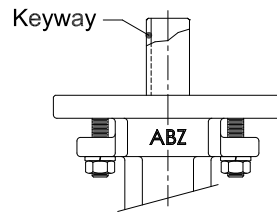
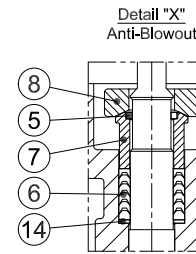


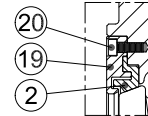
Top View



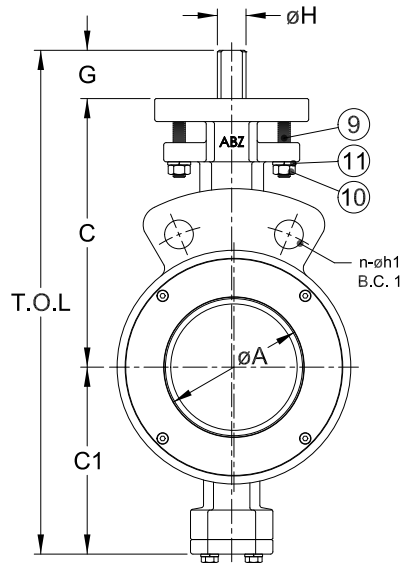
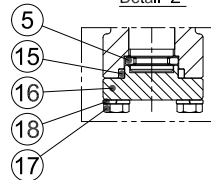
6" thru 12" Stem



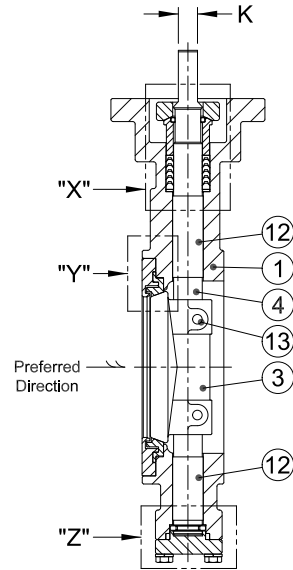
Detail "Y"



Detail "Z"



Flow View



Section View

Parts Schedule			
Item No.	Name	Material	No. Req'd
1	Body	-	1
2	Seat Ring	-	1
3	Disc	-	1
4	Stem	-	1
5	Retainer Ring	-	2
6	Packing	-	1 Set
7	Packing Gland	-	1
8	Gland Flange	-	1
9	Gland Bolt	-	2
10	Nut	-	2
11	Spring Washer	-	2
12	Bush Bearing	-	2
13	Disc Pin	-	1 Set
14	Packing Retainer	-	1
15	Cap Packing	-	1
16	Cap	-	1
17	Cap Bolt	-	1 Set
18	Spring Washer	-	1 Set
19	Seat Retainer	-	1
20	Retainer Bolt	-	1 Set

- Notes:
- Design : ANSI B16.34 & API 609
 - Gasket Contact Surface : Finish 125~250 AARH
 - Face to Face Dimension : API 609 Category B
 - Flange Connection : ANSI B16.5 Class 600
 - Installation Direction: Bi-Directional / Not For Dead End Service
 - Rated for full vacuum in non-preferred direction.

Test Pressure(Psig)	Hydraulic				Air	
	API 598	Shell	2225	Seat	1650	Seat
						-



Valve Solutions
ABZ Valves & Controls



Title:				Scale
ABZolute Double Offset Butterfly Valve				N/A
Series 451 - Class 600 - Wafer Type				Projection
DWG No.				Unit
3"-12" 451-Bare Stem				inch
Date	Drawn	Checked	Dimensions are subject to change without notice.	Revision
09-22-11	BC	Tp		0

Valve Dimensions

Valve Size		ØA	C	C1	D	ØF	G	ØH	K	Keyway	T.O.L	Weight	Mounting Base			Flange Dimension		
Inch	MM												B.C. 2	n	øh2	B.C. 1	n	øh1
3"	80	2.91	6.57	4.92	2.17	4.02	1.18	.748	.500	—	12.67	18 lbs	3.25	4	.43	6.62	2	.875
4"	100	3.78	7.68	5.71	2.52	5.98	1.26	.874	.626	—	14.65	30 lbs	5.00	4	.55	8.50	2	1.000
6"	150	5.20	9.45	8.07	3.07	5.98	2.24	1.374	—	.31 x .31	19.76	66 lbs	5.00	4	.55	11.50	4	1"x8unc
8"	200	6.85	11.42	9.45	4.06	8.03	2.99	1.874	—	.50 x .50	23.86	126 lbs	6.50	4	.83	13.75	4	1 1/8"x8un
10"	250	8.78	13.19	11.02	4.61	8.03	2.99	1.874	—	.50 x .50	27.20	162 lbs	6.50	4	.83	17.00	4	1 1/4"x8un
12"	300	10.59	15.16	12.72	5.51	11.42	4.02	2.358	—	.75 x .50	31.90	268 lbs	10.00	8	.75	19.25	4	1 1/4"x8un