



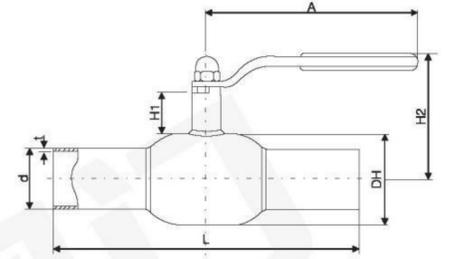
使用材料 Material used	适用范围 Scope of application	适用介质 Applicable medium
图表、产品说明 Chart, product description	供暖系统、区域供热、工业用途、城市燃气 Heating System, District Heating, Industrial Use, City Gas	水、空气、油和其它不与碳钢发生化学反应的流体 Water, Air, Oil And Others Does Not Chemically React With Carbon Steel Reactive Fluid



**手柄传动式 Handle drive**

单位Unit:mm

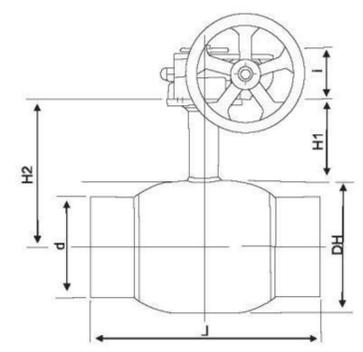
DN	公称直径 Nominal diameter	DH	d A/B	t	L	H1	H2	I	重量 (kg)
15	10	35	21.3/18	3	210	42	86	145	0.8
20	15	42	26.9/25	3	230	42	88	145	1.0
25	20	48	33.7/32	3	230	42	90	145	1.3
32	25	57	42.4/38	3	260	42	95	145	1.9
40	32	76	48.3/45	4	260	45	100	180	2.5
50	40	89	60.3/57	4	300	50	110	250	4.0
65	50	108	76.1/76	4	300	50	120	250	5.0
80	65	133	88.9/89	5	300	63	152	280	7.0
100	80	159	114.6/108	5	325	63	165	280	10.0
125	100	180	139.7/133	5	325	63	165	420	15.0
150	125	219	168.3/159	6	350	63	185	570	22.0
200	150	273	219/219	7	400	70	217	770	32.0



**水平齿轮传动式 Horizontal gear drive**

单位Unit:mm

DN	公称直径 Nominal diameter	DH	d A/B	t	L	H1	H2	I	重量 (kg)
125	100	180	139.5/133	5	325	50	140	40	22
150	125	219	168.3/159	6	350	65	175	50	32
200	150	273	219.1/219	7	400	65	202	60	48
250	200	351	273/273	8	520	70	246	84	90
300	250	425	323.9/325	10	630	70	283	105	130
350	300	508	355.6/377	12	680	75	330	110	200
400	350	590	406.4/426	14	760	80	375	120	360
450	350	590	457/480	16	760	80	375	120	400
500	400	670	508/530	18	910	95	430	150	500
600	500	805	610/630	20	1060	95	490	170	960
700	600	950	711/720	22	1340	95	605	180	1200



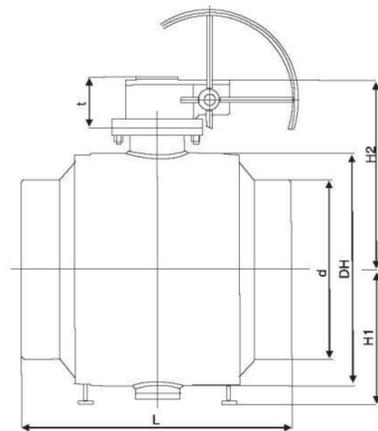
使用材料 Material used	适用范围 Scope of application	适用介质 Applicable medium
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**主要外形尺寸 Main dimensions**

单位Unit:mm

DN	公称直径 Nominal diameter	DH	d A/B	t	L	H1	H2	重量 Weight (kg)
700	590	985	711/720	22	1340	650	582	1600
800	685	1140	813/820	24	1520	705	670	2450
900	785	1280	914/920	28	1720	770	755	3300
1000	875	1440	1016/1020	30	1900	855	840	4500
1200	976	1590	1219/1220	36	2100	995	925	6400
1400	1160	1860	1422/1420	42	2200	1095	1060	9500



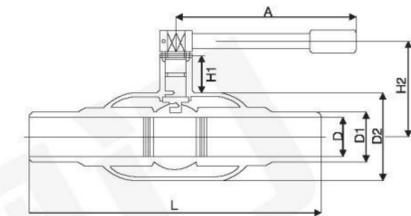
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**手柄传动式 Handle drive**

单位Unit:mm

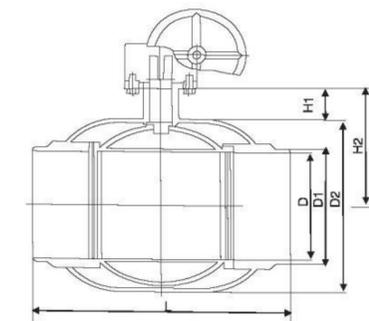
DN	公称直径 Nominal diameter	L	D	d A/B	D2	A	H1	H2	重量 Weight (kg)
15	15	230	15	21.3/18	42	145	42	88	1.4
20	20	230	20	26.9/25	48	145	42	90	1.6
25	25	260	25	33.7/32	57	145	42	93	2.3
32	32	260	32	42.4/38	70	180	45	100	2.8
40	40	300	40	48.3/45	89	250	50	110	4.6
50	50	300	50	60.3/57	108	250	50	120	7
65	65	300	65	76.1/76	133	280	63	152	9.2
80	80	325	80	88.9/89	159	280	63	165	13.2
100	100	325	100	114.6/108	180	420	63	170	16
125	125	350	125	139.7/133	219	570	63	205	23.5
150	150	400	150	168.3/159	273	570	70	235	35



**水平齿轮传动式 Horizontal gear drive**

单位Unit:mm

DN	公称直径 Nominal diameter	L	D	D1 A/B	D2	H1	H2	重量 Weight (kg)
50	50	300	50	60.3/57	108	40	94	10
65	65	300	65	76.1/76	133	50	117	13
80	80	325	80	88.9/89	159	50	150	20
100	100	325	100	114.3/108	180	50	140	25
125	125	350	125	139.7/133	214	65	175	35
150	150	400	150	168.3/159	273	65	202	50
200	200	520	200	219.1/219	351	70	246	100
250	250	630	250	273.0/273	426	70	283	145
300	300	680	300	323.9/325	508	75	330	220
350	350	760	350	355.6/377	590	80	375	390
400	400	910	400	406.4/426	670	95	430	600
450	450	1020	450	457/480	730	95	460	700
500	500	1060	500	508/530	805	95	498	1000



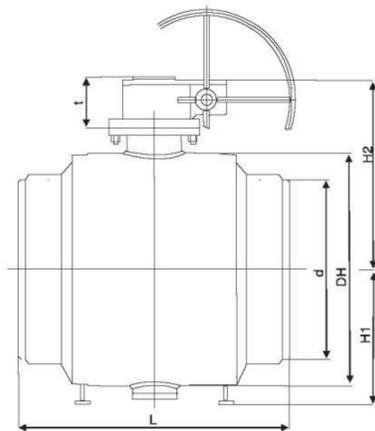
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**主要外形尺寸 Main dimensions**

单位Unit:mm

DN	公称直径 Nominal diameter	DH	d A/B	t	L	H1	H2	重量 Weight (kg)
500	500	805	508/530	22	1060	527	830	1030
600	590	985	610/630	22	1340	600	940	1750
700	685	1140	711/720	24	1520	682	1050	2500
800	785	1280	813/820	28	1720	765	1140	3500
900	875	1440	914/920	30	1900	836	1210	5000
1000	976	1590	1016/1020	32	2000	932	1320	5700
1200	1160	1860	1219/1220	42	2200	1095	1590	11000
1400	1360	2190	1422/1420	48	2300	1250	1710	18000



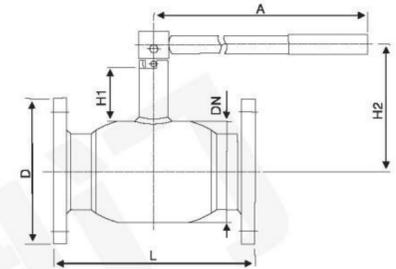
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**主要外形尺寸 Main dimensions**

单位Unit:mm

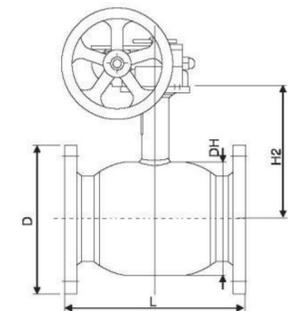
DN	公称直径 Nominal diameter	DH	D	L	H1	H2	A	重量 Weight (kg)
15	10	34	95	130	45	86	145	2.0
20	15	42	105	150	47	88	145	3.4
25	20	48	115	160	47	90	145	3.4
32	25	57	135	260	48	95	145	4.3
40	32	76	145	300	41	100	180	5.5
50	40	89	160	230	40	105	250	8
65	50	108	180	270	40	115	275	10
80	65	133	195	280	50	135	275	13
100	80	159	215	300	55	155	365	17



**主要外形尺寸 Main dimensions**

单位Unit:mm

DN	公称直径 Nominal diameter	DH	D	L	H1	H2	ds	l	重量 Weight (kg)
125	100	180	270	325	75	172	24	40	32
150	125	219	300	350	80	190	30	50	44
200	150	273	360	400	80	217	30	60	63
250	200	351	425	520	80	256	50	84	116
300	250	426	480	630	90	303	60	105	160
350	300	508	550	680	90	345	60	110	240
400	350	610	610	760	105	410	70	120	550
500	400	670	715	910	120	460	90	150	860



**放散阀:** 放散阀是管道输送中的一种安全装置, 当管道内部压力超过某一特定值时, 可以通过放散阀排出管道内的一部分介质, 从而达到降低管道内部压力的效果。

**Release valve:** the release valve is a safety device in pipeline transportation. When the internal pressure of the pipeline exceeds a certain value, it can discharge part of the medium in the pipeline through the release valve, so as to reduce the internal pressure of the pipeline.

**放空阀:** 放空阀主要目的是排出阀门中腔的介质, 当需要拆卸阀门或者检查时, 可通过放空阀对中腔进行放空, 从而安全的进入下一步操作。

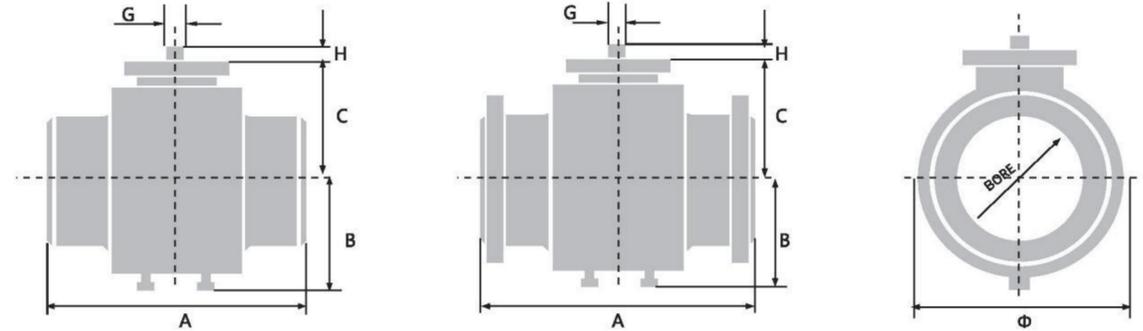
**Vent valve:** the main purpose of the vent valve is to discharge the medium in the middle chamber of the valve. When the valve needs to be disassembled or inspected, the vent valve can be used to vent the middle chamber, so as to safely enter the next operation.

**排污阀:** 排污阀的主要目的是排出阀门内部的脏物, 当需要清洗阀门内腔时, 打开排污阀, 通过介质自身的压力即可实现排污。

**Blowdown valve:** the main purpose of the blow-down valve is to discharge the dirt inside the valve. When it is necessary to clean the valve cavity, open the blow-down valve, and discharge the sewage through the pressure of the medium itself.

**注脂阀:** 当阀门出现泄漏时, 即可通过注脂阀向阀门内部注入密封脂, 实现紧急密封; 注脂阀也可用于对阀门注入润滑脂以起润滑作用。

**Grease injection valve:** when the valve leaks, it can inject sealing grease into the valve through the grease injection valve to achieve emergency sealing. The grease injection valve can also be used to inject lubricating grease into the valve for lubrication.

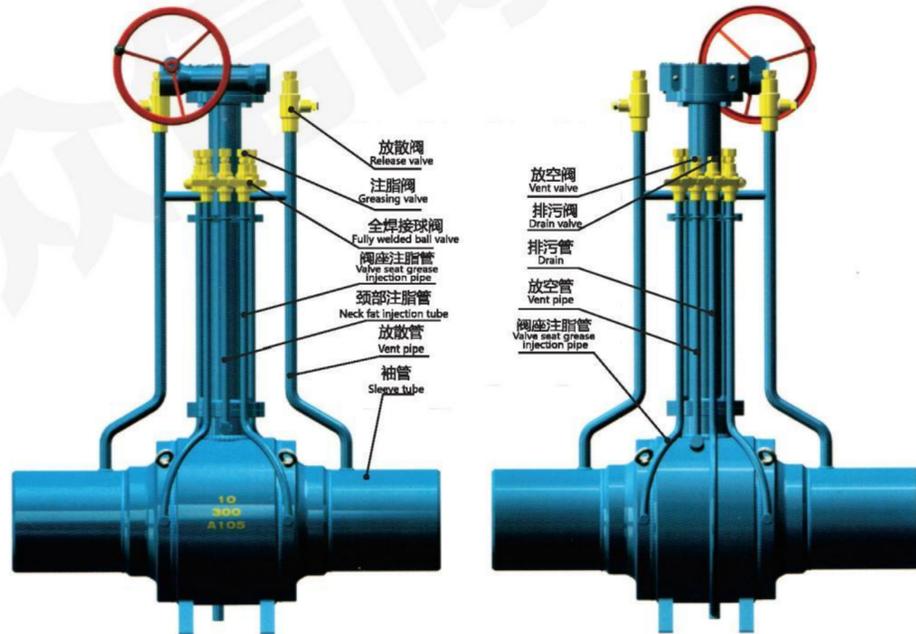


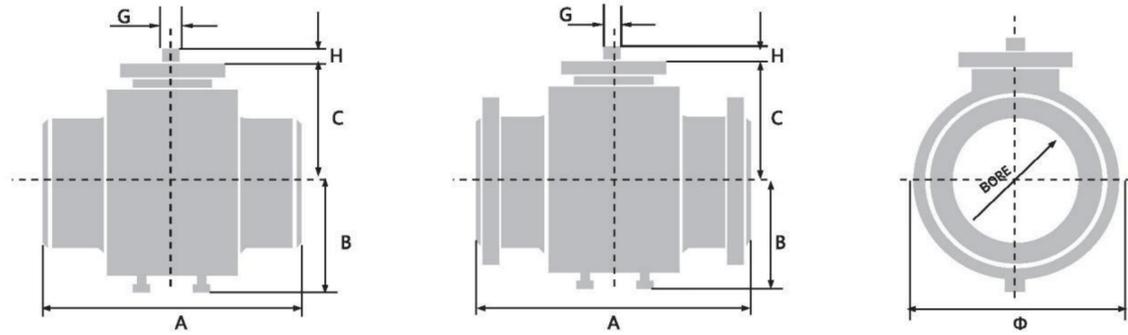
**ANSI 150**

Nom.Dia.	Bore	Face to Dimension		Body			Stem	
DN(Inch)		A(WE)	A(RF)	B	C	Φ	G	H
6	152	457	394	250	221	345	40	57
8	201	521	457	290	260	425	40	57
10	252	559	533	325	299	490	48	64
12	304	635	610	365	345	580	55	72
14	335	762	686	390	370	620	70	92
16	387	838	762	430	410	700	70	92
18	438	914	864	470	457	810	90	113
20	488	991	914	520	497	870	90	113
22	540	1092	991	560	547	950	100	135
24	590	1143	1067	600	587	1040	100	135
26	635	1245	1143	650	636	1120	110	136
28	686	1346	1245	700	673	1194	110	136
30	737	1397	1295	750	718	1280	110	136
32	781	1524	1372	790	755	1356	110	136

**ANSI 300**

DN	Bore	Face to Dimension		Body			Stem	
DN(Inch)		A(WE)	A(RF)	B	C	Φ	G	H
6	152	457	403	250	221	345	40	57
8	201	521	502	290	260	425	40	57
10	252	559	568	325	299	490	48	64
12	304	635	648	365	345	580	55	72
14	335	762	762	390	370	620	70	92
16	387	838	838	430	410	700	70	92
18	438	914	914	470	457	810	90	113
20	488	991	991	520	497	870	90	113
22	540	1092	1092	560	547	950	100	135
24	590	1143	1143	600	587	1040	100	135
26	635	1245	1245	650	636	1120	110	136
28	686	1346	1346	700	673	1194	110	136
30	737	1397	1397	750	718	1280	110	136
32	781	1524	1524	790	755	1356	110	136



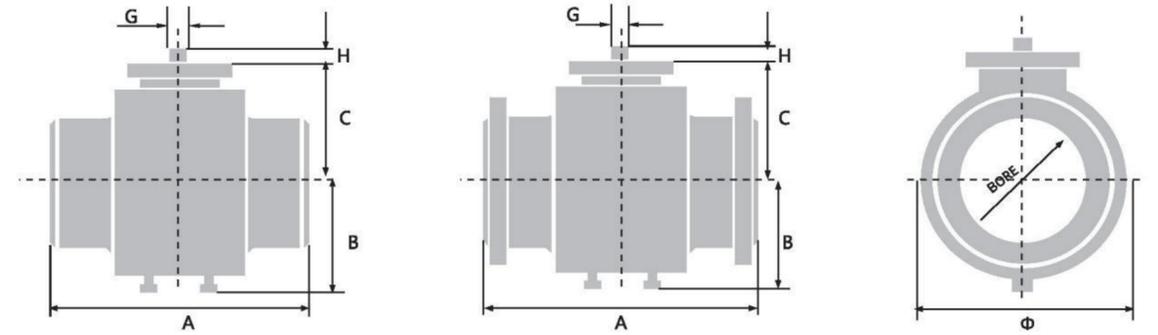


**ANSI 400**

Nom.Dia. DN(Inch)	Bore	Face to Dimension		Body			Stem	
		A(WE)	A(RF)	B	C	Φ	G	H
6	152	495	495	250	222	345	40	56
8	201	597	597	290	261	425	48	64
10	252	673	673	325	305	490	55	75
12	304	762	762	385	353	600	55	75
14	335	826	826	410	384	640	70	92
16	387	902	902	450	424	750	70	92
18	438	978	978	495	484	840	100	135
20	488	1054	1054	540	525	910	100	135
22	540	1143	1143	582	568	1000	100	135
24	590	1232	1232	620	622	1080	110	139
26	635	1308	1308	674	660	1165	110	139
28	686	1397	1397	730	697	1250	110	139
30	737	1542	1542	775	740	1330	130	175
32	781	1651	1651	812	777	1405	130	175

**ANSI 600**

DN	Bore	Face to Dimension		Body			Stem	
		A(WE)	A(RF)	B	C	Φ	G	H
6	152	559	559	250	222	345	40	56
8	201	660	660	290	261	425	48	64
10	252	787	787	325	305	490	55	75
12	304	838	838	385	353	600	55	75
14	335	889	889	410	384	640	70	92
16	387	991	991	450	424	750	70	92
18	438	1092	1092	495	484	840	100	135
20	488	1194	1194	540	525	910	100	135
22	540	1295	1295	582	568	1000	100	135
24	590	1397	1397	620	622	1080	110	139
26	635	1448	1448	674	660	1165	110	139
28	686	1549	1549	730	697	1250	110	139
30	737	1651	1651	775	740	1330	130	175
32	781	1778	1778	812	777	1405	130	175



**ANSI 900**

Nom.Dia. DN(Inch)	Bore	Face to Dimension			Body			Stem	
		A(WE)	A(RF)	A(RJ)	B	C	D	G	H
6	152	610	610	613	270	225	345	55	70
8	201	737	737	740	325	265	425	55	70
10	252	838	838	841	380	320	525	75	85
12	304	965	965	968	425	355	595	75	85
14	324	1029	1029	1038	450	378	635	75	85
16	375	1130	1130	1140	455	426	735	90	115
18	425	1219	1219	1232	500	495	805	120	115
20	473	1321	1321	1334	560	520	910	120	140
22	524	1422			615	562	995	120	140
24	572	1549	1549	1568	635	585	1040	150	140
26	619	1729	1729	1751	715	655	1165	150	187
28	667	1700	1780	1802	770	694	1240	150	187
30	714	1700	1890	1912	815	737	1330	150	187
32	762	1884	2014	2036	855	781	1410	150	187

**ANSI 1500**

Nom.Dia. DN(Inch)	Bore	Face to Dimension			Body			Stem	
		A(WE)	A(RF)	A(RJ)	B	C	D	G	H
6	152	705	705	711	270	225	345	55	70
8	203	832	832	841	325	265	425	55	70
10	254	991	991	1000	380	320	525	75	85
12	305	1130	1130	1146	425	355	595	75	85
14	324	1257	1257	1276	450	378	635	75	85
16	375	1384	1384	1407	455	426	735	90	115
18	425	1537	1537	1559	500	495	805	120	115
20	473	1664	1664	1686	560	520	910	120	140
22	524	-	-	-	615	562	995	120	140
24	572	-	1972	-	635	585	1040	150	140

我公司生产的浮动式球阀采用单斜面弹性密封圈或V型槽弹性密封圈结构设计,当介质压力较小时,密封圈与球体的接触面积较小,故有较大的密封比压,确保可靠密封,介质压力较大时,密封圈与球体接触面积增大,故密封圈能承受较大的介质推力而不会损坏。由于聚四氟乙烯等密封圈材料具有良好的自润滑性,与球体的摩擦损失小,故使用寿命长。

Our company produces floating ball valve with a single inclined plane elastic sealing ring or V shaped groove elastic sealing ring structure design, when the medium pressure, sealing ring and the contact area is smaller, so there is a greater sealing pressure, to ensure reliable sealing, medium pressure, sealing ring and sphere contact area increases, so the sealing ring can withstand greater media thrust and will not damage. Because of the PTFE sealing ring material has good self lubrication, and the ball of the friction loss is small, so long life.

### 执行标准 Performance standard

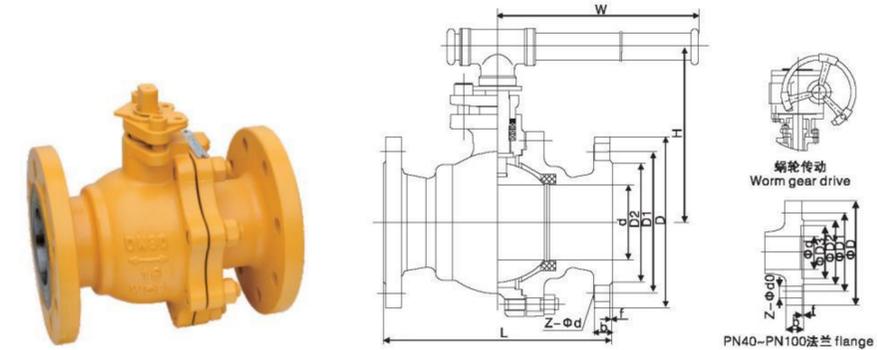
设计标准 Design standard	GB/T 12237
法兰连接结构长度 Flange connection structure length	GB/T 12221
结构长度(焊接) Face to face dimension (welding)	GBT 15188.1
连接法兰 Connecting flange	GB/T9113 JB/T79 HG20592
对焊端 Butt welding ends	GB/T12224
试验和检验 Test and inspection	GB/T9092

### 主要性能规范 Main performance specification

压力等级 Pressure grade		公称压力 Nominal pressure PN(MPa)				
		1.6	2.5	4.0	6.4	100
试验压力 Test pressure	壳体试验 Shell test	2.4	3.8	6.0	9.6	15.0
	密封试验 Seal test	1.8	2.75	4.4	7.0	11.0
适用工况 Applicable condition	适用介质 Applicable medium	纸浆、浆料、粉尘及含各种固体颗粒的介质 Pulp, slurry, dust and medium containing various solid particles				
	适用温度 Applicable temperature	-196~≤550°C				

### 主要零部件材质 Materials of main parts

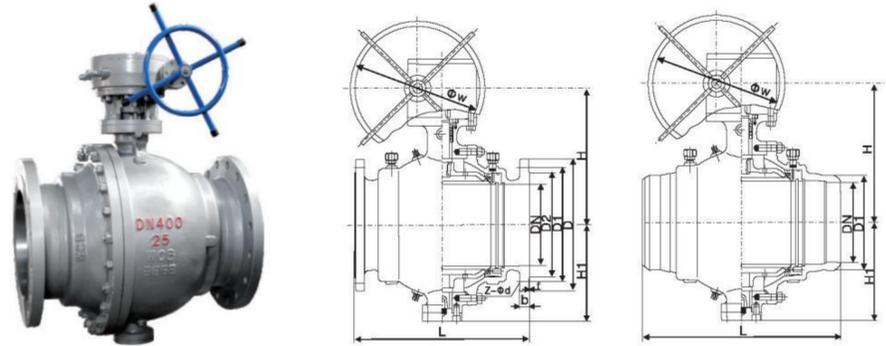
零件名称 Parts name	材料 Material	
	GB	ASTM
阀体 Body	WCB	A216-WCB
密封圈 Sealing ring	PTFE/PEEK	PTFE/PEEK
球体 Ball	1Cr18Ni9Ti	SS304
螺母 Nut	35	A194-2H
螺柱 Stud	35CrMoA	A193-B7
右体 Right	WCB	A216-WCB
垫片 Shim	柔性石墨+不锈钢 Flexible graphite + stainless steel	B12.10-304/F.G
填料 Packing	PTFE	PTFE
填料压盖 Packing gland	WCB	A216-WCB
定位片 Locating piece	25	A105
挡圈 Ring	65Mn	AISI 1066
手柄 Handle	WCB	A216-WCB
阀杆 Stem	2Cr13	A276-410
螺钉 Screw	35	A193-B7
止推垫片 Thrust washer	PTFE	PTFE



### 主要外形尺寸和连接尺寸 Main shape size and connection size

单位(Unit): mm

公称直径 DN(mm) Nominal diameter	PN1.6MPa										W		H	
	L	d	D	D1	D2	D3	b	f	Z-φd	手动 Manual	蜗轮 Worm gear	手动 Manual	蜗轮 Worm gear	
	15	130	15	95	65	45	-	14	2	4-14	140	-	85	-
20	140	20	105	75	55	-	14	2	4-14	140	-	90	-	
25	150	25	115	85	65	-	14	2	4-14	160	-	99	-	
32	165	32	135	100	78	-	16	2	4-18	180	-	105	-	
40	180	40	145	110	85	-	16	3	4-18	235	-	126	-	
50	200	50	160	125	100	-	16	3	4-18	250	-	140	-	
65	220	65	180	145	120	-	18	3	4-18	285	-	165	-	
80	250	80	195	160	135	-	20	3	8-18	320	-	178	-	
100	280	100	215	180	155	-	20	3	8-18	350	-	230	380	
125	320	125	245	210	185	-	22	3	8-18	800	-	280	405	
150	360	150	280	240	210	-	24	3	8-23	1000	-	310	460	
200	400	200	335	295	265	-	26	3	12-23	1200	-	350	550	
250	457	250	405	355	320	-	30	3	12-25	1400	-	-	-	
PN2.5MPa														
15	130	15	95	65	45	-	16	2	4-14	140	-	85	-	
20	140	20	105	75	55	-	16	2	4-14	140	-	90	-	
25	150	25	115	85	65	-	16	2	4-14	150	-	99	-	
32	165	32	135	100	78	-	18	2	4-18	180	-	105	-	
40	180	40	145	110	85	-	18	3	4-18	200	-	126	-	
50	200	50	160	125	100	-	20	3	4-18	250	-	140	-	
65	220	65	180	145	120	-	22	3	8-18	300	-	165	-	
80	250	80	195	160	135	-	22	3	8-18	350	-	178	-	
100	280	100	230	190	160	-	24	3	8-23	500	-	230	380	
125	320	125	270	220	188	-	28	3	8-25	800	-	280	405	
150	360	150	300	250	218	-	30	3	8-25	1000	-	310	460	
200	400	200	360	310	278	-	34	3	12-25	1200	-	350	550	
250	457	250	425	370	332	-	36	3	12-30	1400	-	-	-	
PN4.0MPa														
15	130	16	95	65	45	40	16	2	4-14	140	-	85	-	
20	140	20	105	75	55	51	16	2	4-14	140	-	90	-	
25	150	25	115	85	65	58	16	2	4-14	150	-	99	-	
32	180	32	135	100	78	66	18	2	4-18	180	-	105	-	
40	200	40	145	110	85	76	18	3	4-18	200	-	126	-	
50	220	50	160	125	100	88	20	3	4-18	250	-	142	-	
65	250	65	180	145	120	110	22	3	8-18	300	-	165	-	
80	280	80	195	160	135	121	22	3	8-18	350	305	178	330	
100	320	100	230	190	160	150	24	3	8-23	500	305	230	380	
125	380	125	270	220	188	176	28	3	8-25	800	305	280	420	
150	400	150	300	250	218	204	30	3	8-25	800	305	310	480	
200	502	200	375	320	282	260	38	3	12-30	1000	400	350	560	



### 产品概述 Product overview

固定球阀，是新一代高性能球阀，适用于长输管线和一般工业管线，其强度、安全性、耐恶劣环境性等在设计时进行了特殊考虑，适用于各种腐蚀性和非腐蚀性介质。它与浮动球阀相比，工作时，阀前流体压力在球体上产生的作用力全部传递给轴承，不会使球体向阀座移动，因而阀座不会承受过大的压力，所以固定球阀的转矩小、阀座变形小，密封性能稳定、使用寿命长，适用于高压、大口径场合。固定球阀有二块式和三块式两种阀体结构，中法兰用螺栓连接，密封采用增强聚四氟乙烯嵌入不锈钢圈内，钢圈后部设有弹簧保证阀座紧贴球体，保持密封。

The fixed ball valve is a new generation of high performance ball valves. It is suitable for long distance pipeline and general industrial pipeline. Its strength, safety, and bad environment resistance are considered in the design. It is suitable for various corrosive and non corrosive medium. Compared with the floating ball valve, the force generated by the fluid pressure before the valve is all transferred to the bearing, and the ball will not move to the seat, so the seat will not bear the pressure, so the torque of the valve is small, the valve seat is small, the sealing performance is stable and the service life is long, suitable for high pressure and large size. Caliber occasions. The fixed ball valve has two block and three block type body structure. The middle flange is bolted with the bolt. The seal is inlaid with the reinforced PTFE into the stainless steel ring. The rear part of the steel ring is equipped with a spring to keep the seat close to the ball and keep the seal.

### 使用范围 Scope of use

公称口径DN(mm) Nominal diameter	DN15~800mm 1/2"~32"
驱动方式 Driving mode	手动、气动、电动、液动等 Manual, pneumatic, electric, hydraulic, etc
适用温度 Applicable temperature	-196℃~350℃
适用介质 Applicable medium	水、气、油品、天然气和酸碱腐蚀性介质 Water, gas, oil, natural gas and acid and caustic media.

### 主要零部件材质 Materials of main parts

零件名称 Part name	材料 Material	
	GB	ASTM
端盖 End cap	WCB	A216-WCB
螺母 Nut	35	A193-B7
底盖 Bottom cover	WCB	A216-WCB
垫片 Shim	PTFE; 柔性石墨+不锈钢 Flexible graphite+SS	PTFE, B12.10-304/F.G
螺钉 Screw	35CrMo	A194-2H
下阀杆 Lower stem	2Cr13	A276-410
O型圈 O type ring	NBR	NBR
垫片 Shim	PTFE; 柔性石墨+不锈钢 Flexible graphite+SS	PTFE, B12.10-304/F.G
阀体 valve body	WCB	A216-WCB
排污塞 Blowdown plug	25	A105
弹簧 Spring	60Si2Mn	AISI 9260
阀座 valve seat	25	A105
密封圈 Seal ring	PTFE	PTFE
O型圈 O type ring	NBR	NBR
注脂阀 Fat injection valve	组件 assembly	组件 assembly
球体 Sphere	WCB+Har	WCB+HCr
阀杆 The stem	2Cr13	A276-410
键 Key	45	AISI C 1045
垫片 Shim	PTFE+不锈钢SS	PTFE+304
O型圈 O type ring	NBR	NBR
填料箱 Packing box	25	A105
螺钉 Screw	35CrMo	A194-2H
填料垫 Stuffing pad	1Cr13	A276-410
填料 Filler	碳纤维; 柔性石墨; PTFE Carbon fiber; flexible graphite	
填料压盖 Packing gland	WCB	A216-WCB
支架 Bracket	Q235A	碳钢 carbon steel
连接套 Connection sleeve	45	AISI C 1045

### 执行标准 Performance standard

设计标准 Design standards	GB/T 12237
法兰连接结构长度 Flange connection structure length	GB/T 12221
结构长度(焊接) Structural length (welding)	GBT 15188.1
连接法兰 Connecting flange	GB/T9113、JB/T79 HG20592
对焊端 Butt welding end	GB/T12224
试验和检验 Test and test	GB/T9092

### 主要外形尺寸和连接尺寸 Main shape size and connection size

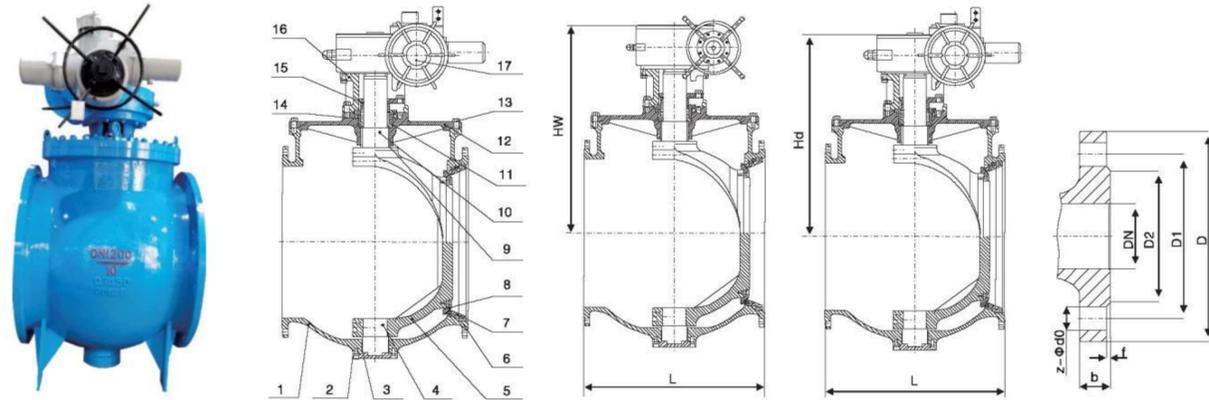
单位(Unit): mm

公称口径 Nominal diameter DN(mm)	PN1.6MPa										
	L	d1	D	D1	D2	b	f	Z-Φd	H		
									手动 Manual	347型 Type	647型 Type
15	140	15	95	65	45	14	2	4-14	130	-	-
20	152	20	105	75	55	14		4-14	170	-	-
25	165	25	115	85	65	14		4-14	170	-	-
32	178	32	135	100	78	16		4-18	200	-	-
40	190	40	145	110	85	16		4-18	25	-	-
50	220	50	160	125	100	16		4-18	25	-	-
65	241	65	180	145	120	18	3	4-18	350	-	-
80	283	80	195	180	135	20		8-18	350	-	-
100	305	100	215	180	155	20		8-18	420	-	-
125	381	125	245	210	185	22		8-18	700	-	542
150	394	150	280	240	210	24		8-23	100	305	672
200	457	200	335	295	265	28		12-23	1300	398	736
250	533	250	405	355	320	30	4	12-25	1800	495	890
300	610	300	460	410	375	30		16-25	-	580	910
350	686	350	520	470	435	34		16-30	-	625	1020
400	762	400	580	525	485	36		20-30	-	770	1120
450	864	450	640	585	545	40		20-34	-	840	1150
500	914	500	705	650	608	44		5	20-41	-	920
600	1067	600	840	770	718	48	24-41		-	990	1310
700	1245	700	910	840	788	50					
PN2.5MPa											
15	152	15	95	65	45	16	2	4-14	130	-	-
20	165	20	105	75	55	16		4-14	170	-	-
25	178	25	115	85	65	16		4-14	170	-	-
32	190	32	135	100	78	18		4-18	200	-	-
40	220	40	145	110	85	18		4-18	250	-	-
50	241	50	160	125	100	20		4-18	250	-	-
65	283	65	180	145	120	22	3	8-18	350	-	-
80	305	80	195	160	135	22		8-18	350	-	-
100	381	100	230	190	160	24		8-23	420	-	418
125	403	125	270	220	188	28		8-25	720	-	542
150	502	150	300	250	218	30		8-25	1000	305	572
200	568	200	360	310	278	34		12-25	1300	398	736
250	648	250	425	370	332	36	4	12-30	1800	495	890
300	762	300	485	430	390	40		16-30	-	580	910
350	838	350	550	490	448	44		16-34	-	625	1020
400	914	400	610	550	505	48		20-34	-	770	1120
450	991	450	660	600	555	50		20-41	-	840	1150
500	1143	500	730	660	610	52		5	20-41	-	920
600	1346	600	840	770	718	56	24-48		-	990	1310
700	-	700	955	875	815	60					

### 主要外形尺寸和连接尺寸 Main shape size and connection size

单位(Unit): mm

公称口径 DN(mm)	PN4.0MPa											
	L	d1	D	D1	D2	D6	b	f/f1	Z-Φd0	H		
										手动 Manual	347型 Type	647型 Type
15	140	15	95	65	45	40	16	2/4	4-14	130	-	-
20	152	20	105	75	55	51	16		4-14	170	-	-
25	165	25	115	85	65	58	16		4-14	170	-	-
32	178	32	135	100	78	66	18		4-18	200	-	-
40	190	40	145	110	89.5	76	18		4-18	250	-	-
50	220	50	160	125	100	88	20		4-18	250	-	-
65	241	65	180	145	120	110	22	3/4	8-18	350	-	-
80	283	80	195	160	135	121	22		8-18	350	-	-
100	305	100	230	190	160	150	24		8-23	420	-	479
125	381	125	270	220	188	176	28		8-25	700	-	646
150	403	150	300	250	218	204	30		8-25	1000	305	666
200	502	200	375	320	282	260	38		12-30	1300	398	814
250	568	250	445	385	345	313	42	3/4.5	12-34	-	495	890
300	648	300	510	450	408	364	46		16-34	-	580	910
350	782	350	570	51	465	422	52		16-34	-	625	1020
400	838	400	655	585	535	474	58		16-41	-	720	1080
450	914	450	680	610	560	524	60		20-41	-	770	1120
500	991	500	755	670	612	576	62		20-48	-	840	1150
600	1143	600	890	795	730	678	62	5/6	20-54	-	920	1230
700	1346	700	995	900	835	768	68		24-54	-	990	1310



**执行标准 Performance standard**

设计与制造	检验和试验	法兰连接	结构长度
GB/T12237-2007	GB/T13927-2008	GB/T9113, JB/T79 HG20596, SH3406	JD-2004

**主要零部件材质 Materials of main parts**

序号 No.	名称 Name	材质 Material quality			
1	阀体 valve body	WCB	ZG1Cr18Ni9Ti	ZG0Cr18Ni12Mo2Ti	ZG15Cr1Mo1V
2	后盖 back cover	Q235A	1Cr18Ni9Ti	0Cr18Ni12Mo2Ti	25Cr2Mo1V
3	轴套 axle sleeve	SF-1	FB090	FB316	FB090
4	下阀杆 Lower valve stem	2Cr13	1Cr18Ni9Ti	0Cr18Ni12Mo2Ti	1Cr18Ni9Ti
5	球体 sphere	WCB	ZG1Cr18Ni9Ti	ZG0Cr18Ni12Mo2Ti	ZG15Cr1Mo1V
6	压板 Pressing plate	Q235A	1Cr18Ni9Ti	0Cr18Ni12Mo2Ti	25Cr2Mo1V
7	阀座 valve seat	Q235A+PTFE	1Cr18Ni9Ti/PTFE	0Cr18Ni12Mo2Ti/PTFE	25Cr2Mo1V/PTFE
8	球冠 Ball crown	1Cr18Ni9Ti 特殊处理 1Cr18Ni9Ti special treatment			
9	轴套 axle sleeve	SF-1	FB090	FB316	FB090
10	上阀杆 Upper valve stem	2Cr13	1Cr18Ni9Ti	0Cr18Ni12Mo2Ti	1Cr18Ni9Ti
11	填料盘 Packing disc	WCB	ZG1Cr18Ni9Ti	ZG0Cr18Ni12Mo2Ti	ZG15Cr1Mo1V
12	阀盖 Valve cover	WCB	ZG1Cr18Ni9Ti	ZG0Cr18Ni12Mo2Ti	ZG15Cr1Mo1V
13	螺栓 Bolt	35	0Cr18Ni9	0Cr18Ni9	15Cr1Mo1V
13	螺母 Nut	35	0Cr18Ni9	0Cr18Ni9	20CrMo
14	填料 Filler	柔性石墨 Flexible graphite	柔性石墨 Flexible graphite	柔性石墨 Flexible graphite	柔性石墨 Flexible graphite
15	压盖 Gland	WCB	ZG1Cr18Ni9Ti	ZG0Cr18Ni12Mo2Ti	ZG15Cr1Mo1V
16	支架 Bracket	WCB	WCB	WCB	WCB
17	电动头 Electric actuator	组合件 Assembly			

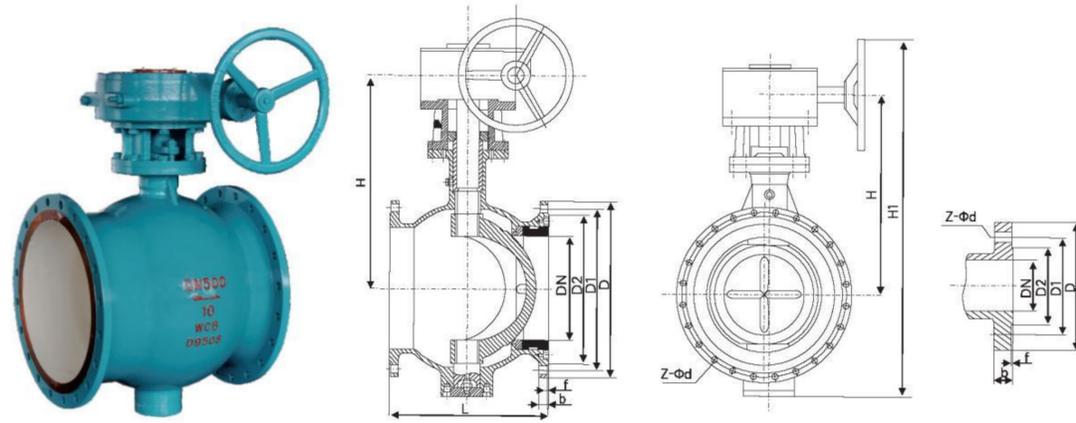
**◎订货须知 Ordering Instructions**

- 上装式硬(软)密封偏心半球阀有不同的温度级别、不同的使用介质, 请需方订货时必须注明使用温度、介质。  
注: 温度较高时阀内密封件材质必须变换
- 需方若需要超越现有的操作方式、规格、尺寸及材料范围的硬(软)密封偏心半球阀, 本公司也可单独设计制造, 但必须在订货合同中注明。  
Note: When the temperature is high, the material of the valve internal seal must be changed
- If the purchaser needs a hard (soft) sealed eccentric hemisphere valve that exceeds the existing operating mode, specifications, dimensions, and material range, our company can also design and manufacture it separately, but it must be specified in the order contract.

**主要外形尺寸和连接尺寸 Main shape size and connection size**

单位(Unit): mm

公称压力 PN(MPa)	公称口径 DN(mm)	尺寸(mm)							
		L	D	D1	D2	b-f	Z-φd0	扭矩	缩径
DYQ340 <sup>H</sup> <sub>F</sub> Y1.0	50	178	165	125	100	18-2	4-18	57	38
	65	190	185	145	120	18-2	8-18	90	49
	80	203	200	160	135	20-2	8-18	122	62
	100	229	220	180	156	22-2	8-18	192	74
	125	254	250	210	184	22-2	8-18	260	100
	150	267	285	240	211	24-2	8-22	324	123
	200	292	340	295	266	24-2	8-22	647	150
	250	330	395	350	319	26-2	12-22	1105	200
	300	356	445	400	370	26-2	12-22	1502	250
	350	430	505	460	429	26-2	16-22	1946	266
	400	530	565	515	480	26-2	16-26	3164	303
	450	580	615	565	530	28-2	20-26	3793	334
	500	630	670	620	582	28-2	20-26	4769	385
	600	800	780	725	682	34-2	20-30	7529	487
	700	900	895	840	794	34-5	24-30	11420	538
	800	1000	1015	950	901	36-5	24-33	15840	589
	900	1100	1115	1050	1001	38-5	28-33	24200	684
	1000	1200	1230	1160	1112	38-5	28-36	32000	779
	1200	1300	1455	1380	1328	44-5	32-39	39770	874
	1400	1500	1675	1590	1530	48-5	36-42	60000	976
1600	1800	1915	1820	1750	52-5	40-48	81000	1166	
1800	2000	2115	2020	1950	56-5	44-48	120000	1460	
2000	2200	2325	2230	2150	60-5	48-48	212000	1580	
DYQ340 <sup>H</sup> <sub>F</sub> Y1.6	50	178	165	125	100	18-2	4-18	68	38
	65	190	185	145	120	18-2	8-18	110	49
	80	203	200	160	135	20-2	8-18	145	62
	100	229	220	180	156	22-2	8-18	230	74
	125	254	250	210	184	22-2	8-18	310	100
	150	267	285	240	211	24-2	8-22	390	123
	200	292	340	295	266	24-2	12-22	770	150
	250	330	405	355	319	26-2	12-26	1325	200
	300	356	460	410	370	28-2	12-26	1800	250
	350	430	520	470	429	30-2	16-26	2400	266
	400	530	580	525	480	32-2	16-30	3800	303
	450	580	640	585	548	40-2	20-30	4550	334
	500	630	715	650	609	44-2	20-33	5730	385
	600	800	840	770	720	54-2	20-36	9040	487
	700	900	910	840	794	50-5	24-36	13700	538
	800	1000	1025	950	901	42-5	24-39	19000	589
	900	1100	1125	1050	1001	44-5	28-39	29000	684
	1000	1200	1255	1170	1112	46-5	28-42	38500	779
	1200	1300	1485	1390	1328	52-5	32-48	47700	874
	1400	1500	1685	1590	1530	58-5	36-48	72000	976
1600	1800	1930	1820	1750	64-5	40-55	97000	1166	
1800	2000	2130	2020	1950	68-5	44-55	145000	1460	
2000	2200	2345	2230	2150	70-5	48-60	246500	1580	



### 产品概述 Product overview

PBQ侧装式偏心半球阀是在消化吸收德国CANALI公司生产的对夹式大流量直通阀(Maxiflub-stellventile)的基础上研制成功的,其结构采用偏心一契紧原理通过传动机构达到闸紧、调节、关闭的目的,密封副是金属面环带硬面接触的密封,双偏心结构在开启时阀芯位于球室内,流量截面大,且阀门不被冲刷,关闭时阀芯不被冲刷,开启时阀芯球面沿阀座渐近,有效地切除结垢障碍,实现可靠密封。它对两相混流易结垢固体析出的混流输送特别有效。第二个特点阀门的半球用双金属,母材上堆焊不同的合金,阀座也作相应堆焊经特殊的处理,密封面组合成防腐、耐磨、高强度等各种类型,满足不同场合需求,第三个特点密封严密,输送有害气体可达零泄漏,第四个特点是密封副的阀芯留有补偿量,当阀座磨损(阀座硬度低于阀芯)后,关闭时再转动少许,仍能可靠密封,延长使用寿命,此外,用户将压紧螺母拧掉,调整或更换后阀座仍可使用,避免了现行众多阀门密封失效整台报废的弊端。因此堆焊不同合金(或组合球)双金属密封副的选配可以用于耐磨、耐腐蚀、耐高温等且又要求严格密封的不同工业部门。

PBQ side mounted eccentric hemispherical valve is developed on the basis of digesting and absorbing the pair clip type large flow through valve (maxiflu stellventile) produced by CANALI company of Germany. Its structure adopts the principle of eccentric compression, and achieves the purpose of locking, adjusting and closing through the transmission mechanism. The sealing pair is a metal ring with hard surface contact seal, and the valve core of double eccentric structure is located in the ball chamber when it is opened. The valve core is not scoured when it is closed, and the spherical surface of the valve core asymptotically moves along the valve seat when it is opened, which effectively removes the scaling obstacles and realizes reliable sealing. It is especially effective for the transportation of two-phase mixed flow which is easy to scale solid. The second feature is that the hemisphere of the valve is made of bimetallic. Different alloys are overlaid on the base metal. The valve seat is also overlaid accordingly. After special treatment, the sealing surface is composed of anti-corrosion, wear-resistant, high-strength and other types to meet the needs of different occasions. The third feature is that the seal is tight, and the harmful gas can be transported to zero leakage. The fourth feature is that the valve core of the sealing pair has a compensation, when the valve seat is worn (When the valve seat hardness is lower than the valve core, it can be reliably sealed and the service life can be prolonged by turning a little when it is closed. In addition, the valve seat can still be used after the compression nut is screwed off by the user and adjusted or replaced, which avoids the defect that many existing valves have failed in sealing and the whole valve is scrapped. Therefore, the selection of different alloy (or combination ball) bimetallic sealing pairs can be used in different industrial departments which are wear-resistant, corrosion-resistant, high temperature resistant and require strict sealing.

### 主要性能规范 Main performance specifications

公称压力 Nominal pressure	0.6	1.0	1.6	2.0	2.5	4.0	5.0	6.4	10
壳体试验压力 Shell test pressure	0.9	1.5	2.4	3.0	3.8	6.0	7.5	9.6	15
高压密封试验 High pressure sealing test	0.68	1.1	1.8	2.2	2.8	4.4	5.5	7.1	11
适用介质及温度℃ Applicable medium and temperature	PQ40Fm型	水、蒸汽、纸浆等溶液 Solutions such as water, steam, pulp, etc							
	PQ40Y型	天然气、煤气、液化气、原油、重油 Natural gas, gas, liquefied gas, crude oil, heavy oil							
	PQ40Y型	溶液、矿浆、氧化铝粉、煤灰、含尘气体、废渣等 Solution, slurry, aluminum oxide powder, coal ash, dusty gas, waste residue, etc							

### 主要零部件材质 Materials of main parts

零件名称 Part Name	PQ40FM型	PQ40Y型	PQ40Ym型
阀体 valve body	WCB/CF8	WCB/CF8	WCB/CF8
阀杆 valve stem	2Cr13/304	2Cr13/304	2Cr13/304
阀芯密封副 Valve core sealing pair	WCB/CF8+Cr	WCB/CF8+硬化合金钢	特种硬化合金钢JK117/17Co合金
阀座密封副 Valve seat sealing pair	PTFE/Molon	WCB/CF8+硬化合金钢	特种硬化合金钢JK117/17Co合金

### 主要外形尺寸和连接尺寸 Main shape size and connection size

单位unit:mm

公称压力 PN(MPa)	公称直径 DN(mm)	尺寸(mm)						
		L	D	D1	D2	b-f	Z-Φd	扭矩
PQ40Y1.0 H F	50	178	165	125	99	18-3	4-18	57
	65	190	185	145	118	18-3	8-18	90
	80	203	200	160	132	20-3	8-18	122
	100	229	220	180	156	20-3	8-18	192
	125	254	250	210	184	22-3	8-18	260
	150	267	285	240	211	22-3	8-22	324
	200	292	340	295	266	24-3	8-22	647
	250	330	395	350	319	26-3	12-22	1105
	300	356	445	400	370	26-4	12-22	1502
	350	381	505	460	429	26-4	16-22	1946
	400	430	565	515	480	26-4	16-26	3164
	450	505	615	565	530	28-4	20-26	3793
	500	560	670	620	582	28-4	20-26	4769
	600	660	780	725	682	34-5	20-30	7529
	700	750	895	840	794	35-5	24-30	11420
	800	800	1015	950	901	38-5	24-33	15840
	900	950	1115	1050	976	38-5	28-33	24200
	1000	1050	1230	1160	1080	44-5	28-36	32000
	1200	1300	1455	1380	1292	48-5	28-39	39770
	1400	1500	1675	1590	1530	52-5	36-42	60000
1600	1700	1915	1820	1750	56-5	40-48	81000	
1800	1800	2115	2020	1950	60-5	44-48	120000	
2000	2000	2325	2230	2150	70-5	48-48	212000	
PQ40Y1.6 H F	50	178	165	125	99	18-3	4-18	68
	65	190	185	145	118	18-3	8-18	110
	80	203	200	160	132	20-3	8-18	145
	100	229	220	180	156	20-3	8-18	230
	125	254	250	210	184	22-3	8-18	310
	150	267	285	240	211	22-3	8-22	390
	200	292	340	295	266	24-3	12-22	770
	250	330	405	355	319	26-3	12-26	1325
	300	356	460	410	370	28-4	12-26	1800
	350	381	520	470	429	30-4	16-33	2400
	400	430	580	525	480	32-4	16-30	3800
	450	505	640	585	548	40-4	20-30	4550
	500	560	715	650	609	44-4	20-22	5730
	600	660	840	770	720	46-5	20-36	9040
	700	750	910	840	794	48-5	24-36	13700
	800	800	1025	950	901	52-5	24-39	19000
	900	950	1125	1050	966	54-5	28-39	29000
	1000	1050	1255	1170	1070	56-5	28-42	38500
	1200	1300	1485	1390	1278	64-5	32-48	47700
	1400	1500	1685	1590	1530	68-5	36-48	72000
1600	1700	1930	1820	1750	70-5	40-55	97000	
1800	1800	2130	2020	1950	78-5	44-55	145000	
2000	2000	2345	2230	2150	84-5	48-60	246500	

注:本产品法兰密封面型式按GB/T9113-2010规定的突面法兰,当用户法兰密封面型式与表中规定不同时,应在供货合同中注明。  
Note: The flange sealing surface type of this product is in accordance with the raised face flange specified in GB/T9113-2010. If the sealing surface type of the user's flange is different from that specified in the table, it should be specified in the supply contract.