

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.

BTU Load

100,000 btu/hr.

DISTANCE: 10 feet
PIPE SIZE: 1/2" CTS
Poly pipe or copper tubing @ 11" water column regulator set pressure

DISTANCE: 35 feet
PIPE SIZE: 5/8"
copper tubing @ 11" water column regulator set pressure

DISTANCE: 100 feet
PIPE SIZE: 3/4" IPS
Poly pipe @ 11" water column regulator set pressure

REGULATOR:

LV404B39
FPOL x 1/2 MPT



If copper piping is chosen see "Copper Piping" for size & part number

200,000 btu/hr.

DISTANCE: 10 feet
PIPE SIZE: 5/8" copper tubing
@ 11" water column regulator set pressure

DISTANCE: 50 feet
PIPE SIZE: 3/4" IPS Poly pipe
@ 11" water column regulator set pressure

REGULATOR:

LV404B39
FPOL x 1/2 MPT



If copper piping is chosen see "Copper Piping" for size & part number

300,000 btu/hr.

DISTANCE: 30 feet
PIPE SIZE: 3/4" IPS Poly pipe
@ 11" water column regulator set pressure

DISTANCE: 70 feet
PIPE SIZE: 1" IPS Poly pipe
@ 11" water column regulator set pressure

REGULATOR:

LV404B96
FPOL x 3/4 MPT



If copper piping is chosen see "Copper Piping" for size & part number

400,000 btu/hr.

DISTANCE: 20 feet
PIPE SIZE: 3/4" IPS Poly pipe
@ 11" water column regulator set pressure

DISTANCE: 20 feet
PIPE SIZE: 1" IPS Poly pipe
@ 11" water column regulator set pressure

REGULATOR:

LV404B96
FPOL x 3/4 MPT



If copper piping is chosen see "Copper Piping" for size & part number

Piping & Tubing Sizing Instructions

This method will assure the selection of the correct sizes of piping and tubing for LPGas 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:

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. 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 & B must handle the total demand of appliances A, B, & C; the capacity of the line from c to d must handle only appliance B, etc.

D. 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 system with only one second stage regulator, measure length of piping required between outlet of first stage and inlet of second stage regulators. Select piping or tubing required.

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 the table 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

Then Choose Your Pigtails, Nuts, Fittings & Risers

PIGTAILS:

Type	Size	Part #
M.POL x M.POL	1/4" tube x 12"	912PS12
M.POL x M.POL	3/8" tube x 12"	913PS12
M.POL x M.POL	1/4" tube x 20"	912PS20
M.POL x M.POL	3/8" tube x 20"	913PS20
M.POL x M.POL	1/4" tube x 30"	912PS30
M.POL x M.POL	3/8" tube x 30"	913PS30



NUTS:



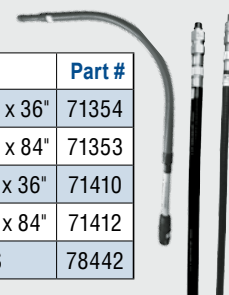
Size	Part #
1/2" nut	NS4F
5/8" nut	NS4I

FITTINGS:



	Size		Part #
	MFL	MPT	
1/2"	1/2"	48FF	
5/8"	1/2"	48IF	

RISERS:



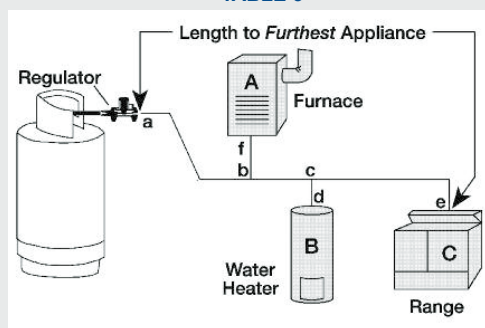
Type	Size	Part #
Flex	1/2" MPT x 1/2" CTS x 36"	71354
Flex	1/2" MPT x 1/2" CTS x 84"	71353
Flex	3/4" MPT x 3/4" IPS x 36"	71410
Flex	3/4" MPT x 3/4" IPS x 84"	71412
Hard	1" MPT x 1" IPS	78442

COPPER TUBING:



Size	Part #
1/2" OD x 50'	CCR-1/2 X 50
1/2" OD x 100'	CCR-1/2 X 100
5/8" OD x 50'	CCR-5/8 X 50
5/8" OD x 100'	CCR-5/8 X 100

TABLE 3



See Rego's LP-GAS Serviceman's Manual L-545 for Examples & Reference Tables