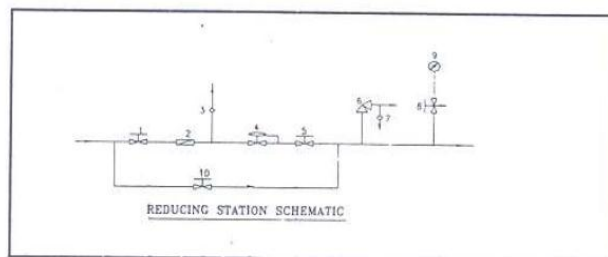


SOTR FOR PRESSURE REDUCING STATIONS (PRS)

Technical requirements

1. The reducing stations should be capable of reducing high-pressure air to required reduced air pressure for the purpose specified below.
2. The Pressure Control stations are to be compact monoblock (Forged Block) type.
3. The Pressure Control System shall be of removable type so that during welding of terminals with pipe the internals can be removed & will be fitted after completion of welding.
4. Dome loaded controller will be preferred choice.
5. The Pressure Control stations shall have filtration facility with filtration size of 20 microns.
6. The pressure control Stations are to be designed in such a way so to prevent ice formation in the system.
7. All terminals of the reducing stations & relief end of the relief valves are to be fitted with suitable nut & coupling assembly compatible to brazing with 70/30 Copper Nickel Pipes (Conforming to NES 780-III).
8. The Pressure Control System are to be supplied with a tally plate of anodized Aluminum Alloy Plate duly engraved with Operating Instructions (Normal Start, Failure & Emergency Starting) Safety requirements & other requirements if any.
9. Pressure Control Stations shall conform to the shock requirements Indian Navy (Shock Grade 'A').
10. The noise generated by fittings & assemblies should be within the acceptance criteria as per type 02 of the MIL-STD-740-2. Refer to Appendix 1 (C) for the relevant graph
11. Vendor to supply shock mounts if applicable for the Pressure control Stations.
12. Schematic arrangement of Pressure Control Stations is shown below.



1—INLET STOP VALVE 2—FILTER 3—HP VENT 4—PRESSURE CONTROL VALVE
5—OUTLET STOP VALVE 6&7—RELIEF VALVE WITH DRAIN 8&9—PRESSURE GAUGE WITH ISOLATING VALVE 10—BYPASS STOPVALVE