

BREATHE Tech®





GAZ BORU OTOMASYON MAKİNA İTHALAT İHRACAT SAN. İTD. ŞTİ

CONTENT

Medical Gas Outlets	04
Probes	05
Respiration Equipment	06
Central Gas Station and Equipments	09
Area Gas Control Panels	14
Outlet Boxes	16
Patient Bed Head Units	17
Pendants	18
Medical Air System	20
Vacuum Central Station	21
Anaesthetic Gas Scavenging System	22
Oxygen Production Systems	23
Copper Tubes	25
Copper Fittings	26
Copper Fittings	27

Medical Gas Outlets











Medical Gas sockets are installed at the final delivery points in the medical gas pipeline system. They are the terminal units of the medical gas pipeline. They are used by medical personnel to provide various medical gases. It consists of two section outputs, basic section and last section. It is the end point of gas transmission in intensive care units, patient units, dental clinics and every medical area in the operation rooms. Suitable for external or internal wall mounting for medical compressed gases and vacuum outlets, bedside unit and ceiling mounts.

The two-piece sockets consist of the basic part and the final part in accordance with BS 5682, EN ISO 7396-1 & 2, EN ISO 9170-1 and 2 standards.

Outlet dia: Ø50 mm Copper pipe dia: Ø10 mm

	Oxygen	Vacuum	Air 4	Air 7	N20	CO2
BS-90°	BR-OP-BS	BR-VP-BS	BR-H4P-BS	BR-H7P-BS	BR-N2P-BS	BR-CO2P-BS
DIN-90°	BR-OP-DIN	BR-VP-DIN	BR-H4P-DIN	BR-H7P-DIN	BR-N2P-DIN	BR-CO2P-DIN
AFNOR-90°	BR-OP-NF	BR-VP-NF	BR-H4P-NF	BR-H7P-NF	BR-N2P-NF	BR-CO2P-NF





AFNOR

Medical Gas Outlets Accessories

Probes

Medeng probes are produced according to international standards by usin a special labelling for gases. They are used to supply necessary gases from terminal units to the patient or medical equipments via hose connections or by direct connection to the equipment. Probes are manufactured in compliance with BS 5682:1992, DIN 13260, AFNOR NF S 90-116.

- · Manufactured according to BS, DIN ,AFNOR & DIS standard
- · Special connections for O2, N2O, AIR 4 and AIR 7
- · Special labeling for each gas type
- · Safe hose connection
- · Made of chrome plated brass material



	Oxygen	Vacuum	Air 4	Air 7	N20	CO2
BS	BR-PRO-BS	BR-PRV-BS	BR-PRH4-BS	BR-PRH7-BS	BR-PRN2-BS	BR-PRC2-BS
DIN	BR-PRO-DIN	BR-PRV-DIN	BR-PRH4-DIN	BR-PRH7-DIN	BR-PRN2-DIN	BR-PRC2-DIN
AFNOR	BR-PRO-NF	BR-PRV-NF	BR-PRH4-NF	BR-PRH7-NF	BR-PRN2-NF	BR-PRC2-NF

Respiration Equipment

Probe With Manometre

- Chrome plated brass trunk
- Flow adjustment knob
- Pressure or vacuum gauge
- Gas specific connection port
- · Suitable outlet for hose connection



Gas Type	Oxygen	Vacuum	Nitrous Oxide	Air 4	Air 7
Without Adaptor	BR-PO	BR-PV	BR-PN	BR-PM4	BR-PM7
BS	BR-PO-BS	BR-PV-BS	BR-PN-BS	BR-PM4-BS	BR-PM7-BS
DIN	BR-PO-DIN	BR-PV-DIN	BR-PN-DIN	BR-PM4-DIN	BR-PM7-DIN
AFNOR	BR-PO-NF	BR-PV-NF	BR-PN-NF	BR-PM4-NF	BR-PM7-NF
DIS	BR-PO-DIS	BR-PV-DIS	BR-PN-DIS	BR-PM4-DIS	BR-PM7-DIS

Vacuum Regulator

- On / Off lever for instant vacuum cut
- · Autoclavable safety jar to avoid fluid leakage into central vacuum line
- Easy to read vacuum gauge
- Flow adjustment knob

Connection	Gas Type	Model No
Without Adaptor	Vacuum	BR-VR
BS	Vacuum	BR-VR-BS
DIN	Vacuum	BR-VR-DIN
AFNOR	Vacuum	BR-VR-NF



Respiration Equipment

Vacuum Regulator

- On / Off lever for instant vacuum cut
- · Autoclavable safety jar to avoid fluid leakage into central vacuum line
- Easy to read vacuum gauge
- Flow adjustment knob



Gas Type	BS	DIN	AFNOR
Oxygen	BR-VR-BS	BR-VR-DIN	BR-VR-NF
Vacuum	BR-VR-BS	BR-VR-DIN	BR-VR-NF
Air	BR-VR-BS	BR-VR-DIN	BR-VR-NF

Venturi Type Vacuum Regulator

- Designed to provide vacuum by using compressed air or oxygen source
- · Easy adjustment of vacuum pressure
- · Suction trap removing pollution caused by overflow
- Chrome coated brass trunk
- · Avaliable in BS, DIN, AFNOR, DISS standards
- · Max Suction Flow: 25L/min at-775 mbar
- Gas Consumption at max Scution : 60L/min

Gas Type	Medical Air	
Without Adaptor	BR-VEN	
BS	BR-VEN-BS	
DIN	BR-VEN-DIN	
AFNOR	BR-VEN-NF	
DIS	BR-VEN-DIS	



Respiration Equipment

Flowmeters

The flowmeter is used to dose medical gases such as air or oxygen; it can be connected to the gas distribution system using suitable AFNOR NF S 90-116, DIN 13260-1, BS 5682 compliant probes or probes with a G 1/4" M R thread.

Connection	Туре	Gas	Model No
BS	Wall Type	Oxygen	BR-VEN-BS
DIN	Wall Type	Oxygen	BR-VEN-DIN
AFNOR	Wall Type	Oxygen	BR-VEN-NF

Size (LxWxH): 80 x 48 x 145 mm

Inlet: Whitworth GAS 1/8"

Pressure: 4.2 Kgs/cm² - 60 psi - 414 kPa

Flow Rate : 0 - 15 L/min Humidifier capacity : 200 m



Oxygen Therapy Device

They are equipment used to regulate and humidify the pressure coming from high pressure oxygen cylinders. Oxygen therapy devices are specially designed for easy use.

- Chrome plated body
- High polycarbonate dripper for sterilization
- Maximum gas supply: 230 bar
- Regulator Output Pressure: 4-5 bar
- Flow rate: 0 15 L/min
- Display Range: 0 315 bar
- Sterilization Method: 121 °C



BR-RF-B

Central Gas Station

The automatic medical oxygen manifold is using electromagnetic valve control with more accuracy and low failure rate. Reliable wall or horizontal installation. When the circuit malfunctions, exports remain and at this time and both sides gas supply at the same time.

Both with digital and gauge pressure indication.

Color display for easy reading. The pressure unit provides the bar, Mpa or psi for measure conversion.

When change the medical gas cylinder the manifold

have alarm function.

Manifold Type : 2 stage , 2 regulators

Inlet Dia : 1/2"
Outlet Dia : 22 mm
Outlet pressure : 4-5 bar

Automation : Full Automatic

Oxygen(O_i) BREATHE Tech®

Specifications

LCD Display full Automatic Manifold

Complying to HTM02-01, HTM2022 and C11

Full Automatic Manifold

High-quality electromagnetic valve and gauge

Pass the pressurization testing, welded in silver, much safety and stable

With the function of over-pressure drain

Applicable gas: O2, CO2, N2, and N2O, etc.

With alarm system when pressure is abnormal

Size of the connecting hose is customized



Explanation	Gas Type	Model No
With alarm 40 m ³ /h	Oxygen	BR-OS-40
With alarm 180 m ³ /h	Oxygen	BR-OS-180
With alarm 40 m ³ /h	Nitrojen	BR-N20-40
With alarm 180 m ³ /h	Nitrojen	BR-N20-180

Tail Pipe & Flexxible Hose

Explanation	Gas Type	Size	Model No
Tail Pipe	Oxygen(Bull-Nose)	5/8 (Male)	BR-TP-58
Tail Pipe	Oxygen	3/4"	BR-TP-34
Tail Pipe	Nitrousoxide	3/8"	BR-TP-38
Flexxible Hose 60 cm	Oxygen(Bull-Nose)	5/8 (Male)	BR-FH-58
Flexxible Hose 60 cm	Oxygen	3/4"	BR-FH-34
Flexxible Hose 60 cm	Nitrousoxide	3/8"	BR-FH-38



Cylinder Ramp

Manifold ramp is specially manufactured to pass oxygen from cylinders or cylinder bundles. Pipes used in collector distribution are manufactured from medical copper pipes suitable for wall thickness that will allow passage to high-capacity oxygen flow. This ensures a smooth flow even at the highest flow rate.

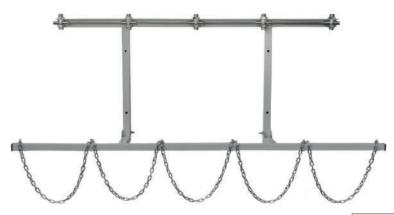
Explanation	Lenght / mm	Model No
Single	180 mm	BR-CO-1
Double	280 mm	BR-CO-2
Triple	330 mm	BR-CO-3
Quadruble	930 mm	BR-CO-4
Quantuple	1230 mm	BR-CO-5



Cylinder Fixing Chain

It is the unit that can be mounted on the wall to fix the rollers. It prevents the rollers from swinging or falling, thanks to their separate sections and chains for each roller.

Designed for 2, 3 and 5 cylinder connections.





Explanation	Lenght / mm	Model No
Single	180 mm	BR-CF-1
Double	330 mm	BR-CF-2
Triple	580 mm	BR-CF-3
Quadruble	930 mm	BR-CF-4
Quantuple	1230 mm	BR-CF-5

Area Gas Control Panels

Description

Breathetech Gas Control Units are used in hospitals, medical areas, to monitor the pressure values of gas services and to cut the gas flow in emergency situations. Gas Control Units are produced in accordance with EN ISO 7396-1 and HTM 02-01. standards.

Features

- Controls 1 to 5 gases including vacuum
- Locked hinged cover
- Separate analogue manometers for each gas
- Thanks to the window on the cover, analog manometers and digital alarms can be monitored.
- Case and cover material are made of metal material&aluminium and coated with electrostatic paint.
- Pressure plates are made of brass material and on-off valves are special for medical purposes.
- Flush mounted and surface mounted variants are available.
- On-off medical gas valves for each gas
- There are low pressure sensors for each gas on the device.

Gas Services

- Oxygen
- Medical Vacuum
- Medical Air 4 bar
- Surgical Air 7 bar
- nitrous oxide
- Carbon dioxide



Metal-Painted

Area Gas Control Panels



Explanation	Metal- Painted	Aluminium- Painted
With 1 gas with alarm	BR-VB-1	BR-VA-1
With 2 gas with alarm	BR-VB-2	BR-VA-2
With 3 gas with alarm	BR-VB-3	BR-VA-3
With 4 gas with alarm	BR-VB-4	BR-VA-4
With 5 gas with alarm	BR-VB-5	BR-VA-5

On Plaster Outlet Boxes

- · Made of aluminum, stainless steel and plastic material
- · Suitable to install on plaster/under plaster
- · Several length and outlet standard alternatives



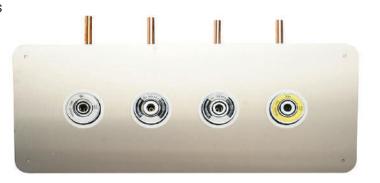


Material type	1 Gas	2 Gas	3 Gas	4 Gas	5 Gas	6 Gas
Aluminum	BR-OA-1	BR-OA-2	BR-OA-3	BR-OA-4	BR-OA-5	BR-OA-6
Stainless steel	BR-OS-1	BR-OS-2	BR-OS-3	BR-OS-4	BR-OS-5	BR-OS-6
Plastic	BR-OP-1	_	-	-	-	-

Under Plaster Outlet Boxes

- · Made of aluminum, stainless steel and plastic material
- · Suitable to install on plaster/under plaster
- Several length and outlet standard alternatives





Material type	1 Gas	2 Gas	3 Gas	4 Gas	5 Gas	6 Gas
Aluminum	BR-UA-1	BR-UA-2	BR-UA-3	BR-UA-4	BR-UA-5	BR-UA-6
Stainless steel	BR-US-1	BR-US-2	BR-US-3	BR-US-4	BR-US-5	BR-US-6

Patient Bed Head Units

Patient Bed Head Units

Patient Bed Head Units are designed to provide

integrated solutions of medical gas outlets, nurse call systems

and electrical outlets in patient areas.

All Bed Head Units designed and manufactured in compliance with EN 11197 standard.

Each unit is custom manufactured to your specific requirements.

Standard Accessories

• Electrical socket :3 pcs 220 V (BS and DIN)

· Reading lamp: 2 pcs

· Power button:1 pc



(

(3)

Explanation	Length	Model No
Single Bed	1200-1800 mm	BR-BH-12
Double Bed	3000-3600 mm	BR-BH-30

ICU Type Patient Bed Head Units

Patient Bed Head Units are designed to provide integrated solutions of medical gas outlets, nurse call systems and electrical outlets in patient areas, especially in ICU's.

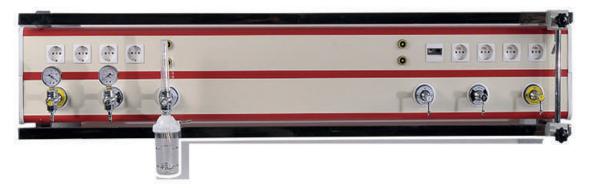
All Bed Head Units are designed and manufactured

incompliance with EN 11197 standard.

Standard Accessories

- Electrical socket 6 pcs (BS and DIN)
- Earth node 4 pcs

Explanation	Length	Model No
Single Bed	1200-1800 mm	BR-RA-12
Double Bed	3000-3600 mm	BR-RA-30



Pendants

Pendants

single joint pendants are designed to provide single point service for medical gas, electricity and equipment positioning nearby the patient. Mobility, flexibility and heavy duty design gives a strong support in operating theatres. Every pendnat is custom design by our experienced sales support team.



Features of our medical pendants

Our approach to design the medical pendants is quite effective and positive. We fulfill all the regulatory norms and medical laws before manufacturing the health care products.

We design various types of medical pendants with flexible layouts and customized features.

Our medical pendants help the users to stay away from health related intricacies

as the help will be given instantly.

Our team dedicatedly works to design the pendants with great perfection.

We offer reliable pendants with high durability and great sturdiness.

Optional Accessories

- Shelves
- IV Pole
- Drawer
- Data socket (RJ45)
- Pressure gauge for Medical Gases
- Medical gas outlets (BS, DIN, NF)

Standard Accessories

• Power Outlet: 8 Number UK, USA, Europe

Grounding Note: 8 Pcs

Rail Shelf: 1 PcIV Pole 2 Pcs



Pendants

Pendants



Explanation	Model No
Pendant with Monitor Shelf	BR-PE
Single Joint, Motorised Pendant	BR-PE-S
Double Joint, Motorised Pendant	BR-PE-D
Single Joint Pendant with Double Shelf	BR-PE-S2
Double Joint Pendant with Double Shelf	BR-PE-D2



Monitor shelve with drawer



Monitor shelve

Medical Air System

Medical Air Plant is designed to provide a continuous supply of medical quality air. Medical air is mainly supplied via a medical gas pipeline system where the air is generated by compressors, dryers and filtration system.

Medical Air plant with rotary screw compressors can be used in wide capacity range.

Compressor capacities varies from 4 kW to 22 kW. High quality screw blocks with perfect lubrication systems enable continuous operation, stability and reliability.



Model No	Compressor Capacity	Dryer Capacity	Tank Capacity	Bed Quantity
BR-4000	1*33 m³/h	1*50 m³/h	300 L	10-30
BR-4001	1*39 m³/h	1*50 m³/h	300 L	20-50
BR-4002	2*39 m³/h	2*50 m³/h	300 L	20-50
BR-4003	1*84 m³/h	1*90 m³/h	500 L	50-100
BR-4004	2*84 m³/h	2*90 m³/h	500 L	50-100
BR-4005	1*117 m³/h	1*135 m³/h	1000 L	100-150
BR-4006	2*117 m³/h	2*135 m³/h	1000 L	100-150
BR-4007	1*168 m³/h	1*180 m³/h	1500 L	150-200
BR-4008	1*168 m³/h	1*180 m³/h	1500 L	150-200
BR-4009	1*210 m³/h	1*290 m³/h	2*1000 L	200-250
BR-4010	2*210 m³/h	2*290 m³/h	2*1000 L	200-250

Vacuum Central Station

Specifications

- Designed to be used for central vacuum systems in operating theatres, ICU's, laboratories and emergingies of hospials
- PLC controlled full automatic system
- Compact tank top design
- · Medical type high efficiency bacteria filters
- · Suitable low height medical gas plant rooms
- · Available in Simplex, Duplex, Triplex,
- Different capacity receiver tank available
- Minimal maintenance, Maximum Durability
- · Completely tested before shipment



Model No	BR-VC-21	BR-VC-40	BR-VC-12	BR-VC-13	BR-VC-16	
System Capacity (m ³ /h)	21	40	100	100	160	
Power (kW)	0,75x2	1,1x2	2,2x2	2,2x3	4x2	
Pump Quantity	2	2	2	3	2	
Tank Capacity (L)	500	500	1000	1000	1000	
Noise dB(A)	62	64	66	69	71	

Vacuum Tank

- · Designed to use in central vacuum stations
- · Different capacities for different stations
- · Made of highly durable steel material

Capacity[L]	Wall Thickness	Diameter	Lenght	Model No
500 L	5 mm	600 mm	2090 mm	BR-VT-60
750 L	5 mm	750 mm	2130 mm	BR-VT-75
1000 L	6 mm	850 mm	2200 mm	BR-VT-85
1500 L	6 mm	1000 mm	2260 mm	BR-VT-10



Anaesthetic Gas Scavenging System

Anaesthetic gas scavenging system consisting of 2 side channel blowers, protection cover casing, electrical and control panel, remote start / stop /alarms panel, safety suction filter and depression control valve.

Single and Double blower versios are avaliable blowers are oil-free, air cooled side channel regenerative type and suitable for continuous operation.





Model No	BR-GS-80	BR-GS-130	BR-GS-280	BR-GS-230
Capacity	80 m³/h	130 m³/h	2x80 m ³ /h	2x130 m ³ /h
Power	0,4 kW	0,75 kW	2X0,4 kW	2X0,75 kW
Power Qty	1	1	2	2
Noise Level	60 dB	60 dB	66 dB	66 dB

AGSS Terminal Units

The AGSS connector is an essential device for operating theatres. During medical operations, the use of anaesthetic gases contributes to polluting the operating room. For the sake of a successful operation, it is important to remove these anaesthetic gases. The anaesthetic gas scavenging system (AGSS) creates a pressure drop and sucks up the pollutant gases.

Technical specifications:

- · Can be used as under plaster, on plaster or pendant outlet
- Special port to enable safe connection
- Venturi Type outlet option





Oxygen Production Systems

Oxygen Generators are new generation stations that allows on-site production of oxygen. This helps hospitals to supply oxygen from their own automated system independently. These systems are generally combined with cylinder systems for instant back up. Oxygen Generators deliver oxygen in a purity up to 95% at flow rate from 3 to 50 m3/h. Station delivers constant purity rate independent from the consumption. Ideal system consists of air compressors, dryers, O2 generator, active carbon tower, tanks and filters.

The Medeng oxygen generators supply all of the advantages of a fully integrated oxygen generator.

The continual measurement and monitoring of all operating values offers the highest possible protection for the whole compression process.

The Medeng oxygen generators can be monitored and operated from any computer workstation anywhere in the world through the latest networking technology.

The industry standard 4.0 is a real innovation for your security.



Model No	O2 Generator Capacity	Compressor Capacity (m³/h)	Dryer Capacity (m³/h)	Carbon Tower Capacity (m³/h)	Air Tank Capacity	Oxygen Tank Capacity
BR-OG-3	3 m³/h	42	60	42	300 L	300 L
BR-OG-6	6 m³/h	81	120	81	500 L	500 L
BR-OG-9	9 m³/h	122	182	122	750 L	750 L
BR-OG-12	12 m³/h	162	243	162	1000 L	1000 L
BR-OG-15	15 m³/h	203	303	203	1000 L	1000 L
BR-OG-18	18 m³/h	243	244	243	1000 L	1000 L
BR-0G-21	21 m³/h	284	425	284	1000 L	1000 L
BR-0G-24	24 m³/h	324	486	325	1000 L	1000 L
BR-OG-30	30 m³/h	405	607	408	2000 L	2000 L
BR-OG-36	36 m³/h	486	729	498	2000 L	2000 L
BR-OG-42	42 m³/h	567	850	576	2000 L	2000 L
BR-OG-48	48 m³/h	648	972	660	2500 L	2500 L
BR-OG-54	54 m³/h	729	1093	738	3000 L	3000 L
BR-OG-60	60 m³/h	750	1125	760	3000 L	3000 L

Medical Gas Container

Medical Gas Container

Product Detail

AmcareMed containerized oxygen generator system can be regarded as a mobile oxygen center, which can continuously supply oxygen for different work sites. It can be widely used in medical, petrochemical, ozone production, and other industries and fields.

The system uses air as raw material and zeolite molecular sieve as adsorbent to separate oxygen from air by pressure swing adsorption (PSA) technology.

Specifications

Oxygen Generators Capacity: 3Nm3/h~100Nm3/h(single unit)

Medical Oxygen Purity: 93%±3% (with PSA technology)

Power supply: 380V/220V

Latest components to ensure smooth performance

Oxygen for medical use is the best alternative to liquid supply for filled cylinders

Out Pressure: 3~0.55 Mpa (adjustable)

Direct container loading from factory, easy to transport

Simple installation, automatic operation or manual control according to user needs

Exterior dimensions are mainly for 20' and 40' containers

Best alternative to liquid supply for filled cylinders

Copper Tubes and Fittings

Copper Tubes

Breathtech degreased medical copper pipe is designed for use in medical gas pipeline system installations and is manufactured under strict quality control procedures to ISO 9001:2008.

In addition, we also provide medical copper pipe fittings include elbow, reducing elbow, street elbow, 45° elbow, straight coupling, equal tee, fitting reducer, reducing tee, and reducing couple.

Specifications

Adopting continuous casting and rolling production process, high purity, fine structure, and low oxygen content.

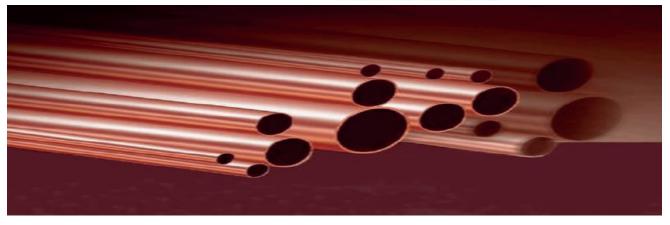
No porosity, trachoma, loose, good thermal conductivity, processability, ductility, corrosion resistance, and weather resistance. Easy to solder and braze.

The product quality is stable, the pressure is high, the elongation rate is high, and the cleanliness is high, which meets the high cleaning requirements of the fluorine-free refrigeration equipment.

Straight tube plastic film winding, can be plugged, can be loaded with wooden boxes.







Copper Tubes

Model No	Explanationn	Thicknesss	Working Pressure	
BR-C08-10	8 mm	1,0 mm	185 bar	
BR-C10-10	10 mm	1,0 mm	148 bar	
BR-C12-10	12 mm	1,0 mm	123 bar	
BR-C15-10	15 mm	1,0 mm	98 bar	
BR-C20-10	22 mm	1,0 mm	67 bar	
BR-C22-12	22 mm	1,2 mm	80 bar	
BR-C22-15	22 mm	1,5 mm	100 bar	
BR-C28-10	28 mm	1,0 mm	52 bar	
BR-C28-12	28 mm	1,2 mm	62 bar	
BR-C28-15	28 mm	1,5 mm	79 bar	
BR-C35-10	35 mm	1,0 mm	42 bar	
BR-C35-12	35 mm	1,2 mm	50 bar	
BR-C35-15	35 mm	1,5 mm	63 bar	
BR-C42-10	42 mm	1,0 mm	35 bar	
BR-C42-12	42 mm	1,2 mm	42 bar	
BR-C42-15	42 mm	1,5 mm	52 bar	
BR-C54-10	54 mm	1,0 mm	25 bar	
BR-C54-12	54 mm	1,2 mm	32 bar	
BR-C54-15	54 mm	1,5 mm	41 bar	
BR-C54-20	54 mm	2,0 mm	54 bar	
BR-C76-15	76 mm	1,5 mm	29 bar	
BR-C76-20	76 mm	2,0 mm	39 bar	
BR-C08-25	108 mm	2,5 mm	34 bar	

Fittings & Accessories

Breathetech's end feed fittings, manufactured according to BS EN 1254-1; 1998 are seamless, monoblock fittings, which makes them stronger and easier to use.

- Biostatic composition of the copper material inhibits bacterial growth on its surface
- End connections: Copper x Copper
- · Lightweight, strong and corrosion resistant
- Unaffected by sunlight, has no special storage requirements and does not produce toxic fumes in a fire.
- All fittings supplied contain less than 100mg/m2 (0.01mg cm2) of hydrocarbons on the degreased surface.



Copper Tubes and Fittings

Fittings & Accessories

	Elbow 90°	Coupling	
8 mm	BR-E08	BR-C08	
10 mm	BR-E10	BR-C10	
12 mm	BR-E12	BR-C12	
15 mm	BR-E15	BR-C15	
22 mm	BR-E22	BR-C22	
28 mm	BR-E28	BR-C28	
35 mm	BR-E35	BR-C35	
42 mm	BR-E42	BR-C42	
54 mm	BR-E54	BR-C54	
76 mm	BR-E76	BR-C76	

