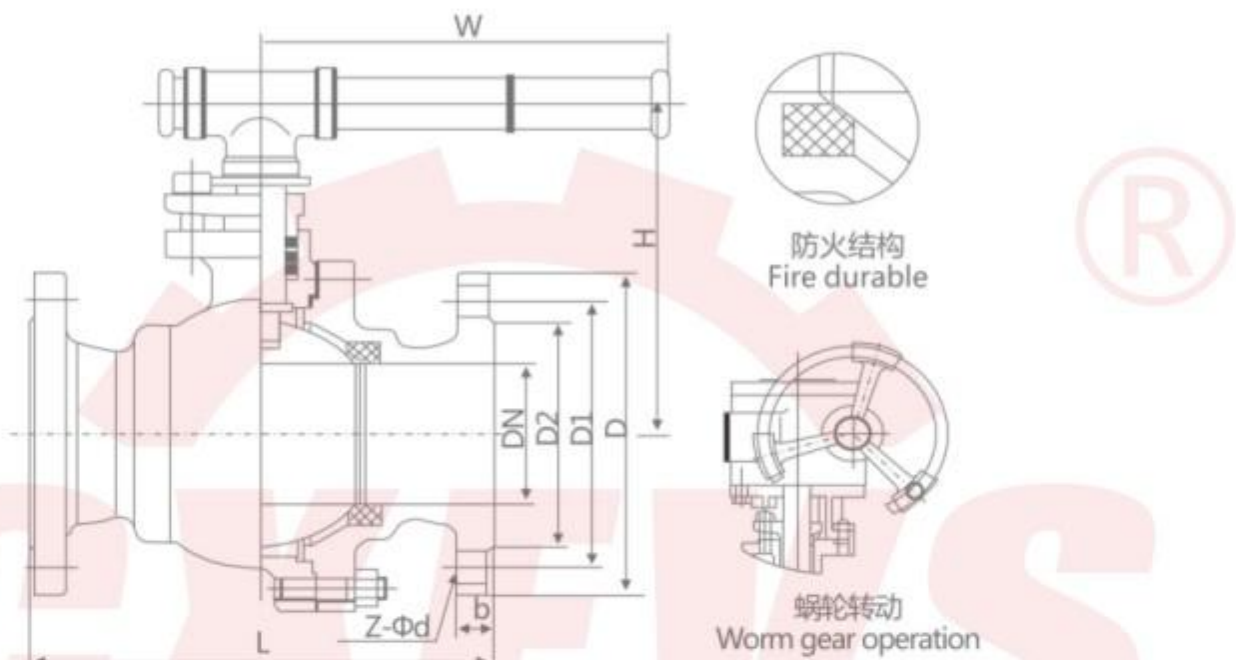


GB BALL VALVE
国标球阀

CXFVS

16
Q41F-25CPR
40
64



标准
设计与制造按GB/T12237
结构长度按GB/T12221
法兰连接尺寸按JB/T79
检验按JB/T9092

Standards
Design and manufacture as GB/T12237
Face to face dimensions as GB/T12221
End flange dimension as JB/T79
Pressure test as JB/T9092

试验压力 Test Pressure

试验项目 Test Item		壳体试验 Shell Test	密封试验 Seal Test	上密封试验 Back Seal Test	气密封试验 Air Seal Test
介质 Medium		水 Water			气 Air
单位 Unit		MPa	MPa	MPa	MPa
公称压力 Nominal Pressure PN(MPa)	1.6	2.4	1.8	1.8	0.5~0.7
	2.5	3.8	2.8	2.8	
	4.0	6.0	4.4	4.4	
	6.4	9.6	7.0	7.0	
	10.0	15.0	11.0	11.0	
	16.0	24.0	18.0	18.0	

主要零件材料 Materials for Main Parts

名称 Name	材料 Material								
阀体/阀盖 Body/Bonnet	WCB	CF3	CF8M	CF3M	CF8	LCB	WC6	WC9	C5
球体 Ball	WCB Hcr	CF3	CF8M	CF3M	CF8	CF8	CF8	CF8	CF8
阀杆 Stem	2CR13	F304L	F316	F316L	F304	F304	F304	F304	F304
阀座 Seat	PTFE/PPL								
填料/垫片 Packing/Gasket	PTFE					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								

GB BALL VALVE

国标球阀

CXFVS

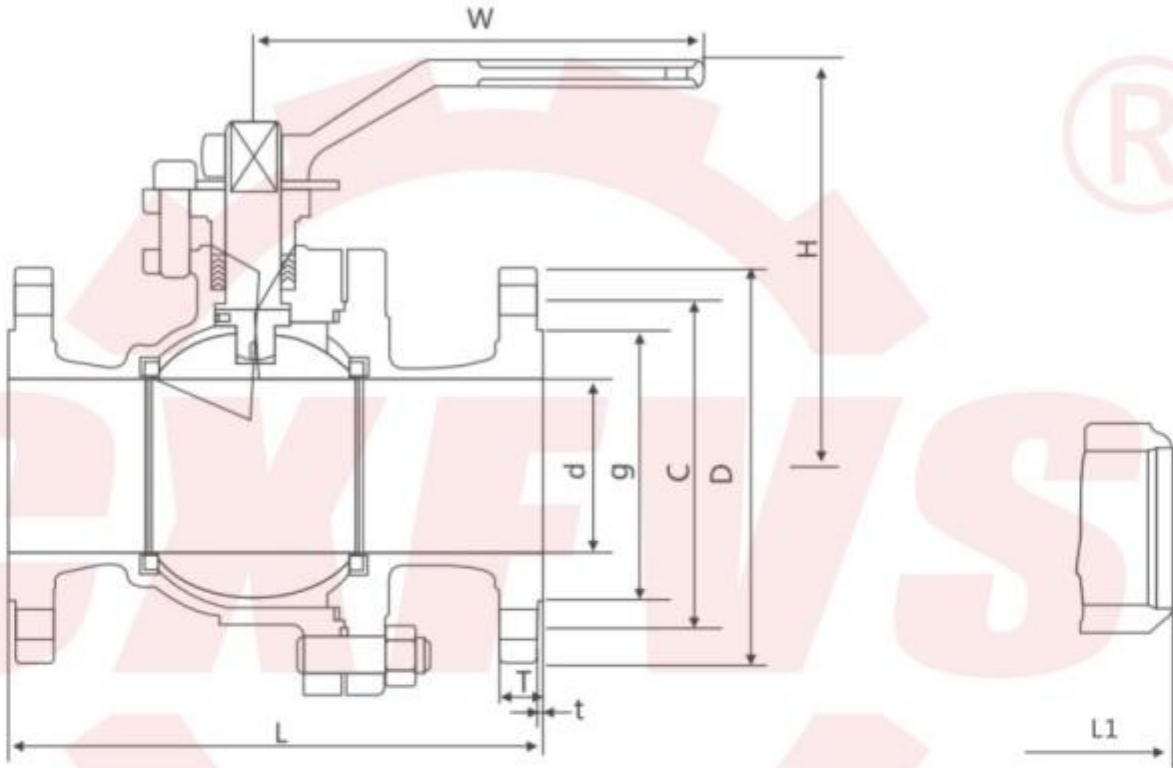
主要连接尺寸 Main Connection Dimensions

型号 Type	公称通径 DN(mm)	尺寸 Dimension(mm)								
		L	D	D1	D2	D6	b-f	z-Φd	H	W
Q41F-16	15	130	95	65	45		14-2	4-Φ14	65	115
	20	140	105	75	55		14-2	4-Φ14	75	130
	25	150	115	85	65		14-2	4-Φ14	85	150
	32	165	135	100	78		16-2	4-Φ18	95	190
	40	180	145	110	85		16-3	4-Φ18	105	230
	50	200	160	125	100		16-3	4-Φ18	115	240
	65	220	180	145	120		18-3	4-Φ18	145	280
	80	250	195	160	135		20-3	8-Φ18	160	310
	100	280	215	180	155		20-3	8-Φ18	185	330
	125	320	245	210	185		22-3	8-Φ18	215	600
	150	360	280	240	210		24-3	8-Φ23	245	800
	200	400	335	295	265		26-3	12-Φ23	300	1000
	250	450	405	355	320		30-3	12-Φ25	380	1200
Q41F-25	15	130	95	65	45		14-2	4-Φ14	65	115
	20	140	105	75	55		14-2	4-Φ14	75	130
	25	150	115	85	65		14-2	4-Φ14	85	150
	32	165	135	100	78		16-2	4-Φ18	95	190
	40	180	145	110	85		18-3	4-Φ18	105	230
	50	200	160	125	100		20-3	4-Φ18	115	240
	65	220	180	145	120		22-3	8-Φ18	145	280
	80	250	195	160	135		22-3	8-Φ18	160	310
	100	280	230	190	160		24-3	8-Φ23	185	330
	125	320	270	220	188		28-3	8-Φ25	215	600
	150	360	300	250	218		30-3	8-Φ25	245	800
	200	400	360	310	278		34-3	12-Φ25	300	1000
	250	450	425	370	332		36-3	12-Φ30	380	1200
Q41F-40	15	130	95	65	45	40	16-2	4-Φ14	70	115
	20	140	105	75	55	51	16-2	4-Φ14	80	130
	25	150	115	85	65	58	16-2	4-Φ14	90	150
	32	180	135	100	78	66	18-3	4-Φ18	100	190
	40	200	145	110	85	76	18-3	4-Φ18	110	230
	50	220	160	125	100	88	20-3	4-Φ18	120	240
	65	250	180	145	120	110	22-3	8-Φ18	150	280
	80	280	195	160	135	121	22-3	8-Φ18	170	310
	100	320	230	190	160	150	24-3	8-Φ23	190	330
	125	360	270	220	188	176	28-3	8-Φ25	220	600
	150	400	300	250	218	204	30-3	8-Φ25	250	800
	200	550	375	320	282	260	38-3	12-Φ30	390	1200
Q41F-64	15	140	105	75	55	40	18-2	4-Φ14	75	115
	20	160	125	90	68	51	20-2	4-Φ18	85	130
	25	180	135	100	78	58	22-2	4-Φ18	95	150
	32	200	150	110	82	66	24-2	4-Φ23	105	190
	40	220	165	125	95	76	24-3	4-Φ23	120	230
	50	250	175	135	105	88	26-3	4-Φ23	130	240
	65	280	200	160	130	110	28-3	8-Φ23	160	280
	80	320	210	170	140	121	30-3	8-Φ23	180	310
	100	360	250	200	168	150	32-3	8-Φ25	200	330
	125	381	295	240	202	176	36-3	8-Φ30	230	600
	150	403	340	280	240	204	38-3	8-Φ34	260	800
	200	502	405	345	300	260	44-3	12-Φ34	400	1200

API BALL VALVE
美标球阀

CXFVS

F 150LB
Q41Y - 300LB C P R
H 600LB



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-F304 ¹⁾	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+304 ²⁾ Graphite+304 ²⁾	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.

API BALL VALVE

美标球阀

CXFVS

主要连接尺寸Main connection dimensions

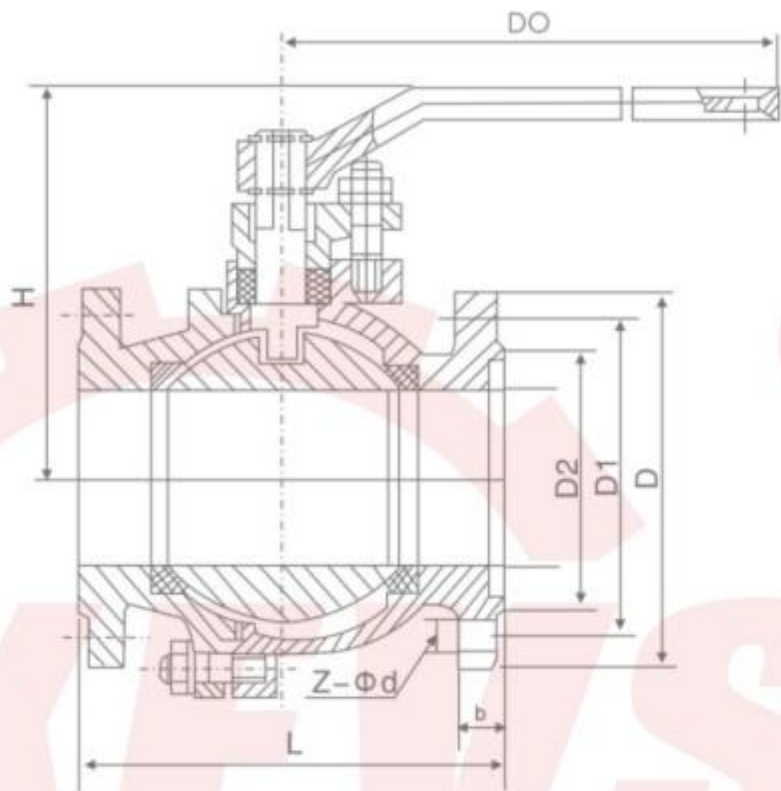
公称压力 Nominal pressure	Size	Dimensions(mm)									
	DN	d	L	D	C	g	T	t	H	W	n-Φ
class 150Lb	1/2"	15	108	89	60.5	35	12.7	1.6	87.5	142	4-15
	3/4"	20	117	98	70.0	43	12.7	1.6	87.5	142	4-15
	1"	25	127	108	79.5	51	13	1.6	91.5	142	4-15
	1 1/4"	32	140	117	89	64	14.5	1.6	107	190	4-15
	1 1/2"	40	165	127	98.5	73	15	1.6	128	200	4-15
	2"	50	178	152	120.5	92	16	1.6	136	200	4-19
	2 1/2"	65	190	178	139.5	105	18	1.6	158	300	4-19
	3"	80	203	190	152.5	127	19	1.6	196	350	4-19
	4"	100	229	229	190.5	157	24	1.6	212	700	4-19
	5"	125	256	254	215.9	186	24	1.6	252	1100	8-22
	6"	150	394	279	241.5	216	26	1.6	272	1100	8-22
	8"	200	457	343	298.5	270	29	1.6	342	1500	8-22
	10"	250	533	406	362	324	30	1.6	345	1500	12-25
	12"	305	610	483	432	381	32	1.6	385		12-25
	14"	337	686	535	476	413	35	1.6	430		12-29
	16"	387	762	597	540	470	37	1.6	470		16-29
	18"	489	914	698	635	582	43	1.6	590		20-32

公称压力 Nominal pressure	Size	Dimensions(mm)									
	DN	d	L	D	C	g	T	t	H	W	n-Φ
class 300Lb	1/2"	15	140	95	66.5	35	15	1.6	87.5	142	4-15
	3/4"	20	152	117	82.5	43	16	1.6	87.5	142	4-15
	1"	25	165	124	89.0	51	18	1.6	91.5	142	4-19
	1 1/4"	32	178	133	98.5	64	19	1.6	107	190	4-19
	1 1/2"	40	190	156	114.5	73	21	1.6	128	200	4-22
	2"	50	216	165	127	92	23	1.6	136	200	8-19
	2 1/2"	65	241	190	149	105	26	1.6	158	300	8-22
	3"	80	283	210	168.5	127	29	1.6	202	350	8-22
	4"	100	305	254	200	157	32	1.6	218	700	8-22
	5"	125	381	279	235	186	35	1.6	252	1100	8-22
	6"	150	403	318	270	216	37	1.6	272	1100	12-22
	8"	200	502	381	330	270	41	1.6	342	1500	12-25
	10"	250	568	444	387.5	324	48	1.6	345	1500	16-29
	12"	305	610	483	432	381	51	1.6	385		12-25
class 600Lb	1/2"	15	165	95	66.5	35	15	6.4	59	160	4-16
	3/4"	20	190	117	82.5	43	16	6.4	63	160	4-19
	1"	25	216	124	89.0	51	18	6.4	75	230	4-19
	1 1/4"	32	229	133	98.5	64	21	6.4	85	300	4-19
	1 1/2"	40	241	156	114.5	73	22.3	6.4	95	400	4-22
	2"	50	292	165	127	92	25.4	6.4	107	700	8-19
	4"	100	432	273	216	157.2	38	6.4	178	1100	8-25
	5"	125	491	330	267	186	44.5	6.4	225	1100	8-29
	6"	152	559	356	282	216	47.2	6.4	250	1500	12-29
	8"	203	660	419	349	282	55.7	6.4	294	1500	12-32

JIS BALL VALVE
日标球阀

CXFVS

Q41F-10K
20



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

规格主要尺寸 Main size

DN		10K							
mm	in	L	D	D1	D2	b	Z-Φd	H	D0
15	1/2"	108	95	70	52	12	4-Φ15	59	130
20	3/4"	117	100	75	58	14	4-Φ15	63	130
25	1"	127	125	90	70	14	4-Φ19	75	160
32	1 1/4"	140	135	100	80	16	4-Φ19	75	160
40	1 1/2"	165	140	105	85	16	4-Φ19	95	230
50	2"	178	155	120	100	16	4-Φ19	107	230
65	2 1/2"	190	175	140	120	18	4-Φ19	142	400
80	3"	203	185	150	130	18	8-Φ19	152	400
100	4"	229	210	175	155	18	8-Φ19	178	700
125	5"	356	250	210	185	20	8-Φ23	252	1100
150	6"	394	280	240	215	22	8-Φ23	272	1100
200	8"	457	330	290	265	22	12-Φ23	342	1500

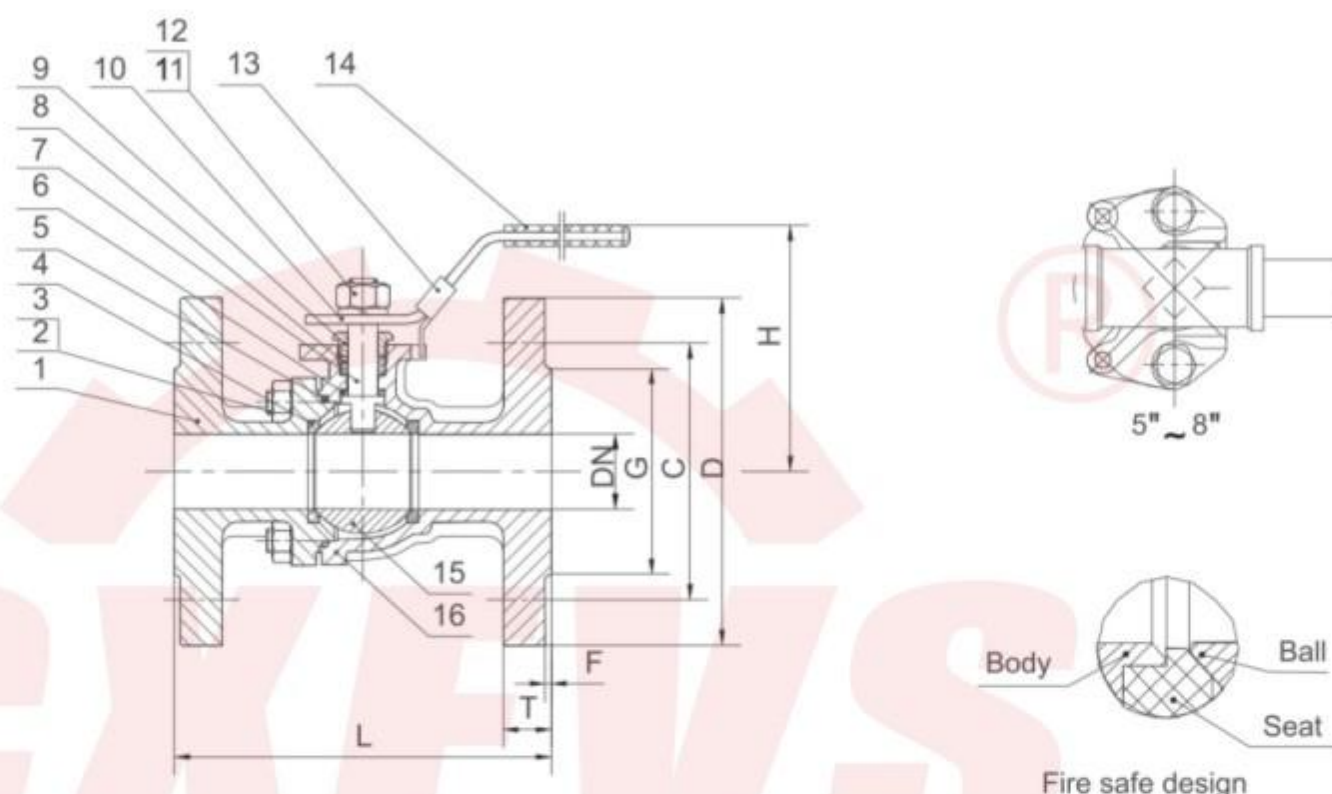
DN		20K							
mm	in	L	D	D1	D2	b	Z-Φd	H	D0
15	1/2"	140	95	70	52	14	4-Φ15	59	130
20	3/4"	152	100	75	58	16	4-Φ15	63	130
25	1"	165	125	90	70	16	4-Φ19	75	160
32	1 1/4"	178	135	100	80	18	4-Φ19	75	160
40	1 1/2"	190.5	140	105	85	18	4-Φ19	95	230
50	2"	216	155	120	100	18	8-Φ19	107	230
65	2 1/2"	241	175	140	120	20	8-Φ19	142	400
80	3"	283	200	160	135	22	8-Φ22	152	400
100	4"	305	225	185	160	24	8-Φ22	178	700
125	5"	381	270	225	195	26	8-Φ22	252	1100
150	6"	403	305	260	230	28	12-Φ22	272	1100
200	8"	502	350	305	275	30	12-Φ25	342	1500

DIN BALL VALVE

德标球阀

CXFVS

Q41F-16



特点 FEATURES

防爆阀杆 Blow-out Proof Stem
防静电装置 Anti-Static Device for Ball-Stem-Body
精密铸造阀体 Investment Casting Body
球槽泄压孔 Pressure Balance Hole in Ball Slot
带 ISO5211 安装平台 ISO 5211 Mounting Pad for Easy Automation
手柄带锁选配 Locking Device Available

标准 STANDARD

设计 Design : ASME B16.34, API 608
壁厚 Wall Thickness : ASME B16.34, EN12516-3
防火设计 Fire Safe Design Acc : API 607
法兰端 Flange End : DIN PN10-PN40
检测和试验 Inspection & Testing : API 598, EN12266

主要零件材料 Main components material

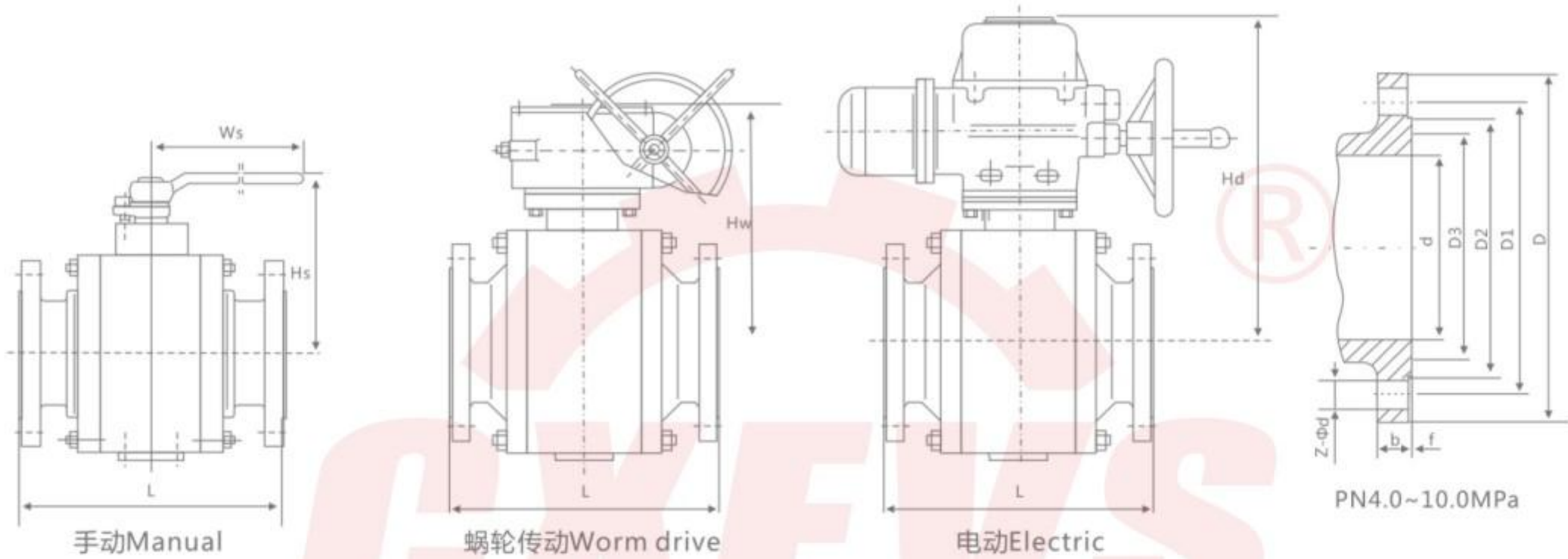
No.	Parts Name	Material	No.	Parts Name	Material
1	阀盖 End cap	CF8/CF8M	9	填料压盖 Packing Gland	SS304
2	螺母 Nut	ASTM A193-B8	10	手柄 Handle	SS304
3	螺栓 Stud	ASTM A193-B8	11	弹垫 Spring washer	SS304
4	阀座 Seat	PTFE/RPTFE	12	螺母 Nut	ASTM A193-B8
5	止推垫 Stem gasket	PTFE	13	锁块 Handle lock	SS304
6	密封垫 Gasket	PTFE	14	皮套 Handle sleeve	PLASTIC
7	阀杆 Stem	SS304/SS316	15	球体 Ball	SS304/SS316
8	填料 Packing	PTFE	16	阀体 Body	CF8/CF8M

主要外形及连接尺寸 Main external and connection dimension

Size(Inch)	DN	D	C	G	T	F	L	H	M-N	ISO 5211
1/2"	15	95	65	45	16	2	115	70	4-14	F03
3/4"	20	105	75	58	18	2	120	75	4-14	F04
1"	25	115	85	68	18	2	125	85	4-14	F04
1 1/4"	32	140	100	78	18	2	130	95	4-18	F04
1 1/2"	40	150	110	88	18	3	140	100	4-18	F05
2"	50	165	125	102	20	3	150	120	4-18	F07
2 1/2"	65	185	145	122	18	3	170	130	4-18	F07
3"	80	200	160	138	20	3	180	150	8-18	F07
4"	100	220	180	158	20	3	190	165	8-18	F07
5"	125	250	210	188	22	3	325	180	8-18	F12
6"	150	285	240	212	22	3	350	200	8-22	F12
8"	200	340	295	268	24	3	400	230	12-22	F12

GB FORGED STEEL BALL VALVE
国标锻钢球阀

CXFVS



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。

执行标准 Implementation of standards

- 1、设计和制造 Design and manufacture: GB/T 12237-1989; API 608
- 2、检验和试验 Inspection and test: GB/T 13927-1992; API 598
- 3、法兰连接 Flange connection: JB/T 79.1 ~ 4-1994; ASME/ANSI B 16.5
- 4、结构长度 Structure length: GB/T 12221-1989; GB/T 15188.1-1994; 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 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.

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/表面特殊处理 Special surface treatment	1Cr18Ni9Ti/表面特殊处理 Special surface treatment		0Cr18Ni12Mo2Ti/表面特殊处理 Special surface treatment		25Cr2Mo1V/表面特殊处理 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

GB FORGED STEEL BALL VALVE

国标锻钢球阀

CXFVS

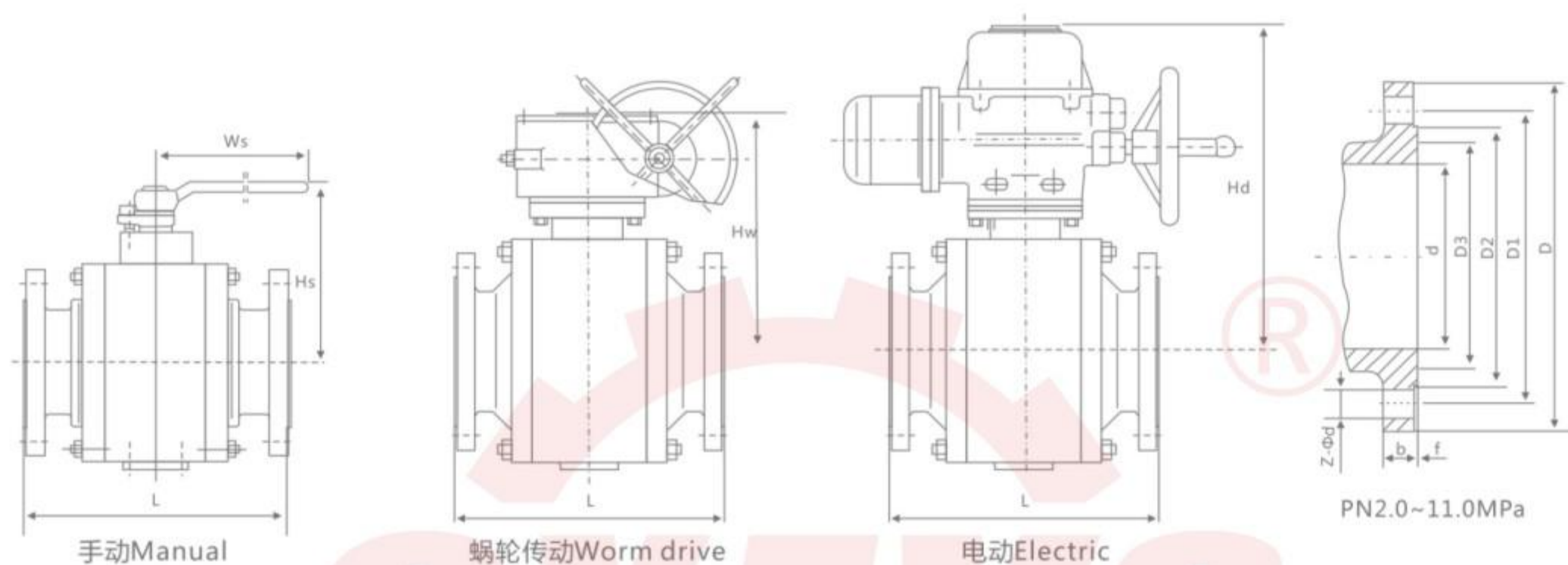
主要连接尺寸 Main connection dimensions

压力等级 PN	公称直径 DN	尺寸Size (mm)								
		L	d	D	D ₁	D ₂	D ₃	b	f	Z-Φd
PN16	15	130	14	95	65	45	-	14	2	4-Φ14
	20	140	19	105	75	55	-	14	2	4-Φ14
	25	150	25	115	85	65	-	14	2	4-Φ14
	32	165	32	135	100	78	-	16	2	4-Φ18
	40	180	38	145	110	85	-	16	3	4-Φ18
	50	200	51	160	125	100	-	16	3	4-Φ18
	65	220	64	180	145	120	-	18	3	4-Φ18
	80	250	76	195	160	135	-	20	3	8-Φ18
	100	280	102	215	180	155	-	20	3	8-Φ18
	125	320	127	245	210	185	-	22	3	8-Φ18
	150	360	152	280	240	210	-	24	3	8-Φ23
	200	400	203	335	295	265	-	26	3	12-Φ23
	250	457	-	405	355	320	-	30	3	12-Φ25
PN25	15	130	14	95	65	45	-	16	2	4-Φ14
	20	140	19	105	75	55	-	16	2	4-Φ14
	25	150	25	115	85	65	-	16	2	4-Φ14
	32	165	32	135	100	78	-	18	2	4-Φ18
	40	180	38	145	110	85	-	18	3	4-Φ18
	50	200	51	160	125	100	-	20	3	4-Φ18
	65	220	64	180	145	120	-	22	3	8-Φ18
	80	250	76	195	160	135	-	22	3	8-Φ18
	100	280	102	230	190	160	-	24	3	8-Φ23
	125	320	127	270	220	188	-	28	3	8-Φ25
	150	360	152	300	250	218	-	30	3	8-Φ25
	200	400	203	360	310	278	-	34	3	12-Φ25
	250	457/533	-	425	370	332	-	36	3	12-Φ30
PN40	15	130	14	95	65	45	40	16	2	4-Φ14
	20	140	19	105	75	55	51	16	2	4-Φ14
	25	150	25	115	85	65	58	16	2	4-Φ14
	32	180	32	135	100	78	66	18	2	4-Φ18
	40	200	38	145	110	85	76	18	3	4-Φ18
	50	220	51	160	125	100	88	20	3	4-Φ18
	65	250	64	180	145	120	110	22	3	8-Φ18
	80	280	76	195	160	135	121	22	3	8-Φ18
	100	320	102	230	190	160	150	24	3	8-Φ23
	125	400	127	270	220	188	176	28	3	8-Φ25
	150	400	152	300	250	218	204	30	3	8-Φ25
	200	457	203	375	320	282	260	38	3	12-Φ30
	250	457/533	-	445	385	345	-	42	3	12-Φ34
PN63	15	140	14	105	75	55	40	18	2	4-Φ14
	20	152	19	125	90	68	51	20	2	4-Φ18
	25	165	25	135	100	78	58	22	2	4-Φ18
	32	178	32	150	110	82	66	24	2	4-Φ23
	40	190	38	165	125	95	76	24	3	4-Φ23
	50	216	51	175	135	105	88	26	3	4-Φ23
	65	241	64	200	160	130	110	28	3	8-Φ23
	80	283	76	210	170	140	121	30	3	8-Φ23
	100	305	102	250	200	168	150	32	3	8-Φ25
PN100	15	165	14	105	75	55	40	20	2	4-Φ14
	20	190	19	125	90	68	51	22	2	4-Φ18
	25	216	25	135	100	78	58	24	2	4-Φ18
	32	229	32	150	110	82	66	24	2	4-Φ23
	40	241	38	165	125	95	76	26	3	4-Φ23
	50	292	51	195	145	112	88	28	3	4-Φ25
	65	330	64	220	170	138	110	32	3	8-Φ25
	80	356	76	230	180	148	121	34	3	8-Φ25
	100	432	102	265	210	172	150	38	3	8-Φ30

API FORGED STEEL BALL VALVE

美标锻钢球阀

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主要连接尺寸 Main connection dimensions

压力等级	公称直径		d	法兰式		对接焊	凸面法兰					
Class	NPS	DN		L(RF)	L(RTJ)	L(BW)	D	D1	D2	f	b	N-Φd
Class150 2.0Mpa	1/2"	15	13	108	-	140	90	60.5	35	2	9	4-Φ15
	3/4"	20	19	117	-	152	100	70	43	2	10	4-Φ15
	1"	25	25	127	-	165	110	79.5	51	2	11	4-Φ15
	1 1/4"	32	32	140	-	178	115	89	64	2	11	4-Φ15
	1 1/2"	40	38	165	-	190	125	98.5	73	2	13	4-Φ15
	2"	50	50	178	191	216	150	120.5	92	2	14.5	4-Φ19
	3"	80	75	203	216	283	190	152.5	127	2	17.5	4-Φ19
	4"	100	100	229	241	305	230	190.5	157	2	22.5	8-Φ19
	6"	150	150	394	406	457	280	241.5	216	2	24	8-Φ22
Class300 5.0Mpa	1/2"	15	13	140	-	140	95	66.5	35	2	13	4-Φ15
	3/4"	20	19	152	-	152	115	82.5	43	2	14.5	4-Φ19
	1"	25	25	165	-	165	125	89	51	2	16	4-Φ19
	1 1/4"	32	32	178	-	178	135	98.5	64	2	17.5	4-Φ19
	1 1/2"	40	38	190	-	190	155	114.5	73	2	19.5	4-Φ22
	2"	50	50	216	232	216	165	127	92	2	21	8-Φ19
	3"	80	75	283	298	283	210	168.5	127	2	27	8-Φ22
	4"	100	100	305	321	305	255	200	157	2	30.5	8-Φ22
	6"	150	150	403	419	457	320	270	216	2	35	12-Φ22
Class600 11.0Mpa	1/2"	15	13	165	-	165	95	66.5	35	7	14.5	4-Φ15
	3/4"	20	19	190	-	190	115	82.5	43	7	16	4-Φ19
	1"	25	25	216	-	216	125	89	51	7	17.5	4-Φ19
	1 1/4"	32	32	229	-	229	135	98.5	64	7	21	4-Φ19
	1 1/2"	40	38	241	-	241	155	114.5	73	7	22.5	4-Φ22
	2"	50	50	292	295	292	165	127	92	7	26	8-Φ19
	3"	80	75	356	359	356	210	168.5	127	7	32	8-Φ22
	4"	100	100	432	435	432	275	216	157	7	38.5	8-Φ25

FIXED BALL VALVE

固定球阀

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执行标准 Implementation of standards

- 1、设计和制造 Design and manufacture : GB/T 12237-1989; API 608
- 2、检验和试验 Inspection and test : GB/T 13927-1992; API 598
- 3、法兰连接 Flange connection : JB/T 79.1 ~ 2-1994; ASME/ANSI B 16.5
- 4、结构长度 Structure length : GB/T 12221-1989; 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	适用温度 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℃	

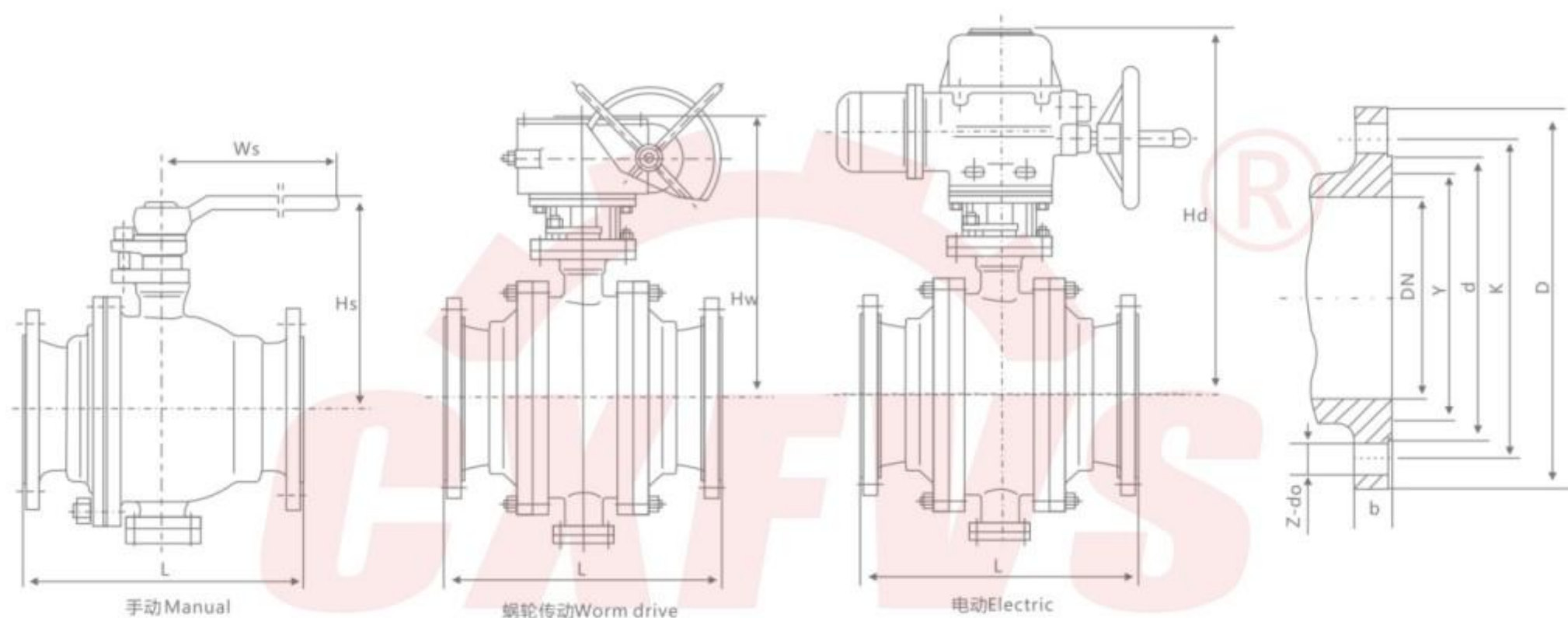
主要零件材料 Main components material

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

FIXED BALL VALVE

固定球阀

CXFVS



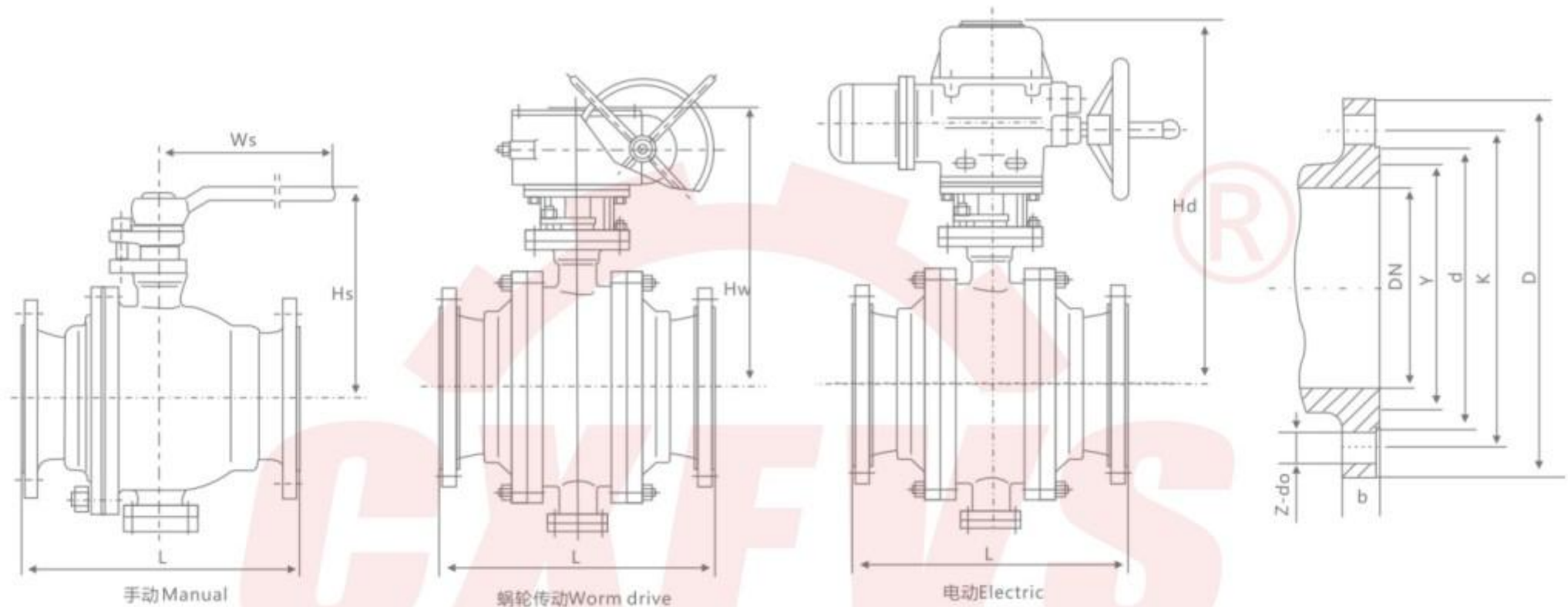
主要连接尺寸 Main connection dimensions

公称压力 PN	公称通径 DN	尺寸Size (mm)										
		L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd
1.6MPa	150	394	280	240	210	-	22	8-23	1000	305	470	540
	200	457	335	295	265	-	24	12-23	-	-	520	580
	250	533	405	355	320	-	26	12-25	-	-	610	640
	300	610	460	410	375	-	28	12-25	-	-	650	690
	350	686	520	470	435	-	32	16-25	-	-	740	785
	400	762	580	525	485	-	36	16-30	-	-	795	830
	450	864	640	585	545	-	38	20-30	-	-	860	910
	500	914	705	650	608	-	42	20-34	-	-	945	990
	600	1067	840	770	718	-	46	20-41	-	-	1040	1090
	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
2.5MPa	150	403	300	250	218	-	30	8-25	1000	305	470	555
	200	502	360	310	278	-	34	12-25	-	-	540	595
	250	568	425	370	332	-	36	12-30	-	-	630	655
	300	648	485	430	390	-	40	16-30	-	-	650	705
	350	762	550	490	448	-	44	16-34	-	-	740	795
	400	838	610	550	505	-	48	16-34	-	-	795	830
	450	914	660	600	555	-	50	20-34	-	-	860	910
	500	991	730	660	610	-	52	20-41	-	-	945	990
	600	1143	840	770	718	-	56	20-41	-	-	1040	1090
	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 BALL VALVE

固定球阀

CXFVS



主要连接尺寸 Main connection dimensions

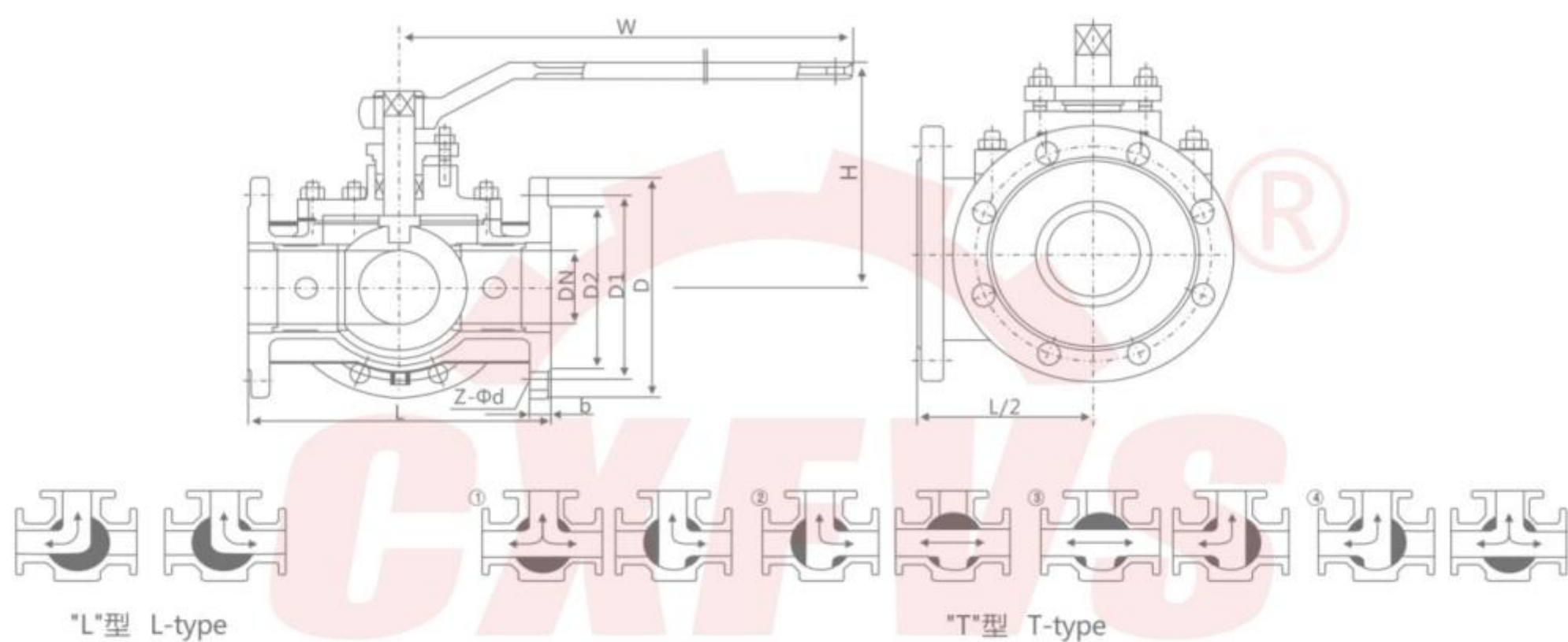
公称压力 PN(MPa)	公称通径 DN(mm)	尺寸Size (mm)										
		L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd
Class 150	2"	178	152	120.7	92	-	14.3	4-19	260	155	-	-
	2 1/2"	190	178	139.7	105	-	15.9	4-19	350	185	-	-
	3"	203	190	152.4	127	-	17.5	4-19	500	205	-	-
	4"	229	229	190.5	157	-	22.3	8-19	650	255	390	500
	5"	356	254	215.9	186	-	22.3	8-22.5	800	285	410	520
	6"	394	279	241.3	216	-	23.9	8-22.5	1000	305	470	540
	8"	457	343	298.5	270	-	27.0	8-22.5	-	-	520	580
	10"	533	406	362	324	-	28.6	12-25.5	-	-	610	640
	12"	610	483	431.8	381	-	30.2	12-25.5	-	-	650	690
	14"	686	533	476.3	413	-	33.4	12-28.5	-	-	740	785
	16"	762	597	539.8	470	-	35.0	16-28.5	-	-	795	830
	18"	864	635	577.9	533	-	38.1	16-32	-	-	860	910
	20"	914	699	635.0	584	-	41.3	20-32	-	-	945	990
	24"	1067	813	749.3	692	-	46.1	20-35	-	-	1040	1090
	28"	1245	927	864	800	-	71	28-35	-	-	1150	1210
	32"	1372	1060	978	914	-	81	28-41	-	-	1280	1340
Class 300	2"	216	165	127	92	-	20.7	8-19	260	155	-	-
	2 1/2"	241	190	149.2	105	-	23.9	8-22.5	350	185	-	-
	3"	282	210	168.3	127	-	27.0	8-22.5	500	205	-	-
	4"	305	254	200	157	-	30.2	8-22.5	800	270	410	530
	5"	381	279	235	186	-	33.4	8-22.5	1000	305	470	560
	6"	403	318	269.9	216	-	35.0	12-22.5	1200	340	485	590
	8"	502	381	330.2	270	-	39.7	12-25.5	-	-	580	640
	10"	568	445	387.4	324	-	46.1	16-28.5	-	-	665	680
	12"	648	521	450.8	381	-	49.3	16-32	-	-	760	810
	14"	762	584	514.4	413	-	52.4	20-32	-	-	820	890
	16"	838	648	571.5	470	-	55.6	20-35	-	-	860	940
	18"	914	711	628.5	533	-	58.8	24-35	-	-	930	1010
	20"	991	775	685.8	584	-	62.0	24-35	-	-	980	1130
Class 600	2"	292	165	127	108	-	25.4	8-19	350	175	-	-
	2 1/2"	330	190	149.2	127	-	28.6	8-22.5	500	200	-	-
	3"	356	210	168.3	146	-	31.8	8-22.5	650	235	-	-
	4"	432	273	215.9	175	-	38.1	8-25.5	1000	275	395	550
	5"	508	330	266.7	210	-	44.5	8-28.5	1200	325	430	580
	6"	559	356	292.1	241	-	47.7	12-28.5	-	-	495	620
	8"	660	419	349.2	302	-	55.6	12-32	-	-	595	680
	10"	787	508	431.8	356	-	63.5	16-35	-	-	680	740
	12"	838	559	489.0	413	-	66.7	20-35	-	-	790	850

THREE-WAY BALL VALVE

三通球阀

CXFVS

Q4⁴₅F-16C、P、R



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

公称通径 DN	主要外形尺寸和连接尺寸(mm) Main external and connection dimensions								WT(kg)
	L	D	D1	D2	b	Z-Φd	H	W	
Q4 ⁴ ₅ F-16C、P、R									
15	150	95	65	45	14	4-Φ14	95	140	4
20	160	105	75	55	14	4-Φ14	105	160	8
25	180	115	85	65	14	4-Φ14	113	180	7
32	200	135	100	78	16	4-Φ18	135	250	12
40	220	145	110	85	16	4-Φ18	142	300	15
50	240	160	125	100	16	4-Φ18	165	350	20
65	260	180	145	120	18	4-Φ18	175	350	25
80	280	195	160	135	20	8-Φ18	190	400	36
100	320	215	180	155	20	8-Φ18	225	500	51
125	380	245	210	185	22	8-Φ18	245	600	77
150	440	280	240	210	24	8-Φ23	265	800	108
200	550	335	295	265	26	12-Φ23	305	800	126
250	670	405	355	320	30	12-Φ25	370	1300	185

THREE-WAY BALL VALVE
三通球阀

CXFVS

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

公称通径 DN	主要外形尺寸和连接尺寸(mm) Main external and connection dimensions								WT(kg)
	L	D	D1	D2	D6	b	Z-Φd	H	
Q4 ⁴ ₅ F-25C、P、R									
15	150	95	65	45	16	4-Φ14	95	100	4
20	160	105	75	55	16	4-Φ14	105	160	5
25	180	115	85	65	16	4-Φ14	113	160	8
32	200	135	100	78	18	4-Φ18	135	250	13
40	220	145	110	85	18	4-Φ18	142	250	19
50	240	160	125	100	20	4-Φ18	154	350	27
65	260	180	145	120	22	8-Φ18	175	350	33
80	280	195	160	135	22	8-Φ18	190	450	40
100	320	230	190	160	24	8-Φ23	225	450	53
125	380	270	220	188	28	8-Φ25	245	600	86
150	440	300	250	218	30	8-Φ25	265	800	113
200	550	360	310	278	34	12-Φ25	305	1200	133
250	670	425	370	332	36	12-Φ30	370	1400	219

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

公称通径 DN	主要外形尺寸和连接尺寸(mm) Main external and connection dimensions								WT(kg)
	L	D	D1	D2	D6	b	Z-Φd	H	
Q4 ⁴ ₅ F-40C、P、R									
15	180	95	65	45	40	16	4-Φ14	100	4
20	190	105	75	55	51	16	4-Φ14	160	5
25	200	115	85	65	58	16	4-Φ14	160	8
32	210	135	100	78	66	18	4-Φ18	250	13
40	230	145	110	85	76	18	4-Φ18	250	19
50	250	160	125	100	88	20	4-Φ18	350	27
80	310	195	160	135	121	22	8-Φ18	450	40
100	350	230	190	160	150	24	8-Φ23	450	53
125	381	270	220	188	176	28	8-Φ25	600	86
150	403	300	250	218	204	30	8-Φ25	800	113
200	502	375	320	282	260	38	12-Φ30	1200	133
250	568	445	385	345	313	42	12-Φ34	1400	219