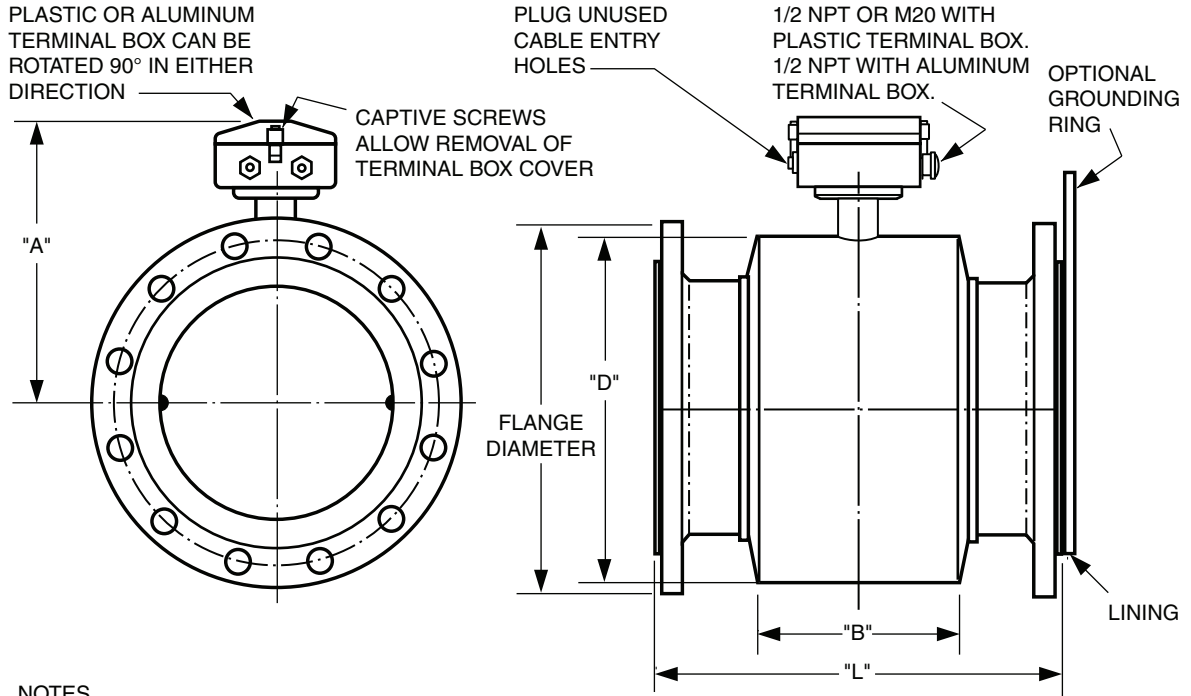


9100A and 9200A Series Flanged Magnetic Flowtubes

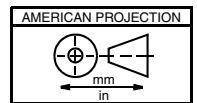
9100A: 1 to 78 in (25 to 2000 mm) Sizes; Ebonite Lining

9200A: 1/2 to 78 in (15 to 2000 mm) Sizes; Neoprene, EPDM, Linatex, Ebonite, or ptfе Lining



NOTES

- 1. THE FLANGE DIAMETER IS PER THE APPLICABLE FLANGE STANDARDS. FOR FLOWTUBE AND GROUNDING RING DIMENSIONS, SEE THE TABLES THAT FOLLOW.
- 2. IN THE FIGURES ABOVE, THE PLASTIC TERMINAL BOX IS SHOWN. THE ALUMINUM TERMINAL BOX HAS A SLIGHTLY SMALLER CONFIGURATION.
- 3. THE PLASTIC TERMINAL BOX IS PROVIDED WITH FOUR 1/2 NPT OR M20 THREADED HOLES FOR CONDUIT OR OPTIONAL CABLE GLANDS. THE ALUMINUM TERMINAL BOX IS PROVIDED WITH TWO 1/2 NPT THREADED HOLES FOR CONDUIT OR OPTIONAL CABLE GLANDS.



For dimensional information specific to your sales order, refer to Certified Dimensional Prints (CDPs) which can be ordered from your Foxboro Sales Office or authorized factory representative.

9100A FLOWTUBE DIMENSIONS (For 9200A, see page 5)

Table 1. 9100A “A”, “B”, “D”, and “L” Dimensions^(a)

Flowtube Size		Nominal Dimensions											
DN Flowmeter Size	Flowmeter Size	Dim. “A” ^(b)		Dim. “B”		Dim. “D”		Dimension “L” for Flange Type ^(c)					
								PN 6 ^(d)	PN 10 ^(e)	PN 16 ^(f)	PN 40 ^(g)	ANSI Class 150 ^(h)	AWWA ⁽ⁱ⁾
mm	in	mm	in	mm	in	mm	in	mm	mm	mm	mm	in	in
25	1	187	7.4	59	2.3	104	4.1	–	–	–	<u>200</u>	<u>7.9</u>	–
40	1 1/2	197	7.8	82	3.2	124	4.9	–	–	–	<u>200</u>	<u>7.9</u>	–
50	2	205	8.1	72	2.8	139	5.5	–	–	–	<u>200</u>	<u>7.9</u>	–
65	2 1/2	212	8.3	72	2.8	154	6.1	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>7.9</u>	–
80	3	222	8.7	72	2.8	174	6.9	<u>200</u>	<u>200</u>	<u>200</u>	272	<u>7.9</u>	–
100	4	242	9.5	85	3.3	214	8.4	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>9.84</u>	–
125	5	255	10.0	85	3.3	239	9.4	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>9.84</u>	–
150	6	276	10.9	85	3.3	282	11.1	<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>	<u>11.81</u>	–
200	8	304	12.0	137	5.4	338	13.3	<u>350</u>	<u>350</u>	<u>350</u>	<u>350</u>	<u>13.8</u>	–
250	10	332	13.1	157	6.2	393	15.5	<u>450</u>	<u>450</u>	<u>450</u>	<u>450</u>	<u>17.7</u>	–
300	12	357	14.1	157	6.2	444	17.5	<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>	<u>19.7</u>	–
350	14	362	14.3	270	10.6	451	17.8	<u>550</u>	<u>550</u>	<u>550</u>	<u>550</u>	<u>21.7</u>	–
400	16	387	15.2	270	10.6	502	19.8	<u>600</u>	<u>600</u>	<u>600</u>	<u>600</u>	<u>23.6</u>	–
450	18	418	16.5	310	12.2	563	22.2	600	600	600	–	23.6	–
500	20	443	17.4	350	13.8	614	24.2	600	600	600	680	23.6	–
600	24	494	19.4	430	16.9	715	28.1	600	600	600	800	23.6	–
700	28	544	21.4	500	19.7	816	32.1	700	700	875	–	–	27.6
–	30	571	22.5	556	21.9	869	34.2	–	–	–	–	–	27.6
800	32	606	23.9	560	22.0	927	36.5	800	800	1000	–	–	31.5
900	36	653	25.7	630	24.8	1032	40.6	900	900	1125	–	–	35.4
1000	40	704	27.7	670	26.4	1136	44.7	1000	1000	1250	–	–	39.4
1100	44	755	29.7	770	30.3	1238	48.7	–	–	–	–	–	43.3
1200	48	810	31.9	792	31.2	1348	53.1	1200	1200	1500	–	–	47.2
1400	54	925	36.4	1000	39.4	1675	65.9	1400	1400	–	–	–	55.1
1500	60	972	38.3	1020	40.2	1672	65.8	1500	1500	–	–	–	59.1
1600	66	1025	40.4	1130	44.5	1915	75.4	1600	1600	–	–	–	63.0
1800	72	1123	44.2	1250	49.2	1974	77.7	1800	1800	–	–	–	70.9
2000	78	1223	48.1	1375	54.1	2174	85.6	2000	2000	–	–	–	78.7

- (a) For optional grounding ring dimensions, see page 10. Note that many “L” dimensions listed in the table above (flowtube length plus end connections) have changed since the last release of this document.
- (b) Dimension “A” is for a flowtube with the plastic terminal box. This dimension is reduced by 30 mm (1.2 in) when the aluminum terminal box is used.
- (c) Underlined length dimensions (Dimension “L”) comply with ISO/DIS Standard 13359.
- (d) Model code option 91xxx-xxCZ-xxx-xx
- (e) Model code option 91xxx-xxCX-xxx-xx
- (f) Model code option 91xxx-xxCE-xxx-xx
- (g) Model code option 91xxx-xxCG-xxx-xx
- (h) Model code option 91xxx-xxCA-xxx-xx
- (i) Model code option 91xxx-xxWC-xxx-xx

9100 FLOWTUBE LINED BORE DIAMETER AND BOLTING INFORMATION

(For DN flange bolting information, see page 4)

Flowtube Size		Lined Bore Diameter				
DN Flowmeter Size	Flowmeter Size	PN 6	PN 10	PN 16	PN 40	ANSI Class 150
mm	in	mm	mm	mm	mm	in
25	1				26	1.02
40	1 1/2				37	1.45
50	2				49	1.92
65	2 1/2			64		2.53
80	3			77		3.02
100	4			99		3.91
125	5			127		4.99
150	6			154		6.07
200	8		203	203		7.97
250	10		257	256		10.13
300	12		306	306		12.05
350	14		337	337		13.25
400	16		387	387		15.24
450	18		436	436		17.17
500	20		489	489		19.25
600	24		586	586		23.07
700	28		687	687		
-	30					
800	32		789	789		
900	36		890	890		
1000	40		992	988		
-	42					
-	44					
1200	48		1192	1188		
1400	54	1392	1388	1384		
-	60					
1600	66	1592	1588	1584		
1800	72	1792	1788	1777		
2000	78	1992	1984	1976		

ANSI Class 150 Bolting			AWWA Bolting		
No. of Bolt Holes	Bolt Hole Dia	Bolt Circle Dia	No. of Bolt Holes	Bolt Hole Dia	Bolt Circle Dia
Number	in	in	Number	in	in
4	0.63	3.13			
4	0.63	3.88			
4	0.75	4.75			
4	0.75	5.50			
4	0.75	6.00			
8	0.75	7.50			
8	0.88	8.50			
8	0.88	9.50			
8	0.88	11.75			
12	1.00	14.25			
12	1.00	17.00			
12	1.13	18.75			
16	1.13	21.25			
16	1.25	22.75			
20	1.25	25.00			
20	1.38	29.50			
			28	1.38	34.00
			28	1.38	36.00
			28	1.38	36.00
			32	1.63	42.75
			36	1.63	47.25
			36	1.63	49.50
			40	1.63	51.75
			44	1.63	53.75
			44	1.88	62.75
			52	1.88	69.25
			52	1.88	76.00
			60	1.88	82.50
			64	2.25	89.00

9100 FLOWTUBE DN FLANGE BOLTING INFORMATION

(For ANSI and AWWA bolting information, see page 3)

Flowtube Size		PN 6			PN 10			PN 16			PN 40		
DN Flowmeter Size (mm)	Inch Flowmeter Size (in)	No. of Bolt Holes	Bolt Hole Dia	Bolt Circle Dia	No. of Bolt Holes	Bolt Hole Dia	Bolt Circle Dia	No. of Bolt Holes	Bolt Hole Dia	Bolt Circle Dia	No. of Bolt Holes	Bolt Hole Dia	Bolt Circle Dia
25	1										4	14	85
40	1 1/2										4	18	110
50	2										4	18	125
65	2 1/2							8	18	145			
80	3							8	18	160			
100	4							8	18	180			
125	5							8	18	210			
150	6							8	22	240			
200	8				8	22	295	12	22	295			
250	10				12	22	350	12	26	355			
300	12				12	22	400	12	26	410			
350	14				16	22	460	16	26	470			
400	16				16	26	515	16	30	525			
450	18				20	26	565	20	30	585			
500	20				20	26	620	20	33	650			
600	24				20	30	725	20	36	770			
700	28				24	30	840	24	36	840			
-	30												
800	32				24	33	950	24	39	950			
900	36				28	33	1050	28	39	1050			
1000	40				28	36	1160	28	42	1170			
-	42												
-	44												
1200	48				32	39	1380	32	48	1390			
1400	54	36	36	1560	36	42	1590	36	48	1590			
-	60												
1600	66	40	36	1760	40	48	1820	40	56	1820			
1800	72	44	39	1970	44	48	2020	44	56	2020			
2000	78	48	42	2180	48	48	2230	48	62	2230			

9200A FLOWTUBE DIMENSIONSTable 2. 9200A Nominal Flowtube Dimensions with EN 1092 and AS Flanges^(a)

Flowtube Size		Nominal Dimensions						Dimension "L" for Flange Type ^(b)					
DN Flowmeter Size	Flowmeter Size	Dim. "A" ^(c)		Dim. "B"		Dim. "D"		PN 6 ^(d)	PN 10 ^(e)	PN 16 ^(f)	PN 25 ^(g)	PN 40 ^(h)	With AS 2129, Table E and AS 4087 CL16, CL21, CL35 ⁽ⁱ⁾
		mm	in	mm	in	mm	in	mm	mm	mm	mm	mm	
15	1/2	187	7.4	59	2.3	104	4.1	–	–	–	–	<u>200</u>	200
25	1	187	7.4	59	2.3	104	4.1	–	–	–	–	<u>200</u>	200
40	1 1/2	197	7.8	82	3.2	124	4.9	–	–	–	–	<u>200</u>	200
50	2	205	8.1	72	2.8	139	5.5	–	–	–	–	<u>200</u>	200
65	2 1/2	212	8.3	72	2.8	154	6.1	<u>200</u>	<u>200</u>	<u>200</u>	–	<u>200</u>	200
80	3	222	8.7	72	2.8	174	6.9	<u>200</u>	<u>200</u>	<u>200</u>	–	272	200
100	4	242	9.5	85	3.3	214	8.4	<u>250</u>	<u>250</u>	<u>250</u>	–	<u>250</u>	250
125	5	255	10.0	85	3.3	239	9.4	<u>250</u>	<u>250</u>	<u>250</u>	–	<u>250</u>	250
150	6	276	10.9	85	3.3	282	11.1	<u>300</u>	<u>300</u>	<u>300</u>	–	<u>300</u>	300
200	8	304	12.0	137	5.4	338	13.3	<u>350</u>	<u>350</u>	<u>350</u>	<u>350</u>	<u>350</u>	350
250	10	332	13.1	157	6.2	393	15.5	<u>450</u>	<u>450</u>	<u>450</u>	<u>450</u>	<u>450</u>	450
300	12	357	14.1	157	6.2	444	17.5	<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>	500
350	14	362	14.3	270	10.6	451	17.8	<u>550</u>	<u>550</u>	<u>550</u>	<u>550</u>	<u>550</u>	550
400	16	387	15.2	270	10.6	502	19.8	<u>600</u>	<u>600</u>	<u>600</u>	<u>600</u>	<u>600</u>	600
450	18	418	16.5	310	12.2	563	22.2	600	600	600	600	–	600
500	20	443	17.4	350	13.8	614	24.2	600	600	600	625	680	600
600	24	494	19.4	430	16.9	715	28.1	600	600	600	750	800	600
700	28	544	21.4	500	19.7	816	32.1	700	700	875	–	–	700
–	30	571	22.5	556	21.9	869	34.2	–	–	–	–	–	750
800	32	606	23.9	560	22.0	927	36.5	800	800	1000	–	–	800
900	36	653	25.7	630	24.8	1032	40.6	900	900	1125	–	–	900
1000	40	704	27.7	670	26.4	1136	44.7	1000	1000	1250	–	–	1000
1100	44	755	29.7	770	30.3	1238	48.7	–	–	–	–	–	1100
1200	48	810	31.9	792	31.2	1348	53.1	1200	1200	1500	–	–	1200
1400	54	925	36.4	1000	39.4	1675	65.9	1400	1400	–	–	–	–
1500	60	972	38.3	1020	40.2	1672	65.8	1500	1500	–	–	–	–
1600	66	1025	40.4	1130	44.5	1915	75.4	1600	1600	–	–	–	–
1800	72	1123	44.2	1250	49.2	1974	77.7	1800	1800	–	–	–	–
2000	78	1223	48.1	1375	54.1	2174	85.6	2000	2000	–	–	–	–

(a) For optional grounding ring dimensions, see page 10. Note that many "L" dimensions listed in the table above (flowtube length plus end connections) have changed since the last release of this document.

(b) Underlined length dimensions (Dimension "L") comply with ISO/DIS Standard 13359.

(c) Dimension "A" is for a flowtube with the plastic terminal box. This dimension is reduced by 30 mm (1.2 in) when the aluminum terminal box is used.

(d) Model code options 92xxx-xxCZ-xxx-xx or 92xxx-xxCY-xxx-xx

(e) Model code options 92xxx-xxCX-xxx-xx or 92xxx-xxCV-xxx-xx

(f) Model code options 92xxx-xxCE-xxx-xx, xxxxx-xxCF-xxx-xx, or xxxxx-xxCM-xxx-xx

(g) Model code option 92xxxx-xxCNxxx-xx

(h) Model code option 92xxx-xxCGxxx-xx

(i) Model code options 92xxxx-xxA1-xxx-xx, 92xxxx-xxA2-xxx-xx, 92xxxx-xxA3-xxx-xx, or 92xxxx-xxA4-xxx-xx.

Table 3. Nominal Flowtube Dimensions with ANSI and AWWA Flanges - in Inches^(a)

Flowtube Size		Nominal Dimensions			Dimension "L" for Flange Type ^(b)		
DN Flowmeter Size	Flowmeter Size	Dim. "A" ^(c)	Dim. "B"	Dim. "D"	ANSI Class 150 ^(d)	ANSI Class 300 ^(e)	AWWA C-207, Class D ^(f)
mm	in	in	in	in	in	in	in
15	1/2	7.4	2.3	4.1	<u>7.9</u>	<u>7.9</u>	–
25	1	7.4	2.3	4.1	<u>7.9</u>	<u>7.9</u>	–
40	1 1/2	7.8	3.2	4.9	<u>7.9</u>	<u>7.9</u>	–
50	2	8.1	2.8	5.5	<u>7.9</u>	<u>7.9</u>	–
65	2 1/2	8.3	2.8	6.1	<u>7.9</u>	10.7	–
80	3	8.7	2.8	6.9	10.7	10.7	–
100	4	9.5	3.3	8.4	<u>9.84</u>	12.2	–
125	5	10.0	3.3	9.4	<u>9.84</u>	13.2	–
150	6	10.9	3.3	11.1	<u>11.81</u>	<u>11.81</u>	–
200	8	12.0	5.4	13.3	<u>13.8</u>	<u>13.8</u>	–
250	10	13.1	6.2	15.5	<u>17.7</u>	<u>17.7</u>	–
300	12	14.1	6.2	17.5	<u>19.7</u>	<u>19.7</u>	–
350	14	14.3	10.6	17.8	<u>21.7</u>	<u>21.7</u>	–
400	16	15.2	10.6	19.8	<u>23.6</u>	<u>23.6</u>	–
450	18	16.5	12.2	22.2	23.6	23.6	–
500	20	17.4	13.8	24.2	23.6	28.7	–
600	24	19.4	16.9	28.1	23.6	33.9	–
700	28	21.4	19.7	32.1	–	–	27.6
–	30	22.5	21.9	34.2	–	–	29.5
800	32	23.9	22.0	36.5	–	–	31.5
900	36	25.7	24.8	40.6	–	–	35.4
1000	40	27.7	26.4	44.7	–	–	39.4
1100	44	29.7	30.3	48.7	–	–	43.3
1200	48	31.9	31.2	53.1	–	–	47.3
1400	54	36.4	39.4	65.9	–	–	55.1
1500	60	38.3	40.2	65.8	–	–	59.1
1600	66	40.4	44.5	75.4	–	–	63.0
1800	72	44.2	49.2	77.7	–	–	70.9
2000	78	48.1	54.1	85.6	–	–	78.7

- (a) For optional grounding ring dimensions, see page 10. Note that many "L" dimensions listed in the table above (flowtube length plus end connections) have changed since the last release of this document.
- (b) Underlined length dimensions (Dimension "L") comply with ISO/DIS Standard 13359.
- (c) Dimension "A" is for a flowtube with the plastic terminal box. This dimension is reduced by 30 mm (1.2 in) when the aluminum terminal box is used.
- (d) Model code option 92xxxxx-xxCAxxx-xx or 92xxxxx-xxCBxxx-xx
- (e) Model code option 92xxxxx-xxCDxxx-xx
- (f) Model code option 92xxxxx-xxWCxxx-xx

9200 FLOWTUBE LINED BORE DIAMETER

Flowtube Size		Lined Bore Diameter						
DN Flowmeter Size ^(a)	Flowmeter Size	PN 6	PN 10	PN 16	PN25	PN 40	ANSI Class 150	ANSI Class 300
mm	in	mm	mm	mm	mm	mm	in	in
25	1					26	1.02	
40	1 1/2					37	1.45	
50	2					49	1.92	
65	2 1/2			64			2.53	
80	3			77			3.02	
100	4			99			3.91	
125	5			127			4.99	
150	6			154			6.07	
200	8		203	203	203	194	7.97	7.63
250	10		257	256	256	246	10.13	9.67
300	12		306	306	306	296	12.05	11.65
350	14		337	337	337	335	13.25	13.02
400	16		387	387	387	381	15.24	15.00
450	18		436	436	434	426	17.17	16.77
500	20		489	489	487	479	19.25	18.86
600	24		586	586	586	574	23.07	22.60
700	28	687	687	687				
–	30							
800	32	789	789	789				
900	36	890	890	890				
1000	40	992	992	988				
–	42							
–	44							
1200	48	1192	1192	1188				
1400	54	1392	1388	1384				
–	60							
1600	66	1592	1588	1584				
1800	72	1792	1788	1777				
2000	78	1992	1984	1976				

(a) For line sizes smaller than 1 inch, contact Invensys.

9200 FLOWTUBE ANSI and AWWA FLANGE BOLTING INFORMATION

(For DN flange bolting information, see page 7)

Flowtube Size ^(a)	ANSI Class 150 Bolting			ANSI Class 300 Bolting			AWWA Bolting		
	No. of Bolt Holes	Bolt Hole Dia	Bolt Circle Dia	No. of Bolt Holes	Bolt Hole Dia	Bolt Circle Dia	No. of Bolt Holes	Bolt Hole Dia	Bolt Circle Dia
in	Number	in	in	Number	in	in	Number	in	in
1	4	0.63	3.13						
1 1/2	4	0.63	3.88						
2	4	0.75	4.75						
2 1/2	4	0.75	5.50						
3	4	0.75	6.00						
4	8	0.75	7.50						
5	8	0.88	8.50						
6	8	0.88	9.50						
8	8	0.88	11.75	12	13	1.00			
10	12	1.00	14.25	16	15.25	1.13			
12	12	1.00	17.00	16	17.75	1.25			
14	12	1.13	18.75	20	20.25	1.25			
16	16	1.13	21.25	20	22.50	1.38			
18	16	1.25	22.75	24	24.75	1.38			
20	20	1.25	25.00	24	27.00	1.38			
24	20	1.38	29.50	24	32.00	1.63			
28							28	1.38	34.00
30							28	1.38	36.00
32							28	1.38	38.50
36							32	1.63	42.75
40							36	1.63	47.25
42							36	1.63	49.50
44							40	1.63	51.75
48							44	1.63	53.75
54							44	1.88	62.75
60							52	1.88	69.25
66							52	1.88	76.00
72							60	1.88	82.50
78							64	2.13	89.00

(a) For line sizes smaller than 1 inch, contact Invensys.

9200 FLOWTUBE DN FLANGE BOLTING INFORMATION

(For ANSI and AWWA bolting information, see page 8)

Flowtube Size ^(a)	PN 6			PN 10			PN 16			PN 25			PN 40		
	No. of Bolt Holes	Bolt Hole Dia	Bolt Circle Dia	No. of Bolt Holes	Bolt Hole Dia	Bolt Circle Dia	No. of Bolt Holes	Bolt Hole Dia	Bolt Circle Dia	No. of Bolt Holes	Bolt Hole Dia	Bolt Circle Dia	No. of Bolt Holes	Bolt Hole Dia	Bolt Circle Dia
mm	Number	mm	mm	Number	mm	mm	Number	mm	mm	Number	mm	mm	Number	mm	mm
25													4	14	85
40													4	18	110
50													4	18	125
65							8	18	145						
80							8	18	160						
100							8	18	180						
125							8	18	210						
150							8	22	240						
200	8	18	280	8	22	295	12	22	295	12	26	310	12	30	320
250	12	18	335	12	22	350	12	26	355	12	30	370	12	33	385
300	12	22	395	12	22	400	12	26	410	16	30	430	16	33	450
350	12	22	445	16	22	460	16	26	470	16	33	490	16	36	510
400	16	22	495	16	26	515	16	30	525	16	36	550	16	39	585
450	16	22	550	20	26	565	20	30	585	20	36	600	20	39	610
500	20	22	600	20	26	620	20	33	650	20	36	660	20	42	670
600	20	26	705	20	30	725	20	36	770	20	39	770	20	48	795
700	24	26	810	24	30	840	24	36	840						
—															
800	24	30	920	24	33	950	24	39	950						
900	24	30	1020	28	33	1050	28	39	1050						
1000	28	30	1120	28	36	1160	28	42	1170						
—															
—															
1200	32	33	1340	32	39	1380	32	48	1390						
1400	36	36	1560	36	42	1590	36	48	1590						
—															
1600	40	36	1760	40	48	1820	40	56	1820						
1800	44	39	1970	44	48	2020	44	56	2020						
2000	48	42	2180	48	48	2230	48	62	2230						

(a) For line sizes smaller than 1 inch, contact Invensys.

OPTIONAL GROUNDING RING DIMENSIONS FOR 9100A AND 9200A FLOWTUBES

Ring Used With Model(s)	Flowtube Size		Grounding Ring Dimensions				Ring Configuration
	DN Flowmeter Size	Inch Flowmeter Size	Dim. "T1"		Dim. "T2"		
			mm	in	mm	in	
Type "C" Liner Protection Rings^(a)							
9200A	15 mm	1/2 in	1.2	0.047	15	0.59	
9100A and 9200A	25 mm	1 in	1.2	0.047	15	0.59	
	40 mm	1 1/2 in	1.2	0.047	15	0.59	
	50 mm	2 in	1.2	0.047	15	0.59	
	65 mm	2 1/2 in	1.2	0.047	15	0.59	
	80 mm	3 in	1.2	0.047	15	0.59	
	100 mm	4 in	1.2	0.047	15	0.59	
	125 mm	5 in	1.2	0.047	15	0.59	
	150 mm	6 in	1.2	0.047	15	0.59	
	200 mm	8 in	1.2	0.047	15	0.59	
	250 mm	10 in	1.2	0.047	15	0.59	
	300 mm	12 in	1.6	0.063	20	0.79	
	350 mm	14 in	1.6	0.063	20	0.79	
	400 mm	16 in	1.6	0.063	20	0.79	
	450 mm	18 in	1.6	0.063	20	0.79	
	500 mm	20 in	1.6	0.063	20	0.79	
	600 mm	24 in	1.6	0.063	20	0.79	
	700 mm	28 in	2.0	0.079	25	0.98	
	-	30 in	2.0	0.079	25	0.98	
	800 mm	32 in	2.0	0.079	25	0.98	
	900 mm	36 in	2.0	0.079	25	0.98	
-	42 in	2.0	0.079	25	0.98		
-	44 in	2.0	0.079	25	0.98		
1200 mm	48 in	2.0	0.079	25	0.98		
1400 mm	54 in	3.0	0.12	40	1.6		
-	60 in	3.0	0.12	40	1.6		
1600 mm	66 in	3.0	0.12	40	1.6		
1800 mm	72 in	3.0	0.12	40	1.6		
2000 mm	78 in	3.0	0.12	40	1.6		
Type "E" Grounding Rings^(b)							
9200A	200 mm	8 in	8	0.31			
	250 mm	10 in	8	0.31			
	300 mm	12 in	8	0.31			
	350 mm	14 in	8	0.31			
	400 mm	16 in	10	0.39			
	450 mm	18 in	10	0.39			
	500 mm	20 in	10	0.39			
	600 mm	24 in	10	0.39			

(a) Type "C" liner protection/grounding rings are used with Neoprene, EPDM, Linatex, and Ebonite lined flowtubes. Not generally needed for grounding as these liner types are supplied with grounding electrodes.

(b) Type "E" grounding rings are used with ptfе lined flowtubes only. For sizes below 200 mm and above 600 mm, contact Invensys.

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