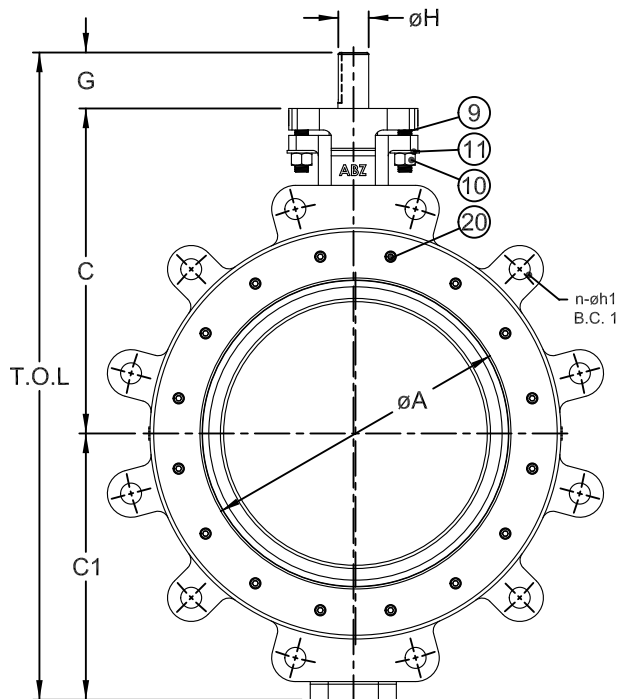
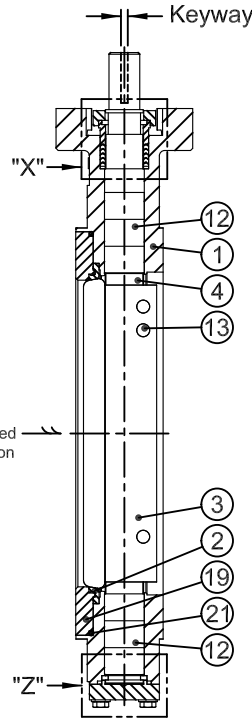


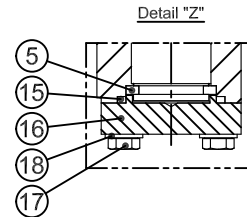
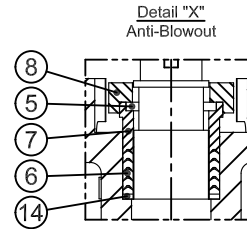
Top View



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
21	O-Ring	-	1

Notes:

1. Design : ANSI B16.34 & API 609
2. Gasket Contact Surface : Finish 125~250 AARH
3. Face to Face Dimension : API 609 Category B
4. Flange Connection : ANSI B16.5 Class 150
5. Installation Direction: Bi-Directional / Double Dead End Service
6. Rated for full vacuum in non-preferred direction.

Test Pressure(Psig) API 598		Hydraulic				Air	
		Shell	450	Seat	315	Seat	-

		Valve Solutions ABZ Valves & Controls		
		Title: Elite Double Offset Butterfly Valve Series 412 - Class 150 - Lug Type		
DWG No. 14"-24" 412-Bare Stem		Unit inch		Scale N/A
Date 11-10-11	Drawn BC	Checked Tp	Dimensions are subject to change without notice.	
			Revision 0	

Valve Dimensions

Valve Size		øA	C	C1	D	F	G	øH	Keyway	T.O.L	Weight	Mounting Base			Flange Dimension		
Inch	MM											B.C. 2	n	øh2	B.C. 1	n	øh1
14"	350	12.52	13.19	11.02	3.62	6.50	2.28	1.374	.31 x .31	26.49	- lbs	5.00	4	.55	18.75	12	1"x8unc
16	400	14.09	15.04	13.15	4.02	6.50	2.99	1.874	.50 x .50	31.18	- lbs	6.50	4	.83	21.25	16	1"x8unc
18"	450	15.91	16.81	14.92	4.49	6.50	2.99	1.874	.50 x .50	34.72	- lbs	6.50	4	.83	22.75	16	1 1/8"x8unc
20"	500	17.72	17.91	16.18	5.00	11.42	2.99	2.126	.50 x .50	37.08	- lbs	6.50	4	.83	25.00	20	1 1/8"x8unc
24"	600	21.34	20.67	18.63	6.07	11.42	4.02	2.555	.75 x .50	43.32	- lbs	10.00	8	.75	29.50	20	1 1/4"x8unc