

Lab-Master Outlet Points / Gas Control Panels

Gas-Arc products are designed to supply and/or protect piping of a nominal diameter of less than 25mm and therefore meet the PED criteria "Sound Engineering Practice" and will not be CE marked.

Introduction

Outlet Points / Gas Control Panels are designed for fitting at the terminations of a distribution pipeline to control the flow and pressure of gas to the user equipment. A Regulator, fitted on the outlet side, regulates the working pressure for the required application.

Description

The Outlet Points / Gas Control Panels consists of wall or bench mounting bracketry enabling simple and easy installation, inlet pipeline connection, isolation valve, non return valve, adjustable outlet pressure regulator c/w pressure gauge.

Note! Acetylene units incorporate as standard a flashback arrestor to BSEN ISO 730-1 ensuring full compliance with all relevant BCGA Codes of Practice (other fuel gases and oxygen as an option can also be fitted with a flashback arrestor).

The types of outlet point available are :-

- **Labmaster Laboratory Outlet Point:**
Max Working Pressure - 20 Bar
- **Outlet Points / Gas Control Panels:**
Max Working Pressure - 20 Bar

Installation

Outlet Points / Gas Control Panels must be installed in accordance with BCGA Code of Practice CP4.

Outlet Points / Gas Control Panels should be installed at the terminations of a distribution pipeline, in easily accessible positions adjacent to the user equipment.

The selected position should be remote from:

- sources of mechanical damage
- heat sources such as boilers, radiators and stoves
- oil and grease
- corrosive materials
- electrical equipment

After installation, each Outlet Points / Gas Control Panels should be tested for leaks with approved leak test solution and for positive gas shut off.

When Outlet Points / Gas Control Panels for more than one gas service are installed in the same workplace, each point must be checked to ensure that only the correct gas is delivered and is clearly and correctly identified.

Purging - It is critical that all high purity equipment be thoroughly purged before use to ensure that any residual moisture is removed from the system. The following procedure should be carried out:

- Pressurise the manifold/regulator assembly to its maximum outlet operating pressure and then with the inlet pressure isolated, reduce the outlet pressure to 1 bar. Repeat this process 3 times.
- Finally at a minimum operating pressure of approximately 1 bar, purge the regulator until the operating pressure falls to 0.5 bar and hold for a period of 2/3 minutes.

Note! To avoid Oxygen depletion or enrichment of the local environment, ensure all purging gases are safely vented.

Operation

The Outlet Points / Gas Control Panels isolation valve should be fully open, when gas supply is required, and fully closed at all other times. The isolation valve should not be used to control the delivery pressure and flowrate.

The regulator pressure adjusting knob will control the delivery pressure from zero to the required pressure by screwing in a clockwise motion.

Maintenance

Outlet Points / Gas Control Panels are of robust construction, requiring little maintenance other than periodic checks for:

- leaks
- corrosion and damage
- full and free valve spindle movement
- positive gas shut off
- effective non-return valve shut off
- gas service identification

Note! For replacement component parts refer to Recommended Spares Section.

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Safety

Relevant instructions issued by the Health & Safety Executive (HSE) and other official bodies such as the British Compressed Gases Association (BCGA) and the Liquid Petroleum Gas Institute Technical Association (LPGITA) must also be adhered to.

OXYGEN) USE NO OIL OR GREASE) ENSURE ADEQUATE VENTILATION
FLAMMABLE GAS) CONTROL IGNITION SOURCES) ENSURE ADEQUATE VENTILATION
INERT GAS) ENSURE ADEQUATE VENTILATION

