

# Fittings Information

## Physical Specifications

SP SERIES	Nominal Size		A		B		C		Pressure Rating	
	in	mm	in	mm	in	mm	in	mm	psi	MPa
	1 ½	40	6.25	158.8	9.00	228.6	5.75	146.1	3500	24.1
2	50	6.56	166.6	9.12	231.6	6.06	153.9	3500	24.1	
2 ½	65	7.00	177.8	9.00	228.6	6.20	157.5	3500	24.1	
3	75	7.25	190.5	9.00	228.6	6.30	160.0	3000	20.7	
4	100	8.50	215.9	9.00	228.6	6.70	170.2	1500	10.3	
5	125	9.00	228.6	9.00	228.6	8.25	206.6	1500	10.3	
6	150	9.50	241.3	9.00	228.6	7.50	190.5	1000	6.7	



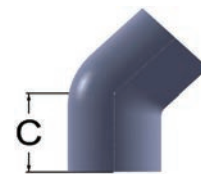
COUPLING

SPH SERIES	Nominal Size		A		B		C		Pressure Rating	
	in	mm	in	mm	in	mm	in	mm	psi	MPa
	4	100	8.50	215.9	9.00	228.6	6.75	171.5	3000	20.7
6	150	11.00	279.8	12.0	304.8	9.28	235.7	2500	10.3	
8	200	12.20	309.9	12.0	304.8	9.80	248.9	1000	6.7	
10	250	12.87	321.9	12.0	304.8	10.0	254.0	800	5.5	



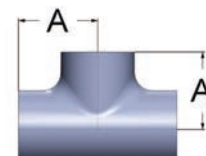
90° ELBOW

CEN SERIES	Nominal Size		A		B		C		Pressure Rating	
	in	mm	in	mm	in	mm	in	mm	psi	MPa
	2	50	6.00	152.4	8.50	215.9	5.49	139.4	800	5.5
3	75	7.00	177.8	8.50	215.9	5.74	145.8	800	5.5	
4	100	8.00	203.2	8.50	215.9	6.25	158.8	800	5.5	



45° ELBOW

11¼°, 22½°, 30° & 60° also available



TEE

Reducing Tees also available

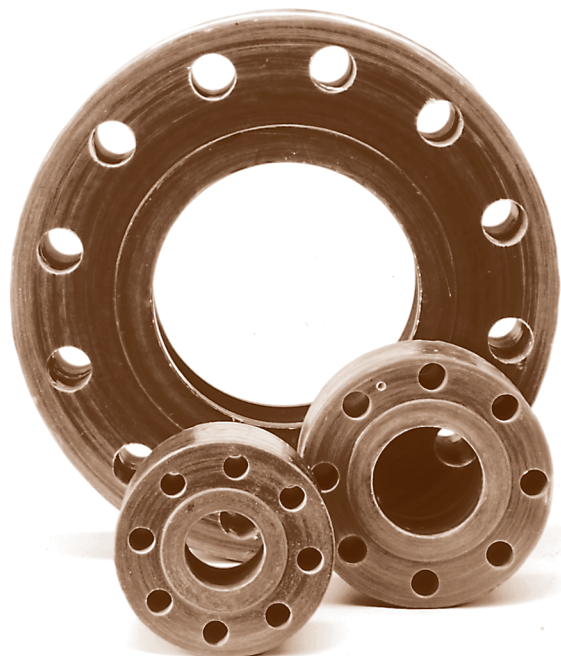
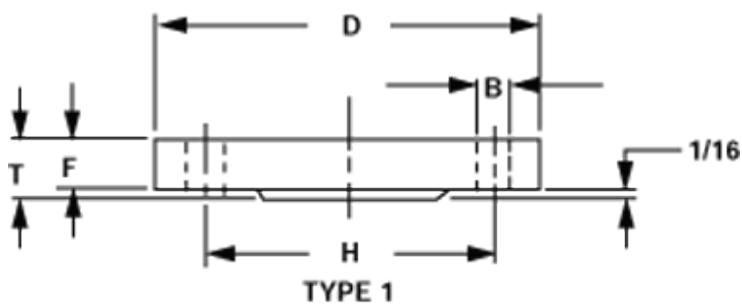
- Note: 1. All stock fittings are rated equal to the highest pressure rating of the matching pipe in a given size and series.  
 2. Concentric reducers, both single and multiple step, are available. Crossover fittings are also available.

## CEN Pipe Flange Specifications

Pipe Size	ANSI Rating*	Nominal Outside Dia	Flange Thickness	Overall Thickness	Bolt Circ. Dia.	Required Number Bolts	Hole Size	Bolt Size	Bolt Lengths
		D	F	T	H		B	in	in <sup>1</sup>
		in	in	in	in				
2 CEN	150 #	6	2	2.06	4 ¾	4	¾	⅝	6
3 CEN	150 #	7 ½	2 ½	2.56	6	4	¾	⅝	6 ¾
4 CEN	150 #	9	3	3.06	7 ½	8	¾	⅝	7 ¾
2 CEN	300 #	6 ½	2	2.06	5	8	¾	⅝	5 ¾
3 CEN	300 #	8 ¼	2 ½	2.56	6 ⅝	8	⅞	¾	7
4 CEN	300 #	10	3	3.06	7 ⅞	8	⅞	¾	8 ¼
2 CEN	600 #	6 ½	2	2.06	5	8	¾	⅝	5 ¾
3 CEN	600 #	8 ¼	2 ½	2.56	6 ⅝	8	⅞	¾	7
4 CEN	600 #	10 ¾	3	3.06	8 ½	8	1	⅞	8 ½
2 CEN	900 #	8 ½	2	2.06	6 ½	8	1	⅞	6 ½
3 CEN	900 #	9 ½	2 ½	2.56	7 ½	8	1	⅞	7 ¼
4 CEN	900 #	11 ½	3	3.06	9 ¼	8	1 ¼	1 ⅝	8 ¾
2 CEN	1500 #	6 ½	2	2.06	5	8	¾	⅝	5 ¾
3 CEN	1500 #	10 ½	2 ½	2.56	8	8	1 ¼	1 ⅝	7 ¾
4 CEN	1500 #	12 ¼	3	3.06	9 ½	8	1 ⅝	1 ⅝	9

\*Dimensions, except thickness, per ANSI B16.5

1. Bolt length is minimum for fiberglass to fiberglass using threaded rod, 2 nuts and 2 SAE washers.



## High Pressure Line Pipe Flange Specifications

Pipe Size	ANSI Rating*	Nominal Outside Dia D	Overall Thickness T	Bolt Circ. Dia. H	Required Number Bolts	Hole Size B	Bolt Size	Bolt Length	Bolt Torque
		in	in	in		in	in	in <sup>1</sup>	ft•lbs
1 ½ SP	150#	5.0	4.5	3.88	4	⅝	½	10 ⅞	60
2 SP	150#	6.0	4.5	4.75	4	¾	⅝	11 ⅞	120
2 ½ SP	150#	7.0	4.5	5.50	4	¾	⅝	11 ⅞	120
3 SP	150#	7.5	4.5	6.00	4	¾	⅝	11 ⅞	120
4 SP	150#	9.0	4.5	7.50	8	¾	⅝	11 ⅞	120
4 SPH	150#	9.0	4.5	7.50	8	¾	⅝	12 ⅞	120
5 SP	150#	10.0	4.5	8.50	8	⅞	¾	11 ¼	150
6 SP	150#	11.0	4.5	9.50	8	⅞	¾	11 ¼	200
6 SPH	150#	11.0	6.0	9.50	8	⅞	¾	14 ¾	200
8 SP	150#	13.5	6.0	11.75	8	⅞	¾	14 ¾	200
10 SPH	150#	16.0	6.0	14.25	12	1	⅞	14 ¾	320
1 ½ SP	300#	6.1	4.5	4.50	4	⅞	¾	11 ¼	200
2 SP	300#	6.5	4.5	5.00	8	¾	⅝	10 ⅞	200
2 ½ SP	300#	7.5	4.5	5.88	8	⅞	¾	11 ¼	200
3 SP	300#	8.2	4.5	6.62	8	⅞	¾	11 ¼	200
4 SP	300#	10.0	4.5	7.88	8	⅞	¾	11 ¼	200
4 SPH	300#	10.0	4.5	7.88	8	⅞	¾	12 ¼	200
5 SP	300#	11.0	4.5	9.25	8	⅞	¾	11 ¼	200
6 SP	300#	12.5	4.5	10.62	12	⅞	¾	11 ¼	200
6 SPH	300#	12.5	6.0	10.62	12	⅞	¾	14 ¾	200
8 SPH	300#	16.5	6.0	13.00	12	1	⅞	15 ¼	320
10 SPH	300#	17.5	6.0	15.25	16	1 ⅛	1	15 ¼	350
1 ½ SP	600#	6.1	4.5	4.50	4	⅞	¾	11 ¼	200
2 SP	600#	6.5	4.5	5.00	8	¾	⅝	10 ⅞	200
2 ½ SP	600#	7.5	4.5	5.88	8	⅞	¾	11 ¼	200
3 SP	600#	8.2	4.5	6.62	8	⅞	¾	11 ¼	200
4 SP	600#	10.75	4.5	8.50	8	1	⅞	11 ½	250
4 SPH	600#	10.75	4.5	8.50	8	1	⅞	12 ½	250
5 SP	600#	13.0	4.5	10.50	8	1 ⅛	1	11 ¾	250
6 SP	600#	14.00	4.5	11.50	12	1 ⅛	1	11 ¾	250
6 SPH	600#	14.00	6.0	11.50	12	1 ⅛	1	16	250
8 SPH	600#	16.50	6.0	13.75	12	1 ¼	1 ⅛	16 ¼	350
10 SPH	600#	20.00	6.0	17.00	16	1 ⅜	1 ¼	16 ¼	375

\*Dimensions, except thickness, per ANSI B16.5

Bolt length is minimum for fiberglass to fiberglass using threaded rod, 2 nuts and 2 SAE washers.

1 For CEN product the recommended torque is 120 ft-lbs.

Spiral wound gaskets are acceptable, however, Graph-Lock® gaskets (TC 3125) can be used up through ANSI 600#.

## High Pressure Line Pipe Flange Specifications

Pipe Size	ANSI Rating*	Nominal Outside Dia D	Overall Thickness T	Bolt Circ. Dia. H	Required Number Bolts	Hole Size B	Bolt Size	Bolt Length	Bolt Torque
		in	in	in		in	in	in <sup>1</sup>	ft•lbs
1 ½ SP	900#	7.00	4.5	4.88	4	1 ⅛	1	11 ⅝	200
2 SP	900#	8.50	4.5	6.50	8	1	⅞	11 ½	200
2 ½ SP	900#	9.62	4.5	7.50	8	1 ⅛	1	11 ⅝	200
3 SP	900#	9.50	4.5	7.50	8	1	⅞	11 ½	200
4 SP	900#	11.50	4.5	9.25	8	1 ¼	1 ⅛	11 ⅞	200
4 SPH	900#	11.50	4.5	9.25	8	1 ¼	1 ⅛	12 ⅞	200
5 SP	900#	13.75	4.5	11.00	8	1 ⅛	1 ¼	12	275
6 SP	900#	15.00	4.5	12.50	12	1 ¼	1 ⅛	11 ⅞	275
6 SPH	900#	15.00	6.0	12.50	12	1 ¼	1 ⅛	16 ¼	275
8 SPH	900#	18.50	6.0	15.50	12	1 ½	1 ⅛	16 ½	350
10 SPH	900#	21.50	6.0	18.50	16	1 ½	1 ⅛	16 ½	375
1 ½ SP	1500#	7.00	4.5	4.88	4	1 ⅛	1	11 ⅝	200
2 SP	1500#	8.50	4.5	6.50	8	1	⅞	11 ½	200
2 ½ SP	1500#	9.62	4.5	7.50	8	1 ⅛	1	11 ⅝	200
3 SP	1500#	10.50	4.5	8.00	8	1 ¼	1 ⅛	11 ⅞	200
4 SP	1500#	12.25	4.5	9.50	8	1 ⅜	1 ¼	12	200
4 SPH	1500#	12.25	4.5	9.50	8	1 ⅜	1 ¼	13	200
5 SP	1500#	14.75	4.5	11.50	8	1 ⅝	1 ½	12 ¾	350
6 SP	1500#	15.50	4.5	12.50	12	1 ½	1 ⅛	12 ½	350
6 SPH	1500#	15.50	6.0	12.50	12	1 ½	1 ⅛	16 ½	350
8 SPH	1500#	19.00	6.0	15.50	12	1 ¾	1 ⅝	16 ¾	450
10 SPH	1500#	23.00	6.0	19.00	16	2 ⅛	2	17	475

\*Dimensions, except thickness, per ANSI B16.5

Bolt length is minimum for fiberglass to fiberglass using threaded rod, 2 nuts and 2 SAE washers.



# Repair Joint & Flanged Lateral Tee Connection

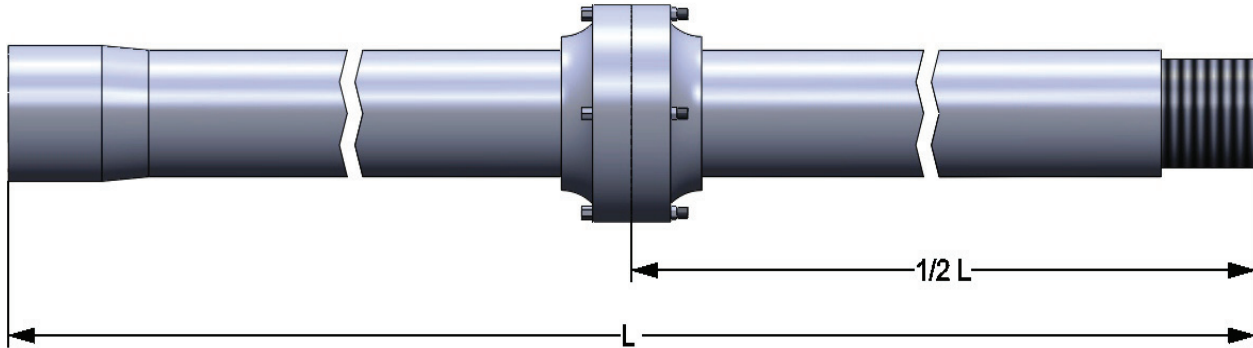
Length (L) (Feet*)	Pipe Type
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29.16  
29.50\*  
29.75\*

SPH  
SP  
CEN

Centron line pipe joints are of constant length. Centron repair joints can be installed easily without cutting or custom fitting and require no adhesives.

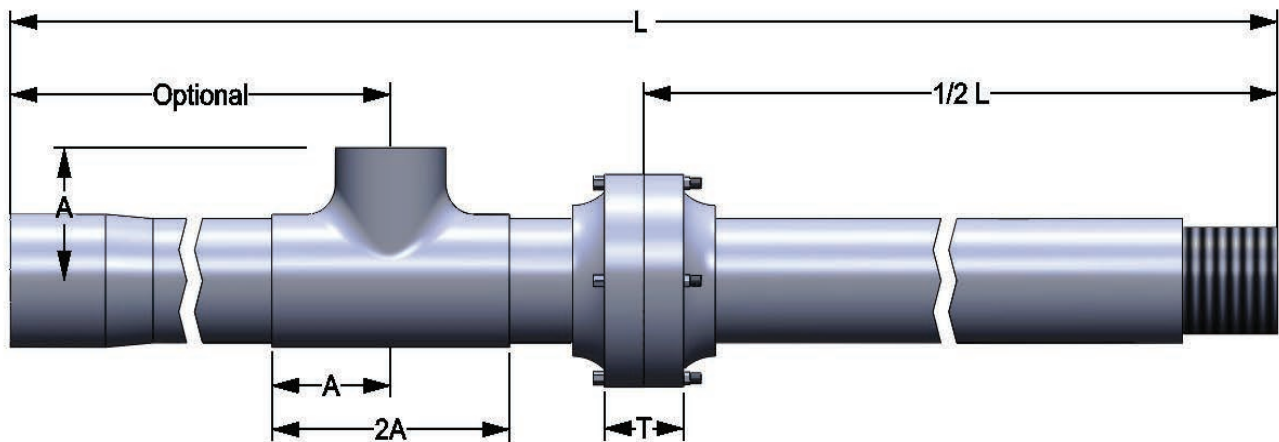
\* Effective November 2009, 6-inch and greater are 29.16 feet in length. Other lengths are available.  
Effective January 2010, 4-inch is 29.16 feet in length. Other lengths are available.



Size in	Pipe Type	L ft.	2A in	T in
2	CEN	29.75	12	4.12
3	CEN	29.75	14	5.12
4	CEN	29.75	16	6.12
1 1/2	SP	29.5	13	9.12
2	SP	29.5	13.12	9.12
2 1/2	SP	29.5	14	9.12
3	SP	29.5	15	9.12
4	SP & SPH	29.5/29.16	17	9.12
6	SPH	29.16	22	12.12
8	SPH	29.16	24.5	12.12
10	SPH	29.16	25.25	12.12

For insertion into existing flow or injection lines for new lateral hookups.

\*See fittings for various ANSI Flange thicknesses.



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North America

17115 San Pedro Ave. Suite 200  
San Antonio, Texas 78232 USA  
Phone: 210 477 7500

South America

Estrada de Acesso à Zona  
Industrial Portuária de Suape, s/no.  
Recife, PE, Brazil 55.590-000  
Phone: 55 81 3501 0023

Europe

P.O. Box 6, 4190 CA  
Geldermalsen, The Netherlands  
Phone: 31 345 587 587

Asia Pacific

No. 7A, Tuas Avenue 3  
Jurong, Singapore 639407  
Phone: 65 6861 6118

Middle East

P.O. Box 17324  
Dubai, UAE  
Phone: 971 4881 3566