

► Filament Wound Pipe

► Contact Molded Pipe

► Tee

► 45° Lateral

► 90° Elbow

► 45° Elbow

► Concentric Reducer

► Eccentric Reducer

► Full Face Flange



## C H E M P O S I T E™

PIPING

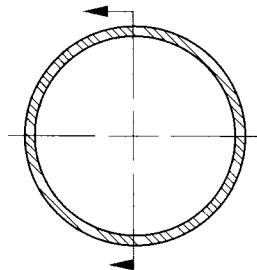
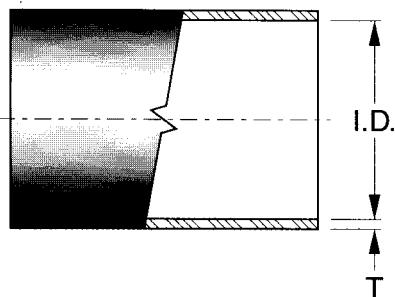
► Vanstone Flange

► Blind Flange



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## PIPING | FILAMENT WOUND PIPE



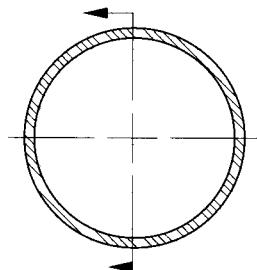
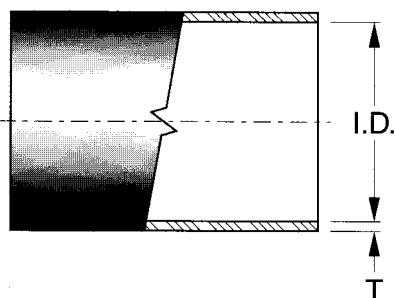
INSIDE DIAMETER	WALL THICKNESS T			
	I.D.	50 psi	100 psi	150 psi
1		0.18	0.18	0.18
1.5		0.18	0.18	0.18
2		0.18	0.18	0.18
3		0.18	0.18	0.18
4		0.18	0.18	0.18
6		0.18	0.18	0.22
8		0.18	0.18	0.22
10		0.18	0.22	0.25
12		0.22	0.22	0.31
14		0.22	0.27	0.31
16		0.22	0.27	0.38
18		0.22	0.31	0.38
20		0.22	0.31	0.40
24		0.22	0.38	0.46
30		0.27	0.40	0.55
36		0.31	0.46	0.64
42		0.31	0.52	0.73
48		0.38	0.59	0.82

All dimensions in inches

- Wall thickness (T) includes corrosion barrier and interior layer.
- Custom sizes and thicknesses are available.



## PIPING | CONTACT MOLDED PIPE



INSIDE DIAMETER	WALL THICKNESS T			
	I.D.	50 psi	100 psi	150 psi
1		0.18	0.18	0.18
1.5		0.18	0.18	0.18
2		0.18	0.18	0.18
3		0.18	0.18	0.21
4		0.18	0.21	0.25
6		0.18	0.21	0.25
8		0.21	0.25	0.32
10		0.21	0.32	0.39
12		0.21	0.32	0.46
14		0.21	0.38	0.52
16		0.21	0.45	0.60
18		0.25	0.45	0.64
20		0.25	0.50	0.75
24		0.32	0.60	0.87
30		0.39	0.75	1.00
36		0.46	0.80	1.18
42		0.53	0.94	1.26
48		0.60	1.06	1.44

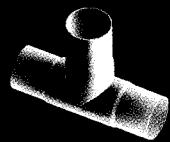
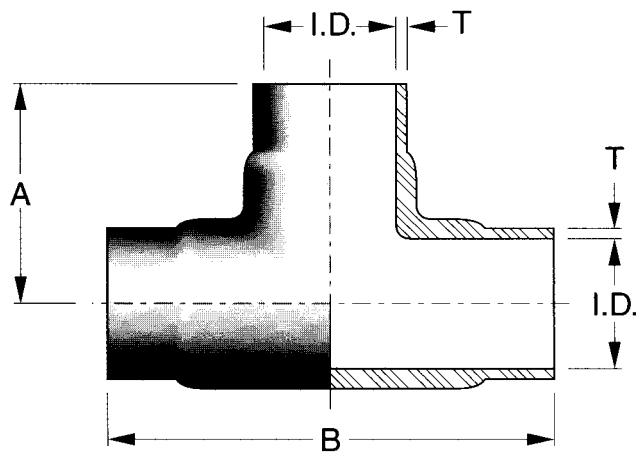
All dimensions in inches

- Wall thickness (T) includes corrosion barrier and interior layer.
- Custom sizes and thicknesses are available.



CHEM POSITIVE

## PIPING TEE

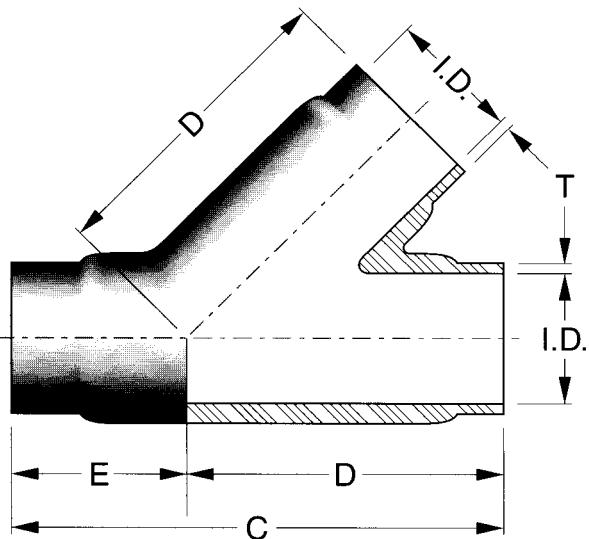


- Wall thickness (T) includes corrosion barrier and interior layer.
- Options
  - Custom sizes and thicknesses
  - Reducing tee
  - Vanstone or full face flanged ends

INSIDE DIAMETER	CENTRE TO FACE	FACE TO FACE	WALL THICKNESS T		
			50 psi	100 psi	150 psi
1	4	8	0.18	0.18	0.18
1.5	5	10	0.18	0.18	0.18
2	6	12	0.18	0.18	0.18
3	7	14	0.18	0.18	0.21
4	8	16	0.18	0.21	0.25
6	10	20	0.18	0.21	0.25
8	12	24	0.21	0.25	0.32
10	14	28	0.21	0.32	0.39
12	16	32	0.21	0.32	0.46
14	18	36	0.21	0.38	0.52
16	20	40	0.21	0.45	0.60
18	21	42	0.25	0.45	0.64
20	22	44	0.25	0.50	0.75
24	24	48	0.32	0.60	0.87
30	30	60	0.39	0.75	1.00
36	33	66	0.46	0.80	1.18
42	36	72	0.53	0.94	1.26
48	40	80	0.60	1.06	1.44

All dimensions in inches

## PIPING | 45° LATERAL

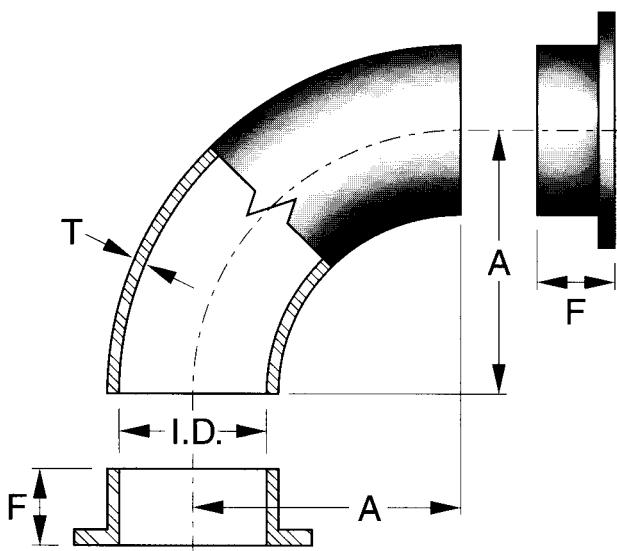


- Wall thickness (T) includes corrosion barrier and interior layer.
- Options
  - Custom sizes and thicknesses
  - Reducing lateral
  - Vanstone or full face flanged ends

INSIDE DIAMETER	FACE TO FACE	FACE TO FACE	CENTER TO FACE	WALL THICKNESS T		
				50 psi	100 psi	150 psi
1	10	6	4	0.18	0.18	0.18
1.5	12	8	4	0.18	0.18	0.18
2	16	10	6	0.18	0.18	0.18
3	18	12	6	0.18	0.18	0.21
4	20	14	6	0.18	0.21	0.25
6	24	16	8	0.18	0.21	0.25
8	30	20	10	0.21	0.25	0.32
10	34	24	10	0.21	0.32	0.39
12	38	26	12	0.21	0.32	0.46
14	42	30	12	0.21	0.38	0.52
16	46	32	14	0.21	0.45	0.60
18	50	36	14	0.25	0.45	0.64
20	54	38	16	0.25	0.50	0.75
24	60	42	18	0.32	0.60	0.87
30	72	52	20	0.39	0.75	1.00
36	84	62	22	0.46	0.80	1.18
42	96	72	24	0.53	0.94	1.26
48	110	82	28	0.60	1.06	1.44

All dimensions in inches

## PIPING | 90° ELBOW

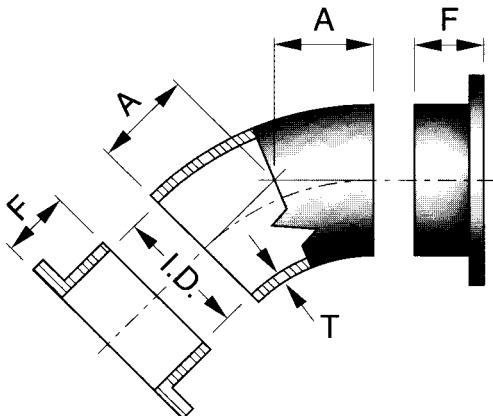


- Long radius, smooth flow elbow up to and including 24" diameter.
- Long radius, mitred elbows from 30" diameter and over.
- Add dimension (F) to (A) for overall length if a flange connection is required.
- Options
  - Custom sizes and thicknesses
  - Vanstone or full face flanged ends

INSIDE DIAMETER	CENTRE TO FACE	FULL FACE FLANGE	VANSTONE FLANGE	WALL THICKNESS T		
I.D.	A	F	F	50 psi	100 psi	150 psi
1	1.5	3	5	0.18	0.18	0.18
1.5	2.25	3	5	0.18	0.18	0.18
2	3	3	5	0.18	0.18	0.18
3	4.5	3	5	0.18	0.18	0.21
4	6	3	5	0.18	0.21	0.25
6	9	3	5	0.18	0.21	0.25
8	12	4	6	0.21	0.25	0.32
10	15	4	6	0.21	0.32	0.39
12	18	5	7	0.21	0.32	0.46
14	21	6	8	0.21	0.38	0.52
16	24	6	8	0.21	0.45	0.60
18	27	6	8	0.25	0.45	0.64
20	30	7	9	0.25	0.50	0.75
24	36	7	9	0.32	0.60	0.87
30	45	7	9	0.39	0.75	1.00
36	54	8	10	0.46	0.80	1.18
42	63	8	10	0.53	0.94	1.26
48	72	8	10	0.60	1.06	1.44

All dimensions in inches

## PIPING | 45° ELBOW



INSIDE DIAMETER	CENTRE TO FACE	FULL FACE FLANGE	VANSTONE FLANGE	WALL THICKNESS T					
				I.D.	A	F	50 psi	100 psi	150 psi
1	0.625	3	5	0.18	0.18	0.18			
1.5	0.938	3	5	0.18	0.18	0.18			
2	1.25	3	5	0.18	0.18	0.18			
3	1.875	3	5	0.18	0.18	0.21			
4	2.5	3	5	0.18	0.21	0.25			
6	3.75	3	5	0.18	0.21	0.25			
8	5	4	6	0.21	0.25	0.32			
10	6.25	4	6	0.21	0.32	0.39			
12	7.5	5	7	0.21	0.32	0.46			
14	8.75	6	8	0.21	0.38	0.52			
16	10	6	8	0.21	0.45	0.60			
18	11.25	6	8	0.25	0.45	0.64			
20	12.5	7	9	0.25	0.50	0.75			
24	15	7	9	0.32	0.60	0.87			
30	18.375	7	9	0.39	0.75	1.00			
36	22.5	8	10	0.46	0.80	1.18			
42	26.25	8	10	0.53	0.94	1.26			
48	30	8	10	0.60	1.06	1.44			

All dimensions in inches

- Long radius, smooth flow elbow up to and including 24" diameter.

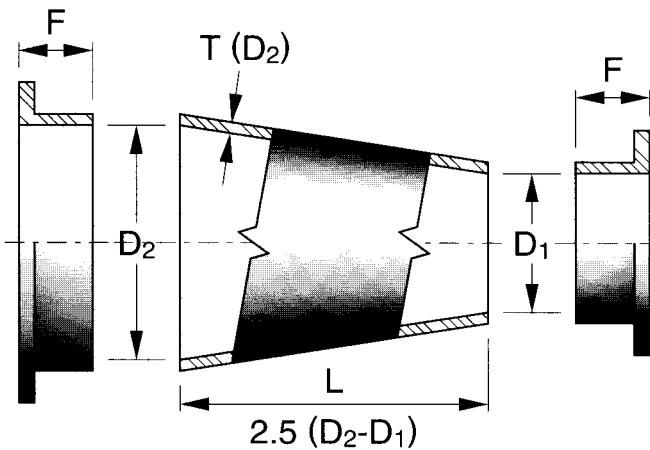
- Long radius, mitred elbows from 30" diameter and over.

- Add dimension (F) to (A) for overall length if a flange connection is required.

- Options
  - Custom sizes and thicknesses
  - Vanstone or full face flanged ends

## PIPING

## CONCENTRIC REDUCER



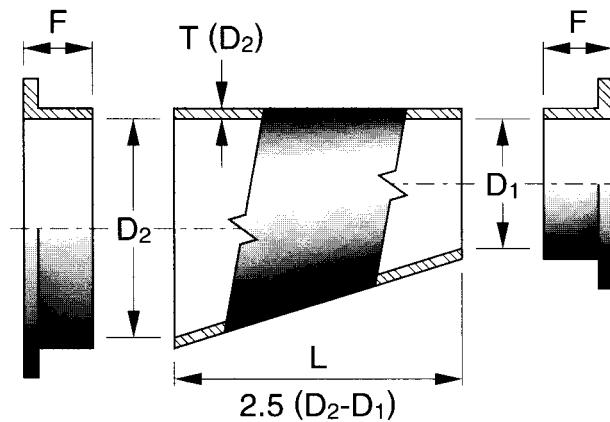
INSIDE DIAMETER	FULL FACE FLANGE		VANSTONE FLANGE			WALL THICKNESS $T(D_2)$
	I.D.	F	F	50 psi	100 psi	
1	3		5	0.18	0.18	0.18
1.5	3		5	0.18	0.18	0.18
2	3		5	0.18	0.18	0.18
3	3		5	0.18	0.18	0.21
4	3		5	0.18	0.21	0.25
6	3		5	0.18	0.21	0.25
8	4		6	0.21	0.25	0.32
10	4		6	0.21	0.32	0.39
12	5		7	0.21	0.32	0.46
14	6		8	0.21	0.38	0.52
16	6		8	0.21	0.45	0.60
18	6		8	0.25	0.45	0.64
20	7		9	0.25	0.50	0.75
24	7		9	0.32	0.60	0.87
30	7		9	0.39	0.75	1.00
36	8		10	0.46	0.80	1.18
42	8		10	0.53	0.94	1.26
48	8		10	0.60	1.06	1.44

All dimensions in inches

- The wall thickness and pressure rating for the reducer is based on the larger diameter ( $D_2$ ).
- Add dimension (F) to (L) for overall length if a flange connection is required.
- Options
  - Custom sizes and thicknesses
  - Vanstone or full face flanged ends

## PIPING

## ECCENTRIC REDUCER

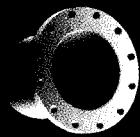
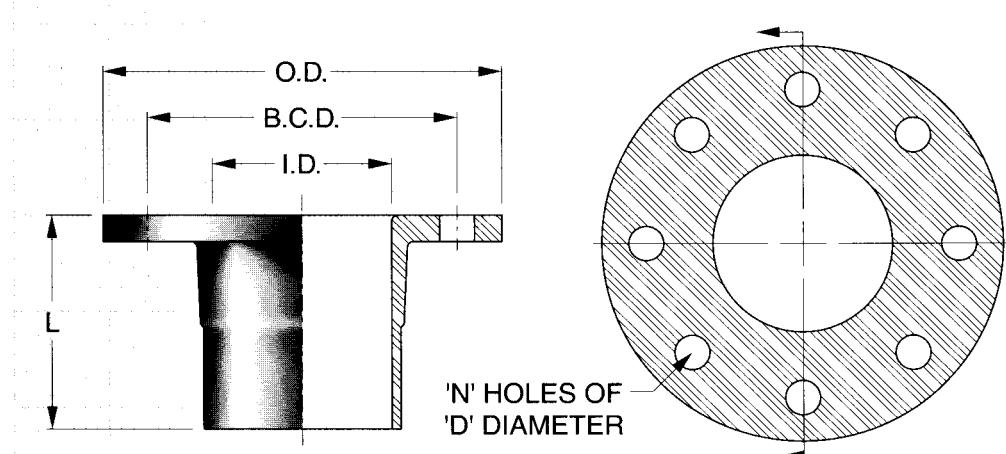


- The wall thickness and pressure rating for the reducer is based on the larger diameter ( $D_2$ ).
- Add dimension (F) to (L) for overall length if a flange connection is required.
- Options
  - Custom sizes and thicknesses
  - Vanstone or full face flanged ends

INSIDE DIAMETER I.D.	FULL FACE FLANGE			VANSTONE FLANGE			WALL THICKNESS T (D <sub>2</sub> )
	F	F	50 psi	100 psi	150 psi		
1	3	5	0.18	0.18	0.18		
1.5	3	5	0.18	0.18	0.18		
2	3	5	0.18	0.18	0.18		
3	3	5	0.18	0.18	0.21		
4	3	5	0.18	0.21	0.25		
6	3	5	0.18	0.21	0.25		
8	4	6	0.21	0.25	0.32		
10	4	6	0.21	0.32	0.39		
12	5	7	0.21	0.32	0.46		
14	6	8	0.21	0.38	0.52		
16	6	8	0.21	0.45	0.60		
18	6	8	0.25	0.45	0.64		
20	7	9	0.25	0.50	0.75		
24	7	9	0.32	0.60	0.87		
30	7	9	0.39	0.75	1.00		
36	8	10	0.46	0.80	1.18		
42	8	10	0.53	0.94	1.26		
48	8	10	0.60	1.06	1.44		

All dimensions in inches

## PIPING | FULL FACE FLANGE - STANDARD DIMENSIONS



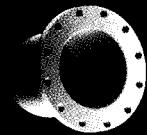
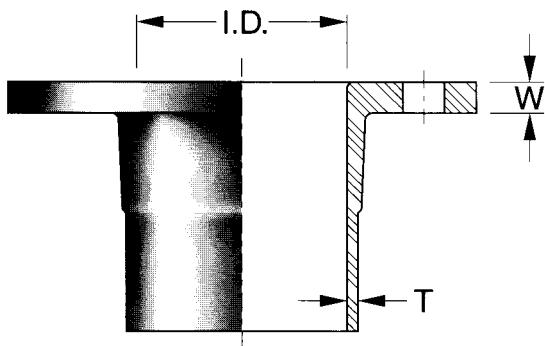
- All bolt holes are spot faced.
- Flanges 24" diameter and under will have gasket rings for a tight seal.
- Custom sizes and thicknesses are available.

INSIDE DIAMETER	LENGTH	FLANGE DIAMETER	BOLT CIRCLE DIAMETER	BOLT HOLE DIAMETER	# OF BOLT HOLES
I.D.	L	O.D.	B.C.D.	D	N
1	6	4.25	3.125	0.625	4
1.5	6	5	3.875	0.625	4
2	6	6	4.75	0.75	4
3	6	7.5	6	0.75	4
4	6	9	7.5	0.75	8
6	8	11	9.5	0.875	8
8	8	13.5	11.75	0.875	8
10	10	16	14.25	1	12
12	10	19	17	1	12
14	12	21	18.75	1.125	12
16	12	23.5	21.25	1.125	16
18	12	25	22.75	1.25	16
20	12	27.5	25	1.25	20
24	12	32	29.5	1.375	20
30	16	38.75	36	1.375	28
36	16	46	42.75	1.625	32
42	16	53	49.5	1.625	36
48	16	59.5	56	1.625	44

All dimensions in inches

## PIPING

## FULL FACE FLANGE - LAMINATE THICKNESS



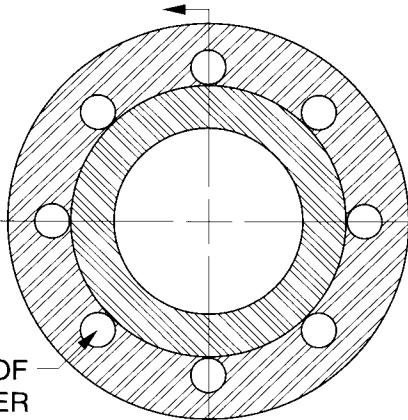
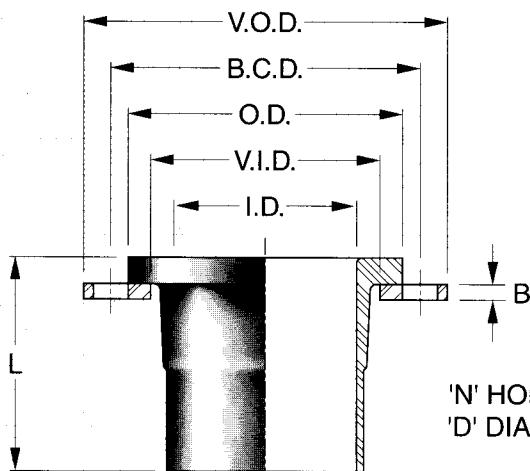
- All bolt holes are spot faced.
- Custom sizes and thicknesses are available.

INSIDE DIAMETER	50 psi		100 psi		150 psi		
	I.D.	T	W	T	W	T	W
1	0.18	0.5	0.18	0.5	0.18	0.563	
1.5	0.18	0.5	0.18	0.5	0.18	0.563	
2	0.18	0.5	0.18	0.563	0.18	0.688	
3	0.18	0.5	0.18	0.688	0.21	0.813	
4	0.18	0.563	0.21	0.813	0.25	0.938	
6	0.18	0.625	0.21	0.875	0.25	1.063	
8	0.21	0.75	0.25	1	0.32	1.25	
10	0.21	0.875	0.32	1.188	0.39	1.438	
12	0.21	1	0.32	1.438	0.46	1.75	
14	0.21	1.063	0.38	1.5	0.52	1.875	
16	0.21	1.188	0.45	1.625	0.60	2.125	
18	0.25	1.25	0.45	1.75	0.64	2.25	
20	0.25	1.313	0.50	1.875	0.75	2.375	
24	0.32	1.5	0.60	2.188	0.82	2.75	
30	0.39	1.875	0.75	2.625	1.00	2.875	
36	0.46	2.25	0.80	2.75	1.18	3.25	
42	0.53	2.5	0.94	3	1.26	3.5	
48	0.60	2.75	1.06	3.25	1.44	3.75	

All dimensions in inches

## PIPING

## VANSTONE FLANGE - STANDARD DIMENSIONS



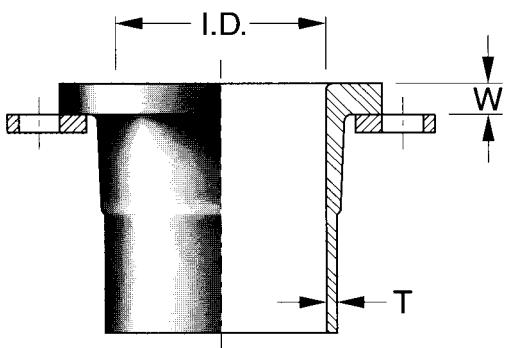
I.D.	L	O.D.	V.I.D.	V.O.D.	B	B.C.D.	D	N
1	6	2.375	1.875	4.25	0.5	3.125	0.625	4
1.5	6	3.125	2.375	5	0.5	3.875	0.625	4
2	6	4	3	6	0.75	4.75	0.75	4
3	6	5.25	4.25	7.5	0.75	6	0.75	4
4	6	6.75	5.25	9	0.75	7.5	0.75	8
6	8	8.625	7.625	11	0.75	9.5	0.875	8
8	8	10.875	9.875	13.5	0.75	11.75	0.875	8
10	10	13.25	12	16	0.75	14.25	1	12
12	10	16	14.625	19	0.75	17	1	12
14	12	17.625	16.5	21	0.75	18.75	1.125	12
16	12	20.125	18.75	23.5	1	21.25	1.125	16
18	12	21.5	20.25	25	1	22.75	1.25	16
20	12	23.75	22.375	27.5	1	25	1.25	20
24	12	28.125	26.75	32	1.25	29.5	1.375	20
30	16	34.625	33	38.75	1.5	36	1.375	28
36	16	41.125	39	46	1.5	42.75	1.625	32
42	16	47.875	45.5	53	1.75	49.5	1.625	36
48	16	54.375	52	59.5	1.875	56	1.625	44

All dimensions in inches

- Standard backup rings - epoxy coated cast iron
- Optional back up rings:
  - epoxy coated mild steel
  - galvanized mild steel
  - SS316
- Custom sizes and thicknesses are available.

## PIPING

## VANSTONE FLANGE - LAMINATE THICKNESS

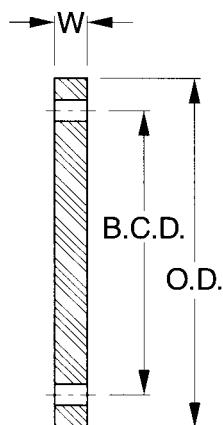
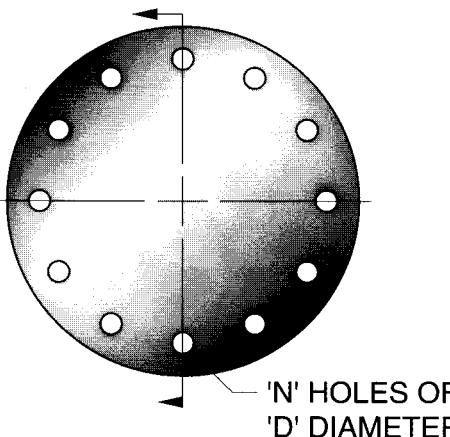


INSIDE DIAMETER IN.	100#		150#		300#	
	T	W	T	W	T	W
1	0.18	0.5	0.18	0.5	0.18	0.563
1.5	0.18	0.5	0.18	0.5	0.18	0.563
2	0.18	0.5	0.18	0.563	0.18	0.688
3	0.18	0.5	0.18	0.688	0.21	0.813
4	0.18	0.563	0.21	0.813	0.25	0.938
6	0.18	0.625	0.21	0.875	0.25	1.063
8	0.21	0.75	0.25	1	0.32	1.25
10	0.21	0.875	0.32	1.188	0.39	1.438
12	0.21	1	0.32	1.438	0.46	1.75
14	0.21	1.063	0.38	1.5	0.52	1.875
16	0.21	1.188	0.45	1.625	0.60	2.125
18	0.25	1.25	0.45	1.75	0.64	2.25
20	0.25	1.313	0.50	1.875	0.75	2.375
24	0.32	1.5	0.60	2.188	0.82	2.75
30	0.39	1.875	0.75	2.625	1.00	2.875
36	0.46	2.25	0.80	2.75	1.18	3.25
42	0.53	2.625	0.94	3	1.26	3.5
48	0.60	2.938	1.06	3.25	1.44	3.75

All dimensions in inches

- » Standard backup rings
  - epoxy coated cast iron
- » Optional back up rings:
  - epoxy coated mild steel
  - galvanized mild steel
  - SS316
- » Custom sizes and thicknesses are available.

## PIPING | BLIND FLANGE



- All bolt holes are spot faced.
- Options:
  - Domed flange
  - Custom sizes and thicknesses

I.D.	O.D.	B.C.D.	D	N	SUS 304 STAINLESS STEEL		
					50 psi	100 psi	150 psi
1	4.25	3.125	0.625	4	0.5	0.5	0.563
1.5	5	3.875	0.625	4	0.5	0.5	0.563
2	6	4.75	0.75	4	0.5	0.563	0.688
3	7.5	6	0.75	4	0.5	0.688	0.813
4	9	7.5	0.75	8	0.563	0.813	0.938
6	11	9.5	0.875	8	0.625	0.875	1.063
8	13.5	11.75	0.875	8	0.75	1	0.25
10	16	14.25	1	12	0.875	1.188	0.438
12	19	17	1	12	1	1.438	1.75
14	21	18.75	1.125	12	1.063	1.5	1.875
16	23.5	21.25	1.125	16	1.188	1.625	2.125
18	25	22.75	1.25	16	1.25	1.75	2.25
20	27.5	25	1.25	20	1.313	1.875	2.375
24	32	29.5	1.375	20	1.5	2.188	2.75
30	38.75	36	1.375	28	1.875	2.625	2.875
36	46	42.75	1.625	32	2.25	2.75	3.25
42	53	49.5	1.625	36	2.625	3	3.5
48	59.5	56	1.625	44	2.938	3.25	3.75

All dimensions in inches