



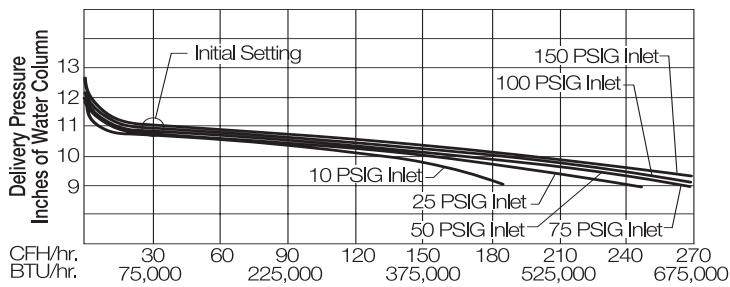
TWIN STAGE REGULATOR

Quick Reference Guide For **REGO** Regulators

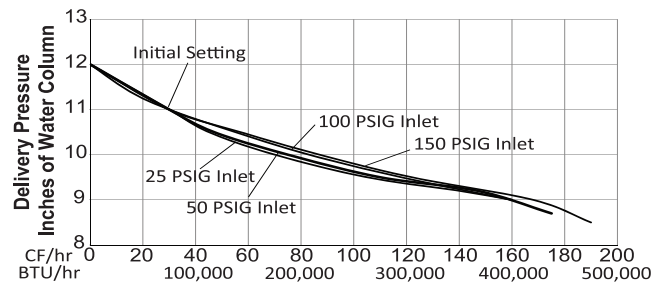
Make sure you are thoroughly trained before you attempt any regulator installation or maintenance. Improper conditions or procedures can cause accidents resulting in property damage and personal injury.

LOAD	DISTANCE Maximum distance from regulator outlet to furthest appliance.	PIPE to Appliance	REGULATOR	PIGTAILS	RISERS	FITTINGS		
100,000 btu/hr.	10 feet <small>See Table 3 (Pipe and Tubing Selection Guide) for more information.</small>	1/2" CTS Poly pipe or copper tubing @ 11" water column regulator set pressure	LV404B39 FPOL X 1/2"	POL x POL Part # 913PS12 1/4" tube x 12" 912PS12 3/8" tube x 5" 913PS05 1/4" tube x 5" 912PS05	1/2" Flex Riser Length Part # 84" PE71353 36" PE71354	Flare x Fitting Part # 1/2" x 1/2" U1-8D		
	35 feet <small>See Table 3 (Pipe and Tubing Selection Guide) for more information.</small>	5/8" copper tubing @ 11" water column regulator set pressure					3/4" Flex Riser Length Part # 84" PE71412 36" PE71410	Flare x Fitting Part # 5/8" x 1/2" U1-10D
	100 feet <small>See Table 3 (Pipe and Tubing Selection Guide) for more information.</small>	3/4" IPS Poly pipe @ 11" water column regulator set pressure						
200,000 btu/hr.	10 feet <small>See Table 3 (Pipe and Tubing Selection Guide) for more information.</small>	5/8" copper tubing @ 11" water column regulator set pressure	LV404B39 FPOL X 1/2"	POL x POL Part # 913PS12 1/4" tube x 12" 912PS12 3/8" tube x 5" 913PS05 1/4" tube x 5" 912PS05	3/4" Flex Riser Length Part # 84" PE71412 36" PE71410	Flare x Fitting Part # 5/8" x 1/2" U1-10D		
	50 feet <small>See Table 3 (Pipe and Tubing Selection Guide) for more information.</small>	3/4" IPS Poly pipe @ 11" water column regulator set pressure					3/4" Flex Riser Length Part # 84" PE71412 36" PE71410	Flare x Fitting Part # 3/4" x 1/2" U1-10D
	30 feet <small>See Table 3 (Pipe and Tubing Selection Guide) for more information.</small>	3/4" IPS Poly pipe @ 11" water column regulator set pressure						
300,000 btu/hr.	70 feet <small>See Table 3 (Pipe and Tubing Selection Guide) for more information.</small>	1" IPS Poly pipe @ 11" water column regulator set pressure	LV404B96 FPOL X 3/4"	3/8" tube x 5" 913PS05 1/4" tube x 5" 912PS05	Anodeless Service Line Riser Length Part # 1" PE78442	Anodeless Service Line Riser		
	20 feet <small>See Table 3 (Pipe and Tubing Selection Guide) for more information.</small>	3/4" IPS Poly pipe @ 11" water column regulator set pressure						
400,000 btu/hr.	60 feet <small>See Table 3 (Pipe and Tubing Selection Guide) for more information.</small>	1" IPS Poly pipe @ 11" water column regulator set pressure	LV404B96 FPOL X 3/4"	3/8" tube x 5" 913PS05 1/4" tube x 5" 912PS05	Anodeless Service Line Riser Length Part # 1" PE78442	Anodeless Service Line Riser		
	20 feet <small>See Table 3 (Pipe and Tubing Selection Guide) for more information.</small>	3/4" IPS Poly pipe @ 11" water column regulator set pressure						

LV404B96



LV404B39



NOTE: Pipe sizing based on 11" water column inlet with 1/2" water column drop. Critical installations should be verified with regulator flow chart information for optimum system performance.

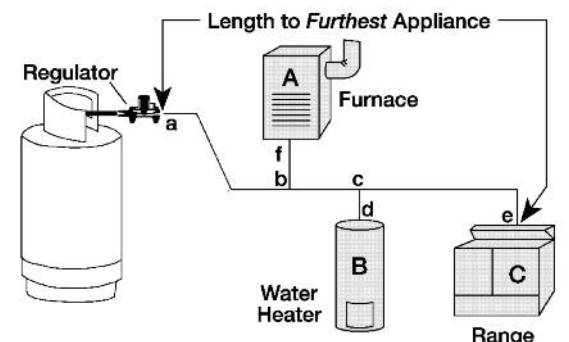
Piping & Tubing Sizing Instructions

Use the following simple method to assure the selection of the correct sizes of piping and tubing for LP-Gas vapor systems. Piping between first and second stage regulators is considered, as well as low pressure (inches water column) piping between second stage, single stage, or integral twin stage regulators and appliances.

INSTRUCTIONS:

- 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.
- For second stage or integral twin stage piping:
 - Measure length of piping required from outlet of regulator to the appliance furthest away. No other length is necessary to do the sizing.
 - Make a simple sketch of the piping, as shown.
 - 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.
 - Using Table 3 select proper size of tubing or pipe for each section of piping, using values in BTU/hr for the length determined from step #2-

- 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.
- For piping between first and second stage regulators
 - 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 Table 1.
 - 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.



See Piping & Tubing Selection Guide Poster For Examples and Reference Tables or Rego's LP-GAS Serviceman's Manual L-545



GAS EQUIPMENT COMPANY, Inc.

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