



01

RUITONG
VALVE

BALL VALVE SERIES

API FLANGED FLOATING BALL VALVE

Design

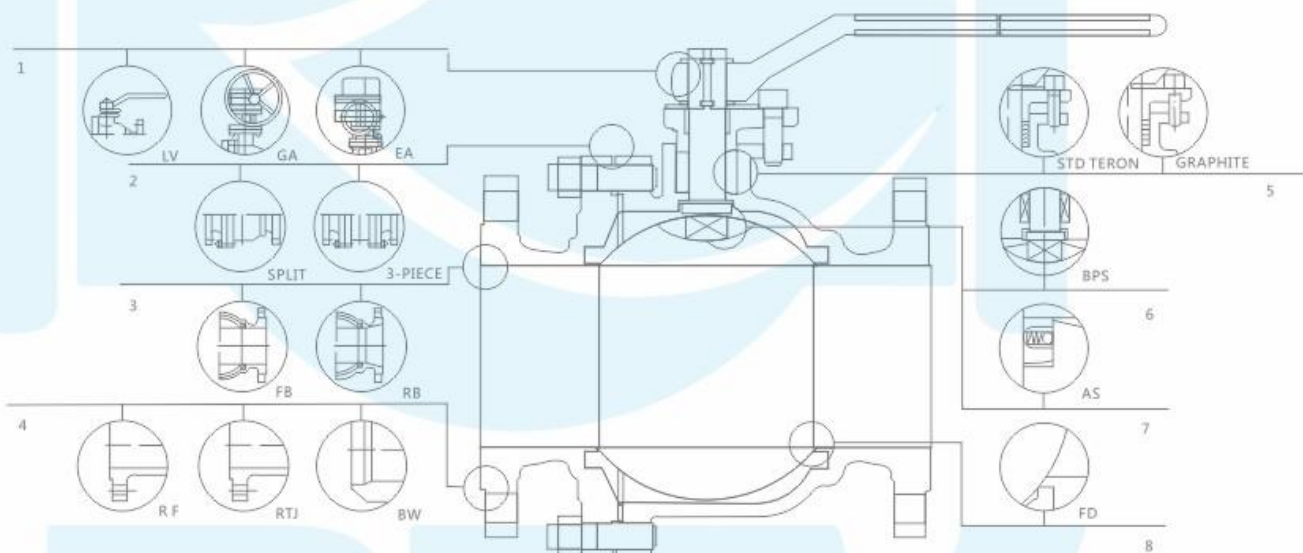
ball valve are designed and manufactured to provide maximum service life and dependability. All ball valves are full ported and meet the design requirements of API Standard API 600&API 6D, British Standard BS 5351 and generally conform to American Society of Mechanical Engineers Standard ASME B 16.34.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

Range of Materials

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.

Available Modifications For Trademark Cast Steel Valves

- * Trim changes
- * End connection Modifications
- * Packing and Gasket Changes
- * Operator Mounting
- * Handwheel Extensions
- * Pressure Equalizing
- * AS or FD
- * Customer specified Coatings
- * Weld End Bore Changes
- * Oxygen & Chlorine Cleaning & Packaging



1. Operating

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

3. BORE

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

5. Packing

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.

7. AS

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

2. BODY&BONNET

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

4. End Connections

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

6. BPS

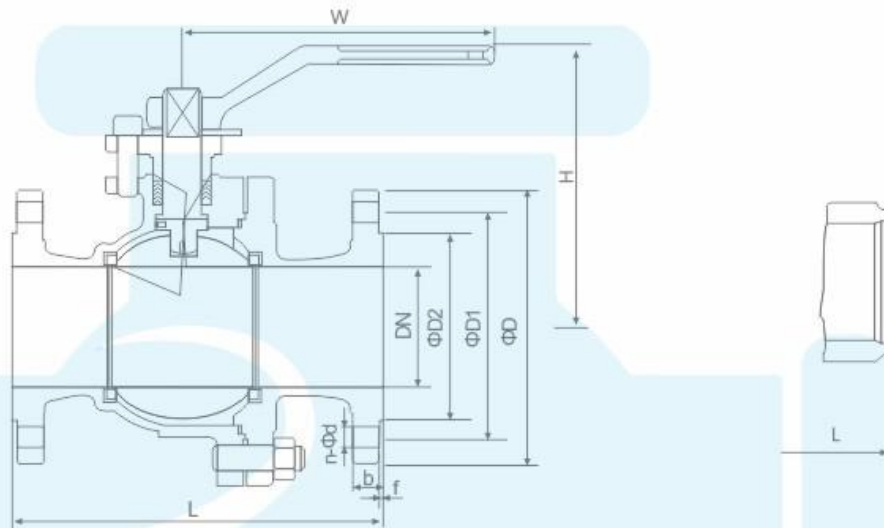
To prevent stem shedding, a pressure-safe stem design should be designed with a trip-proof design that does not fly out under normal pressure

8. FD

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

API FLANGED FLOATING BALL VALVE

Q41F-150Lb



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
BUTT WELDING ENDS , ASM B 16.25
INSPECTION AND TEST , API 598/API 6D

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

Materials of parts

NO	Part Name	ASTM Material		
		Carbon Steel	CF8M	CF8
1	Body	A216-WCB	A351-CF8M	CF8
2	Bonnet	A216-WCB	A351-CF8M	CF8
3	Ball	A182-F3041)	A182-F316	F304
4	Stem	A276-304	A276-316	F304
5	Seat seat		RPTFE	
6	Gasket	Graphite+3042)	PTFE	PTFE
7	Valve cover bolt	A193-B7	A193-B8M	A193-B8M
8	Valve cover nut	A194-2H	A194-8M	A194-8M
9	Packing		PTFE	PTFE
10	Packing press plate	A216-WCB	CF8	CF8
11	Packing bolt	A193-B7	A193-B8M	A193-B8M
12	Positioning sheet	Carbon Steel	F304	F304
13	Handle		Carbon Steel	

Note:1).A105+ENP optional

2).Spiral wound construction.

API FLANGED FLOATING BALL VALVE

Class 150LB Main connection dimensions

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 Main connection dimensions

Unit:mm

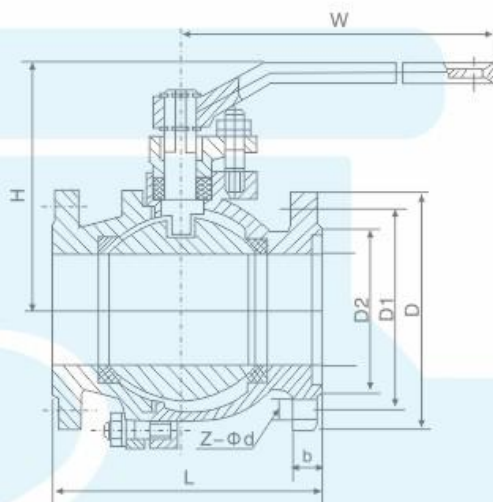
DN	SIZE	L	D	D1	D2	b	f	n-Φd	H	W0
15	1/2"	140	95	66.7	34.9	14.7	2	4-16	59	130
20	3/4"	152	115	82.6	42.9	16.3	2	4-19	63	130
25	1"	165	125	88.9	50.8	17.9	2	4-19	75	160
32	1-1/4"	178	135	98.4	63.5	19.5	2	4-19	75	160
40	1-1/2"	190	155	114.3	73	21.1	2	4-22	95	230
50	2"	216	165	127	92.1	22.7	2	8-19	107	230
65	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 Main connection dimensions

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	+

JIS BALL VALVE



Execution standard

Design standard	Face to Face	Flange End	Pressure-Temp.	Test & Check
BS 5351	JIS B2002	JIS B2212 B2214	JIS B2201	JIS B2003

10K Main connection dimensions

Unit:mm

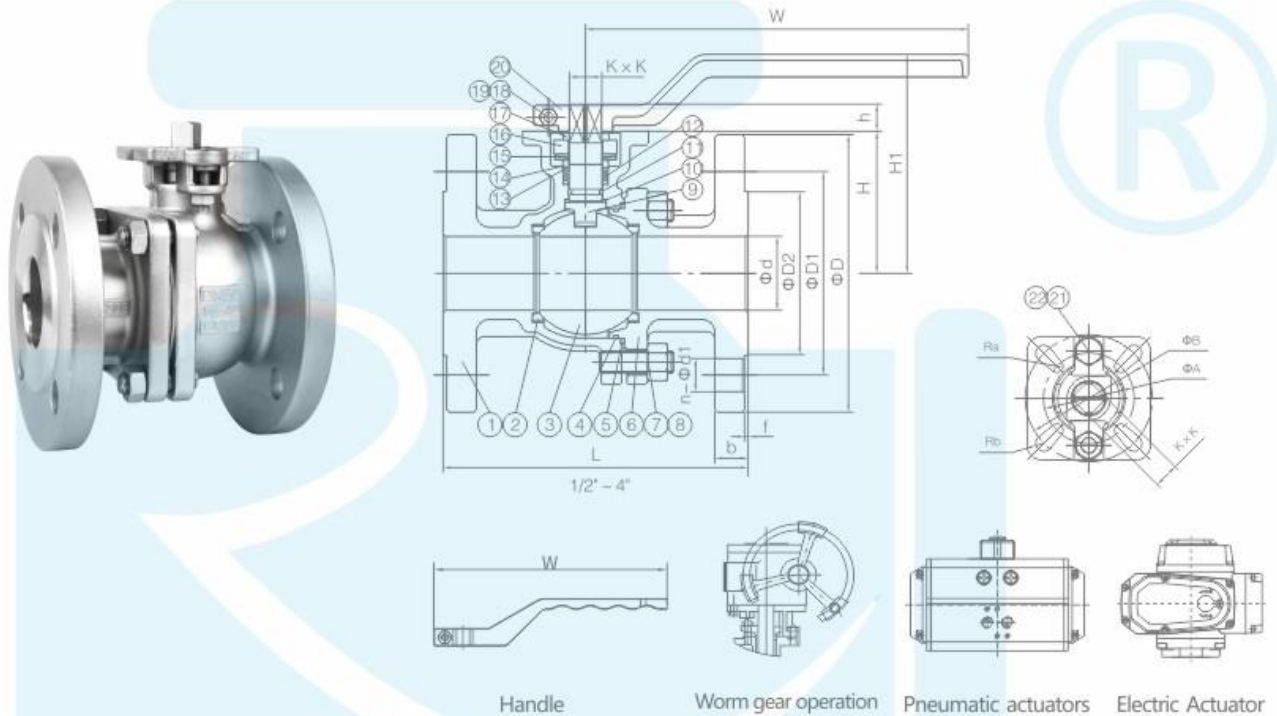
DN	SIZE	L	D	D1	D2	b	n-Φd
15	1/2"	108	95	70	52	12	4-15
20	3/4"	117	100	75	58	14	4-15
25	1"	127	125	90	70	14	4-19
32	1-1/4"	140	135	100	80	16	4-19
40	1-1/2"	165	140	105	85	16	4-19
50	2"	178	155	120	100	16	4-19
65	2-1/2"	190	175	140	120	18	4-19
80	3"	203	185	150	130	18	8-19
100	4"	229	210	175	155	18	8-19
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 Main connection dimensions

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

2-PC BALL VALVE FLANGE END DIN DIRECT MOUNTING PAD



Characteristic

Full port: 1/2" ~ 12" (DN15~DN300)
 Work pressure W P.: PN16/40
 Working temperature W T.: -20°C~180°C
 Precision Casting Investment Casting
 Design of valve stem explosion-proof device Blow out proof stem
 Anti static device (option)
 Locking device handle with lock handle
 ISO5211 Direct Mounting Pad Design
 Automation accessories (option)

Design: EN1983, EN12516-1
 Flange dimension: DIN 2543~2545, EN1092-1 PN16/40
 Face to face: DIN3202 part1-F4 (DN15~DN100),
 DIN3202 part1-F5 (DN125~DN300)
 Inspection & testing: DIN3230, EN12266-1

Material List

DN.	Part name	Material		
1	BODY	1.0619	1.4308	1.4408
2	SEAT	PTFE		
3	BALL	1.4308	1.4308	1.4408
4	O-RING	FPM		
5	GASKET	PTFE		
6	BONNET	1.0619	1.4308	1.4408
7	BOLT	304		
8	NUT	304	304	
9	STEM		304	316
10	STEM WASHER	PTFE+25% GF		
11	O-RING	FPM		
12	PACKING	PTFE		
13	WEAR WASHER	PTFE+25% GF		
14	GLAND	304		
15	DISC SPRING	304		
16	GLAND FLANGE	CF8		
17	STOPPER	304		
18	HEX SOCKET BOLT	304		
19	NUT	304		
20	HANDLE	WCB/CF8		
21	BOLT	304		
22	NUT	304		

2-PC BALL VALVE FLANGE END DIN DIRECT MOUNTING PAD

PN16 Main connection dimensions

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 Main connection dimensions

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

FIXED BALL VALVE

Structural characteristics and uses

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. 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. 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. 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.

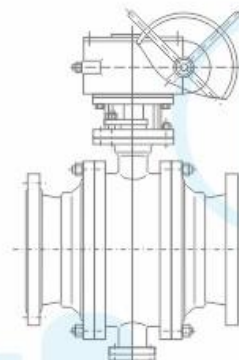
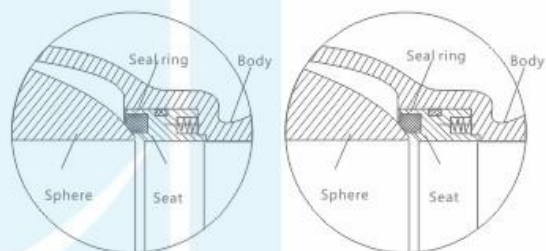


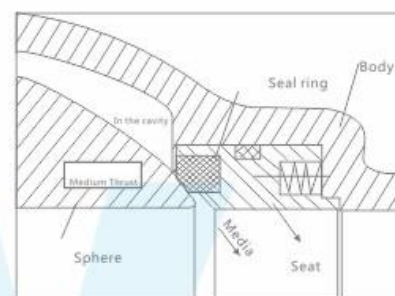
Figure 1



Usual seals when

Burning of soft seal when the seal

Figure 2



Automatic pressure relief feature

Figure 3

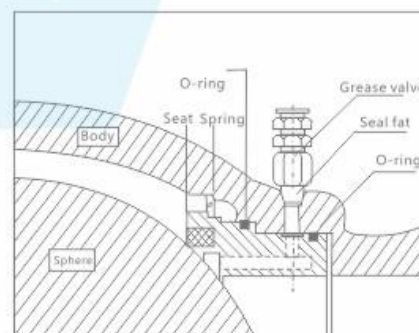


Figure 4

FIXED BALL VALVE

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. 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. 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.

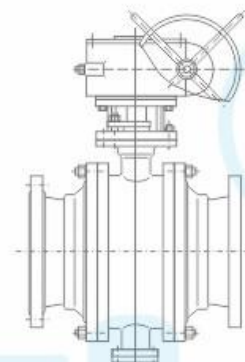
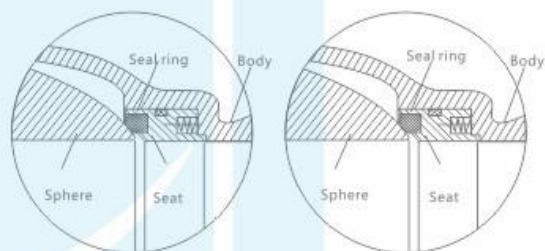


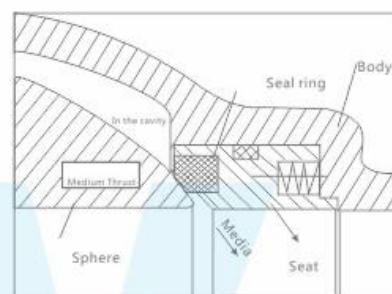
Figure 1



Usual seals when

Burning of soft seal when the seal

Figure 2



Automatic pressure relief feature

Figure 3

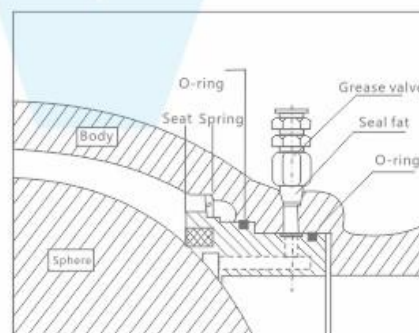


Figure 4

FIXED BALL VALVE

Implementation of standards

- 1、Design and manufacture : GB/T 12237;API 608
- 2、Inspection and test : GB/T 26480-2011;API 598
- 3、Flange connection : HG/T 20592-2009;ASME/ANSI B 16.5
- 4、Structure length : GB/T 12221-2005;ASME/ANSI B 16.10

Performance Specifications

Test pressure

Unit : MPa

PN	Max temperature Working pressure	Case Test pressure	Gas Seals test pressure	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

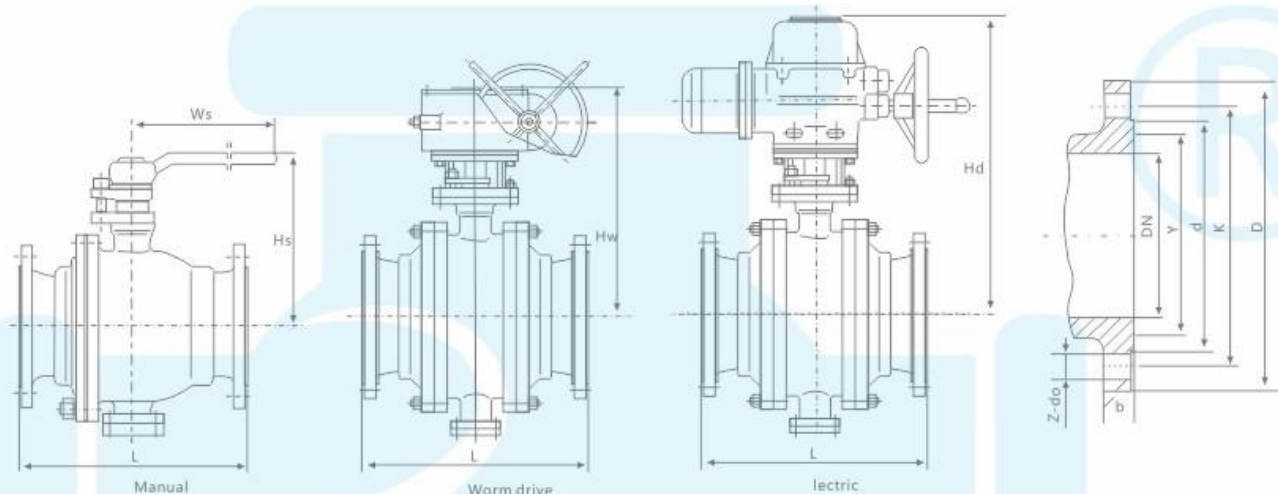
Terms of Use

Shell material	Seat material	Applicable temperature	Applicable media
Carbon Steel C	PTFE	≤150°C	Water,steam,oil,etc.
	Counterpoint polystyrene	≤250°C	
Chrome P-type nickel-titanium steel	PTFE	≤150°C	Nitric acid
	Counterpoint polystyrene	≤200°C	
Chrome-nickel steel R-Mo Ti	PTFE	≤150°C	Acetic acid
	Counterpoint polystyrene	≤200°C	

Main components material

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

FIXED METAL SEAL BALL VALVE



HG/T 20592
Unit:mm

PN16 Main external and connection dimension

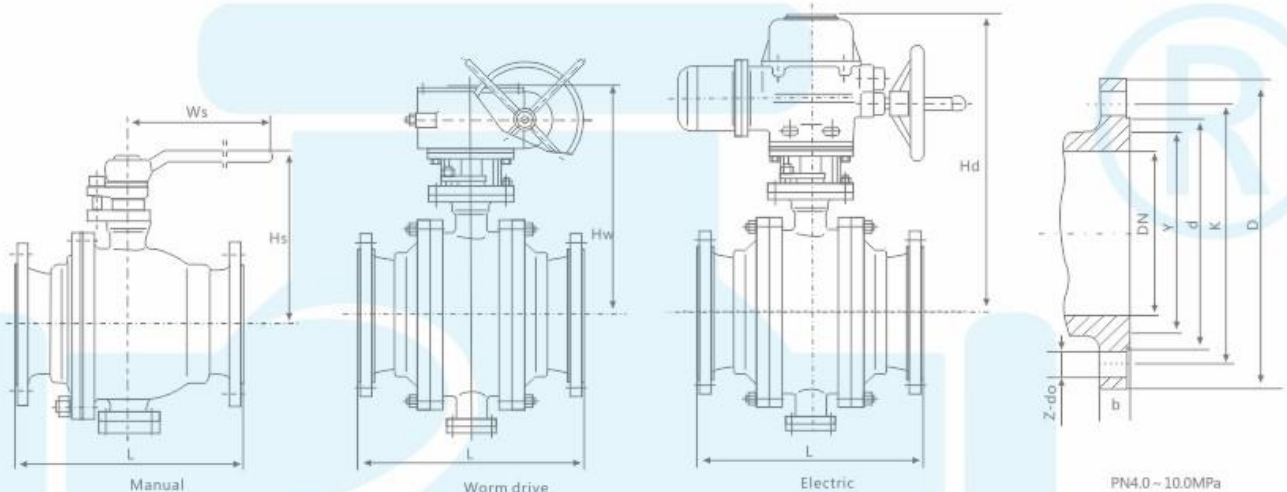
DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd	N.m
150	394	285	240	210	-	22	8-23	1000	305	470	540	300
200	457	340	295	265	-	24	12-23	-	-	520	580	450
250	533	405	355	320	-	26	12-25	-	-	610	640	750
300	610	460	410	375	-	28	12-25	-	-	650	690	1250
350	686	520	470	435	-	32	16-25	-	-	740	785	2000
400	762	580	525	485	-	36	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 Main external and connection dimension

Unit:mm

DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd	N.m
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	-

FIXED METAL SEAL BALL VALVE



HG/T 20592
Unit:mm

PN40 Main external and connection dimension

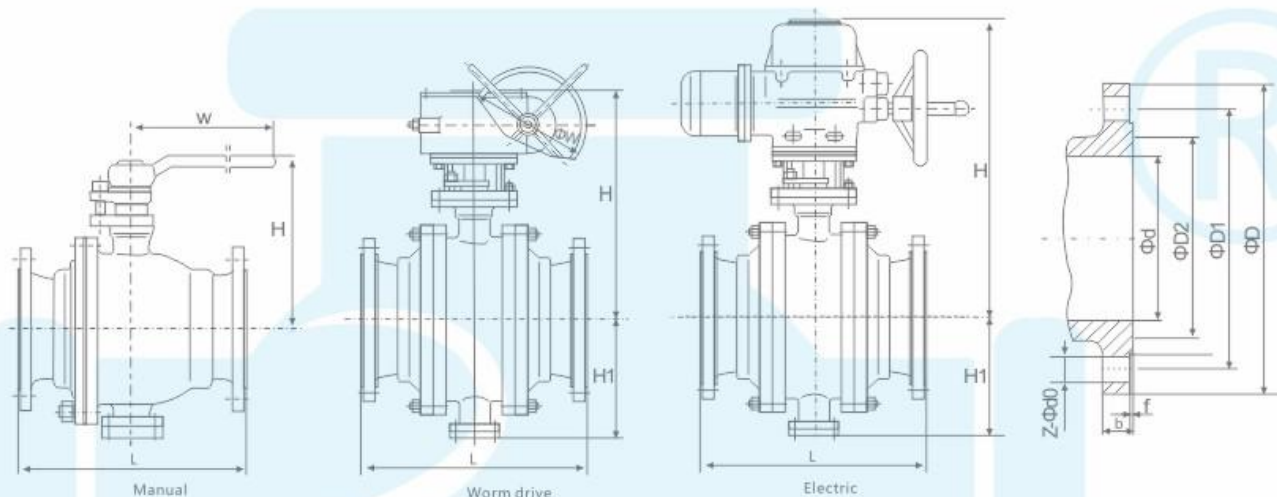
DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd	N.m
150	403	300	250	218	204	30	8-25	1200	360	485	590	450
200	502	375	320	282	260	38	12-30	-	-	580	640	750
250	568	445	385	345	313	42	12-34	-	-	665	680	1250
300	648	510	450	408	364	46	16-34	-	-	760	810	2100
350	762	570	510	465	422	52	16-34	-	-	820	890	2800
400	838	655	585	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 Main external and connection dimension

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	-

FIXED METAL SEAL BALL VALVE

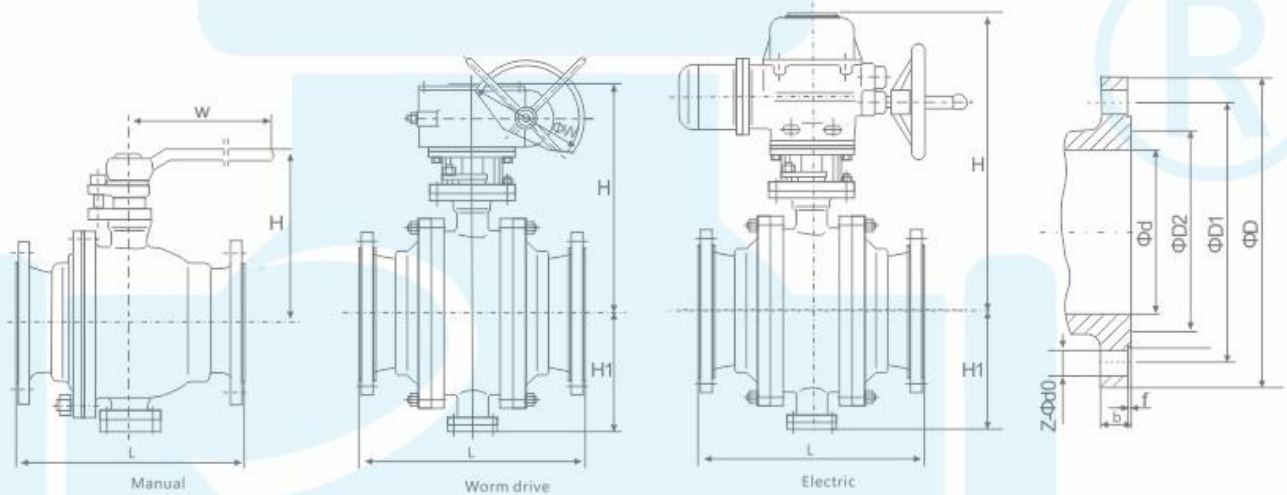


Class 150 PN20 Main connection dimensions

Unit:mm

DN	SIZE	L		d	D	D1	D2	b	f	Z-Φd	H	H1	W
		RF	Butt welding										
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

FIXED METAL SEAL BALL VALVE

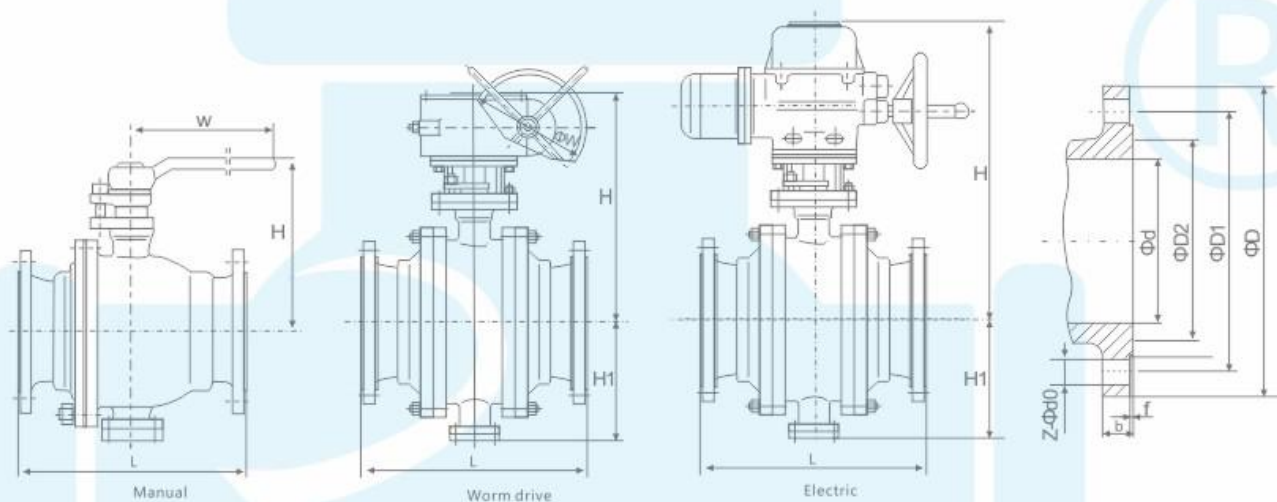


Class 300 PN150 Main connection dimensions

Unit:mm

DN	SIZE	L		d	D	D1	D2	b	f	Z-Φd	H	H1	W
		RF	Butt welding										
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

FIXED METAL SEAL BALL VALVE



Class 600 PN110 Main connection dimensions

Unit:mm

DN	SIZE	L			d	D	D1	D2	b	f	Z- Φd	H	H1	W
		RF	RJ	Butt welding										
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

FORGED STEEL BALL VALVE

Implementation of standards

- 1、Design and manufacture :
GB/T 12237;API 608
- 2、Inspection and test :
GB/T 13927;API 598
- 3、Flange connection :
JB/T 79.1-4;ASME/ANSI B 16.5
- 4、Structure length :
GB/T 12221;GB/T 15188.1
ASME/ANSI B 16.10

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 anomaly 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.

Performance Specifications

Test pressure

Unit : MPa

Terms of use

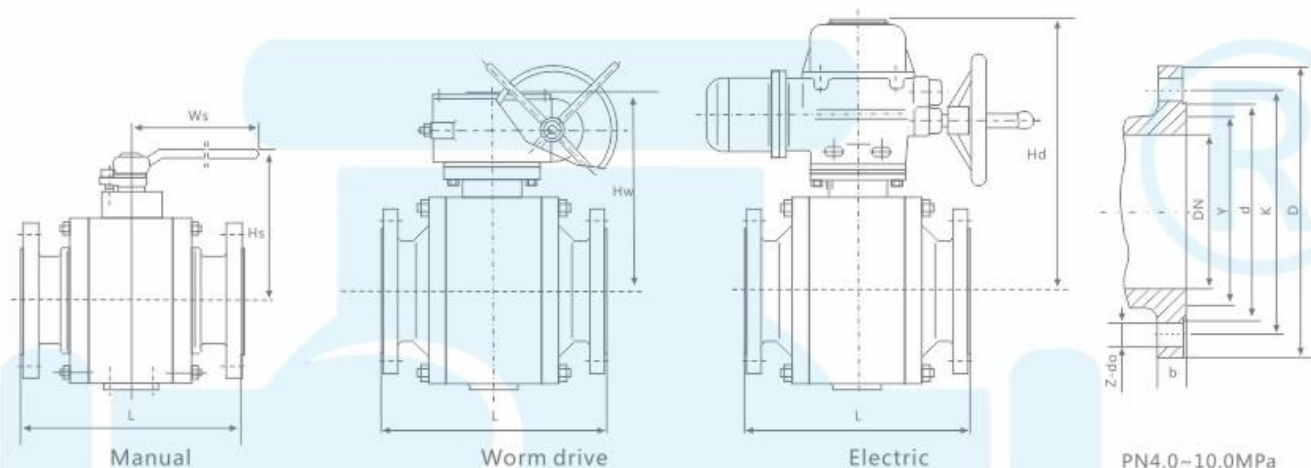
PN	Max temperature Working pressure	Case Test pressure	Gas Seals test pressure	High-pressure sealing test pressure
1.6	1.6	2.4	0.6	1.76
2.5	2.5	3.8	0.6	2.75
4.0	4.0	6.0	0.6	4.4
6.4	6.4	9.6	0.6	7.1
10.0	10.0	15.0	0.6	11.0
16.0	16.0	24.0	0.6	17.6
20.0	20.0	30.0	0.6	22.0
25.0	25.0	37.5	0.6	27.5
Class 150	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

Shell material	Seat Material	Applicable medium	Applicable temperature
Carbon Steel C	PTFE	≤150°C	Water, steam, oil, etc.
	Stainless steel	≤425°C	
Chrome P-type nickel-titanium steel	PTFE	≤150°C	Nitric acid
	Stainless steel	≤200°C	
Chrome-nickel steel R-Mo Ti	PTFE	≤150°C	Acetic acid
	Stainless steel	≤200°C	
Cr-Mo steel I-V	Hard alloy	≤550°C	Steam, metallurgical, energy, etc.

Main components material

Body, bonnet Packing Box	GB	25	1Cr18Ni9Ti	0Cr18Ni12Mo2Ti	15Cr1Mo1V
	ASTM	1025	304	316	F22a
Ball	GB	2Cr13 Special surface treatment	1Cr18Ni9Ti Special surface treatment	0Cr18Ni12Mo2Ti Special surface treatment	25Cr2Mo1V Special surface treatment
	ASTM	420	304+HF	316+HF	F22a+HF
Stem, fixed axis	GB	2Cr13	0Cr18Ni9	0Cr17Ni12Mo2	25Cr2Mo1V
	ASTM	420	304	316	F22a
Seat	GB	PTFE 2Cr13	PTFE 0Cr18Ni9	PTFE 0Cr17Ni12Mo2	25Cr2Mo1V
	ASTM	PTFE 420	PTFE 304	PTFE 316	F22a
Packing	GB	PTFE Flexible Graphite	PTFE Flexible Graphite	PTFE Flexible Graphite	Flexible Graphite
	ASTM	PTFE Flexible Graphite	PTFE Flexible Graphite	PTFE Flexible Graphite	Flexible Graphite
Bolt	GB	35	0Cr18Ni9	0Cr18Ni9	15Cr1Mo1V
	ASTM	A193 B7	A320-B8	A320-B8	A193 B16
Nut	GB	45	1Cr13	1Cr13	20CrMo
	ASTM	A194 2H	A194-8	A194-8	A194-4

FORGED STEEL BALL VALVE



PN16 Main connection dimensions

HG/T 20592
Unit:mm

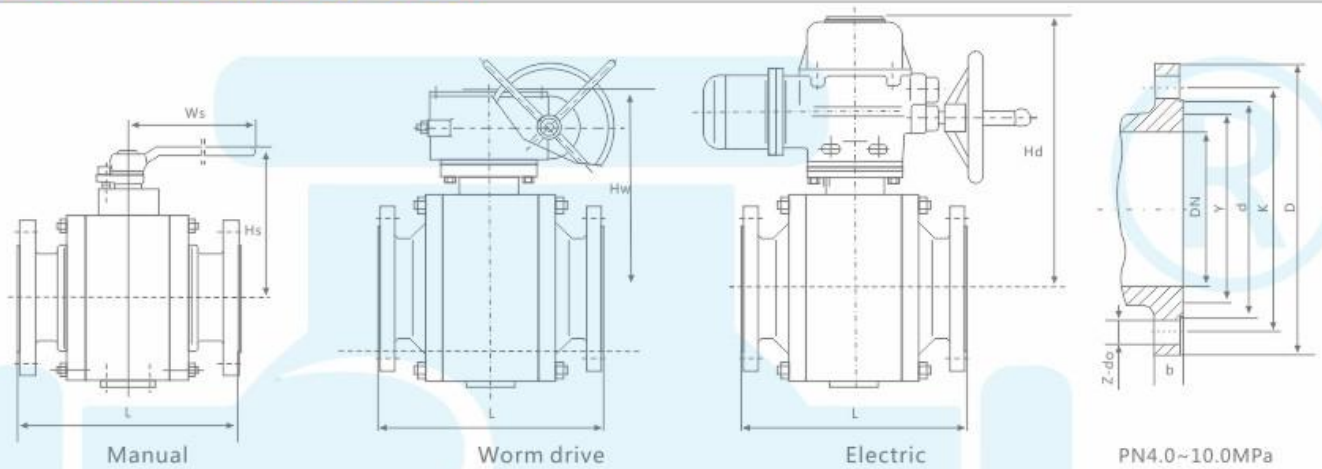
DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd
40	165	145	110	85	-	16	4-18	230	135	-	-
50	203	160	125	100	-	16	4-18	260	150	-	-
65	222	180	145	120	-	18	4-18	350	180	-	-
80	241	195	160	135	-	20	8-18	500	195	-	-
100	305	215	180	155	-	20	8-18	650	245	310	420
125	356	245	210	185	-	22	8-18	800	270	330	440
150	394	280	240	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 Main connection dimensions

Unit:mm

DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd
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

FORGED STEEL BALL VALVE


 HG/T 20592
Unit:mm

PN40 Main connection dimensions

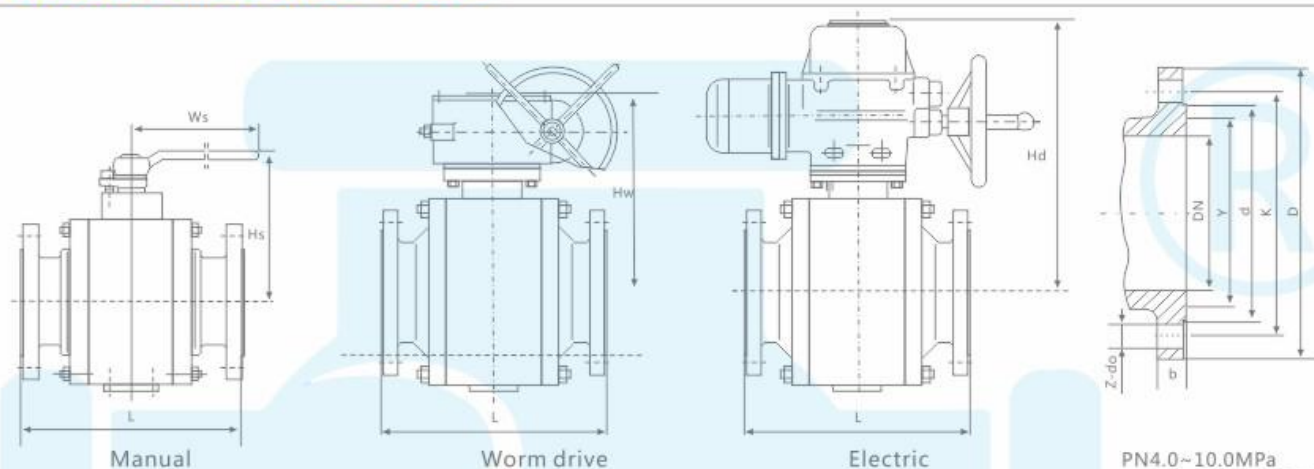
DN	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd
40	190	145	110	85	76	18	4-18	230	135	-	-
50	216	160	125	100	88	20	4-18	260	150	-	-
65	241	180	145	120	110	22	8-18	350	180	-	-
80	283	195	160	135	121	22	8-18	500	195	-	-
100	305	230	190	160	150	24	8-23	800	250	320	430
125	381	270	220	188	176	28	8-25	1000	280	340	450
150	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 Main connection dimensions

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

FORGED STEEL BALL VALVE



PN10 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 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 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 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

GB FLOATING BALL VALVE

Structure characteristics

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.

Standards and norms

Design standard	Face to Face	Flange End	Test & Check	Pressure-Temp.
GB/T 12237 API6D	GB/T 12221	JB/T 79 HG20592	GB/T 26480	GB/T 12224 ASME B16.34

performance parameters

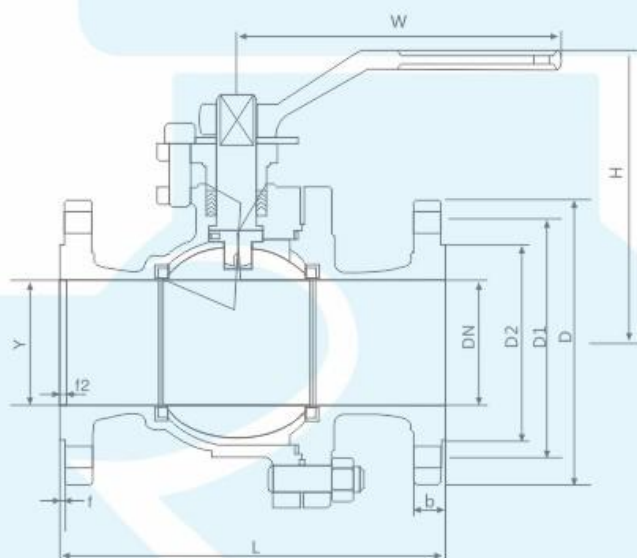
NO.	Project name	Project name			
		PN16	PN25	PN40	PN64
1	Nominal pressure (MPa)	1.6	2.5	4.0	6.4
2	(MPa) Shell strength test pressure	1.5 Times the nominal pressure at room temperature			
3	(MPa) High pressure seal test pressure	1.1 Times the nominal pressure at room temperature			
4	(MPa) Operating pressure at room temperature	≤1.6	≤2.5	≤4.0	≤6.4

Materials for Main Parts

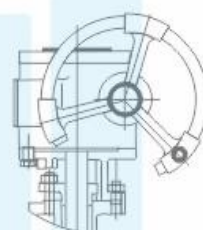
Name	Material									
Body/Bonnet	CF8	CF3	CF8M	CF3M	WCB	LCB	WC6	WC9	C5	
Ball	CF8	CF3	CF8M	CF3M	WCB Hcr	CF8	CF8	CF8	CF8	
Stem	F304	F304L	F316	F316L	2CR13	F304	F304	F304	F304	
Seat	PTFE/PPL/304									
Packing/Gasket	PTFF					Graphite				
Bolt	Stainless Steel					35CrMoA				
Nut	Stainless Steel					45、 35CrMoA				
Handle	Cast Steel									

GB FLOATING BALL VALVE

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



Fire durable



Worm gear operation

PN16 Main external and connection dimension

HG/T 20592
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	-

GB FLOATING BALL VALVE

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

HG/T 20592

PN25 Main external and connection dimension

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 Main external and connection dimension

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 Main external and connection dimension

Unit:mm

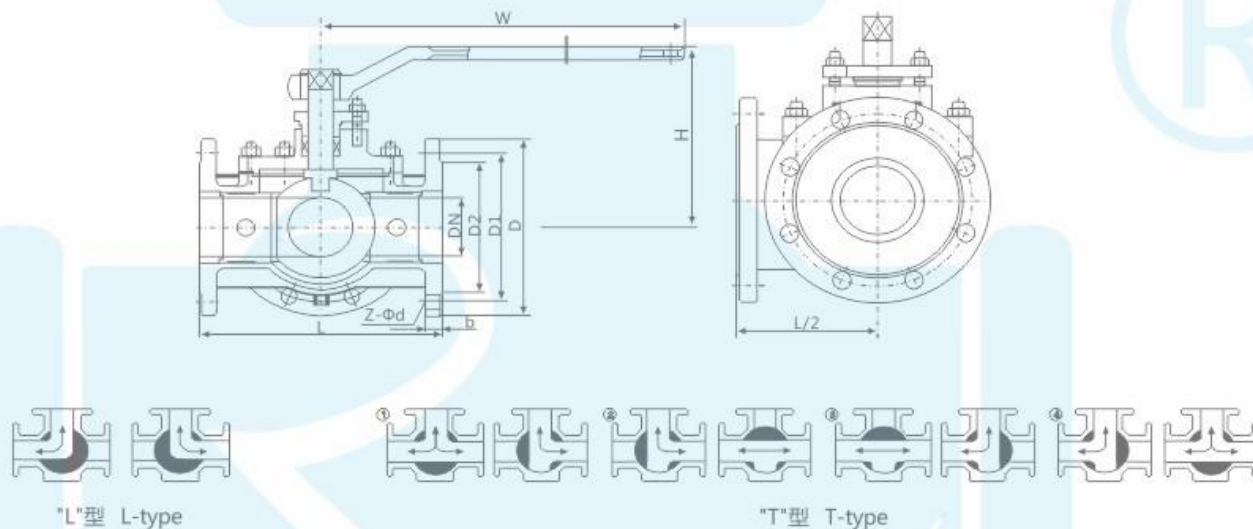
DN	L	D	D1	D2	b	Y	f2	Z-Φd	H	W	N.m
15	140	105	75	55	20	40	4	4-Φ14	105	130	15
20	155	130	90	68	22	51	4	4-Φ18	125	130	20
25	180	140	100	78	24	58	4	4-Φ18	135	160	35
32	200	155	110	82	26	66	4	4-Φ22	150	160	50
40	220	170	125	95	28	76	4	4-Φ22	165	230	70
50	250	180	135	105	26	88	4	4-Φ22	175	230	85
65	280	205	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	-

STAINLESS STEEL FLANGE THREE WAY BALL VALVE

Q44/644/944/45/645/945F-16C/P

BALL VALVE SERIES

RUITONG VALVE



PN16 Main external and connection dimension

HG/T 20592
Unit:mm

DN	L	D	D1	D2	b	Z-Φd	H	W
15	150	95	65	45	14	4-Φ14	95	140
20	160	105	75	55	14	4-Φ14	105	160
25	180	115	85	65	14	4-Φ14	113	180
32	200	135	100	78	16	4-Φ18	135	250
40	220	145	110	85	16	4-Φ18	142	300
50	240	160	125	100	16	4-Φ18	165	350
65	260	180	145	120	18	4-Φ18	175	350
80	280	195	160	135	20	8-Φ18	190	400
100	320	215	180	155	20	8-Φ18	225	500
125	380	245	210	185	22	8-Φ18	245	600
150	440	280	240	210	24	8-Φ23	265	800
200	550	335	295	265	26	12-Φ23	305	800
250	670	405	355	320	30	12-Φ25	370	1300

STAINLESS STEEL FLANGE THREE WAY BALL VALVE

PN25 Main external and connection dimension

HG/T 20592
Unit:mm

DN	L	D	D1	D2	D6	b	Z-Φd	H
15	150	95	65	45	16	4-Φ14	95	100
20	160	105	75	55	16	4-Φ14	105	160
25	180	115	85	65	16	4-Φ14	113	160
32	200	135	100	78	18	4-Φ18	135	250
40	220	145	110	85	18	4-Φ18	142	250
50	240	160	125	100	20	4-Φ18	154	350
65	260	180	145	120	22	8-Φ18	175	350
80	280	195	160	135	22	8-Φ18	190	450
100	320	230	190	160	24	8-Φ23	225	450
125	380	270	220	188	28	8-Φ25	245	600
150	440	300	250	218	30	8-Φ25	265	800
200	550	360	310	278	34	12-Φ25	305	1200
250	670	425	370	332	36	12-Φ30	370	1400

PN40 Main external and connection dimension

HG/T 20592
Unit:mm

DN	L	D	D1	D2	D6	b	Z-Φd	H
15	180	95	65	45	40	16	4-Φ14	100
20	190	105	75	55	51	16	4-Φ14	160
25	200	115	85	65	58	16	4-Φ14	160
32	210	135	100	78	66	18	4-Φ18	250
40	230	145	110	85	76	18	4-Φ18	250
50	250	160	125	100	88	20	4-Φ18	350
80	310	195	160	135	121	22	8-Φ18	450
100	350	230	190	160	150	24	8-Φ23	450
125	381	270	220	188	176	28	8-Φ25	600
150	403	300	250	218	204	30	8-Φ25	800
200	502	375	320	282	260	38	12-Φ30	1200
250	568	445	385	345	313	42	12-Φ34	1400

ALL WELDED BALL VALVE

Structure

The valve is composed of a valve body welded and carbon reinforced Teflon gasket, in frequent operation, impurities and chemical substances under the condition of long service life. Grinding fine stainless steel ball can guarantee for many years to open and close, reliable operation.

Adopt floating ball structure, inclined plane elastic washer to ensure that the sealing ring is pressed on the ball, even in the case of unstable pressure, the valve can ensure tight.

The valve stem leakage structure using two "O"-shaped ring, so that the valve stem rotation and sealing.

Characteristic

Do not need to maintain, adjust and lubrication, easy to install, in the low operating cost of long-term reliable operation.

Valve stem can be lengthened, easy to heat insulation.

The operating handle can be removed and the reverse is installed.

The body does not contain heavy and unreliable castings.

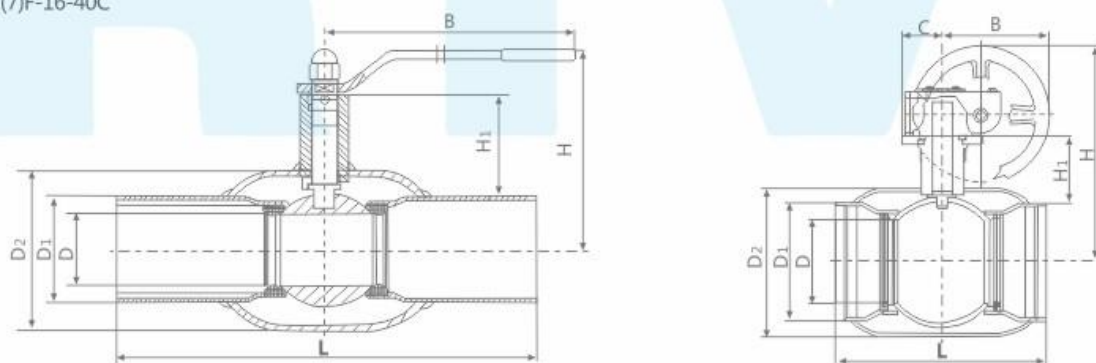
Install regulator, very simple.

Main components material

No.	Part name	Material Science	
1	Body	Carbon steel	ST37.8
2	Stem chamber	Carbon steel	Fe52DP
3	Ball	Stainless steel	AISI304
4	Stem	Stainless steel	AISI303
5	Seal ring	Teflon	PTFE
6	Bevel washer	Spring steel	
7	Support	Stainless steel	
8	Screw	Steel	
9	O-sealing ring	Synthetic rubber	FPM
10	Gasket	Teflon	PTFE
11	Flange clip	Cast steel	AISI304
12	Handle	Galvanized steel	

Structure diagram

QW(3)4(6)1(7)F-16-40C



ALL WELDED BALL VALVE

Main external and connection dimension

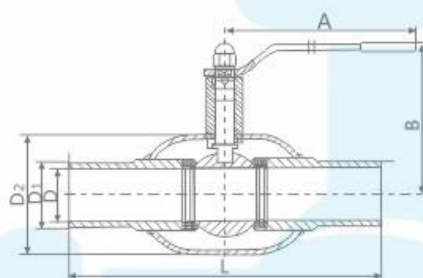
Unit:mm

DN	PN	L	D	D1	D2	H	B	C	H1
10	16	230	10	17.2	33.7	98	145	-	22
15		230	10	21.3	33.7	98	145	-	22
20		230	15	26.9	42.4	103	145	-	23
25		230	20	33.7	48.3	118	145	-	34
32	25	260	25	42.4	60.3	121	145	-	33
40	40	260	32	48.3	76.1	120	190	-	43
50	40	300	40	60.3	88.9	127	190	-	44
65		300	50	76.1	114.3	170	280	-	71
80		300	65	88.9	139.7	185	280	-	77
100		325	80	114.3	168.3	210	280	-	102
125	25	325	100	139.7	177.8	253	400	-	101
150		350	125	168.3	219.1	273	600	-	107
200		400	150	219.1	273	315	900	-	123
250		530	200	273	355.6	398	1200	-	122
300	16	550	250	323.9	457	465	280	193	155
350		650	300	355.6	508	530	325	150	187
400		760	350	406.4	610	530	466	175	221
500		914	400	508	680	630	466	175	211
600	25	1067	500	610	830	762	466	175	259
700		1346	590	711	982	830	507	-	-
800		1524	690	813	1086	910	624	-	-
900		1727	790	914	1245	1025	844	-	-
1000	25	1750	890	1016	1394	1165	881	-	-
1200		2050	1190	1219	1576	1289	1092	-	-

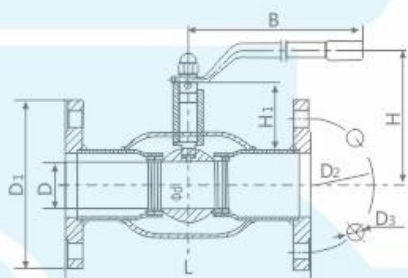
ALL WELDED BALL VALVE

Structure diagram

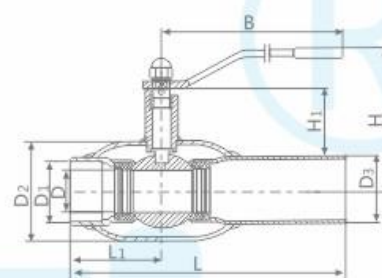
QW(3)4(6)1(7)F-16-40C



Full diameter/Welding



Shrinkage/Flange



Shrinkage/Screw & Welding

Full diameter /Welding

Unit:mm

DN	PN	L	D	D1	D2	A	H	B	H1
10	16	210	15	21.7	42.7	129	103	64	22
15		230	20	27.2	48	159	118	76	23
20		260	25	34.0	60	159	121	85	34
25		260	32	42.7	76	230	120	95	33
32		300	40	48.6	89	230	127	100	43
40		300	50	60.5	114	300	170	159	44
50	25	300	65	76.3	140	300	185	170	71
65		300	80	89.1	165	400	210	192	77
80		325	100	114.3	216	400	253	208	102
100		350	125	139.8	219	450	273	241	101
125		490	150	165.2	355	450	300	280	107
150		580	200	216.3	356	252	325	500	123
200		550	250	267.4	457	236	345	500	122
250		630	300	318.5	508	331	465	600	155
300		762	337	355.6	559	331	530	600	187
400		840	387	406.4	660	360	550	700	221
500		990	490	508.0	830	413	630	800	211
600		1140	590	610	982	506	830	-	-
700		1346	690	711	1086	605	910	-	-
800		1524	790	813	1245	659	1025	-	-
900		1727	890	914	1433	881	1165	-	-
1000		1950	980	1016	1576	1092	1170	-	-
1200		2250	1180	1219	1939	1092	1180	-	-