



FREE-VALVE

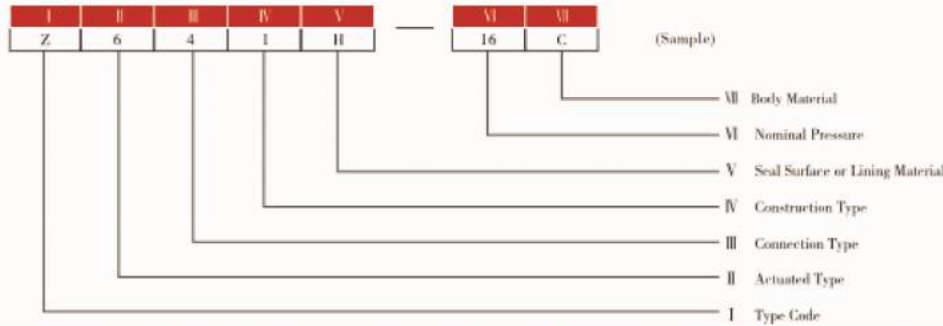
科技化、专业化、国际化
Scientific, Professional and International



ADD: No.93 Zizhu Road, High-Tech Development Zone, Zhengzhou City, Henan, China
TEL: +86 371-55019379, +86 13523029957
Email: sales@free-valve.com
<http://www.free-valve.com>

郑州孚瑞流体控制技术有限公司
Zhengzhou Free Fluid Control Technology Co., Ltd

How to order



Code	0	1	2	3	4	5	6	7	8	9	
II - Actuated Type	Electric actuator	Electric solenoid	Diaphragm actuator	Gear	Star gear	Angle gear	Diaphragm	Hydraulic	Diaphragm actuator	Electrical	
III - Connection Type	-	Flange series	Double series	-	Clange	-	Welding	Welding	Inserting	Compensation type	
I - Type Code	W - Construction Type										
Gate Valve	Z	Rising stem				Non-rising stem				-	
		Wedge type		Parallel type		Wedge type		Parallel type			
Globe Valve	J	Flexible	Single	Double	Single	Double	Single	Double	Single	Double	-
			Rigid disc				Balance type				
Throttle Valve	L	-	Through way	Z-Type	Yes	Angled	Straight flow	Through way	Right-angled	-	-
Blow Valve	U	-	-	-	-	-	-	-	-	-	-
Ball Valve	Q	Ball-full through-way	Floating type				Transmission-mounted				
			Through way	Y-Pattern Tee	-	Yes	Four-way	through way	Yes	Yes	
Butterfly Valve	D	Non-seal tri-eccentric	Seal type						Non-seal type		
			Center line-type	Single-eccentric	Bi-eccentric	Link mechanism	Tri-eccentric	Center line-type	Bi-eccentric	Link mechanism	Tri-eccentric
Diaphragm Valve	G	-	Weir type	-	Globe type	-	Y-pattern	Through way type	-	Y-pattern angle type	-
Plug Valve	X	-	Parking seal						Lubricate seal		
			Through way type	T-pattern Tee	Four-way type	-	Through way type	Tee T-type	-	-	-
Check Valve	H	-	Lift type			Spring type			Globe check		
			Thru-way	Vertical type	Angle type	Single-plate	Double disc	Multi-disc	Rotary type	Interferly	-
Safety Valve	A	Full lift with cooling fin	Spring seal type			Spring unseal			Spring unseal		
			Low lift	Full lift	-	Spanner type	-	Lever	Full lift with control	Low lift	Full lift
Boehing Valve	V	-	Diaphragm	Spring diaphragm	Piston	Bellows	Lever	-	-	-	-
Trap Valve	S	-	Ball float	-	Open bucket	Expansion	Inverted bucket type	Metallic float	Bimetal elements	Pulse	Hot-motive force
Waste Valve	P	-	Continuous Discharge			Disc unseal discharge			-		
			Through way type	Angle type	-	Single float type	Through way type	Angle type	Hot gate the type	-	-

Seal surface material	Code	Seal surface material	Code
Balloon metal	B	Nylon plastic	N
Enamel	C	Brassing steel	P
Nitrided steel	D	Lead lining	Q
Fluoropolymer	F	Mo2Ti series SS	R
Ceramic metal	G	Plastic	S
Cr13 series SS	H	Copper alloy	T
Rubber lined	J	Rubber	X
Steel metal	M	Stellite	Y

W - Body material	Code	W - Body material	Code
Titanium/Titanium alloy	T1	Splendid cast iron	Q
Carbon steel	C	Mo2Ti series SS	B
Cr13 series SS	H	Plastic	S
Cr-Mo steel	J	Copper/Copper Alloy	T
Malleable iron	K	Cr-Mo-V steel	V
Aluminum alloy	L	Gray cast iron	Z
DK-8 series SS	P	-	-

Remark: 1. Omit the code if body material is gray cast iron body when PN ≤ 1.6MPa and is carbon steel body when PN ≥ 2.5MPa.
2. CF3, CF8, CF3M, CF8M etc material code can direct mark on body.



产品执行标准 Production enforce standard

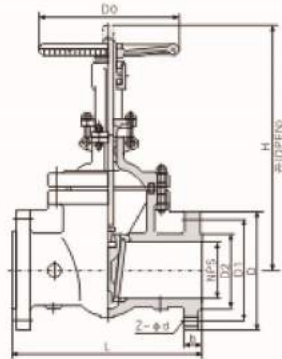
设计与制造 Design And Manufacture	结构长要 Face to face/End to end	法兰尺寸 Flange Dimension	对接连接尺寸 Butt welding dimension	压力-温度 Pressure-Temperature Rating	试验-检验 Inspection and test
API 6D, 600	ANSI B16.10	ANSI B16.5	ANSI B16.25	ANSI B16.34	API 598, API 6D

产品性能规范 Chief property and specification

公称压力/Lb Nominal Pressure	强度试验 Shell test		水密封试验 Water seal test		气密封试验 Air seal test	
	MPa	Lbf/in ²	MPa	Lbf/in ²	MPa	Lbf/in
150	3.1	450	2.2	315	0.5-0.7	60-100
300	7.8	1125	5.6	815		
600	15.3	2225	11.2	1630		
900	23.1	3350	16.8	2440		
1500	38.4	5575	28.1	4080		
2500	64.6	9367	47.4	6873		

主要零件材料及性能 Main part materials and property

体、盖、罩 Body/Cover/disc	阀杆 Stem	密封面 Sealing Face	垫片(环) Sealing shim	填料 Packing	工作温度(°C) Working temperature	适用介质 Suitable medium	
WCB	2Cr13	13Cr STL 本体材料 With body material PTFE 尼龙 Nylon	增强柔性石墨 13Cr柔性石墨 Enhanced Flexible 1Cr13/Flexible graphite SFB-2 08软钢 08Soft steel F304 F316 F304L F316L	柔性石墨 Flexible graphite enhanced flexible graphite	≤425	水、蒸汽、油品 Water Steam Oil	
WC1	38CrMoAl 25Cr2MoV				≤450		
WC6					≤540		
WC9					≤570		
C5 C12	F304 F316 F304L F316L			≤540	SFB/260 SFP/260 PTFE	≤600	硝酸、醋酸、尿素 Nitric acid Acetic acid Urea
CF8				F304 F316 F304L F316L		≤600	
CF3						≤600	
CF8M	F304L						
CF3M	F316L						



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

单位Unit: mm

磅级 Class	规格 in	通径 DN	单位 Unit	L	取全开 OPEN	D	D1	D2	b	Z-φd	D0
150 Lb	2	50	in	7.00	16.10	6.00	4.75	3.62	0.75	4-0.75	8.00
			mm	178	409	152	120.5	92	19.1	4-19	200
	3	80	in	8.00	20.00	7.50	6.00	5.00	0.94	4-0.75	1.00
			mm	203	570	90	152.5	127	23.9	4-19	250
	4	100	in	9.00	23.20	9.00	7.50	6.19	0.94	8-0.75	10.00
			mm	229	590	229	195.5	157	23.9	8-19	250
	6	150	in	10.50	24.80	11.00	9.50	8.50	1.00	8-0.88	12.00
			mm	267	630	279	241.5	216	25.4	8-22	300
	8	200	in	11.50	37.80	13.50	11.75	10.62	1212	8-0.88	3.88
			mm	292	960	343	298.5	270	28.5	8-22	350
	10	250	in	13.00	45.60	16.00	14.25	12.75	119	12-1.00	15.70
			mm	330	1158	406	362	324	30.2	12-25	400
	12	300	in	14.00	54.30	19.00	17.00	15.00	1.25	12-1.00	17.70
			mm	356	1378	483	432	381	31.8	12-25	450
	14	350	in	15.00	60.75	21.00	18.75	16.25	1.38	12-1.12	19.70
			mm	381	1543	533	476.5	413	35	12-29	500
	16	400	in	16.00	68.40	23.50	21.25	18.50	1.44	16-1.12	23.60
			mm	406	1738	597	539.5	470	36.6	16-29	600
	18	450	in	17.00	74.10	25.00	22.75	21.00	1.56	16-1.25	23.60
			mm	432	1959	635	578	533	39.7	16-23	600
	20	500	in	18.00	87.20	27.50	25.00	23.00	1.69	20-1.25	26.80
			mm	457	2214	698	635	584	42.9	20-32	680
	24	600	in	20.00	102.3	32.00	29.50	27.25	1.88	20-1.38	29.90
			mm	508	2599	813	749.5	692	47.7	20-38	760
30	750	in	24.00	125.3	38.75	36.00	33.75	2.94	28-1.38	36.00	
		mm	610	3183	985	914	857	74.5	28-35	915	
36	900	in	28.00	147.00	46.00	42.75	40.25	3.56	32-1.62	36.00	
		mm	711	3737	1170	1086	1022	90.5	32-41	915	

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

单位Unit: mm

磅级 Class	规格 in	通径 DN	单位 Unit	L	取全开 OPEN	D	D1	D2	b	Z-φd	D0
300Lb	2	50	in	8.50	16.70	6.5	5.00	3.62	0.88	8-0.75	8.0
			mm	216	424	165	127	92	22.3	8-19	200
	3	80	in	11.15	21.00	8.25	6.62	5.00	1.12	8-0.88	10
			mm	283	535	210	168	127	28.5	8-22	250
	4	100	in	12.00	24.20	10.0	7.88	6.19	1.25	8-0.88	10
			mm	305	615	254	200	157	31.8	8-22	250
	6	150	in	15.87	31.30	12.50	10.62	8.50	1.44	8-0.88	14
			mm	403	795	318	270	216	36.6	12-22	350
	8	200	in	16.50	39.90	15.0	13.0	10.62	1.62	12-1.0	15.7
			mm	419	1012	381	330	270	41.3	12-25	400
	10	250	in	18.00	48.50	17.50	15.25	12.75	1.88	16-1.12	17.7
			mm	457	1231	444	387.5	324	47.7	16-29	450
	12	300	in	19.75	57.0	20.50	17.75	15.00	2.00	16-1.25	19.7
			mm	502	1450	521	451	381	50.8	16-32	500
	14	350	in	30.00	64.8	23.00	20.25	16.25	2.12	20-1.25	23.6
			mm	762	1645	584	514.5	413	54.0	20-32	600
	16	400	in	33.00	72.50	25.50	20.25	18.50	2.25	20-1.38	23.6
			mm	838	1814	648	571.5	470	57.2	20-35	600
	18	450	in	36.00	76.50	28.00	24.75	21.00	2.38	24-1.38	26.8
			mm	914	1943	711	628.5	533	60.4	24-35	680
	20	500	in	39.00	84.80	30.50	27.0	23.00	2.50	24-1.38	38
			mm	991	2154	775	686	584	63.5	24-35	760
	24	600	in	45.00	100.50	36.0	32.0	27.25	2.75	24-1.62	36
			mm	1143	2553	914	813	692	69.9	24-41	915

磅级 Class	规格 in	通径 DN	单位 Unit	L	取全开 OPEN	D	D1	D2	b	Z-φd	D0
600Lb	2	50	in	11.50	18	6.5	5.00	3.62	1.0	8-0.75	10
			mm	292	458	165	127	92	25.4	8-19	250
	3	80	in	14.00	22.50	8.25	6.62	5.00	1.25	8-0.88	10
			mm	356	570	210	168	127	31.8	8-22	250
	4	100	in	17.00	27.2	10.75	8.50	6.19	1.5	8-1.0	14
			mm	432	390	273	216	157	38.1	8-25	350
	6	150	in	22	35.8	14	11.50	8.50	1.88	12-1.12	18
			mm	559	910	356	292	216	47.7	12-29	450
	8	200	in	26.00	41.9	16.5	13.75	10.62	2.19	12-1.25	19.7
			mm	600	1064	419	349	270	55.6	12-32	500
	10	250	in	31.00	49.5	20	17.00	12.75	2.5	16-1.38	23.6
			mm	787	1257	508	432	324	63.5	16-35	600
	12	300	in	33	57.8	22	19.25	15.00	2.62	20-1.38	26.8
			mm	838	1468	559	489	381	66.7	20-35	680
	14	350	in	35	63.9	23.75	20.75	16.25	2.75	20-1.50	26.9
			mm	889	1623	603	527	413	69.9	20-38	760
	16	400	in	39	71.5	27	23.75	18.50	3.0	20-1.62	26.9
			mm	991	1816	686	603	470	76.2	20-41	760
	18	450	in	43	82.7	29.25	25.75	21.00	3.25	20-1.75	36
			mm	1092	2100	743	654	533	82.6	20-45	915
	20	500	in	47	88.6	32	28.5	23.00	3.5	24-1.75	37.4
			mm	1194	2250	813	724	584	88.9	24-45	950
	24	600	in	55	107.5	37	33.0	27.25	4.0	24-2.0	39.4
			mm	1397	2730	940	838	692	102	24-51	1000



产品执行标准 Production enforce standard

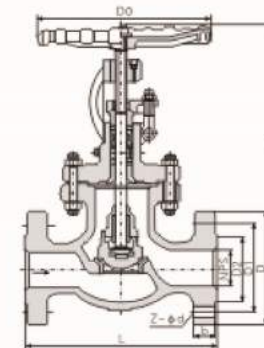
设计与制造 Design And Manufacture	结构长度 Face to face/ End to end	法兰尺寸 Flange Dimension	对接连接尺寸 Butt welding dimension	压力-温度 Pressure- Temperature Rating	试验-检验 Inspection and test
ANSI B16.34, BS1873	ANSI B16.10	ANSI B16.5	ANSI B16.25	ANSI B16.34	API 598

产品性能规范 Chief Property and specification

公称压力(PN) Nominal Pressure	强度试验 Shell test		水密封试验 Water seal test		气密封试验 Air seal test	
	MPa	Lb/in ²	MPa	Lb/in ²	MPa	Lb/in ²
150	3.1	450	2.2	315	0.5-0.7	60-100
300	7.8	1125	5.6	815		
600	15.3	2225	11.2	1630		
900	23.1	3350	16.8	2440		
1500	38.4	5575	28.1	4080		
2500	64.6	9367	47.4	6873		

主要零件材料 Material for main parts

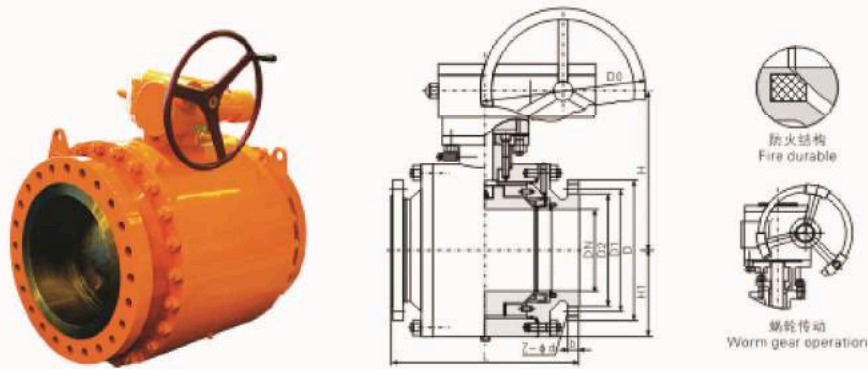
体盖、阀 Body Cover Disc	阀杆 Stem	密封面 Sealing Face	垫片(O形) Sealing shim	填料 Packing	工作温度(°C) Working temperature	适用介质 Suitable medium	
WCB	2Cr13	13Cr STL 本体材料 With body material	增强柔性石墨 13Cr/柔性石墨 Enhanced Flexible graphite	柔性石墨 增强柔性石墨 Flexible graphite enhanced flexible graphite	≤425	水、蒸汽、油品 Water Steam Oil	
WC1	38CrMoAl 25Cr2MoV		1Cr13/flexible graphite	SFB-2	08软钢		≤450
WC6			CF8	F304	08软钢		≤540
WC9			CF3	F316	08软钢		≤570
C5 C12			CF8M	F304L	08软钢		≤540
	CF3M		F316L	08软钢	≤600		硝酸、醋酸、尿素 Nitric acid Acetic acid Urea



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

单位Unit: mm

磅级 Class	规格 Size	L	D	D1	D2	h	N-d	D0	H	WT (kg)	
150Lb	1/2"	mm	108	89	60.5	35	12	4-15	125	169	3.8
		in	4.25	3.5	2.38	1.38	0.47	4-0.59	4.92	6.65	
	3/4"	mm	117	98	70	43	12	4-15	125	180	4.2
		in	4.61	3.86	2.76	1.69	0.47	4-0.59	4.92	7.08	
	1"	mm	127	108	79.5	51	12	4-15	125	190	8
		in	5	4.25	3.13	2	0.47	4-0.59	4.92	7.48	
	1 1/2"	mm	165	127	98.5	73	14.3	4-16	180	347	13
		in	6.5	5	3.88	2.87	0.56	4-0.62	7.09	13.66	
	2"	mm	203	152	120.5	92	15.9	4-19	180	356	21
		in	8.00	6.00	4.75	3.62	0.625	4-0.75	7.09	14	
	2 1/2"	mm	216	178	139.5	105	17.5	4-19	240	381	30
		in	8.5	7	5.50	4.12	0.69	4-0.75	9.45	15.00	
	3"	mm	241	190	152.4	127	19.1	4-19	280	13	41
		in	9.5	7.50	6	5	0.75	4-0.75	11.02	16.25	
	4"	mm	292	229	190.5	157	24	8-19	280	500	64
		in	11.50	9.00	7.5	6.19	0.94	8-0.75	11.02	19.68	
6"	mm	406	279	241.5	216	25.4	8-22	360	656	113	
	in	16	11.0	9.50	8.5	1.00	8-0.88	14.17	22.25		
8"	mm	495	343	298.5	270	29	8-22	450	660	190	
	in	19.5	13.5	11.75	10.62	1.12	8-0.88	17.75	26.00		



产品执行标准 Production enforce standard

产品规范 Product Specification	设计规范 Design Spec	结构长度 Face to face	连接法兰 Flange End	试验与检验 Test & Check	产品标识 Marking	供货规范 Supply
	API 608 API 6D	ANSI B16.10 API 6D	ANSI B16.5	API 598 API 6D	MSS SP-25 API 6D	API 608 API 6D

产品性能规范 Chief property and specification

公称压力(PN)Nominal pressure	150Lb	300Lb	400Lb	600Lb
壳体试验压力 Shell test pressure	3.1	7.5	10.2	15.0
密封试验(液) Seal test	2.2	5.5	7.48	11.0
密封试验(气) Seal test	0.5-0.7			
适用介质 Applicable medium	C 水、油品、蒸汽 Water, oil, steam P 硝酸类 Nitric acid R 醋酸类 Acetic acid			
适用温度 Applicable temperature	≤200℃			

主要零件材料 Material for main parts

名称 Parts name	WCB 类	CF8 类	CF3 类	CF8M 类	CF3M 类
阀体左体 Body & Body cap	A216-WCB	A316-CF8	A35-CF3	A351-CF8M	A351-CF3M
球体 Ball	B2-B8	A182-F304L	A182-F304L	A132-F316	A182-F316L
	B8以上	A216-WCB	A351-CF8M	A351-CF3	A351-CF8M
阀杆 Stem	A182-F6a	A182-F304	A182-F304L	A182-F336	A182-F316L
阀座 Seat	PTFE/增强 PTFE/NYLON PTFE/Reinforced PTFE/Nylon				
阀座支承圈 Seat Retainer	A105-1025	A182-F304	A182-F304L	A182-F316	A182-F316L
弹簧 Spring	3yc-7/17-49H				
O形圈 O-ring	NBR	氟橡胶 Viton			
螺栓 Stud	A193-B8				
螺母 Nut	A194-8				

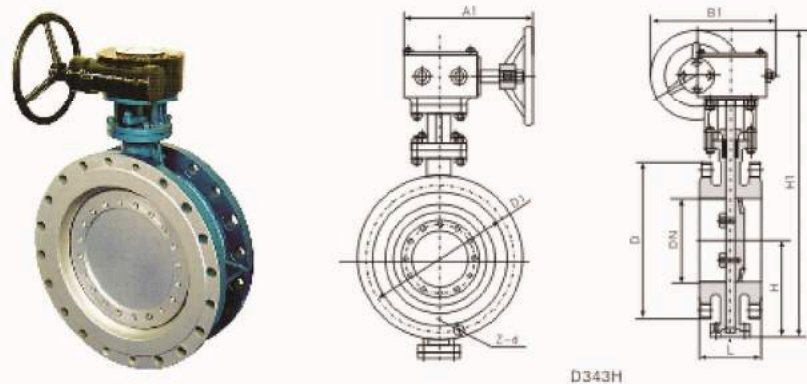
主要外形和连接尺寸 Main external and connection dimension
CLASS 150 A1B(3)41,(3)47,(3)67F(N.PPL).(P.R.V)

单位Unit: mm

DN	主要外形尺寸和连接尺寸(mm) Main external and connecting dimensions											WT (kg)	备注 Remark	
	d	L-RF	L-BW	D	D1	D2	b	f	n-φd	H1	H2			D0
1/2"	13	108	-	89	60.5	35	11.2	1.6	4-16	-	59	130	2.3	浮动球 Float Ball
3/4"	19	117	-	98	70	43	11.2	1.6	4-16	-	63	130	3.0	
1"	25	127	-	108	79.5	51	11.2	1.6	4-16	-	75	160	4.5	
1 1/2"	38	165	190	127	98.5	73	14.3	1.6	4-16	-	95	230	7.0	固定球 Fixing Ball
2"	51	178	216	152	120.5	92	15.9	1.6	4-19	-	107	230	9.5	
2 1/2"	61	190	241	178	139.5	105	17.5	1.6	4-19	-	142	400	15.0	
3"	76	203	283	190	152.5	127	19.1	1.6	4-19	-	152	400	19.0	
4"	102	229	305	229	190.5	157	23.9	1.6	8-19	-	178	700	33.0	
5"	127	356	-	254	216	186	23.9	1.6	8-22	-	252	1100	58.0	
6"	52	394	457	279	241.5	216	54.5	1.6	8-22	-	272	1100	93.0	固定球 Fixing Ball
8"	203	457	521	343	298.5	270	58.6	1.6	8-22	-	342	1500	160.0	
8"	203	457	521	343	298.5	270	28.6	1.6	8-22	-	308	600	180.0	
10"	254	533	559	406	362	324	30.2	1.6	12-25	335	495	600	240.0	
12"	305	610	635	482.6	431.8	381	31.8	1.6	12-25	385	580	800	390.0	
14"	337	686	762	535	476	412.8	35	1.6	12-29	430	625	800	510.0	
16"	387	162	838	597	539.5	469.9	36.6	1.6	16-29	470	720	800	750.0	固定球 Fixing Ball
20"	489	914	991	698	635	584.2	42.9	1.6	20-32	590	840	800	1190	
24"	591	1067	1143	813	749.5	692.2	47.8	1.6	20-35	700	1050	800	2100	
26"	686	1245	1346	927.1	836.6	800.1	71.4	1.6	28-35	780	1150	800	3000	

CLASS 300 A3B(3)41,(3)47,(3)67F(N.PPL).(P.R.V)

DN	主要外形尺寸和连接尺寸(mm) Main external and connecting dimensions											WT (kg)	备注 Remark	
	d	L-RF	L-BW	D	D1	D2	b	f	n-φd	H1	H2			D0
1/2"	13	140	-	95	66.5	35	14.2	1.6	4-16	-	59	130	2.5	浮动球 Float Ball
3/4"	19	152	-	117	82.5	43	15.9	1.6	4-19	-	63	130	3.5	
1"	25	165	-	124	89	51	17.5	1.6	4-19	-	75	160	5.5	
1 1/2"	38	190	190	156	114.5	73	20.7	1.6	4-22	-	95	230	10.5	固定球 Fixing Ball
2"	51	216	216	165	127	92	22.3	1.6	8-19	-	107	230	14.5	
2 1/2"	61	241	241	190	149	105	25.4	1.6	8-22	-	142	400	23.5	
3"	76	283	283	210	168	127	28.6	1.6	8-22	-	152	400	30.0	
4"	102	305	305	254	200	157	31.8	1.6	8-22	-	178	700	55.0	
5"	127	381	-	279	235	186	35	1.6	8-22	-	252	1100	81.0	
6"	52	403	457	318	270	216	36.5	1.6	12-22	-	272	1100	118.0	固定球 Fixing Ball
8"	203	502	521	381	330	270	41.3	1.6	12-25	-	342	1500	200.00	
8"	203	502	521	381	330	270	41.3	1.6	12-25	-	398	600	220.2	
10"	254	568	559	444	387.5	324	17.7	1.6	16-29	335	495	600	365	
12"	305	648	635	520.8	451	381	50.8	1.6	16-32	385	580	800	530	
14"	337	762	762	584.2	514.5	412.8	53.8	1.6	20-32	430	625	800	740	
16"	387	838	838	647.8	571.5	469.9	57.2	1.6	20-35	470	720	800	1030	固定球 Fixing Ball
20"	489	991	991	774.8	685.8	58.2	63.5	1.6	24-35	590	840	800	1540	
24"	591	1143	1143	914.4	812.8	692.2	69.8	1.6	24-41	700	1050	800	2600	
28"	686	1346	1346	1035	939.8	800.1	85.9	1.6	28-44.5	780	1150	800	3900	



D343H

产品执行标准 Production enforce standard

产品规范 Product Specification	设计规范 Design Spec	结构长度 Face to Face	连接法兰 Flange End	试验与检验 Test & Check	产品标识 Marking	供货规范 Supply
	GB/T 12238	GB/T 12221	JB/T 78 JB/T 79	GB/T 13927	GB/T 12220	JB/T 7928

产品性能规范 Chief property and specification

1. 试验压力 Test pressure

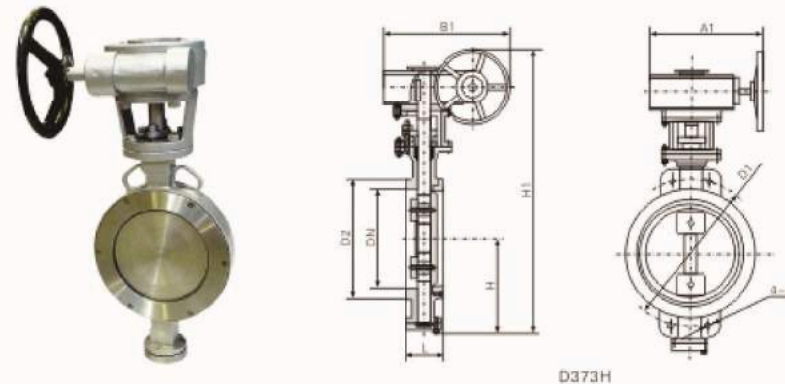
公称压力(Li) Nominal Pressure	试验压力(MPa) Test pressure	
	壳体强度试验 Shell strength test	密封试验 Seal test
0.6	0.9	0.66
1.0	1.5	1.1
1.6	2.4	1.8
2.5	3.8	2.8
4.0	6.0	4.4

2. 适用介质及适用温度 Applicable medium & applicable temperature

产品类型 Product type	适用介质 Applicable medium	适用温度℃ Applicable temperature
碳钢型(C) Carbon steel type	水、蒸汽、油 Water, Steam, oil	≤300
合金钢型(I) Alloy steel type	油品、蒸汽 Oil, steam	≤650
不锈钢高温型(II) Stainless steel type	蒸汽、油品、酸类、海水 Steam, Oil, Acid and the like, Sea-water	≤900

主要零件材料 Material for main parts

阀体 Body		阀板 Disc		转轴 Stem		衬套 Bushing		阀座 Seat	
材料名称 Material	代号 Code	材料名称 Material	代号 Code	材料名称 Material	材料名称 Material	材料名称 Material	代号 Code	材料名称 Material	代号 Code
灰铸铁 Cast Iron	Z	电镀球墨铸铁 Plated Ductile Iron	B1	不锈钢 Stainless Steel		天然胶 NR	X1	-20~+85	
球墨铸铁 Ductile Iron	Q	铜合金 Copper Alloy	B2	耐腐蚀 Anti-corrosion	铜滑青铜 Lubricized Bronze	海伯伦 Hypalon	X2	-29~+135	短时 Intermittent
铜合金 Copper Alloy	L	不锈钢 Stainless Steel	B3	镍 Nickel		乙丙橡胶 EPDM	X3	-35~+149	
不锈钢 Tainlass Steel	P	工业纯钛 Titanium	B4	镍铜合金 Nickel-copper Alloy		氯丁橡胶 Neoprene	X4	-46~+121	短时 Intermittent
碳钢 Carbon Steel	C	特种耐腐蚀钢 Special Anticorrosion Steel	B5	碳钢 Carbon Steel		丁腈橡胶 NBR	X5	-50~+150	
						耐油橡胶 Wear-resistant Rubber	X6	-29~+99	短时 Intermittent
						聚四氟乙烯 PTFE	X7	-35~+113	
						氟化橡胶 Viton	X8	-23~+82	短时 Intermittent
						耐热乙丙橡胶 Heat-resistant EPDM	X9	-10~+50	
						聚四氟乙烯塑料 PTFE	F4	-23~+150	
								-20~+150	
								-10~+150	



D373H

D373H-10C.P.R.V系列对夹式弹性金属硬密封蝶阀 Wafer type elastic metallic hard sealing butterfly valve

公称通径DN Nominal diameter		结构长度(标准值) Structure length (standard)	外形尺寸(参考值) External dimension (enquiry)									连接尺寸(标准值) Connection dimension (standard)				
			D373H			D673H			D973H			PN0.6MPa		PN1.0MPa		
毫米mm	英寸inch	L	H	H1	A1	B1	H2	A2	B2	H3	A3	B3	D1	Z-φd	D2	Z-φd
50	2	43	112	350	180	200	625	245	72	530	250	255	110	4-14	125	4-18
65	2 1/2	46	115	370	180	200	625	245	72	530	250	255	130	4-14	145	4-18
80	3	49	120	380	180	200	645	245	72	565	250	255	150	4-18	160	8-18
100	4	56	138	420	180	200	675	355	92	600	250	255	170	4-18	180	8-18
125	5	64	164	460	180	200	715	355	92	640	250	255	200	8-18	210	8-18
150	6	70	175	555	270	280	800	355	92	705	300	315	225	8-18	240	8-22
200	8	71	208	605	270	280	850	250	170	775	300	315	280	8-18	295	8-22
250	10	76	243	680	270	280	925	250	170	945	300	315	335	12-18	350	12-22
300	12	83	283	800	380	420	1035	450	220	1070	300	315	395	12-22	400	12-22
350	14	92	310	835	380	420	1070	450	220	1140	300	315	445	12-22	460	16-22
400	16	102	340	915	450	470	1190	450	220	1210	300	315	495	16-22	515	16-26
450	18	114	380	960	480	490	1250	650	280	1335	575	714	550	16-22	565	20-26
500	20	127	410	1020	480	490	1290	650	280	1415	575	714	600	20-22	620	20-26
600	24	154	470	1225	480	490	1455	850	380	1605	656	810	705	20-26	725	20-30
700	28	165	550	1355	640	660	1585	850	380	1844	656	810	810	24-26	840	24-30
800	32	190	640	1470	640	660	1700	1250	380	2040	656	810	920	24-30	950	24-33
900	36	203	710	1545	750	860	1965	1250	380	2255	785	863	1020	24-30	1050	28-33
1000	40	216	770	1795	850	900	2015	1250	380	2380	785	863	1120	28-30	1160	28-36
1200	48	254	890	1965	850	900	2250	1250	380	2640	785	863	1340	32-33	1380	32-39

D₃73H-15C.P.R.V系列对夹式弹性金属硬密封蝶阀 Wafer type elastic metallic hard sealing butterfly valve

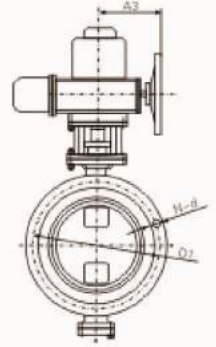
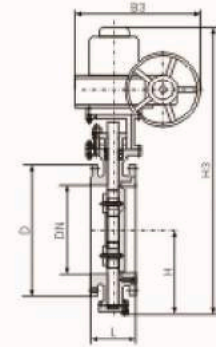
公称通径DN Nominal diameter		结构长度(标准值) Structure length (standard)	外形尺寸(参考值)(External dimension(consult))									连接尺寸(标准值) Connection dimension(standard)				
毫米mm	英寸inch	L	H	D373H			D673H			D973H			PN1.6MPa		PN2.5MPa	
				H ₁	A ₁	B ₁	H ₂	A ₂	B ₂	H ₃	A ₃	B ₃	D ₁	Z-φd	D ₂	Z-φd
50	2	43	112	350	180	200	625	245	72	530	250	255	125	4-14	125	4-18
65	2 1/2	46	115	370	180	200	625	245	72	530	250	255	145	4-14	145	8-18
80	3	49	120	380	180	200	645	245	72	565	250	255	160	8-18	160	8-18
100	4	56	138	420	180	200	675	355	92	600	250	255	180	8-18	190	8-22
125	5	64	164	460	180	200	715	355	92	640	250	255	210	8-18	220	8-26
150	6	70	175	555	270	280	800	355	92	705	300	315	240	8-22	250	8-26
200	8	71	208	605	270	280	850	250	170	775	300	315	295	12-22	310	12-26
250	10	76	243	680	270	280	925	250	170	945	300	315	355	12-26	370	12-30
300	12	83	283	825	380	420	1035	450	220	1070	300	315	410	12-26	430	16-30
350	14	92	310	900	380	420	1070	450	220	1140	300	315	470	16-26	490	16-33
400	16	102	340	980	450	470	1190	450	220	1210	300	315	525	16-30	550	16-36
450	18	114	380	1030	480	490	1250	650	280	1335	575	714	585	20-30	600	20-36
500	20	127	410	1105	480	490	1290	650	280	1415	575	714	650	20-33	660	20-36
600	24	154	470	1310	480	490	1455	850	380	1605	656	810	770	20-36	770	20-39
700	28	165	550	1435	640	660	1585	850	380	1844	656	810	840	24-36	875	24-42
800	32	190	640	1605	640	660	1700	1250	380	2040	656	810	950	24-39	990	24-48
900	36	203	710	1745	750	860	1865	1250	380	2255	785	863	1050	28-39	1090	28-48
1000	40	216	770	1885	850	900	2015	1250	380	2380	785	863	1170	28-42	1210	28-56
1200	48	254	890	2105	850	900	2250	1250	380	2640	785	863	1390	32-48	1420	32-56

用户注意:表中H1、H2、H3、L尺寸均可根据用户需要调整,若需特殊材料定货时提出。
User's attention:Dimension of H1、H2、H3 in form can lengthen (long stem butterfly valve) according to customer's requirements, if need long special material should be mentioned while ordering.

D₃73H-40C.P.R.V系列对夹式弹性金属硬密封蝶阀 Wafer type elastic metallic hard sealing butterfly valve

公称通径DN Nominal diameter		结构长度(标准值) Structure length (standard)	外形尺寸(参考值)(External dimension(consult))									连接尺寸(标准值) Connection dimension(standard)				
毫米mm	英寸inch	L	H	D373H			D673H			D973H			PN4.0MPa			
				H ₁	A ₁	B ₁	H ₂	A ₂	B ₂	H ₃	A ₃	B ₃	D ₁	Z-φd	D ₂	Z-φd
50	2	43	112	350	180	200	625	250	170	530	250	255	125			4-18
65	2 1/2	46	115	370	270	280	625	250	170	530	250	255	145			8-18
80	3	49	120	380	270	280	645	250	170	565	250	255	160			8-18
100	4	56	138	420	270	280	675	250	170	600	250	255	190			8-22
125	5	64	164	460	380	420	715	450	220	640	250	255	220			8-26
150	6	70	175	555	380	420	800	450	220	705	300	315	250			8-26
200	8	71	208	605	450	470	850	450	220	775	300	315	320			12-30
250	10	76	243	680	450	470	925	450	280	945	300	315	385			12-33
300	12	83	283	825	450	470	1035	650	280	1070	300	315	450			16-33
350	14	92	310	900	480	490	1070	650	280	1140	300	315	510			16-36
400	16	102	340	980	480	490	1190	650	280	1210	300	315	585			16-39
450	18	114	380	1030	640	660				1335	575	714	610			20-39
500	20	127	410	1105	640	660				1415	575	714	670			20-42

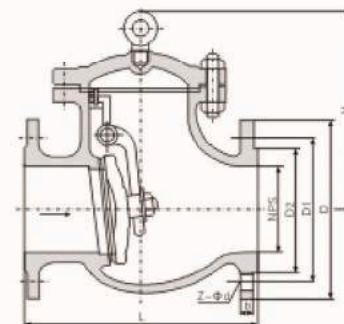
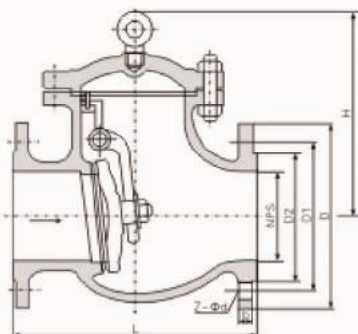
用户注意:表中H1、H2、H3、L尺寸均可根据用户需要调整,若需特殊材料定货时提出。
User's attention:Dimension of H1、H2、H3 in form can lengthen (long stem butterfly valve) according to customer's requirements, if need long special material should be mentioned while ordering.



D943H

D₃43H-10C.P.R.V系列法兰式弹性金属硬密封蝶阀 Flange type elastic metallic hard sealing butterfly valve

公称通径DN Nominal diameter		结构长度(标准值) Structure length (standard)	外形尺寸(参考值)(External dimension(consult))									连接尺寸(标准值) Connection dimension(standard)							
毫米mm	英寸inch	L	H	D343H			D643H			D943H			PN0.6MPa		PN1.0MPa				
				H ₁	A ₁	B ₁	H ₂	A ₂	B ₂	H ₃	A ₃	B ₃	D	D ₁	Z-φd	D	D ₁	Z-φd	
50	2	108	150	112	350	180	200	625	245	72	530	250	255	140	110	4-14	165	125	4-18
65	2 1/2	112	170	115	370	180	200	625	245	72	530	250	255	160	130	4-14	185	145	4-18
80	3	114	180	120	380	180	200	645	245	72	565	250	255	190	150	4-18	200	160	8-18
100	4	127	190	138	420	180	200	675	355	92	600	250	255	210	170	4-18	220	180	8-18
125	5	140	200	164	460	180	200	715	355	92	640	250	255	240	200	8-18	250	210	8-18
150	6	140	210	175	555	270	280	800	355	92	705	300	315	265	225	8-18	285	240	8-22
200	8	152	230	208	605	270	280	850	250	170	775	300	315	320	280	8-18	340	295	8-22
250	10	165	250	243	680	270	280	925	250	170	945	300	315	375	335	12-18	395	350	12-22
300	12	178	270	283	800	380	420	1035	450	220	1070	300	315	440	395	12-22	445	400	12-22
350	14	190	290	310	835	380	420	1070	450	220	1140	300	315	490	445	12-22	505	460	16-22
400	16	216	310	340	915	450	470	1190	450	220	1210	300	315	540	495	16-22	565	515	16-26
450	18	222	330	380	960	480	490	1250	650	280	1335	575	714	595	550	16-22	615	565	20-26
500	20	229	350	410	1020	480	490	1290	650	280	1415	575	714	645	600	20-22	670	620	20-26
600	24	267	390	470	1225	480	490	1455	850	380	1605	656	810	755	705	20-26	780	725	20-30
700	28	292	430	550	1355	640	660	1585	850	380	1844	656	810	860	810	24-26	895	840	24-30
800	32	318	470	640	1470	640	660	1700	1250	380	2040	656	810	975	920	24-30	1015	950	24-33
900	36	330	510	710	1545	750	860	1865	1250	380	2255	785	863	1075	1020	24-30	1115	1050	28-33
1000	40	410	550	770	1795	850	900	2015	1500	580	2380	785	863	1175	1120	28-30	1230	1160	28-36
1200	48	470	630	890	1965	850	900	2226	1500	580	2640	785	863	1405	1340	32-33	1455	1380	32-39



产品执行标准 Production enforce standard

类型 Type	设计与制造 Design And Manufacture	结构长度 Face to face/ End to end	法兰尺寸 Flange Dimension	压力-温度 Pressure-Temperature Rating	试验-检验 Inspection and test
旋启式止回阀 Swing check valve	ANSI B16.34	ANSI B16.10	ANSI B16.15	ANSI B16.34	API 598
升降式止回阀 Lift check valve	BS 1868				

产品性能规范 Chief property and specification

公称压力(L) Nominal Pressure		150	300	600	900
强度试验 Shell test	MPa	3.1	7.8	15.3	23.1
	Lbf/in ²	450	1125	2225	3350
水密封试验 Water seal test	MPa	2.2	5.6	11.2	16.8
	Lbf/in ²	315	815	1630	2440
气密封试验 Air seal test	MPa	0.5-0.7			
	Lbf/in ²	60-100			

主要零件材料 Material for main parts

体、盖、阀、插杆、导向套 Body Cover Disk Hingeside way bush	阀轴 Hinge pin	垫片 Sealing shim	密封面 Sealing Face	工作温度(°C) Working temperature	适用介质 Suitable medium
WCB	2Cr13	增加柔性石墨 1Cr13/柔性石墨 不锈钢/耐酸石棉 PTFE 齿型垫片 Enhanced flexible graphite 1Cr13/Flexible Graphite With S.S/Acids-proof asbestos Tooth profile gasket	13Cr STL 本体材料 PTFE 尼龙 body material Nylon	≤425	水、蒸汽、油品、硝酸类、醋酸类、强氧化介质、尿素 Water Steam Oil Nitric acid Acetic acid Urea
WC1				≤450	
WC6				≤540	
WC9				≤570	
C5 C12				≤550	
CF8	304				
CF3	316				
CF8M	304L			≤600	
CF3M	316L				

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

单位 Unit: mm

NPS	DN	Class 150Lb/300Lb/600Lb							重量 WT(kg)
		L	D	D ₁	D ₂	b	Z-φd	H	
2"	50	203	157	120.7	92	19.50	4-19	161	17
2 1/2"	65	216	178	139.7	105	22.5	4-19	180	23
3"	80	241	190.5	152.4	127	24	4-19	190	33
4"	100	292	229	190.50	157.2	24	8-19	220	44
6"	150	356	279	241.5	216	25.5	8-22.5	257	78
8"	200	495	343	298.5	270	29	8-22.5	292	137
10"	250	622	406	362	324	30.5	12-25	350	207
12"	300	698	483	432	381	32	12-25	398	279
14"	350	787	533	476.8	413	35	12-29	445	387
16"	400	864	597	539.8	470	37	16-29	490	446
18"	450	978	635	577.8	533	40	16-32	520	621
20"	500	978	698	635	584	43	20-32	546	770
24"	600	1295	813	749.3	692	48	20-35	880	970
2"	50	267	165	127	92	22.5	8-19	179.5	20
2 1/2"	65	292	190	150	105	25	8-22	190	24
3"	80	318	210	168	127	29.0	8-22.5	212.4	40
4"	100	356	254	200	157	32.0	8-22.5	246	51
6"	150	445	317.5	269.7	216	37.0	12-22.5	292	90
8"	200	533	381	330	270	41.5	12-25.5	328	175
10"	250	622	444.5	387	324	48.0	16-28.5	378.6	210
12"	300	711	521	451	381	51.0	16-32	420	286
14"	350	838	584	514	54	54	20-32	470	400
16"	400	864	648	572	57	57	20-35	530	550
18"	450	978	711	629	60	60	24-35	584	700
20"	500	1016	775	686	64	64	24-35	610	860
24"	600	1346	914	813	70	70	24-41	860	1931
2"	50	292	165	127	92	25	8-19	203	34
2 1/2"	65	330	190	150	105	29	8-22	229	45
3"	80	356	210	168	127	32	8-22	235	63
4"	100	432	273	216	157	38	8-25	286	114
6"	150	559	356	292	216	48	8-29	330	207
8"	200	660	419	349	270	56	12-29	381	387
10"	250	787	508	432	324	64	12-32	457	580
12"	300	838	559	489	381	67	16-35	584	778
14"	350	889	603	527	413	70	20-38	635	9869
16"	400	991	686	603	470	76	20-41	684	1380