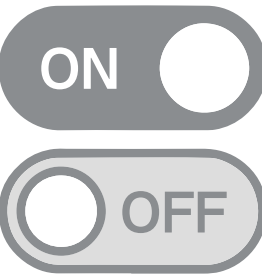
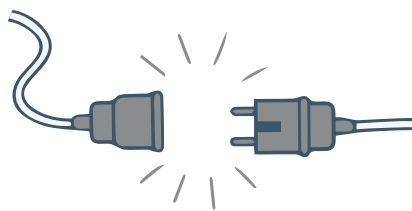


MEDICAL GAS MANIFOLD ROOM



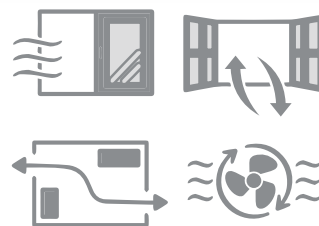
Manifold control panel should assist in switching automatically between left bank and right bank with secondary bank coming into operation automatically when content of the primary bank is exhausted.



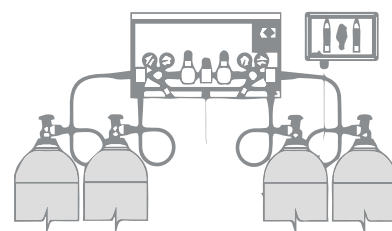
Both right and left bank should open in case of power failure to ensure unobstructed flow to hospital on self- displacement method.



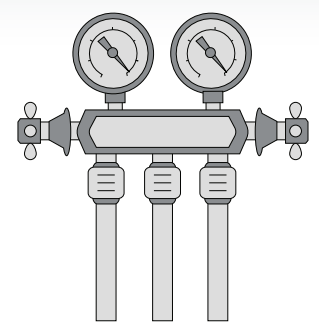
Install fire detection equipment and auto shutdown system linked to local smoke detectors inside medical gases manifold room.



Ensure that the manifold plant room is adequately illuminated and ventilated.



Jumbo manifold system should have two banks and one reserve bank.

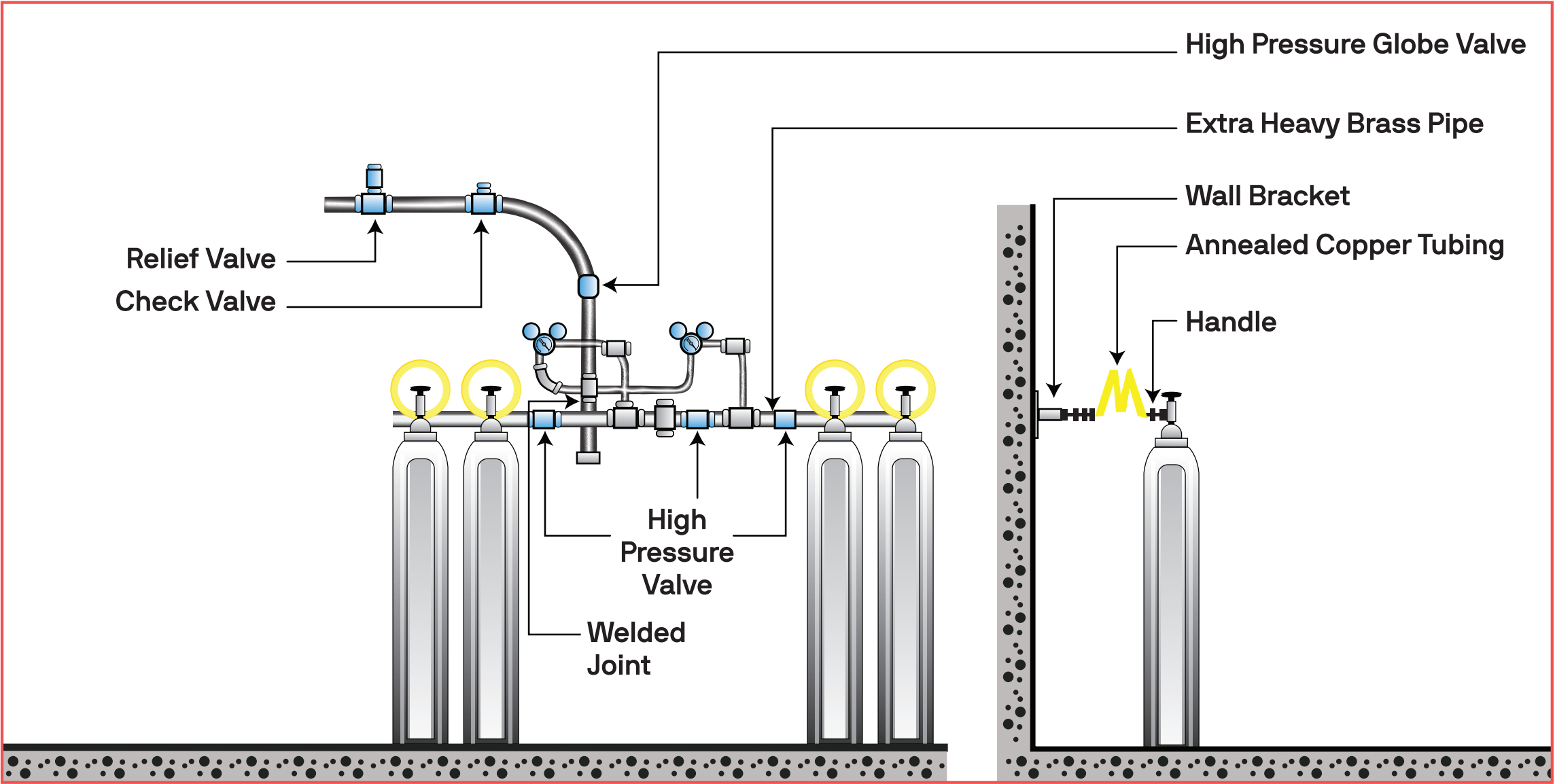


Manifold system should operate on differential pressure mechanism.



Always keep the manifold plant room clean.

OPERATION - MEDICAL GAS PIPELINE SYSTEMS



COLOUR CODES FOR MEDICAL GAS PIPELINE SYSTEMS

Gas	US	Pressure	HTM/ISO	Pressure
Oxygen		50-59 psi		4 Bar (400 kPa)
Nitrous oxide		50-59 psi		4 Bar (400 kPa)
Medical air		50-59 psi		4 Bar (400 kPa)
Surggical air		100-120 psi		7 Bar (700 kPa)
Medical Vacuum		-650 to -450 mmHg		-650 to -450 mmHg
Carbon dioxide		50-59 psi		4 Bar (400 kPa)
Outlet shall be equipped with a primary and secondary check value and the secondary check value shall be rated at minimum pressure of 200 psi				
US, United States; psi, pounds per square inch; HTM, Health Technical Memorandum; ISO, International Organization for Standardization				

Ensure a technical check is done every six months by a biomedical technician

Disclaimer: This poster has been adapted and customized from PATH's Oxygen Delivery Toolkit.