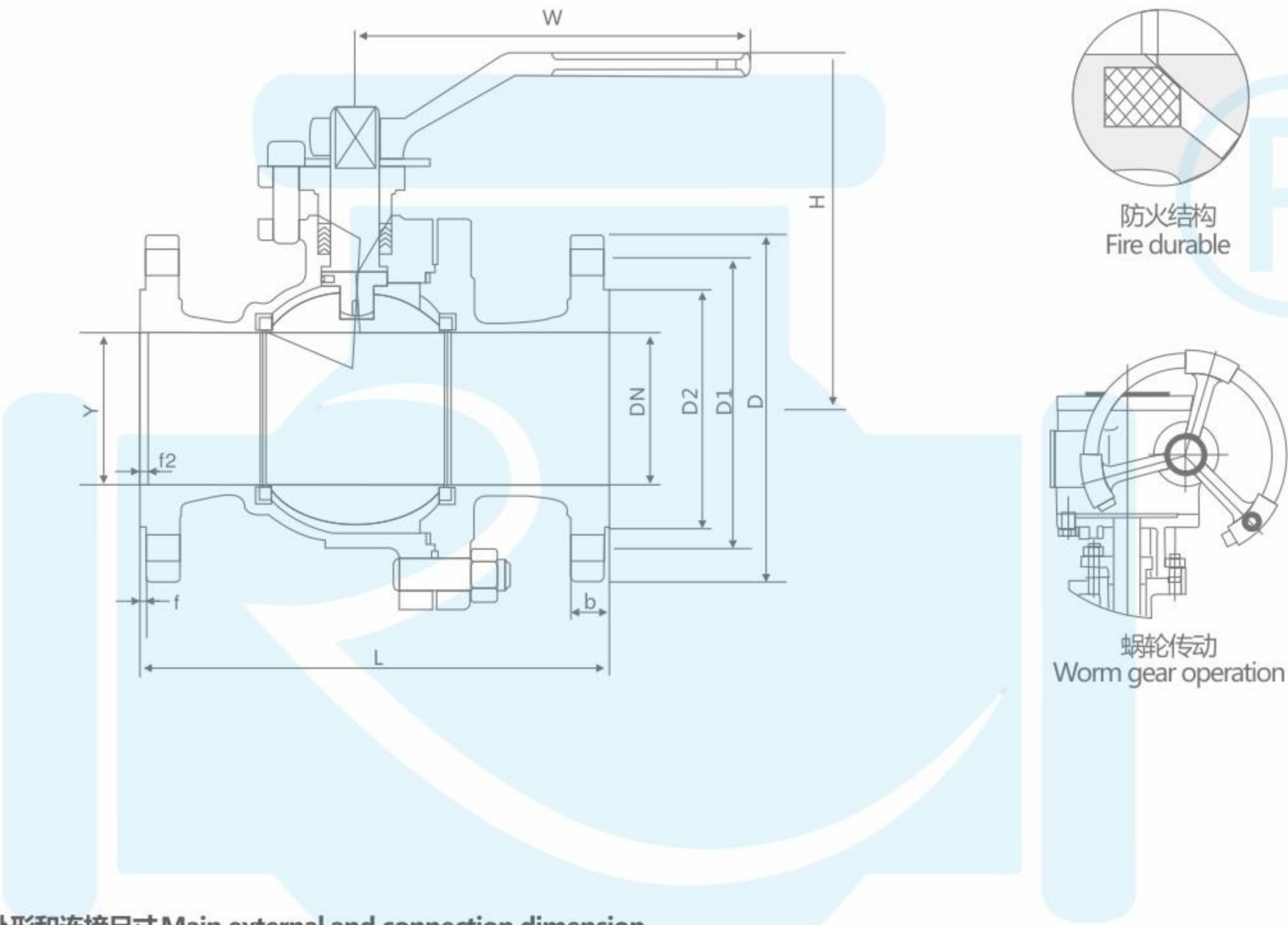
序号 NO.	项目名称 Project name	项目名称 Project name			
		PN16	PN25	PN40	PN64
1	公称压力 (MPa)	1.6	2.5	4.0	6.4
2	壳体强度试验压力 (MPa) Shell strength test pressure	常温下公称压力的1.5倍 1.5 Times the nominal pressure at room temperature			
3	高压密封试验压力 (MPa) High pressure seal test pressure	常温下公称压力的1.1倍 1.1 Times the nominal pressure at room temperature			
4	常温下工作压力 (MPa) Operating pressure at room temperature	≤1.6	≤2.5	≤4.0	≤6.4

主要零件材料 Materials for Main Parts

名称 Name	材料 Material								
阀体/阀盖 Body/Bonnet	CF8	CF3	CF8M	CF3M	WCB	LCB	WC6	WC9	C5
球体 Ball	CF8	CF3	CF8M	CF3M	WCB Hcr	CF8	CF8	CF8	CF8
阀杆 Stem	F304	F304L	F316	F316L	2CR13	F304	F304	F304	F304
阀座 Seat	PTFE/PPL/304								
填料/垫片 Packing/Gasket	PTFF					石墨 Graphite			
螺栓 Bolt	不锈钢 Stainless Steel					35CrMoA			
螺母 Nut	不锈钢 Stainless Steel					45、35CrMoA			
手柄 Handle	铸钢 Cast Steel								

国标浮动球阀
GB Floating ball valve

Q41/641/941F-16C/P/R/RL



PN16 主要外形和连接尺寸 Main external and connection dimension

HG/T 20592
单位Unit:mm

DN	L	D	D1	D2	b	f	Z-Φd	H	W	N.m
15	130	95	65	45	16	2	4-Φ14	78	140	6
20	140/130	105	75	55	18	2	4-Φ14	84	160	9
25	150/140	115	85	65	18	2	4-Φ14	95	180	14
32	165	140	100	78	18	2	4-Φ18	150	250	22
40	180/165	150	110	85	18	2	4-Φ18	150	300	32
50	200/203	165	125	100	18	2	4-Φ18	170	350	40
65	220/222	185	145	120	18	2	8-Φ18	195	350	60
80	250/241	200	160	135	20	2	8-Φ18	215	400	90
100	280/305	220	180	155	20	2	8-Φ18	250	500	130
125	320/356	250	210	185	22	3	8-Φ18	265	600	250
150	360/394	285	240	210	22	3	8-Φ22	270	800	490
200	400/457	340	295	265	24	3	12-Φ22	330	800	860
250	533	405	355	320	26	3	12-Φ26	450	1300	-

球阀系列

BALL VALVE SERIES

国标浮动球阀 GB Floating ball valve

Q41/341/641/941P-25~64/

HG/T 20592

PN25 主要外形和连接尺寸 Main external and connection dimension

单位Unit:mm

DN	L	D	D1	D2	b	Y	f2	Z-Φd	H	W	N.m
15	130	95	65	45	16	-	-	4-Φ14	103	100	8
20	140	105	75	55	18	-	-	4-Φ14	112	160	12
25	150	115	85	65	18	-	-	4-Φ14	123	160	18
32	165	140	100	78	18	-	-	4-Φ18	150	250	28
40	180	150	110	85	18	-	-	4-Φ18	156	250	40
50	200	165	125	100	20	-	-	4-Φ18	172	350	55
65	220	185	145	120	22	-	-	8-Φ18	197	350	85
80	250	200	160	135	24	-	-	8-Φ18	222	450	130
100	280	235	190	160	24	-	-	8-Φ22	253	450	190
125	320	270	220	188	26	-	-	8-Φ26	275	600	320
150	360	300	250	218	28	-	-	8-Φ26	286	800	620
200	400	360	310	278	30	-	-	12-Φ26	340	1200	1100
250	533	425	370	332	32	-	-	12-Φ30	470	1400	-

PN40 主要外形和连接尺寸 Main external and connection dimension

单位Unit:mm

DN	L	D	D1	D2	b	Y	f2	Z-Φd	H	W	N.m
15	130	95	65	45	16	40	4	4-Φ14	103	100	10
20	140	105	75	55	18	51	4	4-Φ14	112	160	15
25	150	115	85	65	18	58	4	4-Φ14	123	160	23
32	180	140	100	78	18	66	4	4-Φ18	150	250	32
40	200	150	110	85	18	76	4	4-Φ18	156	250	45
50	220	165	125	100	20	88	4	4-Φ18	172	350	65
65	250	185	145	120	22	110	4	8-Φ18	197	350	95
80	280	200	160	135	24	121	4	8-Φ18	222	450	150
100	320	235	190	160	24	150	4.5	8-Φ22	253	450	260
125	400	270	220	188	26	176	4.5	8-Φ26	275	600	550
150	400	300	250	218	28	204	4.5	8-Φ26	286	800	900
200	550	375	320	282	34	260	4.5	12-Φ30	340	1200	1800
250	568	450	385	345	38	313	4.5	12-Φ33	470	1400	-

PN63 主要外形和连接尺寸 Main external and connection dimension

单位Unit:mm

DN	L	D	D1	D2	b	Y	f2	Z-Φd	H	W	N.m
15	140	105	75	55	20	40	4	4-Φ14	105	130	15
20	155	130	90	68	22	51	4	4-Φ18	125	130	20
25	180	140	100	78	24	58	4	4-Φ18	135	160	35
32	200	155	110	82	26	66	4	4-Φ22	150	160	50
40	220	170	125	95	28	76	4	4-Φ22	165	230	70
50	250	180	135	105	26	88	4	4-Φ22	175	230	85
65	280	205	160	130	26	110	4	8-Φ22	200	400	130
80	320	215	170	140	28	121	4	8-Φ22	210	400	200
100	350	250	200	168	30	150	4.5	8-Φ26	250	700	340
125	455	295	240	202	34	176	4.5	8-Φ30	295	1100	-
150	495	345	280	240	36	204	4.5	8-Φ33	340	1500	-