

Manifold Selection Worksheet

Please Fill One Worksheet Per Manifold		
Gas Service		
Molecule		That determines all kinds of things such as CGA fitting and materials.
Delivery Pressure		We want to make sure we cover the odd ball applications.
Maximum Flow Rate		Flows are generally unknown except when they are exceptionally high.
Normal Flow Rate		Most high purity applications are steady low flow.
Grade/Purity/Level		For UHP applications, opt for small equipment like stations.
Environment		
Indoor or Outdoor Installation?		Outdoor equipment require NEMA 3R, 4, 4X alarms.
Space Allowed for this Manifold?		This is particularly important to configure the header bars.
Is the Area Ventilated?		The use of a gas monitoring system might be required in confined spaces.
Is there Fire Sprinklers in the Room?		NFPA 55 regulates the quantity of molecules based on this specific topic.
Is it a Permanent Installation?		For temporary installation, open-style manifolds are better suited.
In Which Country Will it be Installed?		Determines the cylinder connection (CGA, DIN, BS or NEN).
Is the Environment Explosive or Corrosive?		It helps to determine the type of alarm or the coating of the equipment
Preferences		
How Many Cylinders Were You Planning?		Hint: Consider one cylinder bank replacement per week.
Any Preference for Stainless Steel Over Brass?		You may not have a choice if the gas is corrosive (stainless steel in that case).
Flexible Hoses or Rigid Pigtails?		Rigid pigtails rarely leak but they are extremely stiff. Go flexible!
Can You Accept Delivery Pressure Variations?		It tells us if you need single or two-stage pressure regulation.
Is Gas Supply Interruption Acceptable?		Determines if an automatic switchover manifold is required.
Manifold In an Enclosure or Not?		In North America, cabinet-style manifold is popular. Not so much in Europe.
Preferences		
Do You Want to Be Warned When a Bank is Depleted?		In other words, is an alarm required with your manifold?
We Recommend Vent Valves for UHP Applications		Venting and purging help to keep a clean system.
Is the Equipment Regularly Attended or Supervised?		For un-attended equipment, go with a fully automatic switchover manifold.

Project Name	Location	Contact Name	Phone Number	Date