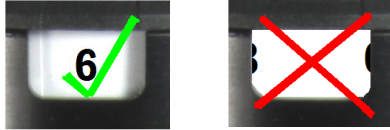


## 8. Warning: (General)

- **DO NOT** use a Flowmeter if any damage has been detected (i.e. any cracks and/or damage to any plastic components, loose fittings etc). It may cause possible injury when the unit becomes pressurised.
- Always carry out the Test and Inspection procedure before use. If a Flowmeter fails the test and Inspection the unit will require servicing or repair.
- **Flow is available only at the numbered increments. There is NO FLOW between increments (and at 0). The indicating pointer must point to a specific number on the dial and the number to be centrally located in the window to obtain flow.**



## 9. Technical Data

### Specifications

S-A-F Flowmeter: Inlet pressure: 400 kPa (58psi/4 bar).

### Inlet Fittings

All Flowmeters are available with BS 5682 Probe Type fittings.

### Flow Range

(a). 0 to 15 LPM (b). 2-4-6 LPM (c). 0 to 3 LPM (d). 0 to 1.1 LPM

### Calibration Tolerance

All Flowmeters are factory calibrated to:  
± 10% of each graduation readings (± 20% for 0.1 to 1.5 LPM range).

### Dimensions (approximated)

Flowmeter:

- |    |                      |       |
|----|----------------------|-------|
| a) | Height:              | 78mm  |
| b) | Width:               | 50mm  |
| c) | Depth: (with probe)  | 116mm |
| d) | Weight: (with probe) | 240g  |



### Test Specification

- Required testing pressure: 400 kPa (58psi/4 bar).
- Leak test: permissible leak: None.

## 10. Accessories

		Product Code
a)	Adult Oxygen Face Mask:	IS1106
b)	Paediatric Oxygen Face Mask:	IS1140
c)	Oxygen Connecting Tube (2m):	IS1174



## F1680 Series Select-a-Flow Flowmeter

### Instructions for Use



Air Flowmeter



Oxygen Flowmeter

### Made in the UK



Doc Ref:  
Issue No:  
Date:

Doc-OP-4150  
7 (DCN 01012)  
07.11.2022



## 1. Introduction

The Oxylitre F1680 series Flowmeter has been designed specifically for medical use and conforms to the requirements of BS EN ISO 15002 and the 93/42/EEC European Directive. Products are available for use with Oxygen and Medical Air gases. The devices are mainly constructed in aluminium and other lightweight materials. Each device is fitted with an easy to use Flow Selector Switch in corporate with an easy to read flow indicator. Flowmeters are available in calibrated ranges of 0 - 1.1, 0 - 3, 2-4-6 and 0 - 15 LPM with either a Multi-sized Tubing Outlet Connector or a Humidifier Bottle Connector.

## 2. Specifications

### Inlet Connection

Flowmeters are fitted with gas Probe connectors which comply to the BS Standards for the Safety Prevention of connecting an incorrect gas.

### Outlet Connection

Each Flowmeter is fitted with a universal sized tubing connector, which will accept most types of delivery tube. Flowmeters are also available with a 9/16unf male Humidifier adapter for the attachment of a (female threaded) Humidifier Bottle Assembly.

### Filters

The Flowmeter is fitted with an integral Filter, which protects the device and the patient from receiving any foreign matter.

*Please Note:* The filters are replaceable by qualified Technicians only.

### Gas Supply

The F1680 Series Flowmeter has been designed to operate from a gas supply of 400 kPa (4 bar/58 psi) of pressure.

### Accuracy

The Flowmeters are factory calibrated to an accuracy of  $\pm 10\%$  of full scale for each graduation on readings greater than 1.5 LPM at a temperature of 20°C. The readings are calibrated with a pressure source 400 kPa (58 psi).

## 3. Flowmeter Set-up

**Safety Warning:** Before use, the Flowmeter must be inspected for any obvious damage such as cracks and broken parts.

- Ensure that the Flowmeter has been tested for any detectable leaks. Qualified servicing personnel only should perform this.

**NO** leaks are permissible on the device.

- Before connecting the Flowmeter to a pressurised gas supply, ensure that the Flowmeter Selector Control Knob has been turned to the "0" position which Shuts Off the device.

## 4. Flowmeter Inspection & Test Procedure

(Before Patient Use)

The following Flowmeter Inspection and Test procedure must be carried out prior connection to a patient therapy device. Please complete the "Flowmeter Set Up" procedure in section "3".

- Connect the pressure Flowmeter into the appropriate gas outlet (identified on the Flow Selector Control Knob) and ensure that the unit is securely locked in position.

- Connect a calibrated Test Flowmeter to the Output Connector (via tubing) at the base of the Flowmeter, and then turn the Selector Control Knob clockwise until it clicks into first gas flow selection. Check that the Flowmeter reading calibrates with the Test Flowmeter and that it is within  $\pm 10\%$  full scale. Carry out this test at each flow selection to ensure the Flowmeter is fully operational.

## 5. Patient Therapy

- Ensure that the Flowmeter Test and Inspection procedure has been carried out in section 4 prior to use.
- Before use, ensure that the correct sized Mask/Nasal Cannulae and Delivery Tube is used. For Oxylitre Recommendations, see "Accessories" Section 10.
- Connect the Delivery Tube to the Mask/Nasal Cannulae and connect the other end of the Tube to the Multi-sized Tubing Outlet/Humidifier Bottle on the Flowmeter. The Mask or Nasal Cannulae is ready for Patient use. From the "0" position, rotate the Flowmeter Selector Control Knob clockwise until it fully "CLICKS" into the required Litre Flow position for therapy administration (Note: any position in between numbers is effectively "0").
- The Litre Flow is indicated in the window of the Flowmeter Control Knob. Due to possible in-line restrictions check that the gas flow is flowing at regular intervals.
- When the user/patient has finished, rotate the Control Knob anti-clockwise to the "0" position.

## 6. Fire and Explosion Safety Precautions

- **DO NOT** use any grease or oil within Oxygen filled environment, as these substances are combustible in the presence of Oxygen.
- **DO NOT** use an Oxygen Flowmeter within an environment where Oxygen may be exposed to any naked flames, sparks, cigarettes/cigars or any open electrical appliances. This precaution applies during and after a reasonable period of patient administration.

## 7. Maintenance

A Medical Flowmeter forms part of an essential support system. Flowmeters must be treated with care and be serviced on a regular basis, (i.e. preventative maintenance) to ensure the unit's reliability and quality for the intended purpose. Clean outer surfaces with a propriety diluted mild (non-alkaline) disinfectant, such as Dettol, Disifin etc (always follow manufacturer's instructions).

### Inspection

Recommended at least annually by a Service Engineer and consist of:

- Leak Test
- Calibration Check

### Service/Repair

Fully qualified technicians should only carry out servicing. **A Major Service is recommended every 5 years.** For service/repair enquiries and information, please contact our sales office.

**NEVER USE FAULTY EQUIPMENT.**

Preventative maintenance ensures safety for the patient and user.

All devices have a **7-year** manufacturer's warranty.