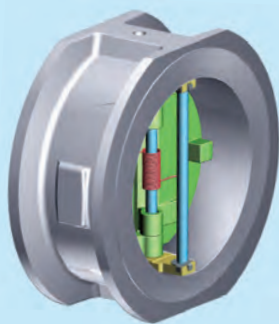


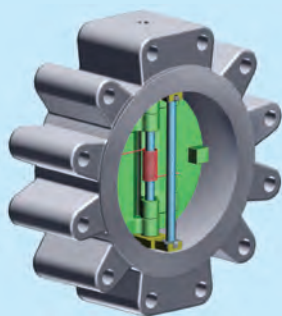
STANDARD MANUFACTURING PROGRAM



WAFER TYPE - PW

- Retainerless design is supplied as standard
- API 594 Face-to-face dimension
- To suit ANSI B16.5 flanges, NPS 2-24 (DN 50-600)
- To suit ANSI B16.47 Series A flanges, NPS 26 (DN 650) and larger

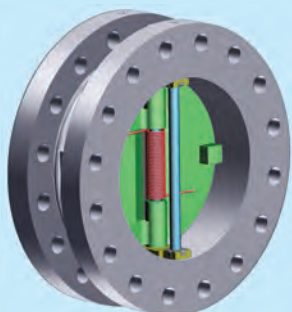
ASME CLASS					
150	300	600	900	1500	2500
NPS 2-60 DN 50-1500	NPS 2-60 DN 50-1500	NPS 2-60 DN 50-1500	NPS 2-48 DN 50-1200	NPS 2-24 DN 50-600	NPS 2-12 DN 50-300



SOLID LUG TYPE - PL, PM

- Retainerless design is supplied as standard
- API 594 Face-to-face dimension
- To suit ANSI B16.5 flanges, NPS 2-24 (DN 50-600)
- To suit ANSI B16.47 Series A flanges, NPS 26 (DN 650) and larger

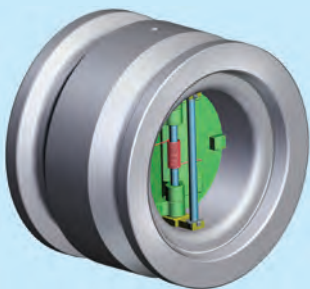
ASME CLASS					
150	300	600	900	1500	2500
NPS 2-10 DN 50-250	NPS 2-10 DN 50-250	NPS 2-10 DN 50-250	NPS 2-10 DN 50-250	NPS 2-24 DN 50-600	NPS 2-12 DN 50-300



DOUBLE FLANGED TYPE - PF, PG

- Retainerless design is supplied as standard
- API 594 Face-to-face dimension
- To suit ANSI B16.5 flanges, NPS 2-24 (DN 50-600)
- To suit ANSI B16.47 Series A Flanges, NPS 26 (DN 650) and larger

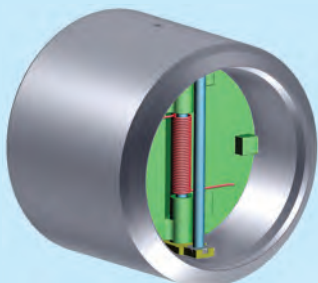
ASME CLASS			
150	300	600	900
NPS 12-60 DN 300-1500	NPS 12-60 DN 300-1500	NPS 12-60 DN 300-1500	NPS 12-48 DN 300-1200



HUB END TYPE - PH

- Retainerless design is supplied as standard
- To suit customer's specified hub-ended details

ASME CLASS			
600	900	1500	2500
NPS 2-24 DN 50-600	NPS 2-24 DN 50-600	NPS 2-24 DN 50-600	NPS 2-24 DN 50-600



BUTT WELD END TYPE - PZ

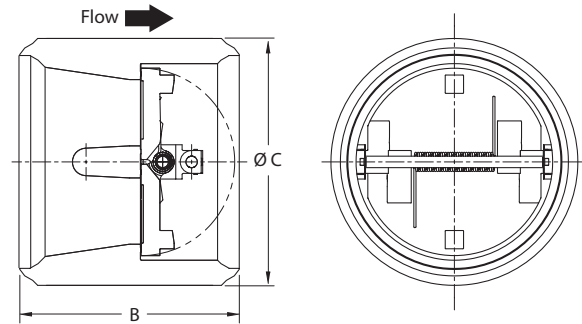
- Retainerless design is supplied as standard

ASME CLASS		
150	300	600
NPS 3-36 DN 80-900	NPS 3-36 DN 80-900	NPS 3-36 DN 80-900

For valve sizes, ASME Classes and designs not identified herein, please consult the Velan Marketing department.

INSTALLATION DIMENSIONS

BUTT WELD END TYPE - PZ



Size		PRESSURE AND CLASS		Dimensions				Approx. weight		Eye bolt hole size
				Ø C		B				
NPS	DN	CLASS	PN	in	mm	in	mm	lbs	kg	
3	80	150	20	3.50	90	5.25	133	14.5	6.6	-
3	80	300	50	3.50	90	5.25	133	14.5	6.6	-
3	80	600	100	3.75	95	5.50	140	14.5	6.6	-
4	100	150	20	5.00	127	4.75	121	16	7.3	-
4	100	300	50	5.00	127	4.75	121	16	7.3	-
4	100	600	100	5.25	133	4.75	121	16	7.3	-
6	150	150	20	6.63	168	5.50	140	29	13.2	1/4
6	150	300	50	6.63	168	5.50	140	29	13.2	1/4
6	150	600	100	6.63	168	5.50	140	33	15.0	1/4
8	200	150	20	8.63	219	6.00	152	48.5	22.0	1/4
8	200	300	50	8.63	219	6.00	152	55	25.0	1/4
8	200	600	100	9.00	229	8.50	216	95	43.1	3/8
10	250	150	20	10.75	273	7.50	191	95	43.1	3/8
10	250	300	50	10.75	273	7.50	191	95	43.1	3/8
10	250	600	100	11.12	282	10.25	260	172	78.0	3/8
12	300	150	20	12.75	324	8.50	216	139	63.1	3/8
12	300	300	50	12.75	324	8.50	216	152	69.0	3/8
12	300	600	100	13.50	343	12.00	305	205	93.0	1/2
14	350	150	20	14.00	356	10.25	260	225	102.1	1/2
14	350	300	50	14.00	356	10.25	260	250	113.4	1/2
14	350	600	100	14.00	356	14.00	356	440	199.6	1/2
16	400	150	20	16.00	406	12.00	305	322	146.1	1/2
16	400	300	50	16.00	406	12.00	305	362	164.2	1/2
16	400	600	100	16.25	413	16.00	406	472	214.2	3/4
18	450	150	20	18.00	457	13.00	330	420	190.6	1/2
18	450	300	50	18.00	457	13.00	330	474	215.1	1/2
18	450	600	100	18.00	457	17.50	445	675	306.3	3/4
20	500	150	20	20.00	508	15.75	400	602	273.1	3/4
20	500	300	50	20.00	508	15.75	400	645	292.6	3/4
20	500	600	100	20.00	508	19.50	495	806	365.7	3/4
24	600	150	20	24.00	610	13.50	343	795	360.7	3/4
24	600	300	50	24.00	610	16.50	419	1010	458.3	1
24	600	600	100	24.25	616	21.75	552	1345	610.3	1
30	750	150	20	30.00	762	15.25	387	1300	589.8	1
30	750	300	50	30.00	762	17.00	432	1575	714.6	1
30	750	600	100	30.00	762	27.00	686	2750	1247.7	1 1/4
36	900	150	20	36.00	914	16.50	419	2030	921.1	1
36	900	300	50	36.00	914	19.00	483	2464	1118.0	1 1/4
36	900	600	100	36.00	914	31.75	806	4100	1860.3	1 1/4