

# Service of the Tom Thumb

The Tom Thumb should require minimal service with very few replaceable items. The gauge and blow-off valves should be checked at least every 12 months or when the gauge at zero pressure reads outside the black band.

It is recommended that all "O" rings should be replaced every 2-3 years.

If the gauge is removed a once-only diamond washer Pt.No. 9901-28 must be replaced.  
DO NOT RE-USE DIAMOND WASHER

The over pressure Blow-off valve is factory pre-set and sealed so adjustment by the user is not recommended. The variable blow-off valve has no user re-placeable parts or parts that should suffer from wear and should not be dismantled or adjusted.

If problems with the valve are suspected return to Viamed.

## Service Tests

Tom Thumb TC480

Connect to an external Flowmeter set at minimum flowrate.

Set Flowrate to 5 Lpm.

Turn adjustable valve to minimum.

Block off Safety Blow-off valve.

Block outlet port.

Adjust variable valve gently to maximum. The pressure should rise smoothly with no rough points.

Connect a standard gauge to outlet port check accuracy of pressure gauge over the range.

There are various fixed maximum safety blow-off valves pre-set at 20,30,40,& 50 cms H2O to a tolerance of +/- 5cms H2O

The variable valve is originally set to +/- 1 cms H2O

The Gauge is accurate to +/- 1cms H2O if the reading is within the black band at zero.

Tom Thumb TC490

As for TC480

In addition check Flowmeter accuracy +/-5%

## Service Spares

Gauge 9901-15

Hose assembly & O2 probe 9901-16

Service Kit incl:- TT500

"O" ring seals 1/8in (4) 4701-13

"O" ring Main valve (1) 4701-18

"O" Main valve (2) 4701-64

Diamond washers (2) 9901-28

Gauge Face (1) 9901-32

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# Care of the Tom Thumb

## Cleaning

Wipe over the unit with a damp cloth.

Do not let moisture or foreign matter into either the variable or fixed blow off valves.

## General Care

The Tom Thumb has been designed to give a lifetime of service if it is used correctly. However the gauge will be damaged if the unit is subject to severe mechanical shock or if the unit is dropped.

Unit should be checked for accuracy every 12 months minimum or whenever the pointer reads outside the black band at zero flow.

## Choosing a location

The Rail bracket on the Tom Thumb is designed to fit most medical rails in use. However a problem may arise if the rail is mounted very close to a wall or the side of an incubator and the gauge is mounted on the top or end faces.

A Spacer kit Pt.No. 9901-22 is available.

## Configuration Change

Most of the items on the Tom Thumb are not position related and can be easily moved.

The following should be noted:-

The Flowmeter can only be used in one position.

The adjustable valve should always be mounted vertical upwards and the fixed blow-off valve should always be fixed vertical downwards.

The gauge is aligned using a special once-only fixing washer Pt.No. 9901-28

After reconfiguration the unit should be tested before use.

## Accessories

Tube and Tee Kit IS6181

Face mask O/O LD851900

Spacer Kit 9901-22

Service kit TT500

NB Outlets for use with normal Oxygen tubing are available but not advisable and must be requested. At high flow rates the narrow bore can cause inadvertent PEEP.

In emergency situations the Mask could be inadvertently connected directly to a high output flowmeter.