PENINSULAR CYLINDER CO.

APPROXIMATE NET WEIGHTS OF PENINSULAR AIR & HYDRAULIC CYLINDERS

The following Tables list the approximate net weights of Peninsular Air and Hydraulic Cylinders with various piston rod diameters. The weights shown in Table 1 are for Peninsular Models MH (NFPA) & IMH (Metric) Steel, Heavy Duty Air Cylinders and Series LH Low Pressure Hydraulic Cylinders. The weights shown in Table 2 are for Peninsular Models LM (NFPA) & ILM (Metric) Aluminum Medium Duty Air Cylinders. Table 3 on the following page shows the approximate net weights of Peninsular Models HP (NFPA) & IHP (Metric) High Pressure Hydraulic Cylinders with various piston rod diameters.

To determine the net weight of a cylinder, first select the basic weight for a zero stroke cylinder, then calculate the weight of the cylinder stroke and add the result to the basic weight.

Table 1 - Cylinder Weights in Pounds for Models MH & IMH Air Cylinders & LH Low Pressure Hydraulic Cylinders

		Single Rod Cylinders Basic Weight with Zero Inches of Stroke			Add Per Inch of Stroke	Double Rod Cylinders Basic Weight with Zero Inches of Stroke		Add Per Inch of Stroke
		4 = MF1 5 = MF2 0 = MX0 12 = MX1 11 = MX2 8 = MX3 16 = MS4	3 = MP1 24 = MP2 25 = MP3 21 = MP4 22 = MP5 17 = MF5 18 = MF6	13 = MS1 1 = MS2 15 = MS3 14 = MS7 2 = MT1 7 = MT2 6 = MT4	MH, IMH, LH	0 = MX0 12 = MX1 8 = MX3 4 = MF1 16 = MS4	17 = MF5 13 = MS1 1 = MS2 15 = MS3 14 = MS7 2 = MT1 6 = MT4	MH, IMH, LH
Bore Size	Rod Diameter							
1 1/2	A = 5/8	3.7	4.3		.3	4.2	4.8	.6
	B = 1	4.5	5.1		.4	5.8	6.7	.8
2	A = 5/8	6.5	6.9		.5	8.2	8.6	1
	B = 1	7	7.5		.63	9	9.5	1.3
2 1/2	A = 5/8	9	9.7		.6	11.4	12.1	1.2
	B = 1	9.5	10		.73	12	12.5	1.5
3 1/4	A = 1	16.5	17.5		.8	22	23	1.6
	B = 1 3/8	17	18		1	22.5	23.5	2
4	A = 1	26	31		1	33	38	2
	B = 1 3/8	26.5	31.5		1.2	33.5	38.5	2.5
5	A = 1	39	46		1.1	48	55	2.2
	B = 1 3/8	39.5	46.5		1.3	48.5	55.5	2.6
6	A = 1 3/8	68	77		1.5	80	89	3
8	A = 1 3/8	94	99		2	108	113	4
10	A = 1 3/4	182	188		2.5	178	184	5
12	A = 2	274	282		3.5	270	280	7
14	A = 2 1/2	435	448		4.5	440	655	9

Table 2 - Cylinder Weights in Pounds for Series LM & ILM Air Cylinders

		Single Rod Cylinders Basic Weight with Zero Inches of Stroke			Add Per Inch of Stroke	Double Rod Cylinders Basic Weight with Zero Inches of Stroke			Add Per Inch of Stroke
		0 = MX0 12 = MX1 11 = MX2 8 = MX3 16 = MS4	3 = MP1 25 = MP3 22 = MP5 13 = MS1 1 = MS2 15 = MS3 2 = MT1 7 = MT2	4 = MF1 5 = MF2 17 = MF5 18 = MF6 24 = MP2 21 = MP4 14 = MS7 6 = MT4	LM & ILM	0 = MX0 12 = MX1 8 = MX3 16 = MS4	13 = MS1 1 = MS2 15 = MS3 2 = MT1	4 = MF1 17 = MF5 14 = MS7 6 = MT4	LM & ILM
Bore Size	Rod DIA								
1 1/2	A = 5/8	2.00	2.10	2.70	.18	2.26	2.37	3.05	.36
	B = 1	2.20	2.31	3.46	.40	2.86	3.00	4.50	.80
2	A = 5/8	3.10	3.70	3.60	.21	3.91	4.66	4.54	.42
	B = 1	3.86	4.46	4.36	.35	4.94	5.71	5.58	.70
2 1/2	A = 5/8	4.00	5.00	4.90	.23	5.04	6.30	6.17	.46
	B = 1	4.76	5.76	5.66	.38	6.00	7.26	7.13	.76
3 1/4	A = 1	7.50	10.50	10.30	.42	9.90	13.86	13.60	.84
	B = 1 3/8	8.90	11.90	11.70	.63	11.75	15.71	15.44	1.26
4	A = 1	9.90	14.00	13.90	.45	12.38	17.50	17.38	.90
	B = 1 3/8	11.30	15.40	15.30	.66	14.13	19.25	19.13	1.32
5	A = 1	13.40	18.40	19.60	.51	16.48	22.63	24.11	1.02
	B = 1 3/8	14.80	19.80	21.00	.73	18.20	24.35	25.83	1.46
6	A = 1 3/8	22.90	31.90	32.20	.77	27.02	37.64	38.00	1.54
	B = 1 3/4	24.70	32.80	34.00	1.03	28.90	38.38	39.78	2.06
8	A = 1 3/8	36.40	43.50	35.00	1.06	41.86	50.03	40.25	2.12
	B = 1 3/4	38.20	44.30	36.80	1.32	43.93	50.95	42.32	2.64

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THESE WEIGHTS ARE APPROXIMATE ONLY

APPROXIMATE NET WEIGHTS OF PENINSULAR AIR & HYDRAULIC CYLINDERS
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Table 3 - Cylinder Weights in Pounds for Series HP and IHP High Pressure Hydraulic Cylinders

Bore Size	Rod DIA	Single Rod Cylinders Basic Weight with Zero Inches of Stroke		Add Per Inch of Stroke	Double Rod Cylinders Basic Weight with Zero Inches of Stroke		Add Per Inch of Stroke
		0 = MX0 4 = MF1 12 = MX1 5 = MF2 11 = MX2 17 = MF5 8 = MX3 18 = MF6 16 = MS4	3 = MP1 2 = MT1 25 = MP3 7 = MT2 22 = MP5 6 = MT4 1 = MS2 28 = ME5 15 = MS3 29 = ME6 14 = MS7	HP & IHP	4 = MF1 17 = MF5 0 = MX0 12 = MX1 8 = MX3 16 = MS4	28 = ME5 13 = MS1 1 = MS2 14 = MS7 2 = MT1 6 = MT4 15 = MS3	HP & IHP
1 1/2	A = 5/8	7.8	9	.5	9.7	10.8	.6
	B = 1	8.4	9.3	.6	9.1	10.7	.8
2	A = 1	11.6	13.2	.8	14.6	16.8	1
	B = 1 3/8	13.5	17.1	1	19.4	20.6	1.4
2 1/2	A = 1	17	19.5	1.1	21	24.5	1.3
	C = 1 3/4	22.5	25.5	1.5	27	30	2.2
3 1/4	A = 1 3/8	32	41	1.8	43	52	2.2
	C = 2	37	46	2.2	48	57	3.1
4	A = 1 3/4	48	53	2.5	59	63	3.2
	C = 2 1/2	52	58	3.2	92	97	4.6
5	A = 2	76	82	3.4	96	102	4.8
	D = 3 1/2	88	86	5.2	117	123	7.9
6	A = 2 1/2	125	133	5.2	153	159	6.6
	D = 4	133	140	7.3	182	190	10.9
8	A = 3 1/2	262	276	9	323	331	11.7
	C = 5 1/2	300	309	13	390	411	19.7
10	D = 4 1/2	607	646	15	650	689	20
	E = 5	619	656	16	669	706	21
	B = 5 1/2	628	667	17	692	731	24
12	A = 5 1/2	1000	1057	22	1064	1121	29
	C = 7	1036	1094	26	1137	1195	37
14	A = 7	1485	1520	28	1586	1621	39

Weights in Pounds for NFPA Cylinder Mounting Accessories

Rod Threads	Pin DIA	NFPA Rod Clevis (with Pin Attached)		Rod Eye		Rod Alignment Coupler	
		Part#	Weight	Part#	Weight	Part#	Weight
7/16-20	0.50	C1150-86	.4	C1150-65G	.3	C1150-79G	.5
1/2-20	0.50	C1150-86G	.4	C1150-65	.3	C1150-79	.5
5/8-18	0.50	C1150-86P	.4	C1150-65P	.3	C1150-79P	.5
3/4-16	0.75	C1200-86	1.3	C1200-65	1.0	C1200-79	1.0
7/8-14	0.75	C1200-86G	1.3	C1200-65I	1.0	C1200-79G	1.0
1-14	1.00	C1400-86	3.6	C1400-65	2.0	C1400-79	2.0
1 1/4-12	1.00	C1400-86G	3.6	C1400-65G	2.0	C1600-79	4.0
1 1/4-12	1.38	C1600-86	7.0	C1600-65	12.0	NA	NA
1 1/2-12	1.38	C1600-86G	7.0	C1600-65I	12.0	C1800-79	6.0
1 1/2-12	1.75	C1800-86	14.0	C1800-65	14.0	NA	NA
1 3/4-12	1.75	C1800-86G	14.0	NA	NA	C1800-79G	6.0
1 7/8-12	2.00	C1900-86	20.0	C1900-65	19.0	C1900-79	13.0
2 1/4-12	2.00	C1900-86G	20.0	NA	NA	C1901-79	20.0
2 1/4-12	2.50	C1901-86	31.0	C1901-65	25.0	NA	AN
2 1/2-12	3.00	C1902-86	44.0	C1902-65	45.0	C1902-79	28.0
3 1/4-12	3.50	C1904-86	67.0	C1904-65	60.0	C1904-79	38.0
4-12	4.00	C1906-86	105.0	C1906-65	80.0	C1906-79	55.0

Pin DIA	Pivot Bracket		Clevis Bracket		Straight Clevis Pin	
	Part#	Weight	Part#	Weight	Part#	Weight
0.50	C1150-76	.6	C1150-78	.6	C1150-66	.1
0.75	C1200-76	3.0	C1200-78	3.0	C1200-66	.3
1.00	C1400-76	6.0	C1400-78	6.0	C1400-66	.6
1.38	C1600-76	12.0	C1600-78	12.0	C1600-66	1.0
1.75	C1800-76	20.0	C1800-78	20.0	C1800-66	4.0
2.00	C1900-76	27.0	C1900-78	27.0	C1900-66	5.0
2.50	C1901-76	40.0	C1901-78	40.0	C2500-66	9.0
3.00	C1902-76	51.0	C1902-78	51.0	C3000-66	14.0
3.50	C1904-76	100.0	C1904-78	100.0	C3500-66	25.0
4.00	C1906-76	170.0	C1906-78	170.0	C4000-66	40.0

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