



Shanghai Tianfa Trading Co., Ltd.

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FLANGE-CONNECTION FIXED BALL VALVE

MAIN PARTS AND MATERIALS

NO.	Accessory name	Material	
		GB	ASTM
1	Body	WCB	A216-WCB
2	Spring	60Si2Mn	AISI 9260
3	Sealing ring	PTFE	PTFE
4	Gasket	PTFE	PTFE
5	Blow off sewer	25	A105
6	O-ring	Rubber	Rubber
7	Bottom cover	25	A105
8	Screw nail	35	A193-B7
9	Fixed spindle	1Cr13	A276-410
10	Sliding bearing	PTFE & stain less steel	PTFE & stain less steel
11	Ball	1Cr18Ni9Ti	SS304
12	Bonnet	WCB	A216-WCB
13	Seat	25	A105
14	Stem	1Cr13	A276-410
15	Stud	35CrMoA	A193-B7
16	Nut	35	A194-2H
17	Cover	25	A105
18	Stuffing	PTFE	PTFE
19	Support	WCB	A216- WCB
20	Gland	WCB	A216- WCB
21	Key	45	AISI C 1045

Technical Specifications

Design Reference	GB series	API 系列	
Design Standard	GB/T12237	API 6D	ANSI B16.34
Flange-Connection	GB/T12221	API 6D	ANSI B16.10
Structural length	GB/T15188.1	API 6D	ANSI B16.10
Connecting flange	GB/T9113	ANSI B16.5. B16.47	
Butt-welding ends	GB/T12224	ANSI B16.25	
Test & Inspection	GB/T9092	API 6D	API598

Test Pressure

Pressure grade		Test pressure (Mpa)	
Nominal pressure	Pound (class)	Shell test	Sealing test
1.6	-	2.5	1.76
2.5	-	3.8	2.75
4.0	-	6.0	4.4
-	150	3.0	2.2
-	300	7.6	5.6
-	600	15.0	11.0
-	10K	2.4	1.5
-	20K	5.8	4.0