

medITECH
MEDICAL GAS EQUIPMENT

Medical Oxygen Regulators



677-0000-00
Pin Index,
Fir Tree Therapy Only
(0-15 lpm)

- **5 Year Warranty**
- **5 Year Service Interval**
- **Can be manufactured with any international inlet and outlet fittings**
- **Fir Tree Therapy Connection or 9/16th Threaded Therapy Connection available**
- **0-15 lpm or 0-25 lpm available**
- **Luminous gauge face for night use**

There are two main uses for the Meditech range of Medical Oxygen Regulators.

Units fitted with a pressure outlet, typically 4 bar, are used to provide oxygen to a device which requires an input at this pressure. Primarily, pneumatically powered medical devices such as a ventilator or Demand Valve. The pressure outlet is supplied in accordance with a national or international standard and there is the potential for a second pressure outlet for use with another item. The second outlet may be to the same national or international standard as the first, or it may be different.

Units fitted with a flow outlet are used to deliver variable flow rates of oxygen to a patient who requires oxygen therapy. The patient will be breathing on his own but may have a need for support perhaps to supply oxygen enriched air to increase blood oxygen levels. The flow outlet will be either a 'fir tree connector' or a threaded outlet. Flow outlets can be switched between different rate in the range of 0.5 lpm (litres per minute) to 15 lpm, with an optional 'MAX' setting of approximately 25 lpm used for system purging.

Units are available with both a pressure outlet and a flow outlet and these can be used for either purpose of both simultaneously.



677-0001-10
Pin Index, 1x Schrader,
Fir Tree Therapy Outlet
(0-15 lpm)



680-0101-10
Bullnose, 1x Schrader,
Non Therapy

REGULATORS

CUSTOMISE YOUR OWN REGULATOR

Create a Regulator to suit your specific requirements, by following the steps below to generate your **REGULATOR PART NUMBER**.

There are two ranges of Meditech Medical Oxygen Regulators.

55SL (Super Light) regulators which are manufactured using strong lightweight materials, mainly aluminium alloy, however the high-pressure oxygen path is made of brass for extra safety.

55B (Brass) regulators are mainly manufactured using brass which is a robust material with a good ignition resistance, for mobile use in demanding conditions.

STEP 1 Choose the Regulator **BODY TYPE** that you require. Decide if you want Brass or Aluminium.

STEP 2 Choose the **TYPE** of Oxygen Pressure **INLET** that you require.

STEP 3 Choose the **TYPE** of Oxygen Pressure **OUTLET** that you require.

STEP 4 Choose **HOW MANY** Oxygen Pressure Outlets that you need for your Regulator.

STEP 5 Decide if you want your Regulator to have **OXYGEN THERAPY**, and if so, choose what **TYPE**.

Basic Regulator Type:

BRASS

- 677 = 55B Unibody Therapy Only Regulator
- 677 = 55B Unibody Therapy Regulator
- 678 = 55B Unibody Non-Therapy Regulator
- 679 = 55B International (Nut Fitting) Therapy Regulator
- 680 = 55B International (Nut Fitting) Non-Therapy Regulator

ALUMINIUM

- 777 = 55SL Unibody Therapy Only Regulator
- 777 = 55SL Unibody Therapy Regulator
- 778 = 55SL Unibody Non-Therapy Regulator
- 779 = 55SL International (Nut Fitting) Therapy Regulator
- 780 = 55SL International (Nut Fitting) Non-Therapy Regulator

4 BAR MEDICAL GAS REGULATOR PART NUMBERING SYSTEM

Type of Outlet:

- 00 = None (Therapy Only)
- 01 = BS5632 Schrader (UK)
- 02 = DISS 1240 (USA)
- 03 = Aga SS875 24 302004 (Swedish)
- 04 = DIN 13260-22004 (Hayer) (German)
- 05 = AFNOR NF 590-1161988 (French)
- 07 = SIS (Sleeved Index System) AS29021986 (Australian)

Number of Outlet Fittings:

- 0 = None (Therapy ONLY)
- 1 = One (to Front)
- 2 = Two
- 3 = One (to Rear)

NOTE: Front outlet is adjacent to gauge



To create a Pin-Index Articulating Yoke Regulator, start the Product Code with **679-00**

Type of Inlet:

- 00 = Pin Index BS EN ISO407:2004 (CGA 870, USA)
- 01 = B.H. Hose (UK)
- 02 = B.H. Hose (Germany)
- 03 = W218 472 (Swedish)
- 04 = DIN 477 No.9 (German)
- 05 = CGA540 (USA)
- 06 = G11 (Persian)

Maximum Therapy Flow Rate:

- 0 = Therapy Flows 0-15 lpm (Fir Tree Connector)
- 1 = Therapy Flows 0-25 lpm (Fir Tree Connector)
- 2 = Therapy Flows 0-15 lpm (Threaded Connector 9/16"-18 for Humidifier)
- 3 = Therapy Flows 0-25 lpm (Threaded Connector 9/16"-18 for Humidifier)
- 0 **When No Therapy also Use 0**

REGULATORS

INTERNATIONAL FITTINGS

INLET TYPES



PIN INDEX
BS EN ISO407:2004



BULLNOSE



**BENELUX
BULLNOSE**



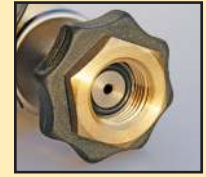
W21.8 472



DIN 477 No.9

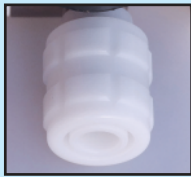


CGA540



G11

OUTLET TYPES



**BS5682
SCHRADER**



**DISS
1240**



**DIN
1360-2:2004**



**AGA
SS875 24 30:2004**



**AFNOR
NF S90-116:1988**



**SIS
AS2902:1986**

THERAPY TYPES (0-15 lpm or 0-25 lpm)



**9/16th THREADED
THERAPY CONNECTOR**



**FIR TREE THERAPY
CONNECTOR**

Please contact the Sales Team for further information or any other requirements concerning International Regulators.

INTERNATIONAL REGULATOR EXAMPLES



**55B Oxygen Regulator with
W21.8 472 Inlet, 1x AGA SS875
24 30:2004 Outlet.**
680-0303-10



**55B Oxygen Regulator
with CGA540 Inlet,
1 x AFNOR NF S90-116:1988
Outlet with Fir Tree
Therapy Connector.**
679-0505-10



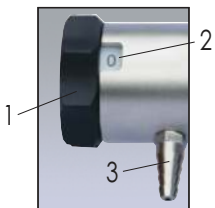
**55B Oxygen Regulator
with a Benelux
Bullnose Inlet,
1 x BS Schrader Outlet.**
680-0201-10

If you have any further requirements or questions concerning International Regulators, please contact the Sales Team.

OXYGEN REGULATOR SPECIFICATION

Rated Inlet Pressure:	200 bar
Rated Outlet Pressure:	4 bar
Standard Discharge:	50 lpm (litres per minute)
Variation of Outlet Pressure when Inlet Pressure is varied at a flow of 50 lpm:	4%
Storage Temperature Range:	-40°C to +60°C
Operating Temperature Range:	-20°C to +60°C
Intended Life:	10 years
Service Interval:	5 years
Warranty Period:	5 years

Oxygen Therapy Option:

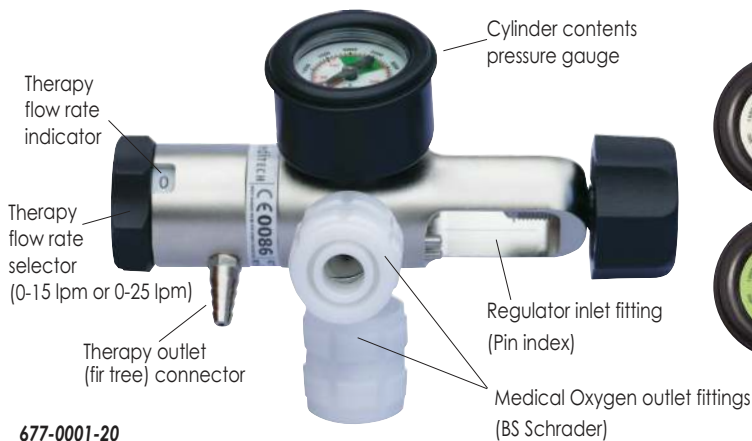


For regulators with a Therapy Outlet Flow Selector, the figures represent the flow rate from the 'Therapy outlet' in litres per minute (lpm). These figures are subject to a tolerance of $\pm 10\%$ of the shown value or ± 0.5 lpm whichever is the greater. Oxygen Therapy is easily chosen by rotating the "Therapy Flow Rate Selector" (1). The flow rate is indicated in the display window (2). Therapy flow rates shown below:

0-15 lpm model	0	½	1	2	3	4	6	8	10	or 15 litres per minute
0-25 lpm models	0	½	1	2	3	4	6	8	10	15 and MAX (25) litres per minute



Oxygen at the chosen flow is discharged from the Therapy Outlet (3). The Therapy outlet is designed so that plastic oxygen tubing can be securely held in place on the barbed fir-tree style connector. Alternatively, a threaded 9/16th connector (4) can be used for attaching a humidifier or other accessory.



Meditech Gauges:

Designed for high visibility, in daylight and with a luminous face for night use. The gauge needle spans over 180 degrees between 200 bar and zero, clearly indicating the pressure. The gauge also features coloured segments, green indicating the range of full cylinders and red for empty. The energy release to the rear of the gauge enhances user safety. A rubber protective boot surrounds the gauge for added protection against damage.

677-0001-20

Pin Index, 2x Schrader, Fir Tree Therapy Outlet (0-15 lpm)

TO PURCHASE OR FOR FURTHER DETAILS:

Contact us by email or telephone for more details, including specific part numbers, prices, etc. Alternatively, visit www.meditechshop.com

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MEDICAL GAS EQUIPMENT

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