To use chart, find the gauge of your common wire and the gauge of your control wire. The number that joins the two gauge sizes on the chart is the maximum number of feet of wire that can be used for installation. For example, if you use a 12 gauge common wire combined with an 18 gauge wire to control the valves, a 1,504 foot wire run is acceptable. (Based on a 20 VA transformer)

Control Wire Size (ft)												
	SIZE	4	6	8	10	12	14	16	18	20	22	
Common Wire Size (ft)	4	24,000	18,461	13,333	9,600	6,522	4,332	2,721	1,807	1,159	729	
	6	18,462	15,000	11,429	8.571	6,030	4,110	2,632	1,767	1,143	723	
	8	13,333	11,429	9,231	7,273	5,357	3,785	2,495	1,705	1,116	712	
	10	9,600	8,571	7,278	6,000	4,633	3,409	2,326	1,624	1,081	968	
	12	6,522	6,030	5,357	4,633	3,774	2,920	2,087	1,504	1,027	675	
	14	4,332	4,110	3,785	3,409	2,920	2,381	1,796	1,347	951	641	
	16	2,721	2,632	2,495	2,326	2,087	1,796	1,442	1,137	842	589	
	18	1,807	1,767	1,705	1,624	1,504	1,347	1,137	939	728	531	
	20	1,159	1,143	1,116	1,081	1,027	951	842	728	594	456	
	22	729	723	712	698	675	641	589	531	456	370	

The maximum PR values listed below are as suggested by the United States Department of Agriculture. The values are average and may vary with respect to actual soil and ground cover condition.

	Maximum Precipitation Rates: Inches Per Hour								
Soil Textur e	0 to 5% slope		5 to 8% slope		8 to 12% slope		12% + slope		
	Cover	Bare	Cover	Bare	Cover	Bare	Cover	Bare	
Course sandy soils	2.00	2.00	2.00	1.50	1.50	1.0	1.0	0.50	
Course sandy soils over compact subsoils	1.75	1.50	1.25	1.00	1.00	0.75	0.75	0.40	
Light sandy loams uniform	1.75	1.00	1.25	0.80	1.00	0.60	0.75	0.40	
Light sandy loams over compact subsoils	1.25	0.75	1.00	0.50	0.75	0.40	0.50	0.30	
Uniform silt loams	1.00	0.50	0.80	0.40	0.60	0.30	0.40	0.20	
Silt loams over compact subsoil	0.60	0.30	0.50	0.25	0.40	0.15	0.30	0.10	
Heavy clay or clay loam	0.20	0.15	0.15	0.10	0.12	0.08	0.10	0.06	