

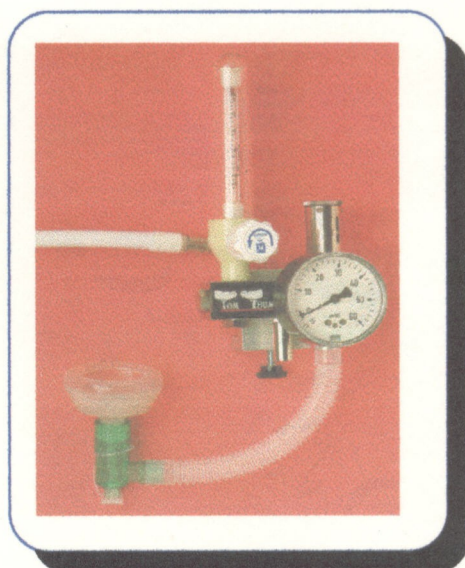


VIAMED

Tom Thumb

Service Manual

TT400 Series



Service of the Tom Thumb

The Thumb has been designed to 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.

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 accurate to +/- 1 cm H²O

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

If problems with the valve are suspected return to Viamed.

Recommended Service Spares

Gauge	9901-15	
Hose assembly & 02 probe		9901-16
Service Kit -	TT500	
Includes		
description	Quantity	Part Number
"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

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.

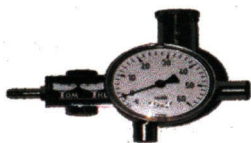
The adjustable valve should always be mounted vertical upwards and the fixed blow-off valve should always be fixed vertical downwards.

After reconfiguration the unit should be tested before use.

Service Tests

Tom Thumb TC480

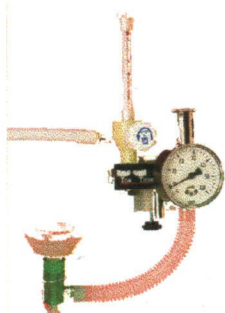
2)



- 1) Connect to an external Flowmeter set at minimum flowrate. Set Flowrate to 5 Lpm.
- 3) Turn adjustable valve to minimum. Gauge should read less than 2 cmWG (cm H²O)
- 4) Block outlet port.
- 5) Adjust variable valve gently to maximum. The pressure should rise smoothly with no rough points.
- 6) Block adjustable valve when at maximum. The fixed safety valve should exhaust at the pressure stated on the valve label ± 5 cm H²O
- 7) Connect a standard gauge to outlet port check accuracy of pressure gauge over the range.
- 8) Check flowmeter accuracy $\pm 10\%$

Tom Thumb TT 490

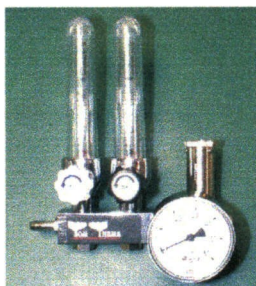
2)



- 1) Connect hospital Oxygen supply. Set Flowrate to 5 Lpm.
- 3) Turn adjustable valve to minimum. Gauge should read less than 2cm WG (cm H²O)
- 4 Block outlet port.
- 5) Adjust variable valve gently to maximum. The pressure should rise smoothly with no rough points.
- 6) Block adjustable valve when at maximum. The fixed safety valve should exhaust at the pressure stated on the valve label ± 5 cm H²O
- 7) Connect a standard gauge to outlet port check accuracy of pressure gauge over the range.
- 8) Check Flowmeter accuracy $\pm 10\%$

Tom Thumb TC495

2)



- 1) Connect inlet hoses to hospital gas supply. Set Flowrates to 10 Lpm on the Air flowmeter and 0 Lpm on the Oxygen flowmeter .
- 3) Turn adjustable valve to minimum. Gauge should read less than 2 WG (cm H²O)
- 4 Block outlet port.
- 5) Adjust variable valve gently to maximum. The pressure should rise smoothly with no rough points.
- 6) Block adjustable valve when at maximum. The fixed safety valve should exhaust at the pressure stated on the valve label ± 5 cm H²O
- 7) Connect a standard gauge to outlet port check accuracy of pressure gauge over the range.

8)

Check Flowmeter accuracies $\pm 10\%$

Accessories

Tube and Tee Kit

Face mask 0/0

INT6181

LD851900

Service kit

Spacer Kit

TT500

9901-22