

SHANGHAI CIPHY INDUSTRY LTD.,CO.

ANSI CLASS 150/300/600/900

CARBON STEEL OR STAINLESS STEEL

FULLY WELDED BALL VALVE B1 TYPE

MODEL NO: FLAXBW-FW-B1



BALL VALVE PRODUCT'S SIZE:

PRESSURE GRADE	FROM	TO
CLASS150	6"	32"
CLASS300	6"	32"
CLASS600	6"	32"
CLASS900	6"	32"

DESIGN DESCRIPTION:

- * Cast steel ball valve 150/300/600/900
- * Full bore or Venture reduce bore.
- * Welding ends, flanged ends or welding X flanged ends.
- * All forged steel body and trim.
- * Fire safe designed and antistatic device
- * Ball trunnion-mounted in the body.
- * Stem detachable from the ball and blowout resistance designed.
- * Double stem seal with outer gasket replaceable when body is under pressure.
- * Bi-directional(All-tightening) or single-directional (self-relieving) seats.
- * Double piston effect seating(Bubble-tight seat seals).
- * Metal to metal and/or soft ball composite seating.
- * Emergency seals for stem and seat providing a full-contained sealant injection back-up system.
- * Double block and DBB
- * Nickel plating and/or chrome plating for carbon steel trim.
- * Operating torque transmission system for low operating pure torque.
- * Distinctive design.

WORKING PRESSURE AND TEMPERATURE

WORKING TEMPERATURE		
MATERIAL	CELSIUR SCALE	FAHRENHEIT
CARBON STEEL	-20 ⁰ C~200 ⁰ C	6 ⁰ F~390 ⁰ F
STAINLESS STEEL	-20 ⁰ C~200 ⁰ C	6 ⁰ F~390 ⁰ F

GENERAL DESIGN SPECIFICATIONS:

ITEM	AMERICAN STANDARD
MANUFACTURE	API 6D
PRESSURE-TEMPERATURE RATINGS	ANSI B16.34
FACE TO FACE	ANSI B16.10
END FLANGE	ANSI B16.5 or ANSI B16.47
BODY & CAP CONTACT	ANSI B16.5
INSPECTION AND TEST	API 6D

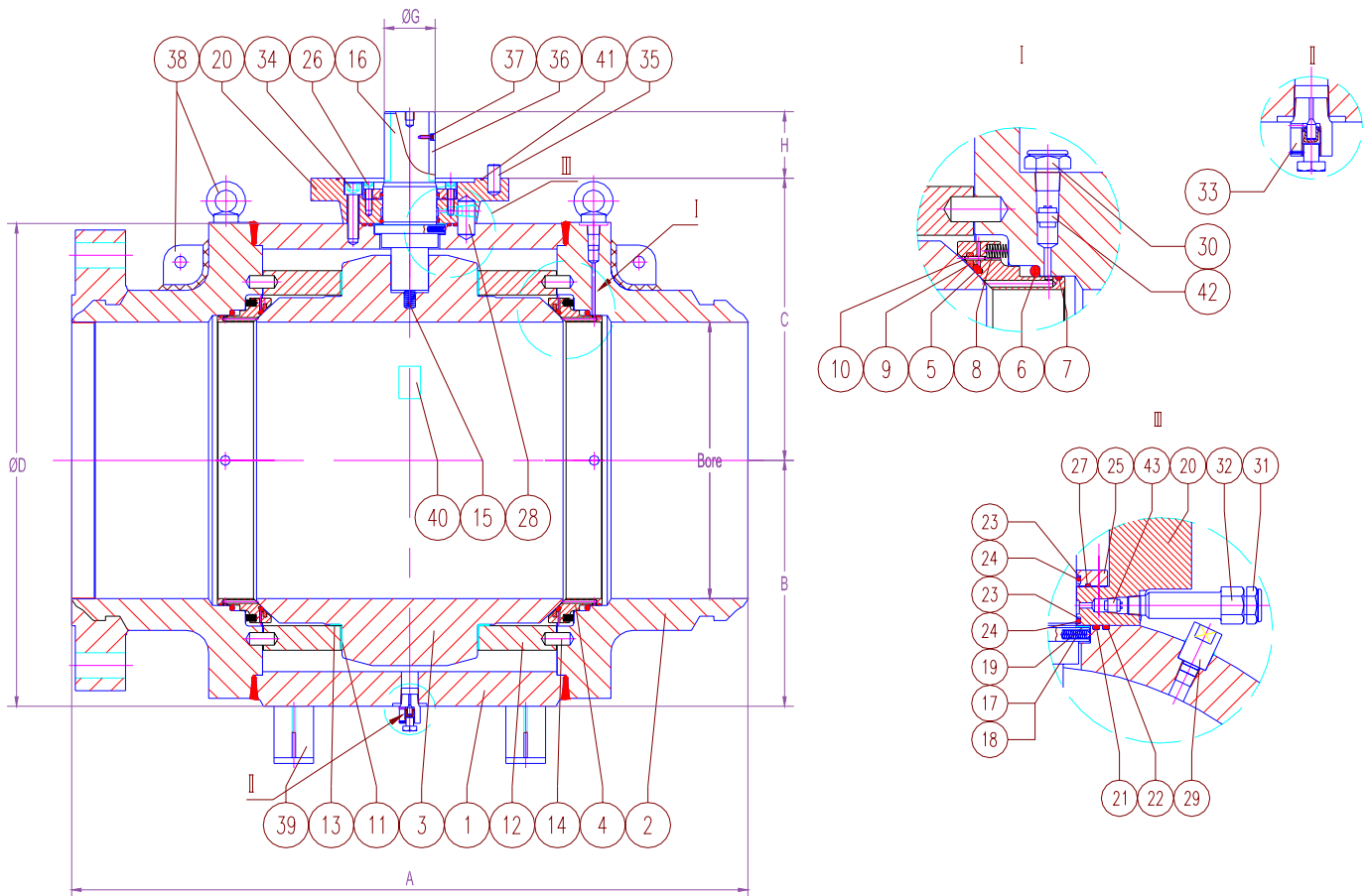
TEST PRESSURE TO API 598 OR BS 6755 PATRT 1

CLASS	SHELL (WATER)		SEAT (WATER)		SEAT(AIR)	
150	3.1MPA	450PSI	2.2MPA	315PSI	0.6MPA	80PSI
300	7.8MPA	1125PSI	5.6MPA	815PSI	0.6MPA	80PSI
600	15.3MPA	2225PSI	11.2MPA	1630PSI	0.6MPA	80PSI
900	22.5MPA	3200PSI	16.5MPA	2345PSI	0.6MPA	80PSI

PARTS AND MATERIAL (ASTM)

NO	PARTS NAME	MATERIALS		NO	PARTS NAME	MATERIALS	
1	BODY	ASTM A105	ASTM A182-F316	23	COMPRESSION O-RING	PTFE	PTFE
2	CAP	ASTM A105	ASTM A182-F316	24	O-RING	VITON	VITON
3	BALL	ASTM A105+ENP	ASTM A182-F316+ENP	25	COMPRESSION PLATE	ASTM A105	ASTM A182-F316
4	SEAT	ASTM A105+ENP	ASTM A182-F316	26	STUD	ASTM A193-B7	ASTM A320 B8
5	SEAT SEAL	VITON	VITON	27	O-RING	VITON	VITON
6	O-RING	VITON	VITON	28	YOKE STOP PIN	AISI 4140	ASTM A313-316
7	O-RING	VITON	VITON	29	AIR VALVE	ASTM A105	ASTM A313-316
8	SPRING	ASTM A313-302	INCONEL X750	30	GREASE INJECTION VALVE	ASSEMBLE PART	ASSEMBLE PART
9	SEAL HOLDER	ASTM A105+ENP	ASTM A182-F316	31	GREASE INJECTION VALVE	ASSEMBLE PART	ASSEMBLE PART
10	PIN	ASTM A313-302	ASTM A313-316	32	EXTEND FITTING	ASTM A105	ASTM A313-316
11	SLIDING BEARING	C.S./PTFE+BRONZE	S.S./PTFE+BRONZE	33	BLOW DOWN STOPPLE	S.S.316	ASTM A313-316
12	BALL YOKE	ASTM A105	ASTM A182-F316	34	YOKE STUD	ASTM A193-B7	ASTM A320 B8
13	STOP BEARING	C.S.+PTFE	S.S.+PTFE	35	PIN	AISI 4140	ASTM A313-316
14	PIN	AISI 4140	ASTM A313-316	36	KE	AISI 4140	ASTM A313-316
15	SMALL SPRING	ASTM A313-302	ASTM A313-316	37	STUD	ASTM A193-B7	ASTM A320 B8
16	STEM	AISI 4140+ENP	ASTM A182-F316+ENP	38	EYE BOLT	CARBON STEEL	CARBON STEEL
17	SPRING HOLDER	AISI 304	ASTM A313-316	39	VALVE FOOT	CARBON STEEL	CARBON STEEL
18	SMALL SPRING	ASTM A313-302	ASTM A313-316	40	NAMEPLATE	S.S 18-8	S.S 18-8
19	YOKE	AISI 316+PTFE	AISI 316+PTFE	41	O-RING	VITON	VITON
20	STEM BEARING	ASTM A105	ASTM A182-F316	42	SMALL CHECK VALVE	ASSEMBLE PART	ASSEMBLE PART
21	O-RING	VITON	VITON	43	SMALL CHECK VALVE	ASSEMBLE PART	ASSEMBLE PART
22	O-RING	VITON	VITON				

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.



DIMENSIONS LIST(UNIT:MM):

ANSI 150											
SIZE (mm)	Bore	Face to Face Dimension			Body			Stem		WT.(kg)	
		WE	RF	RTJ	B	C	D	G	H	WE	RF
DN		A	A*	A	B	C	D	G	H	WE	RF
6	152	457	457*		270	225	345	55	70	185	220
8	203	521	457		325	265	425	55	70	250	290
10	254	559	533		362	299	485	55	70	400	430
12	305	635	610		405	340	560	55	70	550	620
14	337	762	686		440	371	620	75	85	820	900
16	387	838	762		430	410	695	75	85	1100	1220
18	438	914	864		490	457	792	90	115	1400	1550
20	489	991	914		535	500	870	90	115	1750	1950

22	540	1092	991		585	540	950	90	115	2200	2350
24	591	1143	1067		635	585	1040	120	140	2800	3050
26	635	1245	1143		685	627	1115	120	140	2900	3250
28	686	1346	1245		730	667	1190	120	140	3400	3700
30	737	1397	1295		780	716	1280	120	140	4800	5300
32	781	1524	1372		820	750	1345	120	140	5500	6000

ANSI 300

SIZE (inch)	Bore	Face to Face Dimension			Body			Stem		WT.(kg)	
		WE	RF	RTJ	B	C	D	G	H	WE	RF
DN		A	A*	A	B	C	D	G	H	WE	RF
6	152	457	457*		270	225	345	55	70	185	230
8	203	521	502		325	265	425	55	70	250	300
10	254	559	568		362	299	485	55	70	400	460
12	305	635	648		405	340	560	55	70	590	670
14	337	762	762		440	371	620	75	85	820	1000
16	387	838	838		430	410	695	75	85	1100	1320
18	438	914	914		490	457	792	90	115	1400	1650
20	489	991	991		535	500	870	90	115	1750	2000
22	540	1092	1092		585	540	950	90	115	2200	2550
24	591	1143	1143		635	585	1040	120	140	2800	3100
26	635	1245	1245		685	627	1115	120	140	2900	3300
28	686	1346	1346		730	667	1190	120	140	3400	3750
30	737	1397	1397		780	716	1280	120	140	4800	5500
32	781	1524	1524		820	750	1345	120	140	5500	6500

ANSI 600

SIZE (inch)	Bore	Face to Face Dimension			BODY			Stem		WT.(kg)	
		WE	RF	RTJ	B	C	D	G	H	WE	RF
DN		A	A	A	B	C	D	G	H	WE	RF
6	152	559	559	562	270	225	345	55	70	250	330
8	203	660	660	664	325	265	425	55	70	340	450
10	254	787	787	791	362	299	485	55	70	570	710
12	305	838	838	841	405	340	560	55	70	850	1000
14	337	889	889	892	440	371	620	75	85	1100	1370
16	387	991	991	994	430	410	695	75	85	1350	1650
18	438	1092	1092	1095	490	457	792	90	115	2100	2400
20	489	1194	1194	1200	535	500	870	90	115	2600	3000
22	540	1295	1295	1305	585	540	950	90	115	3150	3550
24	591	1397	1397	1407	635	585	1040	120	140	3700	4300
26	635	1448	1448	1461	685	627	1115	120	140	3900	4500
28	686	1549	1549	1562	730	667	1190	120	140	4200	4900
30	737	1651	1651	1664	780	716	1280	120	140	6000	6900
32	781	1778	1778	1794	820	750	1345	120	140	6800	8000

ANSI 900

SIZE (inch)	Bore	Face to Face Dimension			BODY			Stem		WT.(kg)	
		WE	RF	RTJ	B	C	D	G	H	WE	RF
DN		A	A	A	B	C	D	G	H	WE	RF
6	152	610	610	613	270	225	345	55	70	330	430
8	203	737	737	740	325	265	425	55	70	400	520
10	254	838	838	841	380	320	525	75	85	640	820
12	305	965	965	968	425	355	595	75	85	900	1050
14	324	1029	1029	1038	450	378	635	75	85	1020	1400
16	375	1130	1130	1140	455	426	735	90	115	1350	2050
18	425	1219	1219	1232	500	495	805	90	115	2600	3400
20	473	1321	1321	1334	560	520	910	120	140	3700	4200
22	524	1422			615	562	995	120	140	4000	4600
24	572	1549	1549	1568	635	585	1040	120	140	4400	5400
26	619	1729	1729	1751	715	655	1165	150	187	5800	7000
28	667	1700	1780	1802	770	694	1240	150	187	7600	8600
30	714	1700	1890	1912	815	737	1330	150	187	10000	11000
32	762	1884	2014	2036	855	781	1410	150	187	10600	12500

Note:

1) Reduce bore ball valve have the same fact to face and end to end dimension as full bore ball valve of the same pipe

size(indicated by first of the double digits, while the second is the reduced bore size).

- 2) Valve size is as same as nominal pipe size.
- 3) Dimension (C) of a welding X flanged end valves is once half the sum of dimensions (C) of a welding end and a flanged end valve of the same size and pressure rating.
- 4) Dimension and tolerances for flanges conform to ANSI B16.5 or MSS SP-44.
- 5) Welding ends conform to the drawing in Fig.434.8.3 A and Fig.923-B in ANSI B31.8.It is up to the purchaser to specify welding end.
- 6) “*” Factory Standards
- 7) We hereby reserve the rights of any alternative dimension that would help to improve our valve's quality and working efficiency



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