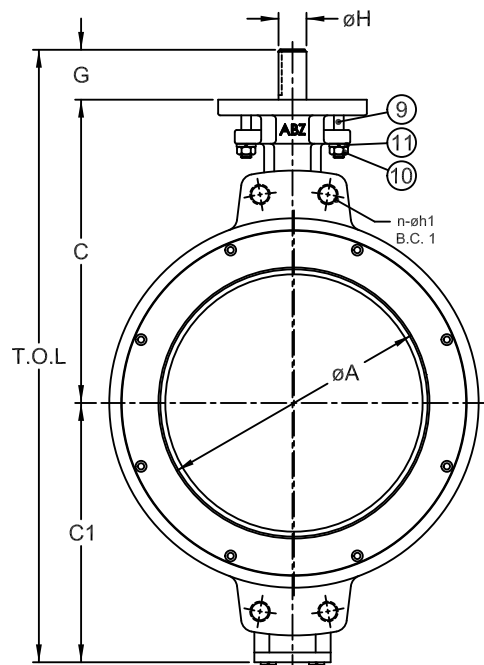
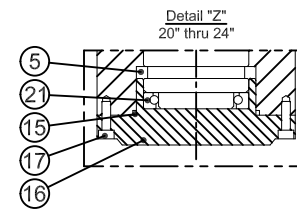
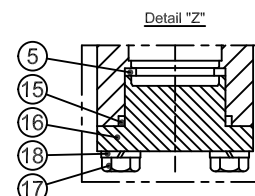
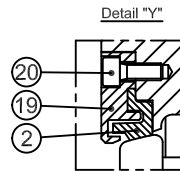
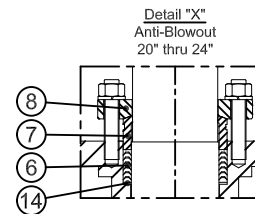
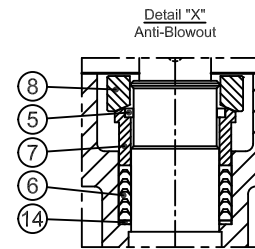
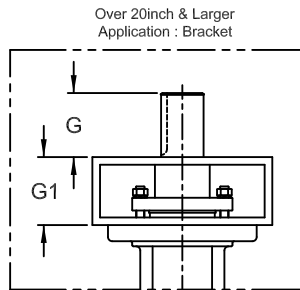
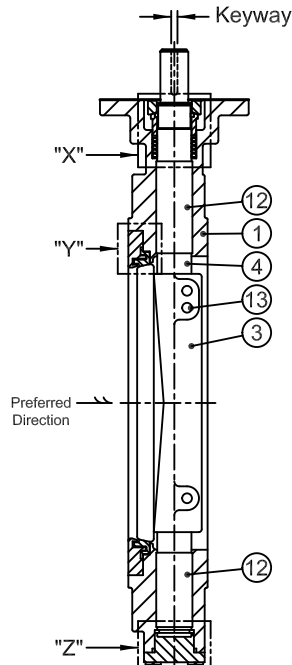


Top View



Flow View



Section View

Valve Dimensions

Valve Size		øA	C	C1	D	øF	G	G1	øH	Keyway	T.O.L	Weight	Mounting Base			Flange Dimension		
Inch	MM												B.C. 2	n	øh2	B.C. 1	n	øh1
14"	350	11.81	17.13	14.57	6.10	11.42	4.02	—	2.555	.75 x .50	35.72	379 lbs	10.00	8	.75	20.75	4	1 3/8"x8un
16	400	13.74	18.70	15.94	7.01	11.42	4.02	—	2.555	.75 x .50	38.66	507 lbs	10.00	8	.75	23.75	4	1 1/2"x8un
18"	450	15.59	19.69	17.72	7.87	12.99	4.45	—	3.146	.87 x .55	41.86	688 lbs	10.00	8	.75	25.75	4	1 5/8"x8un
20"	500	17.72	19.69	19.29	8.50	—	4.72	5.91	3.933	1.10 x .63	49.61	911 lbs	11.73	8	.91	28.50	4	1 5/8"x8un
24"	600	21.50	22.83	23.03	9.13	—	4.72	6.30	3.933	1.10 x .63	56.88	1345 lbs	11.73	8	.91	33.00	4	1 7/8"x8un

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	Thrust Bearing	ASS'Y	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
14"-24" 451-Bare Stem				inch
Date	Drawn	Checked	Dimensions are subject to change without notice.	Revision
11-10-11	BC	Tp		0