Pipe Pier Sizing Chart

PIPE PIER LOAD CALCULATION CHART
MULTIPLE CONDUIT APPLICATIONS USING RIGID STEEL (HEAVY DUTY) CONDUIT

CONDUIT SIZE (Nominal)	Weight / Ft of Conduit Empty	Maximum Weight / Ft Of Conduit & Conductor	WHEN CONDUIT IS UP TO 25% FULL	WHEN CONDUIT IS 25%-50% FULL	WHEN CONDUIT IS 50%-75% FULL	WHEN CONDUIT IS 75%-100% FULL
1/2”	.85 lbs/ft	1.20 lbs/ft	.30 lbs/ft	.60 lbs/ft	.90 lbs/ft	1.20 lbs/ft
3/4”	1.13 lbs/ft	1.80 lbs/ft	.45 lbs/ft	.90 lbs/ft	1.35 lbs/ft	1.80 lbs/ft
1”	1.68 lbs/ft	2.60 lbs/ft	.65 lbs/ft	1.30 lbs/ft	1.95 lbs/ft	2.60 lbs/ft
1-1/4”	2.28 lbs/ft	4.30 lbs/ft	1.08 lbs/ft	2.15 lbs/ft	3.23 lbs/ft	4.30 lbs/ft
1-1/2”	2.73 lbs/ft	5.90 lbs/ft	1.48 lbs/ft	2.95 lbs/ft	4.43 lbs/ft	5.90 lbs/ft
2”	3.68 lbs/ft	8.50 lbs/ft	2.13 lbs/ft	4.25 lbs/ft	6.38 lbs/ft	8.50 lbs/ft
2-1/2”	5.82 lbs/ft	11.50 lbs/ft	2.88 lbs/ft	5.75 lbs/ft	8.63 lbs/ft	11.50 lbs/ft
3”	7.62 lbs/ft	16.50 lbs/ft	4.13 lbs/ft	8.25 lbs/ft	12.38 lbs/ft	16.50 lbs/ft
3-1/2”	9.20 lbs/ft	19.00 lbs/ft	4.75 lbs/ft	9.50 lbs/ft	14.25 lbs/ft	19.00 lbs/ft
4”	10.89 lbs/ft	24.80 lbs/ft	6.20 lbs/ft	12.40 lbs/ft	18.60 lbs/ft	24.80 lbs/ft
5”	14.81 lbs/ft	35.90 lbs/ft	8.98 lbs/ft	17.95 lbs/ft	26.93 lbs/ft	35.90 lbs/ft
6”	19.19 lbs/ft	50.70 lbs/ft	12.68 lbs/ft	25.35 lbs/ft	38.03 lbs/ft	50.70 lbs/ft

HOW TO USE THE CHART

APPLICATION: Choose the appropriate conduit size and the amount of conductor contained in the conduit. The chart indicates the weight per foot of conduit.

To choose the proper Pipe Pier support simply divide the cumulative weight per foot by the maximum capacity of the support. (Refer to the submittal sheets for the maximum loading capacities.)

EXAMPLE #1: If you have a 2” Conduit which is filled 75% - 100% with conductor and two 1” Conduits that are filled 25% - 50% with conductor, you have 8.50 + 1.30 + 1.30 = 11.10 lbs/ft. Therefore; 150 divided by 11.10 lbs/ft = 13.51 ft for the maximum spacing using a PP150; however maximum recommended spacing is 10 feet between supports so the support blocks should be spaced at 10 foot intervals on straight runs and within 2 feet of any change of direction and all piping should be supported within 3 feet of each outlet box, cabinet, or fitting.

EXAMPLE #2: If you have a 2” Conduit which is filled 75% - 100% with conductor and two 1” Conduits that are filled 25% - 50% with conductor, you have 8.50 + 1.30 + 1.30 = 11.10 lbs/ft. Therefore; 50 divided by 11.10 lbs/ft = 4.50 ft for the maximum spacing using a PP50 and within 2 feet of any change of direction and all piping should be supported within 3 feet of each outlet box, cabinet, or fitting.

MAXIMUM RECOMMENDED SPACING BETWEEN BLOCKS IS 10 FEET

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