

INTEGRAL TWO-STAGE REGULATORS

Excela-Flo Quick Reference Guide



Innovation
Made
Simple

Free tech support call: 269 789 6700

LOAD BTU/HR.	DISTANCE maximum distance from regulator outlet to furthest appliance	PIPE TO APPLIANCE	MEC REGULATOR	MEC PIGTAILS		
100,000	10 feet	1/2" CTS Iron Pipe or copper tubing @ 11" water column regulator set pressure	 MEGR-1232-HBF F. POL X 1/2" MEGR-1232-HFF F. POL X 3/4" MEGR-1232-BBF 1/4" X 1/2"	POL X POL	Length	Part. No.
				3/8" tube OD	12"	ME1680-12
				1/4" tube OD	12"	ME1664-12
				3/8" tube OD	6"	ME1680-06
200,000	35 feet	5/8" copper tubing @ 11" water column regulator set pressure	 MEGR-1232-HBF F. POL X 1/2" MEGR-1232-HFF F. POL X 3/4" MEGR-1232-BBF 1/4" X 1/2"			
	100 feet	3/4" IPS Iron pipe @ 11" water column regulator set pressure				
300,000	10 Feet	5/8" copper tubing @ 11" water column regulator set pressure	 MEGR-1232-HBF F. POL X 1/2" MEGR-1232-HFF F. POL X 3/4" MEGR-1232-BBF 1/4" X 1/2"	POL X POL	Length	Part. No.
				3/8" tube OD	12"	ME1680-12
				1/4" tube OD	12"	ME1664-12
				3/8" tube OD	6"	ME1680-06
300,000	50 Feet	3/4" IPS Iron pipe @ 11" water column regulator set pressure	 MEGR-1232-HBF F. POL X 1/2" MEGR-1232-HFF F. POL X 3/4" MEGR-1232-BBF 1/4" X 1/2"			
300,000	30 Feet	3/4" IPS Iron pipe @ 11" water column regulator set pressure	 MEGR-1232-HFF F. POL X 3/4" MEGR-1632-HCF F. POL X 1/2" MEGR-1632-BCF 1/4" X 1/2"	POL X POL	Length	Part. No.
				3/8" tube OD	12"	ME1680-12
				1/4" tube OD	12"	ME1664-12
				3/8" tube OD	6"	ME1680-06
300,000	70 Feet	1" IPS Iron pipe @ 11" water column regulator set pressure	 MEGR-1232-HFF F. POL X 3/4" MEGR-1632-HCF F. POL X 1/2" MEGR-1632-BCF 1/4" X 1/2"			
400,000	20 Feet	3/4" IPS Iron pipe @ 11" water column regulator set pressure	 MEGR-1232-HFF F. POL X 3/4" MEGR-1632-JFF F. POL X 3/4" MEGR-1632-CFF 1/4" X 3/4"	POL X POL	Length	Part. No.
				3/8" tube OD	12"	ME1680-12
				1/4" tube OD	12"	ME1664-12
				3/8" tube OD	6"	ME1680-06
400,000	60 Feet	1" IPS Iron pipe @ 11" water column regulator set pressure	 MEGR-1232-HFF F. POL X 3/4" MEGR-1632-JFF F. POL X 3/4" MEGR-1632-CFF 1/4" X 3/4"			

Instructions:

1. Determine the total gas demand for the system by adding up the BTU/hr input from the appliance nameplates and adding demand as appropriate for future appliances.
2. For second stage or integral twin stage piping:

A. Measure length of piping required from outlet of regulator to the appliance furthest away. No other length is necessary to do the sizing.

B. Make a simple sketch of the piping, as shown.

C. Determine the capacity to be handled by each section of piping. For example, the capacity of the line between a and b must handle the total demand of appliances A, B, and C; the capacity of the line from c to d must handle only appliance B, etc.

D. Using one of the above Tables, select proper size of tubing or pipe for each section of piping, using values in BTU/hr for the length determined from step #2-A. If exact length is not on chart, use next longer length. Do not use any other length for this purpose! Simply select the size that shows at least as much capacity as needed for each piping section.
3. For piping between first and second stage regulators

A. For a simple system with only one second stage regulator, merely measure length of piping required between outlet of first stage regulator and inlet of second stage regulator. Select piping or tubing required from one of the Tables.

B. For systems with multiple second stage regulators, measure length of piping required to reach the second stage regulator that is furthest away. Make a simple sketch, and size each leg of piping using Table 1, 2, or 3 using values shown in column corresponding to the length as measured above, same as when handling second stage piping.

