

PFEIFER INDUSTRIES, LLC.

2180 Corporate Lane, Suite 104 ~ Naperville, IL 60563 USA

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3/8" (0.375") PITCH - L

Pitch Diameter (PD) Calculation

$$PD = (\text{Pitch} \times \text{Number of Teeth}) / \pi$$

Variables:

Pitch 0.375 inch
 Number of teeth 26 Teeth
 Pi (π) 3.14159265 Pi

Result:

PD (Pitch Diameter) = 3.104 inches

Outside Diameter (O.D.) Calculation

$$O.D. = [(\text{Pitch} \times \text{Number of Teeth}) / \pi] - (2 \times \text{Distance from belt pitch line to belt tooth bottom})$$

Variables:

Pitch 0.375 inch
 Number of teeth 26 Teeth
 Pi (π) 3.14159265 Pi
 Distance from belt pitch line to belt tooth bottom 0.015 inches

Result:

O.D. (Outside Diameter) 3.074 inches

Number of Teeth	Inches (in)		Metric (mm)	
	Pitch Diameter (PD)	Outside Diameter (O.D.)	Pitch Diameter (PD)	Outside Diameter (O.D.)
10	1.194	1.164	30.32	29.56
11	1.313	1.283	33.35	32.59
12	1.432	1.402	36.38	35.62
13	1.552	1.522	39.41	38.65
14	1.671	1.641	42.45	41.68
15	1.790	1.760	45.48	44.72
16	1.910	1.880	48.51	47.75
17	2.029	1.999	51.54	50.78
18	2.149	2.119	54.57	53.81
19	2.268	2.238	57.61	56.84
20	2.387	2.357	60.64	59.88
21	2.507	2.477	63.67	62.91
22	2.626	2.596	66.70	65.94
23	2.745	2.715	69.73	68.97
24	2.865	2.835	72.77	72.00
25	2.984	2.954	75.80	75.04
26	3.104	3.074	78.83	78.07
27	3.223	3.193	81.86	81.10
28	3.342	3.312	84.89	84.13
29	3.462	3.432	87.93	87.16
30	3.581	3.551	90.96	90.20
31	3.700	3.670	93.99	93.23
32	3.820	3.790	97.02	96.26
33	3.939	3.909	100.05	99.29
34	4.058	4.028	103.08	102.32
35	4.178	4.148	106.12	105.35
36	4.297	4.267	109.15	108.39
37	4.417	4.387	112.18	111.42
38	4.536	4.506	115.21	114.45
39	4.655	4.625	118.24	117.48
40	4.775	4.745	121.28	120.51
41	4.894	4.864	124.31	123.55
42	5.013	4.983	127.34	126.58
43	5.133	5.103	130.37	129.61
44	5.252	5.222	133.40	132.64
45	5.371	5.341	136.44	135.67

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46	5.491	5.461	139.47	138.71
47	5.610	5.580	142.50	141.74
48	5.730	5.700	145.53	144.77
49	5.849	5.819	148.56	147.80
50	5.968	5.938	151.60	150.83
51	6.088	6.058	154.63	153.87
52	6.207	6.177	157.66	156.90
53	6.326	6.296	160.69	159.93
54	6.446	6.416	163.72	162.96
55	6.565	6.535	166.75	165.99
56	6.685	6.655	169.79	169.02
57	6.804	6.774	172.82	172.06
58	6.923	6.893	175.85	175.09
59	7.043	7.013	178.88	178.12
60	7.162	7.132	181.91	181.15
61	7.281	7.251	184.95	184.18
62	7.401	7.371	187.98	187.22
63	7.520	7.490	191.01	190.25
64	7.639	7.609	194.04	193.28
65	7.759	7.729	197.07	196.31
66	7.878	7.848	200.11	199.34
67	7.998	7.968	203.14	202.38
68	8.117	8.087	206.17	205.41
69	8.236	8.206	209.20	208.44
70	8.356	8.326	212.23	211.47
71	8.475	8.445	215.27	214.50
72	8.594	8.564	218.30	217.54
73	8.714	8.684	221.33	220.57
74	8.833	8.803	224.36	223.60
75	8.952	8.922	227.39	226.63
76	9.072	9.042	230.42	229.66
77	9.191	9.161	233.46	232.69
78	9.311	9.281	236.49	235.73
79	9.430	9.400	239.52	238.76
80	9.549	9.519	242.55	241.79
81	9.669	9.639	245.58	244.82

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Number of Teeth	Inches (in)		Metric (mm)	
	Pitch Diameter (PD)	Outside Diameter (O.D.)	Pitch Diameter (PD)	Outside Diameter (O.D.)
82	9.788	9.758	248.62	247.85
83	9.907	9.877	251.65	250.89
84	10.027	9.997	254.68	253.92
85	10.146	10.116	257.71	256.95
86	10.265	10.235	260.74	259.98
87	10.385	10.355	263.78	263.01
88	10.504	10.474	266.81	266.05
89	10.624	10.594	269.84	269.08
90	10.743	10.713	272.87	272.11
91	10.862	10.832	275.90	275.14
92	10.982	10.952	278.94	278.17
93	11.101	11.071	281.97	281.20
94	11.220	11.190	285.00	284.24
95	11.340	11.310	288.03	287.27
96	11.459	11.429	291.06	290.30
97	11.579	11.549	294.09	293.33
98	11.698	11.668	297.13	296.36
99	11.817	11.787	300.16	299.40
100	11.937	11.907	303.19	302.43
101	12.056	12.026	306.22	305.46
102	12.175	12.145	309.25	308.49
103	12.295	12.265	312.29	311.52
104	12.414	12.384	315.32	314.56
105	12.533	12.503	318.35	317.59
106	12.653	12.623	321.38	320.62
107	12.772	12.742	324.41	323.65
108	12.892	12.862	327.45	326.68
109	13.011	12.981	330.48	329.72
110	13.130	13.100	333.51	332.75
111	13.250	13.220	336.54	335.78
112	13.369	13.339	339.57	338.81
113	13.488	13.458	342.61	341.84
114	13.608	13.578	345.64	344.87
115	13.727	13.697	348.67	347.91
116	13.846	13.816	351.70	350.94
117	13.966	13.936	354.73	353.97

Number of Teeth	Inches (in)		Metric (mm)	
	Pitch Diameter (PD)	Outside Diameter (O.D.)	Pitch Diameter (PD)	Outside Diameter (O.D.)
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119				
120				
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