

GENERAL INFORMATION

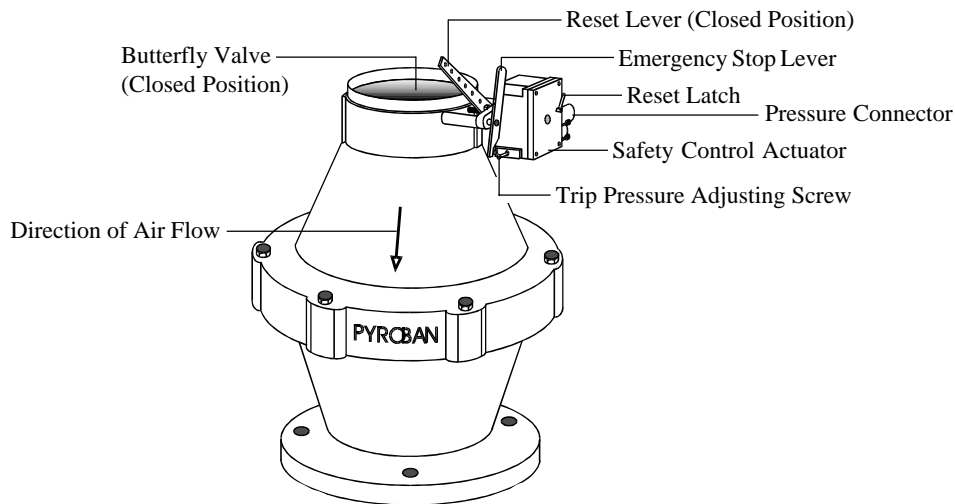
DO NOT modify the unit without authorisation from Pyroban. **Failure to observe any instructions in this Product Data Sheet may invalidate any certificate or warranty agreement.**

Suitable for use in hazardous areas when selected, installed and maintained correctly to BS EN60079. It must only be used as described in this data sheet. For specific applications, consult Pyroban Customer Services department.

Note: Person in Authority:- Employee of a company taking full responsibility for the safety, welfare and supervision of all other employees under their control on the site.

DESCRIPTION

The inlet air shut-off valve uses a rotating disc 'butterfly' valve to provide intake air shut-off. The valve employs a free flow design which provides very low pressure drop to avoid any loss in engine power. A version of the hydromechanical safety control model is used to actuate the air shut-off valve. The safety control is cocked manually to the 'Run' position. When the engine is started and lube oil pressure builds up, the safety control is armed and holds the 'Run' position. In the event of loss of lube oil pressure, the safety control trips and closes the intake air shut-off valve. For greater convenience in starting up the engine, a reset latch is provided which holds the valve in the 'Run' position until oil pressure is up to normal when the latch automatically drops out. **The latch must drop out indicating adequate lube oil pressure and showing that the valve is armed.** The trip pressure is adjustable in the range 5 psi to 40 psi [34kPa to 275kPa] (falling and is supplied set at 10 psi [6.9kPa]). Maximum actuating pressure is 170 psi [1170kPa] and the safety control operator will function on either air or lube oil pressure.



Important - Please Note

If the SVG-12 inlet air shut-off valve is actuated without the trunking to the air cleaner in place, take great care not to allow fingers to be trapped by the butterfly valve when it closes.

INSTALLATION INSTRUCTIONS

It is vital that the following instructions are followed exactly.

Before installing the SVG-12 inlet air shut-off valve, ensure any packing material is blown clear. The SVG-12 inlet air shut-off valve may be assembled in any orientation. Fit with the inlet air flame arrestor element on the engine side of the SVG-12 inlet air shut-off valve.

Fit the SVG-12 inlet air shut-off valve as close as possible to the engine. **The further the flame arrestor element from the engine, the less effective it is.** Actual flame arresting performance can only be determined by means of a flame test in an arrangement accurately representing the final installation. **The entire inlet system between the SVG-12 inlet air shut-off valve and the engine must withstand 10 bar pressure.** All other air inlets between the SVG-12 inlet air shut-off valve and the engine must be closed or rerouted to prevent ingress of air gases after shutdown. An efficient dry type air filter must be fitted upstream of the SVG-12 inlet air shut-off valve. Regular attention to the air filter together with fitting of a service indicator will prevent fouling of the integral flame arrestor and subsequent attention - see maintenance information. The control system pipework connection on the valve operator is made with a pipe thread fitting. **Any scale, dirt, etc. must be removed from the fittings and tubing before they are connected to the valve operator.** Apply a quality thread sealant to the threaded pipe connection. **This sealant must not be permitted to enter the valve operator passage.** Alternatively, P.T.F.E. thread sealing tape may be used: but **the tape must not be applied in a manner that enables shreds of tape to enter the valve operator.**

WHEN ASSEMBLIES WITH FLANGED CONNECTIONS ARE DISMANTLED, GASKETS MUST ALWAYS BE RENEWED WHEN RE-ASSEMBLING.

INSPECTION AND MAINTENANCE

At monthly intervals (200 hours) inspect the control mechanism and ensure that it functions correctly.

Carry out an emergency stop test by cracking the pipe fitting to reduce system pressure below the set trip pressure. Ensure that the SVG-12 inlet air shut-off valve closes correctly and shuts down the engine.

If operation of the SVG-12 inlet air shut-off valve appears to be satisfactory but the engine does not stop within a few seconds then the inlet system including the inlet manifold should be checked for leaks.

LUBRICATION

Periodically, apply a suitable light grease (e.g. Dow Corning MS4 or equivalent) to the 'O' ring in the periphery of the butterfly plate and to the mating conical surface inside the casting.

Note that the SVG-12 inlet air shut-off valve shafts are permanently lubricated by the manufacturer.

CLEANING THE INLET FLAME ARRESTOR ELEMENT

Provided the maintenance and servicing of the induction air filter is carried out regularly, the inlet flame arrestor need not be cleaned. If the engine performance is affected due to a partially blocked inlet flame arrestor, the flame arrestor can be washed in petrol or other suitable solvent, then blown through with compressed air.

Do not attempt to remove the flame arrestor element from the SVG-12 inlet air shut-off valve. Do not clean the inlet flame arrestor element by inserting probes as the fine passages could be enlarged thereby impairing the flame arrestor performance.

EQUIPMENT MARKINGS

The SVG-12 inlet air shut-off valve is stamped with an item part number and serial number.

REMOVAL FROM SERVICE AND DISPOSAL

Using information provided in this data sheet, advice should be obtained from the waste regulation authority whether special waste regulations apply.

ORDERING SPARE PARTS

Use only genuine Pyroban parts. Order spares or replacement parts directly from Pyroban quoting the Pyroban Part Number. Note that fitting of incorrect parts may invalidate certification.

OTHER INFORMATION

Nothing contained in this brochure is intended to extend any warranty or representation, expressed or implied, regarding the products described herein. Any such warranties or other terms and conditions of sale of products shall be in accordance with Pyroban's standard terms and conditions of sale for such products, which are available upon request. Specifications and machinery may be altered without notice at any time.

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