

Manifold Design & Build Instructions

NECESSARY INFORMATION REQUIRED

- Number of LPG Cylinders to be connected and preferred length of connection hose. This denotes the quantity of cylinder hoses required and their length.
- Size of cylinders (45, 90, 210kg), and desired overall length of each side. This determines actual HC manifold lengths used.
eg: 2 x 210kg at 750mm diam. May require a 1M long manifold (HC4) in lieu of a HC2.
- Liquid or Vapour duty.
This determines the type of cylinder connection hose, inlet fitting, relief valve option and type/location of the isolating valve.
- Configuration: straight in-line, or 90' elbow / tee etc.
- Number of blank ends, and number / type of outlets – flanged / screwed nipple.

Vapour Manifolds

- Use standard **HC** manifolds.
- Add appropriate number of blank end flanges **FKYK86-15**
- Add appropriate number of screwed outlet flanges **FKYK24 or FKYK25**
- Add appropriate number of connection pigtails **HO16xx**. (xx varies per length required)



Picture shows one side of a MAN3V (manifold 3x3, Vapour duty).

Liquid Manifolds

- Remove ¼" plugs (**BF315204**) from top fittings of **FKHC(x)** (**x** =manifold number of line connections), and insert **FSH110-250** HRV. - One HRV per manifold side
- Remove check ball valves **FKYK8C** for each required hose connection, and plug redundant valves with ¼" Hex plugs **BF315204** (unless using them all)
- Add appropriate number of blank end flanges **FKYK86-15**
- Add appropriate number of screwed outlet flanges **FKYK25**
- Add appropriate number of connection hoses (length to suit), valves, and inlet fittings **GPS-ECN-TF-FXF-24** (600mm) connectors, (or GPS-TF02-002-17-34 LifeGuard hoses) & **CGA-555 inlet fittings & BVMVGASMF/008**

NOTE: Ball valve is fitted at inlet end with handle located over CGA-555 in open position. This way it is necessary to close the valve before removing the CGA-555 from the cylinder thus preventing unwanted liquid LPG release.



Picture shows one side of a MAN3L (manifold 3x3, liquid duty).

Note:

- relief valve on top
- Blank Flange end RHS
- Screw Flange ½" outlet LHS
- Liquid hose assemblies x 3
CGA-555 inlet fitting
Isolating Ball Valve with handle in open position over nut of CGA fitting.

To assemble a liquid hose assembly screw CGA-555 into Ball valve, then screw ball valve into hose termination. Use LOXEAL 58-11 thread sealant on all joints.

If assembling onto manifold body, remove the existing check valve and screw the hose assembly onto remaining male thread spigot. Do not put the ball valve at the outlet end and just fit the CGA-555 direct to the hose at the inlet.