







Roberto Paratico | CEO

Increasingly sophisticated technology is working side by side with the hands and mind of the doctor, taking him or her every day towards goals once thought impossible and thus enabling human limits to be surpassed. But at the root of it all is the knowledge, concentration, planning, inventiveness and imagination of those who develop technology and of the doctors who use it, always pushing the boundaries of their possibilities with the aim of giving as much benefit as possible to the patient.

It is necessary to know, learn and experiment quickly, without ever compromising the quality of the clinical result.

flow-meter™ never stops at what already exists, but goes further.

Knowing, designing, evolving. That's **flow-meter**™ method.



flow-meter™

A RECOGNIZED AND RESPECTED "CENTER OF EXCELLENCE"

flow-meter™ is active in the design and production of devices for measurement, control and supply of fluids, particularly for applications in the medical field.

During the years, the great experience conquered in Italy and abroad created the conditions to establish strict partnerships with some of the most prestigious Groups operating in the industry of the medical gases worldwide. This made **flow-meter™** as a recognized and respected "center of excellence" in this field.

The company's goal is headed to face with the complexity and the continuous technological evolution in the market of medical devices. This is possible only by investing in qualified human resources and developing related activities in design and technology. The strict respect of the medical field rules is absolute, receiving always from the Company management the maximum of attention.

Total area of 21,000 sq metres indoor area of 5,000 sq metres



Europe, Asia - Pacific, Oceania, Middle East, Africa, Central and South America

TABLE OF CONTENTS

The line of products dedicated to the field of devices for measurement, control and supply of medical gases in this catalogue is split into specific sections that show and regroup them according to their applications.

OXYGEN THERAPY

flowmeters, reusable and single-patient humidifiers, pressure regulators, flow selectors and system for ambulances

PRESSURE REGULATORS AND FLOWMETERS, **ALL MEDICAL**

pressure regulators for cylinders and flowmeters

SUCTION OF FLUIDS

vacuum regulators, reusable and disposable containers for collection of organic liquids, venturi suction units, water manometers



FLOWMETER UNITS

flowmeter devices, by-pass systems, high flow devices

TERMINAL UNITS

terminal units and components

ACCESSORIES

rails, fixing devices, phleboclysis rods, jointed extension, low pressure hose assemblies





QUALITY

QUALITY ASSURANCE SYSTEM

flow-meter™ based its corporate structure on a main factor of strategic importance: the Quality.

In this regard, the Company has a Quality Assurance System certificated in accordance with:

- · ISO 9001 : 2015 (Certificate No. 19026-A)
- UNI EN ISO 13485 : 2021 (Certificate No. 19026-M) issued by notified body Company KIWA Cermet S.p.A.

MEDICAL DEVICES

All medical devices manufactured by **flow-meter™** respect and comply the requirements of Regulation (EU) MDR 2017/745, and meet the technical specifications imposed by national and international reference standards.

Before getting the official release to the production, then to the market, the developed new devices support rigorous tests, carried out both in the internal laboratory, and in qualified external centers, in order to guarantee the full compliance of all products to the foreseen conditions of use.

For all medical devices manufactured by the Company, the process of **CE** marking is carried out by applying a complete quality system **EN ISO 13485**.



flow-meter™ dedicates particular attention to the after sale service. A quick answer to clients comes always in few hours in case of any, rare, incident or not compliance, as well as the supply of spare parts or full technical assistance regarding the devices delivered to the customers. The standard warranty period of flow-meter™ devices is 24 months. flow-meter™ international view and perspective got the Company's distribution facilities to operate in a large number of Countries worldwide, both in areas known as modern and advanced in terms of quality of health services, and in areas experiencing strong growth in medical field.



Europe · Asia-Pacific · Oceania · Middle East Africa · Central and South America

In those Countries where specific regulations are applied to allow the import of medical devices and where **flow-meter™** presented its products, the procedures for obtaining the registration and approval at the local Ministries of Health have never resulted in any problems.



CERTIFICATIONS

The CE marking procedure is carried out according to the requirements of complete EN ISO 13485 quality system.

Before the production launch, all new flow-meter™ products are subjected to rigorous tests, both in the company's own quality-assurance laboratories and by independent validated laboratories, to ensure that the products meet all the requirements of the medical professions in all foreseeable therapeutic conditions.



Products overview





9 0	TERMINAL UNITS	a a	O_	ACCESSORIES	999	9 D	and a		-	
O 2+ FLUSH DEVICE	PRODUCT	TERMINAL UNITS	EN ISO 9170-2 AGSS TYPE 1 TERMINAL UNITS	PRODUCT	PROBES WITH THREAD CONNECTION	PROBES WITH HOSE CONNECTION	OUTLET DUPLICATORS	RAIL CLAMPING SYSTEMS AND WALL BRACKETS	JOINTED EXTENSIONS	
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Oxygen probes with hose connection	56
Flowmeter outlet hose connection	56
Rail clamping systems for oxygen flowmeters	57
Cylinder inlet connections for oxygen pressure regulators	57

Vacuum probes with thread connection	103
Vacuum probes with hose connection	104
Vacuum regulator outlet hose connection	104
Rail clamping systems	105
Wall brackets and stainless steel rail	105
Catheter containers	105



FLOVAC® disposable containers

For any additional information, refer to the specific product catalogues.





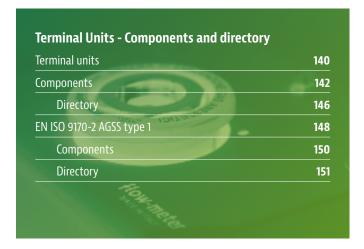
PRESSURE REGULATORS AND FLOWMETERS, ALL MEDICAL GASES	9		S	FLOWMETER UNITS				Easy	60	
PRODUCT	FM PRESSURE REGULATORS	MU PRESSURE REGULATORS	Rs VARIABLE AREA FLOWMETERS	PRODUCT	FM FLOWMETERS	SF FLOWMETERS	EasyMIX® OXYGEN/AIR MIXER	EasyVEE® FLOW DRIVER "JET"	RM FLOWMETERS	
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Diagram of options, matching:

oxygen supply system for ambulances

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The Jet device (Venturi unit) works as an high flow driver (booster) for high flow oxygen therapy through the use of HFNC or for CPAP, and it requires the gas supply from an Oxygen source only.

For more detailed information and composition diagrams, please read the dedicated page.



DOWNLOAD THE APP EasyVEE®

WE WORK EVERY DAY PROVIDING

EasyVEE

A NEW WAY OF HEALTHCARE

EasyVEE® is the new "jet" (Venturi) device manufactured by **flow-meter™**.









FLOWMETER UNITS

Down through the years, **flow-meter™** has built up its experience in the medical device industry, and during the same period has enhanced its sales performance, through the gradual technical development of its devices, by modifying, updating and improving its products, with an unfailing attention to market demand and feedback.

To be revolutionary in engineering you have to be able to offer the market new products evolving from existing ones, or to offer new technical solutions before the market even expresses a demand for them. **A revolution** can only take place in engineering if three guidelines are followed in the development of projects and their technical management:

- 1. the ability to be innovative at all times
- 2. the use of the best and most advanced manufacturing **technologies**
- the constant application of intelligent design to obtain products endowed with a distinctive style and ergonomic forms which fully comply with safety requirements.

We have given a name to this way of thinking: **Easy**.

OXYGEN THERAPY

DEVICES, ACCESSORIES & ASSEMBLY DIAGRAMS

FLOWMETERS, REUSABLE AND SINGLE-PATIENT HUMIDIFIERS,
PRESSURE REGULATORS, FLOW SELECTORS
AND SYSTEM FOR AMBULANCES



The line of **oxygen therapy** devices includes variable area flowmeters, calibrated holes "dial" flowmeters, pressure regulators with their cylinder connections, humidifiers, flow selectors and all the accessories to connect the devices to the oxygen and medical air supply sources in the hospital plants.

APPLICATIONS

The large range gives the possibility to select the best solution for the customer needs, allowing the creation of countless combinations meeting the various necessities of use.







emergency



home care

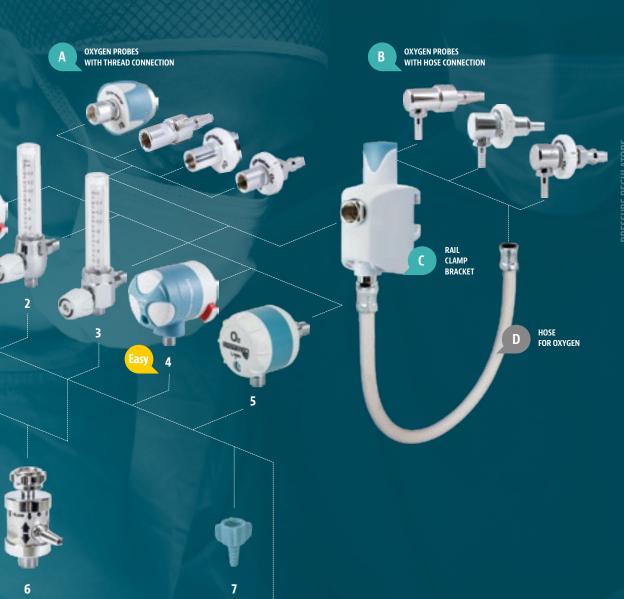
The devices are manufactured in full compliance with the main technical regulations, as well as the requirements of Regulation (EU) MDR 2017/745. This allows to operate in complete and absolute safety, even in the most extreme conditions of use.

DIAGRAM OF OPTIONS

MATCHING FLOWMETERS, CONNECTORS, HUMIDIFIERS

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3 R	s variable area oxygen flowmeter		24
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6 D	F flow selector for aerosol therapy		30
7 0	utlet hose connector, direct fitting		56
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A O	XYGEN PROBES WITH THREAD CONNECTION	OXYGEN THERAPY	55
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flow-meter™







flow-meter™

FLOWMETERS

Comparison - Main information



EasyFLOW®

Variable area oxygen flowmeters

EasyFLOW® flowmeters are instant flow variable area measurement devices for regulating the dosage of medical gases, particularly suitable in oxygen therapy.

STRUCTURE

They are manufactured with an integrated pressure reducer for the supplied pressure stabilization and with an outlet nipple having two connection threads on the two ends for an easy and quick interchangeability.

The body is made of impact-resistant polymer with brass chromeplated fittings, while the precision needle valve having a large ergonomic control knob, a Push&Lock system to keep locked the preset flow value and Soft Grip inserts allows the operator to easily adjust the gas flow at the required value, depending on the kind of therapy.

In **EasyFLOW®** flowmeter the measurement tube has a lens effect to get the scale values easy reading in any condition of use.

SIMPLE AND ACCURATE

The I/O switch button allows the operator to quickly lock and reactivate the flowmeter gas supply, keeping unchanged the previous flow preset value. The small size structure and the particular technical configuration allow the **EasyFLOW®** flowmeters to be able to supply flows of medical gas with extreme accuracy, even in the most difficult conditions, while the several options offered can satisfy any kind of use and exigencies.



Main information



Both in single or twin flowmeter execution to allow double and separate gas flows by using a single medical gas supply.



The operators can get two options of outlet thread by simply reversing the nipple, depending on the required applications.

Related products







Oxygen Probes and Accessories from p. 55

SIZES (LxWxH) 61x107x175 mm

WEIGHT 0.37 Kg

GAS SUPPLY PRESSURE 280÷600 kPa with an integrated pressure reducer for the stabilization

of supplied pressure

GASES OPTIONS $O_2 \cdot Air$

END OF SCALE VALUES 5 L/min. · 10 L/min. · 15 L/min. · 30 L/min. · 40 L/min.

ACCURACY ±10% read value or ±0.5 L/min. if greater (±10% E.O.S. value for flow E.O.S. ≤ than 1 L/min.)

STANDARD INLET CONNECTION ISO G 1/4" M. · 1/4"NPT M.

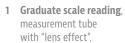
Nipple with double thread, interchangeable by the end user:

STANDARD OUTLET • M12x1.25 M - 1/4" ISO 3253 M.

CONNECTION • 9/16" UNF EN 13544-2 M. - 1/4" ISO 3253 M.

· M12x1.25 M. - 9/16" UNF EN 13544-2 M.

FLOW CALIBRATION DATA 1013 mbar 23 °C



- **2 Adjusting knob** with Push&Lock System and Soft Grip inserts for easy handling.
- **3 I/O switch.** Quick push switch button.
- 4 **Nipple** with double thread, interchangeable by the end user.







1

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-10-









Qmed[®]

Variable area oxygen flowmeters

Qmed® flowmeters are instant flow measuring devices suitable for the dosage of medical gases. They are manufactured in version with compensated or not compensated pressure and in single or twin configuration in order to allow a double and independent gas supply using a single gas source.

STRUCTURE

The flowmeters type **Qmed**® fit a needle valve with a knob in color code for the immediate identification of the supplied gas. The body is made of aluminium making it extremely light and giving the possibility to obtain different finishing solutions such as chrome-plating or anodising, this last case in different customised colours.

The measure group is made of high resistance polycarbonate, a high mechanical resistance material that, together with the chrome-plated brass nipples and the aluminium body, makes this device ideal for the toughest applications. Moreover the outlet nipple can be easily manually removed and replaced by the operator, to meet any immediate application requirements.

SOLUTIONS AND OPTIONS

The flowmeters type **Qmed®** are available in different solutions of pressure calibration and medical gases, various options of scale, normal or extended (L version) to allow a better reading of the indicated values and in several configurations of inlet and outlet connections offering a wide range of combinations to fit every application need.

Main information



Qmed® can be manufactured in single or twin configuration in order to allow double and separate gas supply using a single gas source.



The outlet nipple can be easily manually removed and replaced by the operator, to meet any immediate application requirements.

Related products







Oxygen Probes and Accessories from p. 55

 SIZES (LxWxH)
 82x33x142 mm

 WEIGHT
 0.15 Kg

 SUPPLY MAX. PRESSURE
 600 kPa

 STANDARD END OF SCALE VALUES - 400 kPa
 1 L/min. · 4 L/min. · 5 L/min. · 10 L/min. · 15 L/min. · 20 L/min. · 30 L/min. · 50 L/min.

 ACCURACY
 ± 10% read value or ± 0.5 L/min. if greater (±10% E.O.S. value for flow E.O.S. ≤ than 1 L/min.)

 STANDARD INLET CONNECTION
 ISO G 1/8" F. · ISO G 1/4" M. · 1/4"NPT M. · 3/8" ISO 3253 F. · M 12x1 F.

 STANDARD OUTLET CONNECTION

 1/4" ISO 3253 M. · 3/8" ISO 3253 M. · M 12x1.25 M. · 9/16" UNF EN 13544-2 M.

- 1 **Outlet connection** easy to remove and to replace.
- 2 Anodized body version available in different colours.







Rs

Variable area **oxygen flowmeters**

Rs flowmeters are instant flow measuring devices suitable for the dosage of medical gases, in this case oxygen and medical air. They can be produced in version with pressure compensated or not compensated, and manufactured both with single or twin flow tubes in order to allow a double and independent gas supply using a single gas source.

STRUCTURE

The flowmeters type **Rs** fit a needle valve with a knob in color code for the immediate identification of the supplied gas.

The body is manufactured in chrome-plated brass with metal fittings. The measurement group is made of high resistance polycarbonate, making this device ideal for the toughest applications.

SOLUTIONS AND OPTIONS

They are also available in different solutions of pressure calibration, various options of scale, normal or extended (L version) to allow a better reading of the indicated values. Several options are proposed concerning the threaded connections, inlet or outlet, offering an endless variety of combinations to meet all application requirements.

The **Rs** flowmeter also offers the possibility to have a flow selector integrated in its body.

Main **information**



Rs can be manufactured in single or twin configuration in order to allow double and separate gas supply using a single gas source.



The **Rs** flowmeter also offers the possibility to have a flow selector integrated in its body.

Related products







Humidifiers from p. 47

DF flow selector p. 30

Oxygen Probes and Accessories from p. 55

SIZES (LxWxH)	80x33x136 mm	82x55x180 mm
WEIGHT	0.24 Kg	0.38 Kg
SUPPLY MAX. PRESSURE	600 kPa	
END OF SCALE VALUES - 350 kPa	1 L/min. · 4 L/min. · 5 L/min. · 10 L/min. · 15 L/min	. · 20 L/min. · 30 L/min. · 50 L/min.
ACCURACY	±10% read value or ±0.5 L/min. if greater (±10%	E.O.S. value for flow E.O.S. ≤ than 1 L/min.)
INLET CONNECTION	ISO G 1/8" F. · ISO G 1/4" M. · 1/4"NPT M. · 3/8" ISO) 3253 F. · M 12x1 F.
OUTLET CONNECTION	1/4" ISO 3253 M. · 3/8" ISO 3253 M. · M 12x1.25 M. 9/16" UNF EN 13544-2 M. · 1/2" BSF F.	· 1/2" GAS M.

- 1 Rs ABS knob, oxygen color code.
- 2 Rs flowmeter with integrated DF flow selector.







EasyMED® PLUS

Calibrated orifices oxygen flowmeters

EasyMED® PLUS flowmeters are instant flow measurement devices with calibrated orifices for medical gases supply and dosage, particularly suitable in oxygen therapy. They are offered both in single or twin flowmeter execution to allow double and separate gas flow by using a single medical gas supply source.

STRUCTURE

The **EasyMED®** PLUS flowmeters are manufactured with an integrated pressure reducer for the supplied pressure stabilization and with an outlet nipple having two connection threads on the two ends for an easy and quick interchangeability. The operators can get two options of outlet thread by simply reversing the nipple, depending on the required applications. The body is made of impact-resistant polymer with brass chrome-plated fittings, while a large ergonomic control knob with Soft Grip inserts allows the operator to easily adjust the gas flow among the 10 possible preset options.

SIMPLE AND ACCURATE

The calibration of the gas flow is ensured by orifices got on a metal support with the laser technology. The I/O switch button allows the operator to quickly lock and reactivate the flowmeter gas supply, keeping unchanged the previous flow preset value. The small size structure and the particular technical configuration allow the **EasyMED® PLUS** "dial" flowmeters to be able to supply flows of medical gas with extreme accuracy, even in the most difficult conditions, such as in emergency mobile units.



Main **information**



EasyMED® PLUS can be manufactured in single or twin configuration in order to allow double and separate gas supply using a single gas source.



Compared to conventional variable area flowmeters having vertical indicator, they do not need to be always and only used in the upright position.

Related products







Oxygen Probes and Accessories from p. 55

SIZES (LxWxH) 61x104x78 mm

WEIGHT 0.19 Kg

GAS SUPPLY PRESSURE 280÷600 kPa with an integrated pressure reducer for the stabilization of supplied pressure

GASES OPTIONS $O_2 \cdot Air$

END OF SCALE VALUES 6 L/min. · 14 L/min. · 15 L/min. · 30 L/min. · 50 L/min.

ACCURACY $\pm 10\%$ read value or ± 0.5 L/min. if greater between 10% and 100% E.O.S.

±10% read value or ±0.2 L/min. if greater for flows < 10% E.O.S.

STANDARD INLET CONNECTION ISO G 1/4" M. · 1/4"NPT M.

Nipple with double thread, interchangeable by the end user:

STANDARD OUTLET CONNECTION • M12x1.25 M - 1/4" ISO 3253 M.

· 9/16" UNF EN 13544-2 M. - 1/4" ISO 3253 M.

· M12x1.25 M - 9/16" UNF EN 13544-2 M.

FLOW CALIBRATION DATA 1013 mbar 23 °C

FLOW RATES 10 (0+9 preset values)

- 1 **Adjusting knob** with Soft Grip inserts for easy handling.
- **2 I/O switch**. Quick push switch button.
- **3 Nipple** with double thread, interchangeable by the end user.











Regulation values for the different end of scale flows

			STEP VAL	UES								
S	6	L/min.	0.00	0.25	0.50	1.00	1.50	2.00	3.00	4.00	5.00	6.00
CALES	14	L/min.	0.00	0.50	1.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00
OF S	15	L/min.	0.00	0.50	1.00	2.00	3.00	4.00	6.00	9.00	12.00	15.00
9	30	L/min.	0.00	1.00	2.00	4.00	8.00	12.00	16.00	20.00	25.00	30.00
	50	L/min.	0.00	1.00	2.00	3.00	6.00	9.00	12.00	15.00	30.00	50.00

EASYMED®

Calibrated orifices oxygen flowmeters

EASYMED® flowmeters are top-quality instant flow measurement devices with calibrated orifices for regulating the dosage of oxygen and air in medical applications.

STRUCTURE

The flowmeters type **EASYMED**® are manufactured with an integrated pressure reducer for the supplied pressure stabilization and with the outlet fitting with thread adapted to the various required applications. The body is made of impact-resistant polymer with brass plated fittings, while a large ergonomic control knob allows an operator smooth drive for the selection of the gas supply value among the 10 possible options.

WORKING PRINCIPLE

The calibration of the flow is ensured by orifices got on a metal support with the laser technology. The small size structure and the particular technical configuration allow the **EASYMED**® "dial" flowmeters to be able to supply flows of medical gas with extreme accuracy even in the most difficult conditions, such as in emergency mobile units.

Main **information**



EASYMED® can be manufactured in single or twin configuration in order to allow double and separate gas supply using a single gas source.



Compared to conventional variable area flowmeters having vertical indicator, they do not need to be always and only used in the upright position.

Related products





Humidifiers from p. 47

Oxygen Probes and Accessories from p. 55

SIZES (LxWxH)	82x54x65 mm
WEIGHT	0.12 Kg
SUPPLY PRESSURE	280÷600 kPa with integrated pressure regulator for the supplied pressure stabilization
ACCURACY	±10% read value or ±0.5 L/min. if greater between 10% and 100% E.O.S. ±10% read value or ±0.2 L/min. if greater for flows < 10% E.O.S.
STANDARD SUPPLY CONNECTION	ISO G 1/4" M. · 1/4" NPT M.
STANDARD GAS OUTLET CONNECTION	M12x1.25 M · 1/4" ISO 3253 M. · 3/8" ISO 3253 M. · 9/16" UNF EN 13544-2 M.
GASES OPTIONS	$O_2 \cdot Air$
STANDARD FULL SCALE FLOW RATE	6 L/min. · 14 L/min. · 15 L/min. · 30 L/min. · 50 L/min.
FLOW RATES	10 (0+9 preset values)
FLOW CALIBRATION DATA	1013 mbar 23 °C

1 Ergonomic knob.

2 Flow indicator: easy and immediate reading; ten reading values, to improve low flows regulation.









Regulation values for the different end of scale flows

			STEP VAL	UES								
S.	6 l	L/min.	0.00	0.25	0.50	1.00	1.50	2.00	3.00	4.00	5.00	6.00
A SE	14 l	L/min.	0.00	0.50	1.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00
OF S	15 l	L/min.	0.00	0.50	1.00	2.00	3.00	4.00	6.00	9.00	12.00	15.00
END (30 l	L/min.	0.00	1.00	2.00	4.00	8.00	12.00	16.00	20.00	25.00	30.00
	50 l	L/min.	0.00	1.00	2.00	3.00	6.00	9.00	12.00	15.00	30.00	50.00

Flow selector for aerosol therapy

The DF flow selector, used in conjunction with Rs and Qmed® flowmeters, allows to divert the supplied gas through an humidifier or through a hose connector to connect devices used for aerosol therapy.

STRUCTURE

The **DF** flow selector can be connected through its threaded ring to the flowmeter or supplied directly integrated in the Rs body. The flow can be easily directed to the humidifier for oxygen therapy, through the axial outlet, otherwise it can be diverted through a side hose connector for aerosol therapies.

Main **information**



A synoptic printed on the body of the **DF** flow selector helps the operators to easily control the selected flow direction.

Related products



variable area oxygen flowmeters p. 24



Qmed® area oxygen flowmeters p. 22



Humidifiers from p. 47

SIZES (LxWxH) 32x54x69 mm

WEIGHT 0.16 Kg

SUPPLY MAX. PRESSURE 500 kPa

MAX. PRESSURE DROP WITH FLOW 15 L/min. O,

9.20 kPa

INLET CONNECTION

1/4" ISO 3253 F.

M12x1.25 F. • 9/16" UNF EN 13544-2 F.

OUTLET CONNECTION 1/4" ISO 3253 M. · M12x1.25 M. · 9/16" UNF EN 13544-2 M.

HOSE CONNECTOR FOR AEROSOL CIRCUIT Ø 6÷9 mm

PRESSURE DROP AT THE HUMIDIFIER SIDE WITH FLOW 20 L/min.

PRESSURE DROP AT THE AEROSOL SIDE WITH FLOW 20 L/min.

- 1 Connection to the flowmeters with different threads.
- **2 Connection to the humidifiers** with different threads.
- **3 DF** flow selector integrated in the **Rs** flowmeter.







3







DIAGRAM OF OPTIONS

MATCHING PRESSURE REGULATORS, CONNECTIONS, HUMIDIFIERS

OXYGEN THERAPY PRESSURE REGULATORS		OXYGEN THERAPY	37
1	EasyCARE® PLUS pressure regulator		38
2	EASYCARE® pressure regulator		40
3	FM pressure regulator for oxygen therapy		42
OXYGEN THERAPY		OXYGEN THERAPY	14
4	Qmed® variable area oxygen flowmeter		22
5	Rs variable area oxygen flowmeter		24
6	Flowmeter outlet hose connector		56
7	Easy OX® bubbling humidifier		50
8	OXITER® oxygen therapy single-patient humidifier		52
9	CH/200 PC oxygen therapy humidifier		48
10	TR/200 PC (or PSU) oxygen therapy humidifier		48
11	MAK/300 PC oxygen therapy humidifier		48
12	MAK/500 PC oxygen therapy humidifier		48
CONNECTIONS AND ACCESSORIES FOR OXYGEN THERAPY DEVICES			
Ε	CYLINDER INLET CONNECTIONS FOR OXYGEN PRESSURE REGULATORS	OXYGEN THERAPY	57
	Pin Index EN 850 (or CGA 870) · AFNOR NF-E 29-656		
	DIN 477-1 · UNI 11144 · BS 341-3 · CGA 540		
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F	TERMINAL UNITS - COMPONENTS - OUTLETS AFNOR NF-S 90-116/NF-DS 90-119 - UNI 9507 NEO	TERMINAL UNITS	143
	BS 5682 · DIN 13260 · SS 875 24 30		

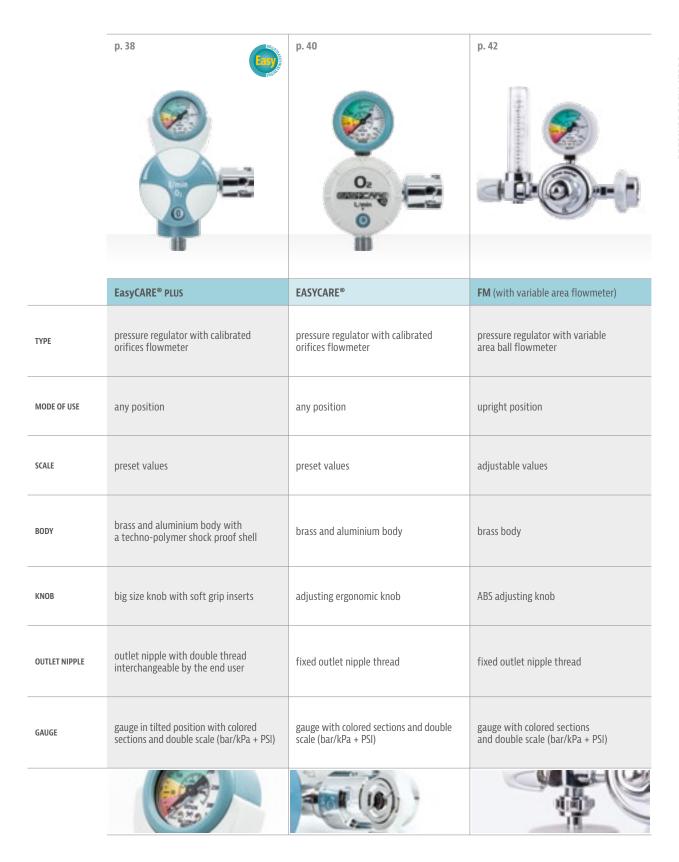
flow-meter™





PRESSURE REGULATORS

Comparison - Main information



EasyCARE® PLUS

Pressure regulators



The EasyCARE® PLUS two stage pressure regulators are suitable for direct mounting on oxygen and medical air cylinders.

STRUCTURE

Its structure is very compact and lightweight and it is particularly suitable for oxygen therapy. The body is made of brass and aluminium with an integrated calibrated orifices "dial" flowmeter having 10 preset medical gas flow options and it is housed inside a techno-polymer shock proof shell to protect the assembly, while a large ergonomic control knob with Soft Grip inserts allows the operator to easily adjust the gas flow between the 10 possible preset options. They are equipped with a preset overpressure safety valve, and can be supplied, as an option, with a terminal unit connected to the first stage chamber which allows to get an additional and separate source of medical gas. The outlet has a nipple with two connection threads on the two ends, for an easy and quick interchangeability.

WORKING PRINCIPLE AND GAUGE

The pressure calibration of the individual stages is fixed and a pressure gauge, with easy reading colored sections, allows to get view continuously of the cylinder gas level, up to minimum allowed. A protective silicone cover and a techno-polymer support prevent gauge damages caused by possible shocks received during transport or use. The gauge in tilted position helps in reading even if the regulator is assembled on cylinders having small dimensions.

Main information



The inlet connection is offered in several options, as per the different reference standards of the destination Countries.



The operators can get two options of outlet thread by simply reversing the nipple, depending on the required applications.



The small size structure and the particular technical configuration allow the EasyCARE® PLUS pressure regulators to supply flows of medical gases like oxygen with extreme accuracy, even in the most difficult conditions, such as in mobile units of emergency.

Related products





Humidifiers from p. 47

Cylinder inlet connections p. 57

SIZES (LxWxH)	57x160x128 mm (with UNI 11144 cylinder connection and without optional terminal unit)
WEIGHT	0.75 Kg (without optional terminal unit)
MAXIMUM GAS SUPPLY PRESSURE	200 bar
PRESSURE CONTROL GAUGE	315 bar end of scale
END OF SCALE STANDARD FLOW VALUES	6 L/min. · 14 L/min. · 15 L/min. · 30 L/min. · 50 L/min.
FLOW RATES	10 (0+9 preset values)
GASES OPTIONS	$O_2 \cdot AIR$
DIAL FLOWMETER ACCURACY	±10% read value or ±0.5 L/min. if greater between 10% and 100% E.O.S. ±10% read value or ±0.2 L/min. if greater for flows < 10% E.O.S.
PRESSURE REDUCER ASSY	double stage with shutter system
FLOW SETTING DATA	1013 mbar 23 °C
INLET CYLINDER CONNECTIONS	UNI 11144 · EN 850 · NF-E 29-656 · BS 341-3 · DIN 477-1 · ISO 5145 · CGA 540
OUTLET CONNECTIONS	Nipple with double thread, interchangeable by the end user: • M12x1.25 M 1/4" ISO 3253 M. • 9/16" UNF EN 13544-2 M 1/4" ISO 3253 M. • M12x1.25 M 9/16" UNF EN 13544-2 M.
TERMINAL UNIT (OPTIONAL)	AFNOR NF-S 90-116 · UNI 9507 · BS 5682 · DIN 13260 · SS 875 24 30
SUPPLY PRESSURE	360÷550 kPa (with cylinder pressure between 200 and 60 bar and constant flow of 40 L/min. 23 °C)

38

- 1 Gauge with easy reading colored sections to allow the continuous control of the cylinder gas level. Gauge fit in tilted position with colored sections and double scale (bar/kPa + PSI). Protective silicone cover and techno-polymer support.
- **2 Big size knob**, with Soft Grip inserts for easy handling.
- **3 Nipple** with double thread, interchangeable by the end user.
- 4 Optional outlet.

Being the integrated flowmeter a calibrated orifices type, there is no need to get it always and only used in the upright position, as required in case of use of pressure regulators fitting conventional variable area flowmeters with vertical reading values scales.





■ WATCH THE VIDEO









Regulation values for the different end of scale flows

			STEP VAL	UES								
S	6	L/min.	0.00	0.25	0.50	1.00	1.50	2.00	3.00	4.00	5.00	6.00
ALE	14	L/min.	0.00	0.50	1.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00
OF S(15	L/min.	0.00	0.50	1.00	2.00	3.00	4.00	6.00	9.00	12.00	15.00
9	30	L/min.	0.00	1.00	2.00	4.00	8.00	12.00	16.00	20.00	25.00	30.00
144	50	L/min.	0.00	1.00	2.00	3.00	6.00	9.00	12.00	15.00	30.00	50.00

EASYCARE®

Pressure regulators

The EASYCARE® two stage pressure regulator is suitable for direct mounting on oxygen cylinders.

STRUCTURE

Its structure is very compact and lightweight and it is particularly suitable for oxygen therapy. The body is made of brass and chrome-plated aluminum with an integrated impact resistant polymer calibrated orifices flowmeter with 10 options of flow oxygen supply. It is equipped with a pre-calibrated overpressure safety valve, and with a terminal unit (optional) connected to the first stage chamber which allows to get an additional and separate source of oxygen or air supplied at 4 bar. The inlet connection is offered in several options, as per the different reference standards of the destination Countries, and the outlet too is available with threads adapted to different applications.

WORKING PRINCIPLE AND GAUGE

The pressure calibration of the individual stages is fixed and a pressure gauge allows to get view of the cylinder contents. A protective silicone cover prevents gauge damages caused by possible shocks received during transport or use.

Main **information**



The inlet connection is offered in several options, as per the different reference standards of the destination Countries.



The small size structure and the particular technical configuration allow the EASYCARE® pressure reducers to get flows of medical gases like oxygen dispensed with extreme accuracy, even in the most difficult conditions, such as in mobile units of emergency.

Related products

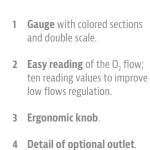




Humidifiers from p. 47

Cylinder inlet connections p. 57

SIZES (LxWxH)	147x55x117 mm (with UNI 11144 cylinder connection and without optional terminal unit)
WEIGHT	0.81 Kg (without optional outlet)
MAXIMUM INLET PRESSURE	200 bar
GASES OPTIONS	$O_2 \cdot AIR$
STANDARD FLOW RANGE	6 L/min. · 14 L/min. · 15 L/min. · 30 L/min. · 50 L/min.
FLOW RATES	10 (0+9 preset values)
FLOWMETER ACCURACY	±10% read value or ±0.5 L/min. if greater between 10% and 100% E.O.S. ±10% read value or ±0.2 L/min. if greater for flows < 10% E.O.S.
INLET CONNECTION TO THE CYLINDER	UNI 11144 · EN 850 · NF-E 29-656 · BS 341-3 · DIN 477-1 · ISO 5145 · CGA 540
OUTLET CONNECTION	1/4" ISO 3253 M. · 3/8" ISO 3253 M. · M12x1.25 M. · 9/16" UNF EN 13544-2 M.
TERMINAL UNIT (OPTIONAL)	AFNOR NF-S 90-116 · UNI 9507 · BS 5682 · DIN 13260 · SS 875 24 30



In fact, being the integrated flowmeter a calibrated orifices type, there is no need to get it always and only used in the upright position, as required in case of use of pressure regulator fitting conventional variable area flowmeters with vertical indicator.

3











Regulation values for the different end of scale flows

			STEP VAL	UES								
S	6	L/min.	0.00	0.25	0.50	1.00	1.50	2.00	3.00	4.00	5.00	6.00
CALES	14	L/min.	0.00	0.50	1.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00
OF S	15	L/min.	0.00	0.50	1.00	2.00	3.00	4.00	6.00	9.00	12.00	15.00
9	30	L/min.	0.00	1.00	2.00	4.00	8.00	12.00	16.00	20.00	25.00	30.00
	50	L/min.	0.00	1.00	2.00	3.00	6.00	9.00	12.00	15.00	30.00	50.00

FM

Pressure regulators for oxygen therapy

The single-stage FM pressure regulators, in their application in oxygen, are suitable for direct mounting on oxygen cylinders.

STRUCTURE

The **FM** pressure regulators are supplied with oxygen cylinder connections, among those available, according to the different reference standards of the destination Countries. They have a direct connection to a **Rs** and **Qmed** series variable area flowmeters, available in some options regarding the scale reading values and the outlet threads, suitable to connect a humidifier or a simple hose connector. The **FM** pressure regulators are designed for use with preset outlet pressure value. The structure and the fittings are in brass and the pressure relief valve is pre-calibrated, to guarantee protection in case of any system failure. A protective silicone cover prevents gauge damages caused by possible shocks received during transport or use.

Main **information**



The structure and fittings are in brass.



The **FM** pressure regulator has an integrated variable area flowmeter and it must be only used in upright position.

Related products





Humidifiers from p. 47

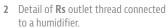
MAX. WEIGHT

Cylinder inlet connections p. 57

	MAN. SIEES (EXTINIT)	MING WEIGHT	
VERSION WITH HOSE CONNECTION ON OUTLET	100x178x161 mm	1.24 Kg	
VERSION WITH HUMIDIFIER ON OUTLET	108x180x320 mm	1.40 Kg	
MAXIMUM INLET PRESSURE	200 bar		
GASES OPTIONS	$O_2 \cdot AIR$		
STANDARD FLOW RANGE	5 L/min. · 10 L/min. · 15 L/min. · 30 L/min. · 5	50 L/min.	
FLOWMETER ACCURACY	±10% read value or ±0.5 L/min. if greater		
INLET CONNECTIONS UNI 11144 · EN 850 · NF-E 29-656 · BS 341-3 · DIN 477- 1 · ISO 5145 · CO			
FLOWMETER OUTLET CONNECTION	1/4" ISO 3253 M.· 3/8" ISO 3253 M.· M12x1.2	5 M. · 9/16" UNF EN 13544-2 M.	

MAX. SIZES (LXWXH)





3 Example of one of many















flow-meter™

PRESSURE REGULATORS AND FLOWMETERS, ALL MEDICAL GASES

FLOWMETER UNITS

TERMINAL UNITS

ACCESSORIES

HUMIDIFIERS

Comparison - Main information

	p. 48	p. 48	p. 48	p. 50	p. 52
	CH/200	TR/200	MAK/300&500	EasyOX®	OXITER®
MATERIAL	polycarbonate	polycarbonate polysulfone	polycarbonate	polycarbonate	polycarbonate and ABS
CAPACITY	210 ml	120 ml	MAK/300 285 ml MAK/500 355 ml	190 ml	285 ml
RELIEF VALVE	-	optional	optional	integrated	-
INLET & OUTLET	inlet nut and hose connector in brass	inlet nut and hose connector in brass	inlet nut and hose connector in brass	rotating nut with different snap inserts and 360° rolling positioning hose connector	hose connector and nut in ABS
			(C)	- Co	0

CH, TR and MAK

Oxygen therapy humidifiers

The bubbling humidifiers for oxygen therapy series CH/200, TR/200, MAK/300 and MAK/500 are devices used to increase the relative humidity in the treatments with medical oxygen, both in hospital and at home.

STRUCTURE

Humidifiers for oxygen series **CH/200**, **TR/200**, **MAK/300** and **MAK/500** are manufactured with both the transparent jar and the cover with bubbler in polycarbonate. All fitments are in brass and they can be sterilized in autoclave at 121 °C for 15 min. The model **TR/200** can also be realized in PSU where higher value of sterilization temperature is requested (134 °C - 18 min.).

OPTIONS AND CAPACITIES

The model TR/200, MAK/300 and MAK/500 can be equipped with an optional relief valve to avoid the possible over pressure inside the humidifier. They guarantee, in conjunction with flowmeters EasyFLOW®, Rs, Qmed®, EASYMED® and EasyMED® PLUS, an easy use and great versatility, combined with an extreme economy. They are supplied in different options of capacity (200 ml, 300 ml and 500 ml) and with optional threads in the input connections, this to satisfy the most varied requirements and needs.

CH/200

Main **information**



Medical oxygen, as it is normally supplied from hospital plant outlets or cylinders, has not a sufficient degree of humidity to be physiologically tolerated by the patient's airways without collateral consequences. Hence the need to add humidifiers on flowmeters' outlet for the humidification of the gas during dispensing.



The model **TR/200**, **MAK/300** and **MAK/500** can be equipped with an optional relief valve to avoid the possible over pressure inside the humidifier.

Related products



from p. 19

MVK/3UU





Pressure regulators from p. 37

MAK/500

	CH/200	1K/200	MAK/500	WAK/500		
INNER MAX. VOLUME	210 ml	120 ml	285 ml	355 ml		
SIZES (LxWxH)	55x67x200 mm	60x75x190 mm	70x81x175 mm	70x81x207 mm		
WEIGHT	0.11 Kg	0.13 Kg	0.15 Kg	0.16 Kg		
MAX. APPLICABLE PRESSURE VALUE	500 kPa					
MAX. APPLICABLE FLOW VALUE	10 L/min.					
INLET CONNECTION	1/4" ISO 3253 F. · 3/8" IS	O 3253 F. · M 12x1.25 F. · 9	9/16" UNF EN 13544-2 F.			
OUTLET CONNECTION	hose connector Ø 6÷9 mm					
RELIEF VALVE (OPTIONAL)	preset at 80 kPa ±10% with a flow equal to 10 L/min.					

48

- 1 Detail of the **bubbling device**.
- 2 Detail of the lid.
- 3 Detail of the **relief valve** (optional).
- 4 The model TR/200 can also be realized in PSU where higher value of sterilization temperature is requested.













Bubbling humidifiers

The bubbling humidifiers for oxygen therapy series EasyOX® are devices used to increase the relative humidity in the treatments with medical oxygen, both for hospital and homecare applications.

STRUCTURE

The humidifiers for oxygen series **EasyOX**® are completely made of polycarbonate and they can be sterilized in autoclave at 121 °C for 15 min. The advanced design and the different options of snap threaded nut, allowing to fit the device in any situation, and the overall ergonomics make the humidifier **EasyOX**® particularly innovative. In conjunction with flowmeters **EasyFLOW®**, **Rs**, **Qmed®**, **EASYMED®** and **EasyMED® Plus**, this humidifier guarantees operators an easy use and great versatility, combined with an extreme economy.



Main **information**



Medical oxygen, as it is normally supplied from hospital plant outlets or cylinders, has not a sufficient degree of humidity to be physiologically tolerated by the patient's airways without collateral consequences. Hence the need to add humidifiers on flowmeters' outlet for the humidification of the gas during dispensing.



The bottle hollow shape, besides being a design unique element, offers the operator an easy and safe handling and guarantees a higher humidification efficiency.

Related products



Variable area and orifices calibrated oxygen flowmeters from p. 19



Pressure regulators from p. 37

INNER MAXIMUM VOLUME 190 ml

SIZE (LxWxH) 89x84x161 mm

WEIGHT 0.13 Kg

MAXIMUM APPLICABLE PRESSURE VALUE 80 kPa

MAXIMUM APPLICABLE FLOW VALUE 10 L/min.

INLET CONNECTION 9/16" UNF EN 13544-2 F. · 1/4" ISO 3253 F.

M 12x1.25 F. · 3/8" ISO 3253 F.

OUTLET CONNECTION hose connector Ø 6÷9 mm

TERMINAL UNITS

PRESSURE REGULATORS AND FLOWMETERS, ALL MEDICAL GASES

ACCESSORIES



- 2 Opening by quick 1/12 turn to facilitate the humidifier filling and cleaning procedures.
- 3 An ergonomic and big size **rotating nut** allows to easily connect and disconnect the humidifier $\textbf{EasyOX}^{\circledcirc}$ to the oxygen supply device.
- **4** 360° rolling positioning hose connector Ø 6÷9 mm.
- 5 Detail of the relief valve.



WATCH THE VIDEO











OXITER®

Oxygen therapy single-patient **humidifiers**

The OXITER® bubbling humidifiers are single patient devices used to increase the relative humidity in the treatments with medical oxygen both in hospital and at home.

STRUCTURE

The **OXITER®** single-patient bubbling humidifiers are made of a jar in polycarbonate and a cover and remaining structure in ABS. They are supplied in packs of 20 pieces.

The bubbling device guarantees the best supplied oxygen humidification, maintaining a noise level far below the limits of the reference standard (<50 dB at 1 m) and thus giving acceptable comfort to the patient, especially in prolonged respirators treatments. They guarantee, in conjunction with flowmeters <code>EasyFLOW®</code>, <code>Rs</code>, <code>Qmed®</code>, <code>EASYMED®</code> and <code>EasyMED®</code> <code>PLUS</code>, an easy use and great versatility, combined with an extreme economy.

Main **information**



Medical oxygen, as it is normally supplied from hospital plant outlets or cylinders, has not a sufficient degree of humidity to be physiologically tolerated by the patient's airways without collateral consequences. Hence the need to add humidifiers on flowmeters' outlet for the humidification of the gas during dispensing.



This humidifier must be disposed at the end of the oxygen therapy treatment on a single patient.

Related products







Pressure regulators from p. 37

INNER VOLUME 285 ml

SIZES (LxWxH) 70x83x178 mm

WEIGHT 0.08 Kg

MAX. APPLICABLE PRESSURE VALUE 500 kPa

MAX. APPLICABLE FLOW VALUE 10 L/min.

INLET CONNECTION 1/4" ISO 3253 F. • 9/16" UNF EN 13544-2 F.

OUTLET CONNECTION hose connector Ø 6÷9 mm

HUMIDIFICATION POWER WITH OXYGEN SUPPLY (RELATIVE HUMIDITY AT 18.7 °C)

INPUT 14%

OUTPUT 89%

AFTER 2 m TUBE Ø 5 mm WITH MASK 73%

- Connections: easy and intuitive; a color code highlights the match to different flowmeter outlet threads.
- 2 Screw lid detail.
- 3 Detail of the **bubbling device**.









CONNECTIONS AND ACCESSORIES

FOR OXYGEN THERAPY DEVICES

The flowmeters for oxygen therapy applications can be supplied completed with probes of our production for direct coupling into the terminal units. Otherwise, the pressure regulators are always supplied with special oxygen cylinder connections designed and made according to the various national and international standards. The oxygen flowmeter probes support frequent connections and detachments to the medical gas distribution systems, while the pressure regulators must guarantee perfect sealing and safety, when connected to the gas cylinders. The following pages contain main information regarding the available range of probes with thread connection and hose connection, for mounting on wall rails or floor stands. The pressure regulators cylinder connections too are available in the most popular standards. Detailed or specific solutions are available on request.

OXYGEN PROBES WITH THREAD AND HOSE CONNECTION, FLOWMETER OUTLET HOSE CONNECTION, RAIL CLAMPING SYSTEMS FOR OXYGEN FLOWMETERS, STAINLESS STEEL RAIL, CYLINDER INLET CONNECTIONS FOR OXYGEN PRESSURE REGULATORS

Probes with thread connection



AFNOR NF-S 90-116 probe, thread ISO G. 1/4" F.



AFNOR NF-S 90-116 type EASYFIX® probe, thread ISO G. 1/4" F.



UNI 9507 probe, thread ISO G. 1/4" F.



BS 5682 probe, thread ISO G. 1/4" F.



DIN 13260 probe, thread ISO G. 1/4" F.



SS 875 24 30 probe, thread ISO G. 1/8" M. or ISO G. 1/4" F.



JIS T 7101 probe, thread ISO G. 1/8" M.



SANS 1409 probe, thread ISO G. 1/4" F.





OHMEDA probe, thread ISO G. 1/4" F.

Probes with hose connection Flowmeter outlet hose connection · Stainless steel rail

Probes with hose connection



AFNOR NF-S 90-116 type EASYFIX® probe, hose connection Ø 6 mm.



UNI 9507 probe, hose connection Ø 6 mm.



BS 5682 probe, hose connection Ø 6 mm.



DIN 13260 probe, hose connection Ø 6 mm.



SS 875 24 30 probe, hose connection Ø 6 mm.



JIS T 7101 probe, hose connection Ø 6 mm.



SANS 1409 probe, hose connection Ø 6 mm.



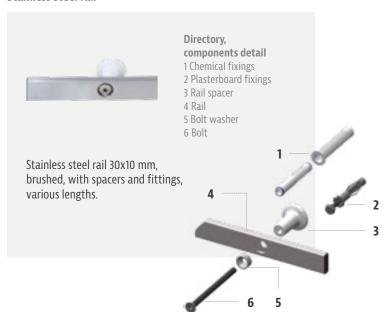
OHMEDA probe, hose connection Ø 6 mm.

Flowmeter outlet hose connection



Polypropylene hose connector, three inlet threads (1/4" ISO 3253 F. \cdot 9/16" UNF EN 13544-2 F. \cdot M12x1.25 F.), outlet tubing Ø 6÷9 mm.

Stainless steel rail



Rail clamping systems for oxygen flowmeters Cylinder inlet connections for oxygen pressure regulators

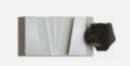
Rail clamping systems



ABS clamp bracket for rail 30x10 mm and 50x10 mm, with nipple threaded ISO G. 1/4" F. and hose connector Ø 6 mm.



Anodized aluminum wedge for OHMEDA rail clamp bracket, with nipple threaded ISO G. 1/4" F. and hose connector Ø 6 mm.



Anodized aluminum OHMEDA rail clamp bracket.

Cylinder inlet connections for oxygen pressure regulators



EN 850 (or CGA 870) "pin-index" yoke cylinder connection.



AFNOR NF-E 29-656 cylinder connection.



DIN 477-1 cylinder connection.



UNI 11144 cylinder connection.



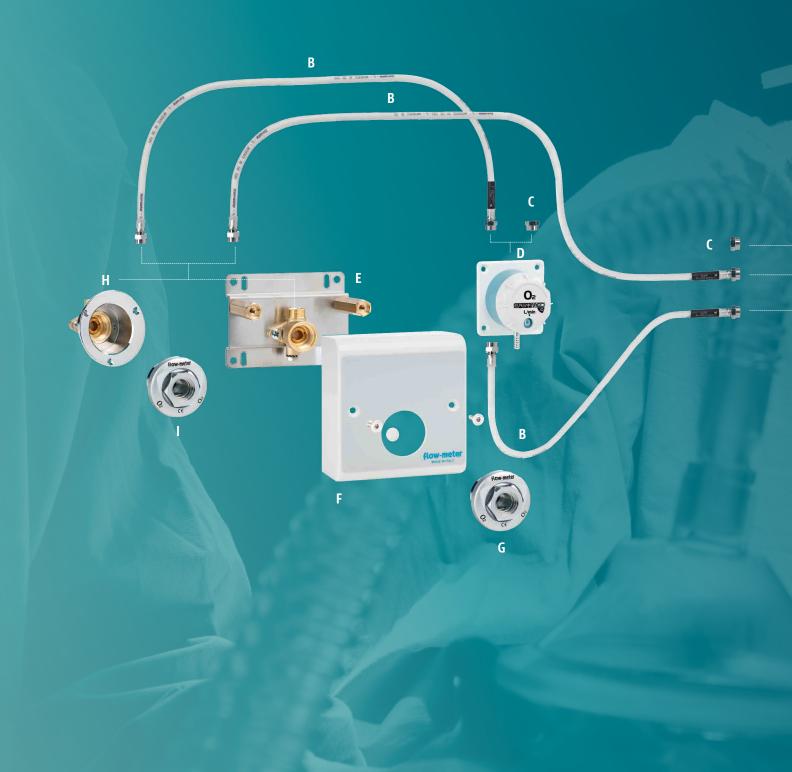
BS 341-3 "bull nose" cylinder connection.



CGA 540 cylinder connection.



OXYGEN SUPPLY SYSTEM FOR AMBULANCES





H Socket with nut for panel mounting

Oxygen outlet

63-143

63-144

63-143

TERMINAL UNITS

TERMINAL UNITS

TERMINAL UNITS

Oxygen supply systems for ambulances

The oxygen supply systems in ambulances allow the oxygen distribution through terminal units, granting moreover the connection to mobile sources, such as medical gases cylinders, by means of suitable pressure regulators.

OPTION AND STRUCTURE

They are available in configurations of one, two or three terminal units and with 2 inlets for the connection to the cylinders that can be activated separately by a selector.

The O₃ supply systems for ambulances mainly consist of:

- a stainless steel bottom support with holes for wall fixing;
- a selector enabling the operator to switch the supply source normally consisting in a medical gas cylinder fitted with pressure regulator;
- a copper pipe, bent and welded with cadmium free silver alloy. The copper pipe is a Class II A medical device, CE marked according to the current Regulation and following amendments and conforming to the specifications of the UNI EN 13348 standards;
- one or more oxygen terminal units. These terminal units are designed and manufactured according to the different standards and they are safe and simple to use for the operator. The terminal units are Class II B medical devices, CE marked according to current Regulation and following amendments and conforming to the specifications of the referenced standards;
- a gauge for the control of the line pressure, to grant the correct performance of the system and the oxygen supply continuity;
- two nipples with gas-specific threads to univocally connect the supply by means of low pressure hose assemblies properly banded and conforming to the specifications of UNI EN ISO 5359 standards (optional);
- a painted stainless steel cover panel with mounting fittings (optional).

Main **information**

Different devices necessary for ventilation therapies or for general medical applications and fitted with proper quick probes can be connected to the terminal units, available in different standards.

1 terminal unit version: 87.5x270x130 mm

SIZES (LXWXH) 2 terminal units version: 87.5x355x130 mm
3 terminal units version: 87.5x440x130 mm

WORKING PRESSURE 4.0 bar ±20%

SUPPLY GAS oxygen

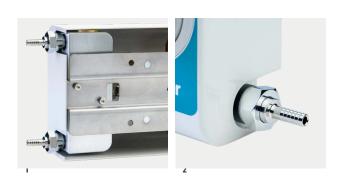
LINE PRESSURE CONTROL GAUGE end of scale 6.0 bar diam. 50 mm. Cl. 2.5

SUPPLY CONNECTIONS thread M16x1.25 M. (UNI 9507)

TERMINAL UNITS STANDARDS AFNOR NF-S 90-116 · UNI 9507 · BS 5682 · DIN 13260 · SS 875 24 30

- 1 Stainless steel bottom support with holes for wall fixing.
- 2 Nipples with gas-specific threads to univocally connect the supply by means of low pressure hose assemblies properly banded and conforming to the specifications of UNI EN ISO 5359 standards (optional).







Accessories FOR AMBULANCE SYSTEM





$FM \cdot pressure regulator with special gauge for ambulances$

A special version, made for ambulances applications, fits a pressure gauge with electric signal 4-20 mA or 0.5-4.5 V output for the continuous monitoring of the supplied pressure and with system control panel interface.

GASES OPTIONS	Oxygen
GAUGE ELECTRICAL FINAL	4-20 mA or 0.5-4.5 V output
OUTLET CONNECTOR	hose connector with gas specific rotating nut





Flow indicator: easy and immediate reading; ten reading values, to improve low flows regulation.

EASYMED® · Calibrated orifices oxygen flowmeter

Calibrated orifices oxygen flowmeter complete with panel for ambulances supplied with mounting fittings. The flowmeter is manufactured with an integrated pressure reducer for the supplied pressure stabilization. It has also a flow indicator with 10 possible options and it is available with different end of scales.

Regulation values for the different end of scale flows

			STEP	VALUE	S							
SI SI		L/min.										
팅	14	L/min.	0.00	0.50	1.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00
R S	15	L/min.	0.00	0.50	1.00	2.00	3.00	4.00	6.00	9.00	12.00	15.00
0	30	L/min.	0.00	1.00	2.00	4.00	8.00	12.00	16.00	20.00	25.00	30.00
	50	L/min.	0.00	1.00	2.00	3.00	6.00	9.00	12.00	15.00	30.00	50.00



Surface mounted case

Surface mounted case with stainless steel cover panel one position for housing AFNOR NF-S 90-116, UNI 9507, DIN 13260, BS 5682, SS 875 24 30 outlets.

Technical details on p. 150.



Oxygen socket for:

- 1 DIN 13260, BS 5682, SS 875 24 30 outlets.
- **2 AFNOR NF-S 90-116** and **UNI 9507** outlets with gas specific thread, complete with nut and copper welding tube nipple.
- 3 panel mounting with gas specific thread available for AFNOR NF-S 90-116 and UNI 9507 outlets only.

1



Oxygen outlet type:

- 1 AFNOR NF-S 90-116 with gas specific thread UNI 9507
- 2 UNI 9507 with gas specific thread UNI 9507
- 3 DIN 13260
- 4 BS 5682
- 5 SS 875 24 30

2



3



4



5





Low pressure hoses for oxygen

with gas specific connection to the ambulance system and available with following lengths:

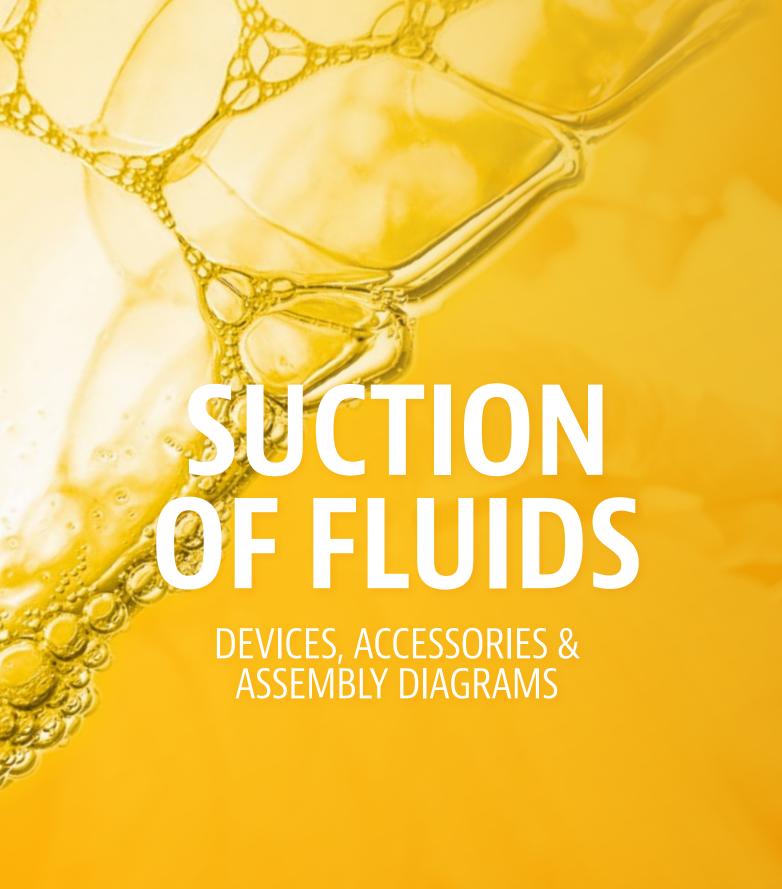
0.75 m - 1.5 m - 2.5 m - 6 m



Gas identification labels

suitable for fitting on surface mounted case for:

1 AFNOR NF-S 90-116
2 DIN 13260, BS 5682, SS 875 24 30



VACUUM REGULATORS, REUSABLE AND DISPOSABLE CONTAINERS FOR COLLECTION OF ORGANIC LIQUIDS, VENTURI SUCTION UNITS, WATER MANOMETERS

The range of devices with applications in **suction of fluids** includes: vacuum regulators devices to be connected to centralized vacuum systems, even with low scale for pediatric applications, and the matched fluid collection containers for small volumes, which also have function to protect the plant, the large fluid collection containers of various capacities, both reusable and disposable, the water manometers, the Venturi system suction devices, the trolley suction systems and all related accessories, connections and support containers systems.

APPLICATIONS

The wide line of products always allows to provide the best solution for client needs and the supply of countless combinations for the various requirements of use.





hospitals

emergency

٢



safety

research and development

ATTENTION TO HEALTH

The suction of body fluids requires special attention for protection of patients and health professionals to prevent viral and bacterial contamination. Safety is the key word in **flow-meter™** to guide the continuous devices development and the research for new solutions.

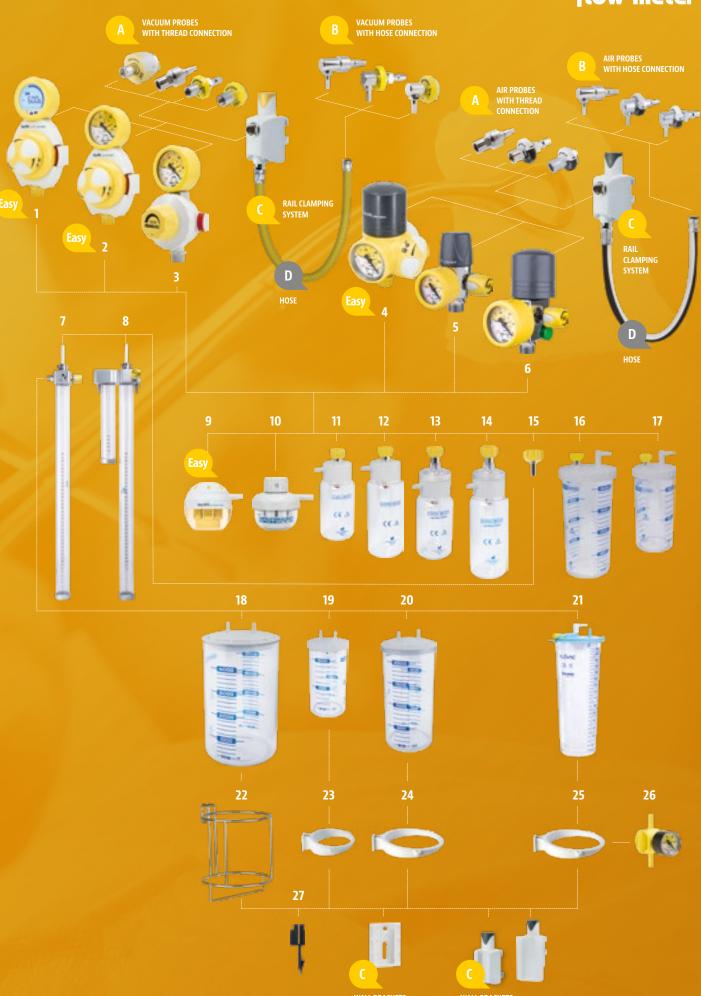
All devices are manufactured in full compliance with the strict technical standards applied within the EU, and meet the requirements of the Regulation (EU) MDR 2017/745 in order to guarantee the use in complete and absolute safety, even in the most extreme conditions.

DIAGRAM OF OPTIONS

MATCHING VACUUM REGULATORS, CONNECTIONS, COLLECTION JARS

1 File EasyVAC* Pusus accoum regulator 70 70 70 70 70 70 70 7	SU	CTION OF FLUIDS	SUCTION OF FLUIDS	64
2 Sept EasyWAC® years varoum regulator		Easy EasyVAC* PLUS DGT vacuum regulator		70
### RASYNAC* vacuum regulator		Easy VAC® PLUS vacuum regulator		72
5 AV/500 Venturi suction unit 6 AV/1000 Venturi suction unit 7 VA water manometer 8 VO water manometer 8 VO water manometer 9 44 8 VO water manometer 9 49 10 EASYSAFE® PLUS safety Jar 9 10 EASYSAFE® PLUS safety Jar 9 11 MAK/300 FC small volume collection jar 11 MAK/300 FC small volume collection jar 12 MAK/300 FC small volume collection jar 13 MAK/300 FC small volume collection jar 14 MAK/300 FC vintibacteria" small volume collection jar 15 Outlet hose connector, direct fitting 16 MAK/300 FC collection jar, direct fitting 17 MAK/300 FC or PSU) collection jar, pressure lid 18 MAK/300 FC (or PSU) collection jar, pressure lid 19 MAK/300 FC (or PSU) collection jar, pressure lid 19 MAK/300 FC (or PSU) collection jar, pressure lid 19 MAK/300 FC (or PSU) collection jar, pressure lid 19 MAK/300 FC (or PSU) collection jar, pressure lid (or screw lid) 19 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 19 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or PSU) collection jar in pressure lid (or screw lid) 10 MAK/300 FC (or		EASYVAC® vacuum regulator		74
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flow-meter™

TERMINAL UNITS

VACUUM REGULATORS

Comparison - Main information



EasyVAC® PLUS D57

Digital vacuum regulators



The EasyVAC® PLUS DGT continuous suction digital vacuum regulators range is suitable in all medical suction applications in hospitals and nursing homes.

STRUCTURE

The device is made of a strong techno-polymer body, with a quick I/O switch button, a suction adjustment Soft Grip inserts knob for an easy handling with a "Push & Lock" position system and a digital vacuum control gauge with monochromatic LCD back-lighting display, available in three possible end-of-scale choices: -250 mbar, -600 mbar and -1000 mbar. A protective silicone cover and a techno-polymer support prevent gauge damages caused by possible shocks received during transport or use. The <code>EasyVAC®</code> PLUS DGT digital vacuum regulators are manufactured with outlet threaded connection for screwing in the usual collection containers for suctioned fluids, or for direct connection to the <code>EasySAFE®</code> PLUS safety jar, through a specific quick release integrated connection. The use of the <code>EasySAFE®</code> PLUS safety jar is highly recommended to get a complete suction device able to guarantee total protection of the vacuum regulator and plant.

Main **information**



The digital vacuum gauge has a monochromatic LCD back-lighting display indicating the depression supplied value settable by the end users to be read in mbar/hPa or mmHg.



The frontal part of the digital gauge is equipped with 3 buttons: one to switch ON/OFF the **EasyVAC®** PLUS DGT, the other 2 for various settings.



The quick opening of the front cover facilitates the cleaning and maintenance procedures.

Related products







Safety jars from p. 89

Collection jars from p. 96

Probes and Accessories from p. 103

	EasyVAC® PLUS DGT 250	EasyVAC® PLUS DGT 600	EasyVAC® PLUS DGT 1000
SIZES (LxWxH)	91x106x185 mm	91x106x185 mm	91x106x185 mm
WEIGHT	0.47 Kg	0.47 Kg	0.47 Kg
MAXIMUM SUCTION FLOW	50 L/min. ±5 L/min. at -220 mbar	72 L/min. ±5 L/min. at -550 mbar	115 L/min. ±5 L/min. at -950 mbar
MAXIMUM AVAILABLE NEGATIVE PRESSURE EFFECTIVE VALUE	-220 mbar ±20 mbar	-550 mbar ±20 mbar	-950 mbar
OVER DEPRESSION PROTECTING VALVE	preset with anti-clogging system	preset with anti-clogging system	N/A
DIGITAL VACUUM GAUGE	0 ÷ -250 mbar/hPa (0 ÷ -187 mmHg) numerical display of the vacuun	0 ÷ -600 mbar/hPa (0 ÷ -450 mmHg) n value and a sector bar proportio	0 ÷ -1000 mbar/hPa (0 ÷ -750 mmHg) onal to the adjusted de-pressure
SUCTION VALUE ADJUSTMENT SYSTEM	with membrane		
STANDARD INLET CONNECTION	ISO G. 1/4" M		
OUTLET CONNECTION	ISO G. 1/2" M. + quick release sy	stem for EASYSAFE® or EasySA	FE® PLUS safety jar connection
I/O SWITCH	quick push switch button		
READING RESOLUTION	1 mbar/hPa (1 mmHg)		
POWER SOURCE	rechargeable lithium-ion batter	ry 3.7V - 2040mAh	
CONTROL BUTTONS	ON/OFF and SETTINGS TO: • select the unit scale (mbar/ • set the timer for the autom off of the regulator • set up a warning at a specify vacuum value	natic switch · zeroing the	e of the back-lighting device at any time

2

4

5

- 1 Digital vacuum gauge with monochromatic LCD display and back-lighting to be activated by the operator
 - · Scale settable in mbar/hPa or mmHg by the end user
 - Numerical display of the vacuum value and a sector bar proportional to the adjusted de-pressure
 - · Reading resolution is 1 mbar/hPa (1 mmHg)
- 2 Charging and power supply port: **USB type C**.
- 3 Buttons for ON/OFF [∪] and settings [▲▼]
- 4 Vacuum adjusting knob with **Push&Lock system** and **Soft Grip inserts** for easy handling. Quick I/O push switch-button.
- 5 De-pressure excess safety valve (for EasyVAC® PLUS DGT 250 and EasyVAC® PLUS DGT 600 only) with anti-clogging system.



WATCH THE VIDEO



3

EasyVAC® PLUS DGT 250 adjusted at -150 mbar

EasyVAC® PLUS DGT 600 adjusted at -450 mbar

EasyVAC® PLUS DGT 1000 adjusted at -600 mbar with EasySAFE® PLUS safety jar (optional)

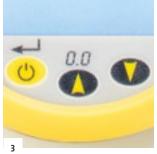
EasySAFE® PLUS safety jar p. 90



ON/OFF and SETTINGS TO:

- · select the unit scale (mbar/hPa or mmHg)
- · set the timer for the automatic switch off of the regulator
- · set up a warning at a specific vacuum value
- · fix the time of the back-lighting
- · zeroing the device at any time











Vacuum regulators



The EasyVAC® PLUS continuous suction vacuum regulators range is suitable in all medical suction applications in hospitals and nursing homes.

STRUCTURE

The device is made of a strong techno-polymer body, with a quick I/O switch button, a suction adjustment Soft Grip inserts knob for an easy handling with a "Push & Lock" position system and a vacuum control gauge with three possible end-of-scale choices: -250 mbar, -600 mbar and -1000 mbar. A protective silicone cover and a techno-polymer support prevent gauge damages caused by possible shocks received during transport or use. The EasyVAC® PLUS vacuum regulators are manufactured with outlet threaded connection for screwing in the usual collection containers for suctioned fluids, or for direct connection to the EasySAFE® PLUS safety jar, through a specific quick release integrated connection. The small sizes of the EasyVAC® PLUS vacuum regulators help in installing multiple sets of medical gas devices into the wall terminal units. The extreme rationality and simplicity, combined with the sophisticated technical execution, allow both operators and patients to appreciate the safety and reliability of this medical device.

Main **information**



EasyVAC® PLUS has a vacuum control gauge with double scale and it is available in three possible end of scale choices.



The quick opening of the front cover facilitates the cleaning and maintenance procedures.

Related products







Safety jars from p. 89

Collection jars from p. 96

Probes and Accessories from p. 103

	EasyVAC® PLUS 250	EasyVAC® PLUS 600	EasyVAC® PLUS 1000			
SIZES (LxWxH)	91x106x185 mm					
WEIGHT	0.47 Kg	0.37 Kg	0.37 Kg			
MAXIMUM SUCTION FLOW	50 L/min. ±5 L/min. at -220 mbar	72 L/min. ±5 L/min. at -550 mbar	115 L/min. ±5 L/min. at -950 mbar			
MAXIMUM AVAILABLE NEGATIVE PRESSURE EFFECTIVE VALUE	-220 mbar ±20 mbar	-550 mbar ±20 mbar	-950 mbar			
OVER DEPRESSION PROTECTING VALVE	preset with anti-clogging system	preset with anti-clogging system	N/A			
VACUUM GAUGE	0 ÷ -250 mbar	0 ÷ -600 mbar	0 ÷ -1000 mbar			
MAX. DEPRESSION SUPPLY VALUE	-950 mbar					
SUCTION VALUE ADJUSTMENT SYSTEM	with membrane					
STANDARD INLET CONNECTION	ISO G. 1/4" M					
OUTLET CONNECTION	ISO G. 1/2" M. + quick release s	ystem for EASYSAFE® or EasyS A	AFE® PLUS safety jar connection			
I/O SWITCH	quick push switch button					

4

- 1 Vacuum gauge with colored sectors and double scale (mbar/hPa or mmHg), for easy reading of set vacuum values. Silicone cover and anti shock support.
- 2 Quick I/O push switch-button.

WATCH THE VIDEO

- 3 Vacuum adjusting knob with Push&Lock system and Soft Grip inserts for easy handling. Adjustment assembly quick release cover 1/12 turn.
- 4 De-pressure excess safety valve (for EasyVAC® PLUS 250 and EasyVAC® PLUS 600 only) with anti-clogging system.
- 5 ISO G. 1/2" M. + quick release system for **EasySAFE®** PLUS or EASYSAFE® safety jar connection.





EasyVAC® PLUS 600

EasyVAC® PLUS 1000 with EasySAFE® PLUS safety jar (optional)

1

EasySAFE® PLUS safety jar p. 90

The use of the EasySAFE® plus safety jar is highly recommended to get a complete suction device able to guarantee total protection of the vacuum regulator and plant.











EASYVAC®

Vacuum regulators

The EASYVAC® continuous suction vacuum regulator is particularly suitable for all medical suction applications in hospitals and nursing homes.

STRUCTURE

The device is made of a strong techno-polymer body, with a quick I/O switch-button, a suction adjustment knob and a control vacuum gauge with three possible end-of-scale choices: -250 mbar, -600 mbar and -1000 mbar. A protective silicone cover prevents gauge damages caused by possible shocks received during transport or use.

The **EASYVAC®** vacuum regulators are also designed, through a threaded connection, for connecting directly or indirectly to the normal collection containers for suctioned fluids or for direct connection to the **EASYSAFE®** safety jar, through a specific quick release integrated connection.

The extreme rationality and simplicity, combined with the sophisticated technical execution, allow both operators and patients to appreciate the safety and reliability of this medical device.

Main **information**



EASYVAC® has a vacuum control gauge with double scale and it is available in three possible end of scale choices.

Related products







Safety jars from p. 89

Collection jars from p. 96

Probes and Accessories from p. 103

	EASYVAC® 250	EASYVAC® 600	EASYVAC® 1000
SIZES (LxWxH)	103x92x170 mm		
WEIGHT	0.42 Kg	0.37 Kg	0.37 Kg
MAXIMUM SUCTION RATE	50 L/min. ±5 L/min. at -220 mbar	72 L/min. ±5 L/min. at -550 mbar	115 L/min. ±5 L/min. at -950 mbar
MAXIMUM ADJUSTABLE DEPRESSION	-220 mbar ±20 mbar	-550 mbar ±20 mbar	-950 mbar
VALVE PROTECTING AGAINST EXCESSIVE NEGATIVE PRESSURES	preset with anti-clogging system	preset with anti-clogging system	N/A
MAXIMUM SUPPLY DEPRESSION	-950 mbar		
SUCTION ADJUSTING SYSTEM	with membrane		
STANDARD VACUUM SUPPLY CONNECTION	ISO G. 1/4" M.		
OUTLET CONNECTION	ISO G. 1/2" M. + quick release s	ystem for EASYSAFE® or EasyS A	AFE® PLUS safety jar connection
I/O SWITCH	quick push button type		

- 1 Vacuum gauge with colored sectors and double scale (mbar/hPa or mmHg), for easy reading of set vacuum values. Silicone cover and anti shock support.
- 2 Quick I/O push switch-button.
- 3 De-pressure excess safety valve (for EASYVAC® 250 and EASYVAC® 600 only) with anti-clogging system.





EASYVAC® 250



EASYVAC® 600



EASYVAC® 1000









EasyVAC® PLUS DGT digital vacuum regulator with **EasySAFE® PLUS** safety jar



flow-meter™

VENTURI SUCTION UNITS AND WATER MANOMETERS

Comparison - Main information

	p. 80	p. 82	p. 84
	EasyAIR®	AV	VA - VD
ТҮРЕ	Venturi suction unit	Venturi suction unit	water manometer
GAUGE AND SCALE	standard control vacuum gauge with double scale	standard control vacuum gauge with double scale	tube with graduated scale VD has also a secondary tube for fine adjustment of values
KNOB	big size adjusting knob with soft grip inserts and Push&Lock system	adjusting knob	adjusting knob
PLUS	quick I/O push switch button	quick I/O push switch button only on AV 1000	
	S (C)	AIR	Cons

EasyAIR®

"Venturi system" **suction units**



The EasyAIR® Venturi vacuum generating system units are particularly suitable in all hospital applications in which it is necessary to get values of vacuum up to -800 mbar and where a central facility of vacuum generation for suction is missing, often for technical choice.

STRUCTURE

Such devices are made essentially of an aluminum body housed inside a techno-polymer shock proof shell to protect the unit. Inside, over the "Venturi effect" generating assembly, the needle valve for vacuum adjustment is driven by a large ergonomic control knob having a Push&Lock system, to keep locked the preset vacuum value, and Soft Grip inserts for easy handling and adjusting. The vacuum gauge is available in two end of scale options depending on model (-250 mbar or -1000 mbar) and it is housed in the structure to prevent damages caused by possible shocks received during transport or use. The <code>EasyAIR®</code> Venturi vacuum generating system units are manufactured with outlet threaded connection for screwing in the usual collection containers for suctioned fluids, or for direct connection to the <code>EasySAFE® PLUS</code> safety jar, through a specific quick release integrated connection. The I/O switch button allows the operator to quickly stop and reactivate the suction, keeping unchanged the previous vacuum preset value.

The extreme rationality and simplicity, combined with the sophisticated technical execution, allow both operators and patients to appreciate the safety and reliability of this medical device.

Main **information**



As it is well known, the physical principle called "Venturi" allows to get depression from a fluid under pressure. This is obtained, in case of these devices, using medical compressed air coming from the centralized distribution plant.



Being the system working with a principle where medical air under pressure goes released to the environment, the equipment has a high efficiency silencer reducing the noise to allow an adequate level of comfort for patients and operators. The system fits a special device expressly designed and realized with an one-way membrane safety valve, to protect the patient against accidental back pressures.

Related products







Safety jars from p. 89

Collection jars from p. 96

Probes and Accessories from p. 103

EasyAIR® 250 EasyAIR® 1000

SIZES (LxWxH)	89x123x141 mm	89x123x141 mm
WEIGHT	0.54 Kg	0.57 Kg
MAXIMUM SUCTION FLOW	28 L/min. ±2 L/min. at -220 mbar	40 L/min. +5 L/min. at -800 mbar
VACUUM GAUGE	0 ÷ -250 mbar	0 ÷ -1000 mbar
MAXIMUM ADJUSTABLE DEPRESSION (WITH PLATE PRESSURE ±10%)	-220 mbar ±15 mbar	-800 mbar -25 mbar
SAFETY VALVE AGAINST BACK PRESSURE EXCESS	preset with anti clogging system	N/A
AIR CONSUMPTION AT THE MAXIMUM SUCTION VALUE	25 L/min. ±2 L/min.	60 L/min. ±2 L/min.
NOISE LEVEL	<60 dB	<70 dB
GAS AND SUPPLIED PRESSURE	compressed air 400 kPa (4.0 bar) ±10%	
STANDARD INLET CONNECTIONS	ISO G. 1/4" M. · 1/4" NPT M.	
STANDARD OUTLET CONNECTION	ISO G. 1/2" M. + quick release system for E A or EasySAFE® PLUS safety jar connection	ASYSAFE®

- 1 Vacuum gauge with colored sectors and double scale (mbar/hPa or mmHg), for easy reading of set vacuum values.
- 2 Vacuum adjusting knob with Push&Lock system and Soft Grip inserts for easy handling.
- 3 I/O push switch button.



EasySAFE® PLUS safety jar p. 90

(optional)











The Venturi AV/500 and AV/1000 vacuum generating system units are particularly suitable in all hospital applications in which it is necessary to get values of vacuum up to -850 mbar and where a central facility of vacuum generation for suction is missing, often for technical choice.

STRUCTURE

As it is well known, the physical principle called "Venturi" allows to get depression from a fluid under pressure, which is obtained, in case of these devices, using medical compressed air coming from the centralized distribution plant. Such devices are composed essentially of a brass chrome-plated body, a needle valve with vacuum adjustment knob and a vacuum gauge. The version AV/1000 fits also a quick I/O button switch and a large gauge, while in the version AV/500 a protective silicone cover on vacuum gauge avoids damages caused by possible impacts during transport or use.

The AV/500 and AV/1000 Venturi vacuum generating system units are manufactured with outlet threaded connection for screwing in the usual collection containers for suctioned fluids, or for direct connection to the EasySAFE® PLUS safety jar, through a specific quick release integrated connection.

Main information



Being the system working with a principle where medical air under pressure goes released to the environment, the equipment has a high efficiency silencer reducing the noise to allow an adequate level of comfort for patients and operators. The system fits a special device expressly designed and realized with an one-way safety valve, to protect the patient against accidental back pressures.

Related products







Safety jars from p. 89

AV/1000

Collection jars from p. 96

Probes and Accessories from p. 103

SIZES (LxWxH)	92x72x100 mm	104x72x132 mm
WEIGHT	0.50 Kg	0.83 Kg
MAX. SUCTION RANGE	40 L/min +5%	40 L/min +5%
VACUUM GAUGE SCALE	0 ÷ -1000 mbar	0 ÷ -1000 mbar
MAXIMUM ADJUSTABLE DEPRESSION (WITH PLATE PRESSURE ±10%)	-800 mbar/hPa -25 mbar/hPa	-850 mbar/hPa -25 mbar/hPa
GAS AND SUPPLY PRESSURE (STANDARD VERSION)	compressed air 400 kPa (4.0 bar) ±10%	
ADJUSTMENT OF SUCTION LEVEL	needle valve	
AIR CONSUMPTION AT THE MAX. SUCTION VALUE	60 L/min. ±2 L/min.	
NOISE LEVEL	<70 dB	
INLET CONNECTION	ISO G. 1/4" M.	
OUTLET CONNECTION	ISO G. 1/2" M. + quick release system for EA	ASYSAFE®

or EasySAFE® PLUS safety jar connection

AV/500

- 1 **Vacuum gauge** with colored sectors scale, for easy reading of set vacuum values.
- 2 The **adjusting knob** allows the suction value setting in a stable and accurate way.
- 3 A quick I/O button switch is available on AV/1000 Venturi unit for immediate suction activation or deactivation.
- 4 On AV/1000 unit a high performance silencer reduces the noise giving comfort to the patient and health operators during the use.
- 5 Quick release system for **EasySAFE® PLUS** or **EASYSAFE®** safety jar connection.









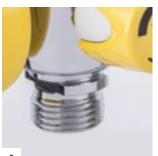
AV/500 AV/1000











VA - VD

Water manometers

The water manometers VA and VD series are used for accurate adjustment of vacuum values in the suction in interventions of gastric and chest drainage.

STRUCTURE

The devices are made essentially of an anodized aluminium head manufactured in anodized aluminum in which a needle valve acts for suction rate adjustments, and where a primary polycarbonate tube containing the water gets the function of measurement and calibration. Inside the tube, a graduated dipstick having scale up to 40 cm (VA/600 and VD/600) or up to 70 cm (VA/1000 and VD/1000) is used to adjust the hydraulic head necessary for the treatment.

Main **information**



The **VD** series has also a secondary tube for fine adjustment of hydraulic head values, and, consequently, of the suction value, up to a maximum value of 5 cm.

Related products







Venturi suction units from p. 79



Collection jars p. 96

	VA/600	VA/1000	VD/600	VD/1000
SIZES (LxWxH)	75x100x710 mm	75x100x1100 mm	80x126x710 mm	80x126x1100 mm
WEIGHT	0.58 Kg	0.75 Kg	0.91 Kg	1.10 Kg
ADJUSTMENT RANGE	$0 \div -40 \text{ cm H}_2\text{O}$	$0 \div -70 \text{ cm H}_2\text{O}$	$0 \div -40 \text{ cm H}_2\text{O}$	0 ÷ -70 cm H ₂ O
INLET MAX. DEPRESSION	-950 mbar			
INLET CONNECTION	ISO G. 1/4" M. hose connector Ø 8.5 mm		nm	
OUTLET CONNECTION	hose connector Ø 8.5 n	nm		















COLLECTION AND SAFETY JARS

Comparison - Main information

	p. 90	p. 92	p. 94	p. 96	p. 96	p. 96
	THE PARTY OF THE P			11500		\$ 16 16 16 17
	EasySAFE® PLUS	EASYSAFE®	MAK/300&500	MAK/1000	MAK/2000	MAK/4000
MATERIAL	polysulfone	polysulfone	policarbonate	policarbonate or polysulfone	policarbonate or polysulfone	policarbonate or polysulfone
CAPACITY	50 ml	50 ml	MAK/300 300 ml MAK/500 500 ml	1000 ml	2000 ml	4000 ml
OPTION	-	-	Antibacteria version	-	-	-
LID	presence of soft grip inserts to help the handling and quick 1/12 turn to speed up the opening	screw lid	screw lid for Antibacteria version: lid with housing for filter	screw lid	screw or pressure lid	pressure lid
INLET CONNECTION	quick release snap ring 1/2″F.	quick release snap ring 1/2"F.	polycarbonate nut 1/2"F. for vacuum regulator connection	hose connector diam 8.0-9.2 mm or ISO G. 1/2"F.	hose connector diam 8.0-9.2 mm or ISO G. 1/2"F. (for MAK/2000 screw lid only)	hose connector diam 8.0-9.2 mm
OUTLET CONNECTION	hose connector diam 8.0-9.2 mm with 360° rolling position	hose connector diam 8.0-9.2 mm	hose connector diam 8.0-9.2 mm	hose connector diam 8.0-9.2 mm	hose connector diam 8.0-9.2 mm	hose connector diam 8.0-9.2 mm
	17	0	-			

EasySAFE® PLUS

Safety jar

The new EasySAFE® PLUS safety jar is a medical device designed and manufactured for applications of "high flow and high vacuum" joint in use with the EasyVAC® PLUS vacuum regulators and with EasyAIR® "Venturi system" suction units.

STRUCTURE

This special safety jar is used to protect the equipment and the plant upstream, should the overflow valve in the main container not be working properly. The **EasySAFE® PLUS** safety jar is made of Polysulfone and fully autoclavable (134 °C - 18 min.), having an overflow floating valve and a housing designed to fit an antibacterial filter to guarantee the complete suction system protection against any contamination. The inlet connection with a quick release snap ring, the rolling 360° position of the patient outlet hose connector and the quick locking system jar-to-lid by 1/12 turn only make simple and easy the connection and removing of the **EasySAFE® PLUS** safety jar to the **EasyVAC® PLUS** vacuum regulators and **EasyAIR®** "Venturi system" suction units. Everything is made to make simple, fast, safe and easy the use by the hospital staff.

CAPACITY

The collecting jar of this safety device has a deliberately reduced capacity (approx. 50 ml) so that even a small presence of fluid could immediately activate the floating valve to stop the suction.



Main **information**



The **EasySAFE®** PLUS safety jar is made of polysulfone and fully autoclavable (134 °C - 18 min.).



It's equipped with an overflow floating valve and a housing designed to fit an antibacterial filter to guarantee the complete suction system protection against any contamination.

Related products



regulators

from p. 69





Venturi suction units from p. 79

Collection jars p. 96

SIZES (LxWxH) 93x76x74 mm

WEIGHT 0.12 Kg

OVERFLOW SYSTEM floating valve

PATIENT CONNECTION hose connector Ø 8.0÷9.2 mm

MAXIMUM APPLICABLE VACUUM VALUE -950 mbar / 5 min.

CAPACITY APPROXIMATELY 50 ml

- 1 Quick release snap ring for **EasyVAC®** PLUS and **EasyAIR®** suction devices connection. Presence of Soft Grip inserts to help the handling.
- **2 Quick 1/12 turn** to speed up the jar cleaning and the antibacterial filter replacement (if filter present).
- 3 360° rolling positioning hose connector $\emptyset = 8.0 \div 9.2$ mm.
- 4 Housing for placing an antibacterial filter (optional).
- 5 EasyVAC® PLUS and EasyAIR® fitted with EasySAFE® PLUS (optional).

EasyVAC® PLUS vacuum regulator, p. 72
EasyAIR® "Venturi system" suction unit, p. 80











EASYSAFE®

Safety jar

The EASYSAFE® safety jar is a medical device designed and manufactured for applications of "high flow and high vacuum".

STRUCTURE

Designed for use with the **EASYVAC®** vacuum regulators, **EASYSAFE®** is used to protect the equipment and plant upstream, should the overflow valve in the main container not be working properly. Made of a strong and reliable techno-polymer (polysulphone), the **EASYSAFE®** safety jar is autoclavable (134 °C - 18 min.), has an overflow floating valve and a housing designed to fit an antibacterial filter to guarantee the complete suction system protection against contamination.

CAPACITY

This safety jar has a deliberately reduced capacity (approx. 50 ml) so that even a small presence of fluid can immediately activate the floating valve to stop the suction.

Main **information**



The vacuum hose connector and the quick release connection nut make the EASYSAFE® simple and easy to set up and to remove from the EASYVAC® vacuum regulator.



The **EASYSAFE®** safety jar is made of polysulfone and fully autoclavable (134 °C - 18 min.).

Related products







Venturi suction units from p. 79



Collection jars

SIZES (LxWxH) 70x90x75 mm **WEIGHT** 0.08 Kg

OVERFLOW SYSTEM floating valve

PATIENT CONNECTION hose connector Ø 8.0÷9.2 mm

MAXIMUM APPLICABLE VACUUM VALUE -950 mbar / 5 min.

CAPACITY APPROXIMATELY 50 ml

- 1 **Quick release** lock-unlock nut system.
- 2 Housing for antibacterial filter Ø 50 mm (optional).
- 3 **EASYVAC®** -1000 mbar fitted with **EASYSAFE®** (optional).

EASYVAC® vacuum regulator, p. 74









Collection containers for small quantity of fluids

The collection containers for suctioned liquids named MAK/300 and MAK/500, are used for the collection of small volumes of suctioned fluids and have been designed and manufactured for applications of "high flow and high vacuum".

STRUCTURE

The two models have capacities of 300 ml and 500 ml respectively in standard execution, or fitting a special lid for housing an antibacterial filter (Antibacteria version). These devices are generally employed or simply for the collection of suctioned fluids, or like a safety container to protect the equipment and the plant upstream of the suction source, in case the safety overflow valve of the collecting primary container does not work regularly. The jar and the lid are made in polycarbonate, with fittings in brass, with ergonomic screw nut in high-strength polycarbonate. All parts can be sterilized in an autoclave (121 °C - 15 min.).

Main **information**



Matched with EASYVAC® and EasyVAC® PLUS vacuum regulators, or with AV and EasyAIR® Venturi suction units, the collection containers MAK series provide simplicity of use and versatility, allowing extreme operating economy.

Related products



Vacuum

regulators

from p. 69





Collection jars p. 96

	MAK/300	MAK/300 Antibacteria	MAK/500	MAK/500 Antibacteria
INNER VOLUME	300 ml	300 ml	500 ml	500 ml
SIZES (LxWxH)	70x84x180 mm	70x84x206 mm	70x84x212 mm	70x84x237 mm
WEIGHT	0.20 Kg	0.24 Kg	0.21 Kg	0.25 Kg
SUPPLY DEPRESSION	max -950 mbar - 5 min.			
OVERFLOW VALVE	floating valve			
INLET CONNECTION	ISO G 1/2" F.			
OUTLET CONNECTION	hose connector Ø 8.0 ÷	- 9.2 mm		

2 Polycarbonate nut for vacuum regulator connection.



Antibacteria





Antibacteria

Large capacity collection jars

The MAK series large size containers for suctioned liquids are designed and manufactured for "high flow and high vacuum" applications. They have a long history, full of positive praises for their versatility, safety and economy.

STRUCTURE

Jar and lid are made of polycarbonate, and two straight inlet/outlet connectors are integrated into the cover (except in the above mentioned version having direct connection to the vacuum regulator that fits one chrome-plated brass nipple with polycarbonate connecting nut). All containers are equipped with an overflow valve, are supplied with two spare elbow connectors, to set up any possible connection between the jar, the suction line and the patient, and are obviously autoclavable (121 °C - 15 min.). If higher sterilization temperatures are required, a PSU version is also available for the three sizes (134 °C - 18 min.). An external graduated scale gives indications about the level of filling. In conjunction with the various supports and accessories available on request, the MAK collection jars grant simplicity in use, versatility and an important operating economy.

Main **information**



They are available with a capacity of 1000 ml with screw cap, of 2000 ml with screw and pressure lid and 4000 ml with pressure lid. Versions having capacities 1000 ml and 2000 ml can also be supplied, as an option, with a special lid with direct thread connection to the vacuum regulator.

Related products







Venturi suction units and Water manometers from p. 79

	MAK/1000	MAK/2000 with screw lid	MAK/2000 with pressure lid	MAK/4000
INNER VOLUME	1000 ml	2000 ml	2000 ml	4000 ml
SIZES (LxWxH)	110x110x235 mm	135x135x285 mm	125x125x285 mm	175x175x310 mm
WEIGHT	0.38 Kg	0.49 Kg	0.49 Kg	0.99 Kg
SUPPLY DEPRESSION	max -950 mbar - 5 min			
OVERFLOW VALVE	floating valve			
INLET CONNECTION	hose connector Ø 8.0÷9.2 mm or ISO G 1/2" F. (for MAK/1000 and MAK/2000 screw lid only)			
OUTLET CONNECTION	hose connector Ø 8.0÷9.2 mm			

- 1 Screw lid (for MAK/1000 and MAK/2000 only) showing the overflow valve and the removable elbow connectors.
- 2 Pressure lid (MAK/2000 and MAK/4000) with overflow valve and removable elbow connectors.
- 3 Lid version for vacuum regulator direct fitting and elbow connector.
- **4 MAK** large capacity collection jars are also available in PSU version.



MAK/1000 MAK/2000 MAK/4000











DISPOSABLE CONTAINERS SYSTEM FOR THE COLLECTION OF SUCTIONED FLUIDS

designed and manufactured for "high flow and high vacuum" applications in medical suction field to collect the organic fluids.

This system is the best expression of safety, practicality and simplicity of use, both for the operators and for hospital plants and environment, thanks to the use of absolutely reliable manufacturing materials. The hermetic lid sealing makes the disposal procedure particularly hygienic, simple and safe for the patient and for the staff charged to remove and handle the device.



The **FLOVAC® HYDROPHOBIC** filter is made of 3 layers having antibacterial, smoke filtration and hydrophobic functions. The filter stops the suction when wet because the fluid reaches the maximum collection level.

GELLING KIT

The gelling kit gives further safety to an highly efficient system. It is a **special absorbing powder transforming liquids in a semi-solid mass**. This grants higher safety for operators charged to clean, handle and transport potentially infected materials.



FLOVAC® LINER

The **FLOVAC® LINER** consists of a soft bag hermetically welded to a rigid lid. **LINERS** are available in 4 capacities and they work when inserted in the related PC reusable and autoclavable rigid containers.

FLOVAC® CANISTER

The **FLOVAC® CANISTER** is a complete disposable system. It consists of a single-use rigid canister coupled with a lid hermetically fixed on it thanks to spring clips preventing any accidental opening.



For any additional information, refer to the specific product catalogues.



practicality safety simplicity

The gelling kit allows to absorb and incorporate all liquids present in the FLOVAC® container and to prevent, in such a way, dangerous contamination risks for the hospital staff in case of biological fluids accidental leakage.

FLOVAC®

Disposable containers

The FLOVAC® disposable containers are used for the collection of organic fluids in suction and have been designed and manufactured for applications of "high flow and high vacuum" (EN ISO 10079-1 and EN ISO 10079-3).

This system mixes simplicity and practicality, guaranteeing great safety from contamination for operators, for the suction plants and for the environment, thanks to the use of the latest manufacturing technologies and of absolutely reliable materials.

THE HYDROPHOBIC FILTER

The **FLOVAC®** system is the result of twenty years of **flow-meter™** experience in the production of disposable devices for the collection of suctioned fluids and get the most important characteristics in its special hydrophobic filter. This filter protects the vacuum generating devices or the centralized suction plant from contamination, as it performs the function of overflow valve, turning off the suction when wetted by the fluid reaching the maximum level of container filling.

THE MECHANICAL VALVE

To complete the **FLOVAC®** range **flow-meter™** has designed the configuration with mechanical overflow valve and antibacterial filter, available both for **LINER** and for **CANISTER** versions.



Main information

The containers are made in four sizes, to be used according to the effective requirements about the volumes expected to be suctioned, and they are manufactured in two distinct versions:

LINER VERSION

Soft bag material: LDPE (low density polyethylene), individually packed in blisters. **Available capacities:** 1.0 L - 1.5 L - 2.0 L - 3.0 L

CANISTER VERSION

Jar material: High Clarity Polypropylene connection between jar and lid through pressure seal with permanent fastening spring clips.

Available capacities: 0.5 L - 1.0 L - 2.0 L - 3.0 L

Both versions show differentiated connecting ports for connecting the collection container with the suction line, with the patient and, if necessary, with another container to increase the suctioned fluid capacity (TANDEM port).



LID MATERIAL	HDPE (High Density Polyethylene)
OVERFLOW VALVE	Hydrophobic filter with antibacterial, antiviral and NO-SMOKE® protection or mechanical overflow valve with antibacterial filter
VACUUM PORT	conic connector, female
PATIENT PORT	\emptyset 14.0 ÷ 15.5 mm (\emptyset 8.0 ÷ 9.2 mm with elbow connector)
TANDEM PORT	Ø 8.0 ÷ 9.2 mm
MAXIMUM SUCTION DEPRESSION	-950 mbar/5 min.
MAXIMUM GRADUATION INTERVAL	50 ml
PATIENT HOSE SIZES	inner $\emptyset \ge 6 \text{ mm} - \text{L max} = 2.5 \text{ m}$
VACUUM HOSE SIZES	inner $\emptyset \ge 6 \text{ mm} - \text{L max} = 1.8 \text{ m}$
HADDODRODIC EILLED MILL VVI	ITIDACTEDIAL ANTIVIDAL AND NO CMOVE® DOCTECTION - MAIN CHADACTEDISTICS

HYDROPHOBIC FILTER WITH ANTIBACTERIAL, ANTIVIRAL AND NO-SMOKE® PROTECTION - MAIN CHARACTERISTICS

BACTERIAL AND VIRAL 599.99995%

MEMBRANE 100% expanded PTFE

PREFILTER micro fiberglass HEPA Air Filter

For any additional information, refer to the specific product catalogues.

- 1 Hydrophobic filter.
- 2 Mechanical valve.

THE LID

of accessories.

The lid keeps space for all the connection ports, easily identifiable and not exchangeable each other: the **VACUUM** port, connected to the suction, the **PATIENT** port having a removable elbow connector to get larger port diameter and allowing suction of fluids containing also small parts of organic material, and the **TANDEM** port, for the connection in cascade of two or more identical devices to increase the collection capacity. Two plugs placed on the lid allow the hermetic seal of the PATIENT and TANDEM ports, while, always integrated in the cover, a handle facilitates the LINER removal from the support jar, as well as simplifies the transport of the container. The lid hermetic seal makes the use and disposal particularly hygienic, simple and safe, both for the patient and for the staff involved with the removal and replacement of the LINERs and CANISTERs. **LINER** system is equipped with anti-reflux system to prevent patient and operator to come in touch with contaminated fluids in case of spillage through the ports happening during the hose disconnection. The **FLOVAC®** system includes a wide and complete range













Bottles 500 g with funnel/doser to be poured into **LINER**s

CONNECTIONS AND ACCESSORIES

FOR SUCTION DEVICES

All **flow-meter™** devices used in suction applications, like vacuum regulators, Venturi suction units and water manometers, can be coupled to the terminal units through the special connections designed and made according to the various national and international standards. These connections to the vacuum or medical air (for Venturi units) distribution systems, on which the user operates frequent connections and detachments, must ensure high safety when used by the health professionals. The following pages contain main information regarding the available range of probes with thread connection, for direct coupling on outlets, and hose connection, for mounting on wall rails or floor stands. Here we present also various types of support systems for all our kinds of collection jars and our catheter containers too.

VACUUM PROBES WITH THREAD AND HOSE CONNECTION, VACUUM REGULATOR OUTLET HOSE CONNECTION, RAIL CLAMPING SYSTEMS, WALL BRACKETS, STAINLESS STEEL RAIL, CATHETER CONTAINERS, SUPPORTING DEVICES

Probes with thread connection



AFNOR NF-S 90-116 probe, thread ISO G. 1/4" F.



AFNOR NF-S 90-116 type EASYFIX® probe, thread ISO G. 1/4" F.



UNI 9507 probe, thread ISO G. 1/4" F.



BS 5682 probe, thread ISO G. 1/4" F.



DIN 13260 probe, thread ISO G. 1/4" F.



SS 875 24 30 probe, thread ISO G. 1/4" F.



JIS T 7101 probe, thread ISO G. 1/8" M.



SANS 1409 probe, thread ISO G. 1/4" F.





OHMEDA probe, thread ISO G. 1/4" F.

Probes with hose connection Vacuum regulator outlet hose connection · Stainless steel rail

Probes with hose connection



AFNOR NF-S 90-116 type EASYFIX® probe, hose connection Ø 7.5 mm.



UNI 9507 probe, hose connection Ø 7.5 mm.



BS 5682 probe, hose connection Ø 7.5 mm.



DIN 13260 probe, hose connection Ø 7.5 mm.



SS 875 24 30 probe, hose connection Ø 7.5 mm.



JIS T 7101 probe, hose connection Ø 7.5 mm.



SANS 1409 probe, hose connection Ø 7.5 mm.



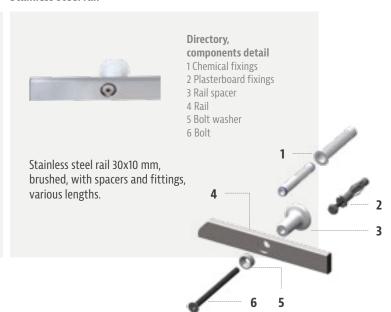
OHMEDA probe, hose connection Ø 7.5 mm.

Vacuum regulator outlet hose connection



Connector for hose Ø 7.5 mm, ISO G. 1/2" F. inlet thread.

Stainless steel rail



Rail clamping systems Wall brackets · Catheter containers

Rail clamping systems



ABS clamp bracket for rail 30x10 mm and 50x10 mm, with nipple threaded ISO G. 1/4" F. and hose connector Ø 7.5 mm.



ABS clamp bracket for rail 30x10 mm and 50x10 mm, with slide 25x5 mm, 30x5 mm, 45x5 mm.



Anodized aluminum wedge for OHMEDA rail clamp bracket, with nipple threaded ISO G. 1/4" F. and hose connector Ø 7.5 mm.



Anodized aluminum
OHMEDA rail clamp
bracket.



Anodized aluminum wedge for OHMEDA rail clamp bracket, with slide 25x5 mm, 30x5 mm or 45x5 mm.

Wall brackets



ABS wall bracket: 25x5 mm, 30x5 mm, 45x5 mm slide.

Catheter containers

flow-meter™ catheter containers are accessories allowing the operators to put down in a hygienic way the suction hose during their activity. They are made with tube of polycarbonate Ø 54 mm by 400 mm length, and they are fully autoclavable (121 °C - 15 min.).

Moreover these containers can be placed in a specific support ring for rail or trolley, in a single or twin construction.



Supporting devices for collection jars

The range of jars supporting devices includes trolleys, metallic support basket and ABS support rings for all containers sizes and models. Baskets and rings are manufactured with a strong and stiff hook matching with main slide sizes.



ABS support ring for **MAK/1000** jar, slides 25x5, 30x5, 41x4, 45x5 mm hook



ABS support ring for **MAK/2000** jars, slides 25x5, 30x5, 41x4, 45x5 mm hook



Metallic support basket for **MAK/4000** jar, slide 25x5 mm



Clip fixing 25x5 mm rings for trolleys, brackets and wall plates



ABS support ring for **FLOVAC®** jars, slides 25x5, 30x5, 41x4, 45x5 mm hook





5 wheels trolley up to 4 different jars (MAK and FLOVAC®) with handle



5 wheels trolley up to 4 different jars (MAK and FLOVAC®) with vacuum regulator and 4 ON-OFF taps



5 wheels trolley up to 4 different jars (MAK) and up to 12 jars (FLOVAC®) with vacuum regulator and safety jar EASYSAFE® and 4 ON-OFF taps



5 wheels trolley up to 4 different jars (MAK and FLOVAC®) with vacuum gauge and 4 ON-OFF taps

Suction trolley units

The flow-meter™ suction trolley units allow to perform suction interventions in a rational and effective manner, as they include in one suction system all the necessary devices for a broad range of surgical and medical procedures, providing the operators with the most suitable solution of use in a hospital environment.

This suction unit system allows to connect to the terminal units fitted on the trolley head one or two **EASYVAC®** vacuum regulators, preferably completed with the relative **EASYSAFE®** safety jar. The slide bracket system on the stand allows to accommodate up to 4 supports for the collection containers of suctioned fluids, disposable or not. The trolley head fits also the catheter container support rings, one for each suction circuit. This to allow the operator to safely store the patient tube after use. The trolley unit fits five antistatic rotating castors, two of which with locking pedal, this to get always an easy, safe and rational positioning. Please refer to the individual product data sheets to see the characteristics of the various devices associated with the trolley.



1 Universal trolley complete with stand, supply hose and probe

2 Collection container

- · Collection jar MAK/1000 MAK/2000 MAK/4000
- Canister **FLOVAC**® 0.5 L 1.0 L 2.0 L 3.0 L
- Liner FLOVAC®
 1.0 L 1.5 L 2.0 L 3.0 L
- PC reusable jar for Liner FLOVAC® 1.0 L 1.5 L 2.0 L 3.0 L

Vacuum regulator

- Vacuum regulator EasyVAC® PLUS or EASYVAC®/250 with probe according to the different standards
- Vacuum regulator EasyVAC® PLUS or EASYVAC®/600 with probe according to the different standards
- Vacuum regulator EasyVAC® PLUS or EASYVAC®/1000 with probe according to the different standards

Safety jar

· Safety jar EasySAFE® PLUS or EASYSAFE® for vacuum regulator EASYVAC® or EasyVAC® PLUS

5 Catheter container

· Catheter container Ø 50 mm - L=200 mm

6 Ring for catheter container

7 Support ring for collection container

- · Support ring with slide 25x5 mm
- for collection canisters **FLOVAC®**
- for collection jars MAK/1000
- for collection jars MAK/2000
- Support basket with slide 25x5 mm for collection jars MAK/4000

DIMENSIONS (LxWxH)	580x580x870 mm
WEIGHT	5.0 Kg (vacuum regulators, collection jars and accessories excluded)
TERMINAL UNITS FOR VACUUM REGULATORS CONNECTION	2 AFNOR NF-S 90-116 / UNI 9507 / DIN 13260 / BS 5682 / SS 875 24 30 outlets
VACUUM SUPPLY HOSE	EN ISO 5359 yellow; length 3 m
PROBE FOR UNIT CONNECTION TO VACUUM PLANT	AFNOR NF-S 90-116 / UNI 9507 / DIN 13260 / BS 5682 / SS 875 24 30
BRACKET SYSTEM FOR COLLECTION JAR SUPPORTS	4 slides with dimensions 25x5 mm

- 1 Probe with hose connector (different standards available).
- 2 Outlets (different standards available).
- **3** Support stand with 4 slides.



Assembly example.

PRESSURE REGULATORS AND FLOWMETERS

ALL MEDICAL GASES

PRESSURE REGULATORS FOR CYLINDERS AND FLOWMETERS



In this section we propose our pressure regulators (FM series and MU) and our Rs flowmeters for applications other than oxygen therapy. The supply of all medical gases through measurement devices requires accuracy and experience in manufacturing and development, so we underline once more that all these devices are made in full compliance with **European standards** and technical regulations, as well as requirements of Regulation (EU) MDR 2017/745 and the approval criteria set by national and international certified bodies.

LABORATORIES AND TESTS

All regulators and flowmeters are rigorously tested, both in **flow-meter™** own quality-assurance laboratories and by independent validated laboratories, to ensure that the products meet all the requirements of the medical applications in any foreseeable therapeutic condition.







The CE marking procedure is carried out according to the requirements of a complete EN ISO 13485 quality system.



Pressure regulators

The single-stage FM pressure regulators are designed for direct fitting on medical gas cylinders in the different reference standards.

STRUCTURE

The single-stage **FM** pressure regulators are equipped with single gauge to check the remaining contents of the cylinder or with double gauge to check and adjust the working conditions according to the user requirements. They can be supplied with the calibration of the outlet pressure preset or adjustable through a knob.

The body is manufactured of chrome-plated brass, with a pre-calibrated overpressure safety valve to protect against any malfunction of the system. A protective silicone cover prevents gauge damages caused by possible shocks received during transport or use. Cylinder inlet connections are available for all the most commonly used medical gases, according to the various standards used in different Countries.

SPECIAL VERSION FOR AMBULANCES

A special version, made for ambulances applications, fits a pressure gauge with electric signal 4-20 mA or 0.5-4.5 V output for the continuous monitoring of the supplied pressure and with system control panel interface.

Main **information**



The **FM** pressure regulators are equipped with single or double gauge.



Calibration of the outlet is preset or adjustable through a knob (double gauge version).

Related products



Cylinder inlet connections from p. 57

	FM single gauge		FM double gauge	
	MAX. SIZES (LxWxH)	MAX. WEIGHT	MAX. SIZES (LxWxH)	MAX. WEIGHT
OUTLET				
TUBING CONNECTOR Ø 6 mm	100x136x120 mm	0.95 Kg	102x136x113 mm	1.14 Kg
TERMINAL UNIT	100x137x120 mm	1.21 Kg	102x137x113 mm	1.40 Kg
THREAD ISO G. 1/4" F.	100x105x120 mm	0.92 Kg	102x105x113 mm	1.11 Kg
MAXIMUM INLET PRESSURE	200 bar (100 bar for N_2O and CO_2)			
INLET CONNECTIONS	UNI 11144 · NF-E 29-650 · BS 341-3 · DIN 477- 1			
TERMINAL UNIT TYPE (IF PRESENT)	AFNOR NF-S 90-116 · UNI 9507 · BS 5682 · DIN 13260 · SS 875 24 30			
GASES OPTIONS	$O_2 \cdot AIR \cdot N_2 O \cdot N_2 \cdot CO_2 \cdot Helium \cdot Hydrogen$			

- 1 Outlet for FM pressure regulator (optional).
- **2** One of the several inlet connections for cylinder direct fitting.

\$FM\$ pressure regulator with single gauge for $N_2 O$





FM pressure regulator with single gauge



FM pressure regulator with double gauge





FM pressure regulator with special gauge for ambulances

Pressure regulator for ambulances

GASES OPTIONS Oxygen

GAUGE ELECTRICAL FINAL 4-20 mA or 0.5-4.5 V output

OUTLET CONNECTOR hose connector with gas specific rotating nut



Pressure regulators

The MU pressure regulators are designed for direct fitting on standard medical gas cylinders.

STRUCTURE

The MU pressure regulators are manufactured with body of chromeplated brass, with a pre-calibrated overpressure safety valve to protect against any malfunction of the system, with an inlet connection for O_2 or Air according to the various standards used in different Countries and with an outlet hose connector.

VERSIONS

They are available in a version with preset calibration of the outlet pressure with single gauge to check the cylinder contents, or with adjustable pressure and a flow gauge to check the flow of the supplied gas. A protective silicone cover prevents gauge damage caused by possible shocks received during transport or use.

Main **information**



The **MU** pressure regulators are equipped with single or double gauge.



It is also available the version with front or side flow gauge, to allow to check the flow of the supplied gas.

Related products



Cylinder inlet connections from p. 57

	SIZES (LxWxH)	WEIGHT
OUTLET		
HOSE CONNECTOR Ø 6 mm	127x51x121 mm	0.64 Kg
FRONT FLOW GAUGE	135x87x121 mm	0.72 Kg
SIDE FLOW GAUGE	135x101x121 mm	0.71 Kg
MAXIMUM INLET PRESSURE	200 bar	
INLET CONNECTION	UNI 11144 · EN 850 · NF-E 29-650 · BS 341-3 · DIN	l 477- 1 · ISO 5145
FLOW GAUGE END OF SCALE VALUE (IF PRESENT)	9 LPM	
FLOW GAUGE ACCURACY (IF PRESENT)	±10% read value or ±0.5 L/min. if greater	

- 1 **Cylinder gas** pressure gauge with colored section and double scale.
- **2 Inlet connection** according to international standards.
- 3 Flow adjusting knob.



MU pressure regulator



MU pressure regulator with front flow gauge

MU pressure regulator with side flow gauge







Rs

Variable area **flowmeters**

The flowmeters type Rs are instant flow measuring devices suitable for the dosage of all medical gases.

STRUCTURE

They can be produced in version with pressure compensated or not compensated and manufactured both with single or twin flow tubes in order to allow a double and independent gas supply using a single gas source. The body is manufactured in chrome-plated brass with metal fittings and the measurement group is made of high resistance polycarbonate, making them ideal for the toughest applications.

SOLUTIONS AND OPTIONS

They are also available in different solutions of pressure calibration, various options of scale, normal or extended (L version) to allow a better reading of the indicated values. Several options are proposed concerning the threaded connections, inlet or outlet, offering an endless variety of combinations to meet all application requirements.

Main **information**



Rs can be manufactured in single or twin configuration in order to allow double and separate gas supply using a single gas source.



The flowmeters type **Rs** fit a needle valve with a knob in color code for the immediate identification of the supplied gas.

Related products



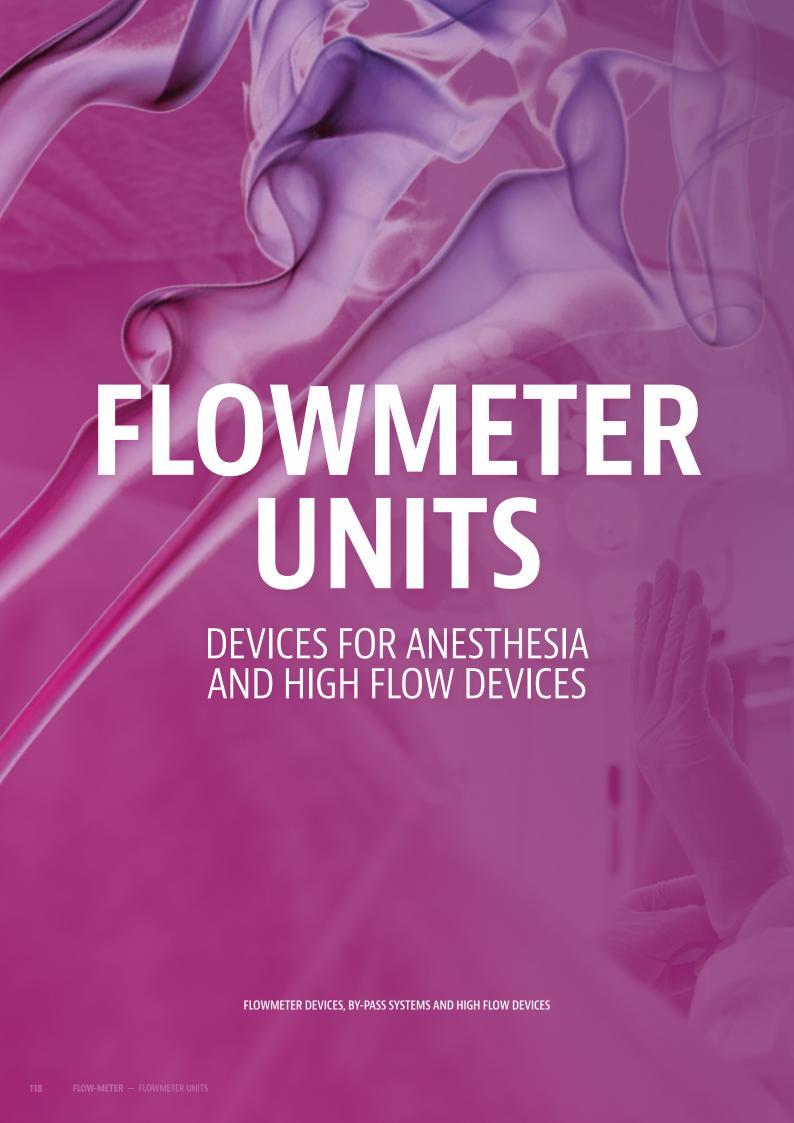
Probes and Accessories for various gases from p. 154

SIZES (LxWxH)	80x33x136 mm
WEIGHT	0.24 Kg
SUPPLY MAX. PRESSURE	600 kPa
END OF SCALE VALUES - 350 KPA	1 L/min. · 4 L/min. · 5 L/min. · 10 L/min. · 15 L/min. · 20 L/min. · 30 L/min. · 50 L/min.
FLUIDS	$O_2 \cdot AIR \cdot N_2 \cdot CO_2 \cdot N_2O$
ACCURACY	±10% read value or ±0.5 L/min. if greater (±10% E.O.S. value for flow E.O.S. ≤ than 1 L/min.)
INLET CONNECTION	ISO G 1/8" F. · ISO G 1/4" M. · 1/4"NPT M. · 3/8" ISO 3253 F. · M 12x1 F.
OUTLET CONNECTION	1/4" ISO 3253 M. · 3/8" ISO 3253 M. · M 12x1.25 M. · 1/2" GAS M. 9/16" UNF EN 13544-2 M. · 1/2" BSF F.

1 Rs ABS knobs, color coded for gas specificity.







The range of anesthesia flowmeter units series FM, SF and RM, available in different configurations, makes it possible to offer many options to meet various requirements in the operating theatre, mobile units and field hospitals.

SAFETY

flow-meter™ anesthesia flowmeters are manufactured in total compliance with all relevant EU standards and meet the requirements of the Regulation (EU) MDR 2017/745, ensuring that they can be relied upon for total safety even in the most stressful situations.









Flowmeters

The FM flowmeters are devices for the supply of medical gases having from two to six antistatic and graduated tubes and completed with an integrated dosage unit.

STRUCTURE

The body is made of anodized aluminum and the inlet connections for O_{2r} Air and N_2O at the bottom of the flowmeter are arranged to be connected to hospital centralized gas plants or to cylinders complete with pressure regulators.

WORKING PRINCIPLE AND SAFETY

The gas feeding unit includes a safety valve automatically blocking the N_2O supply when the feeding pressure of O_2 drops below the value of approximately 0.4 bar. The mixtures of O_2 and N_2O can be supplied to the patient through a dosage unit. An incorporated mixing device proportions the N_2O in such a way that a minimum of at least 30% of O_2 is always present in the gas mixture. At the outlet of the dosage unit, an anesthesia evaporator can be connected or the gas mixture can be supplied directly to the patient through the gas feeding unit. The O_2 + flush button can be used for a quick supply of O_2 directly at the outlet of the mixture on the gas feeding unit.

Main **information**



The **FM** flowmeter can be supplied from two to six tubes.



The \mathbf{O}_2 + flush button can be used for a quick supply of \mathbf{O}_2 directly at the outlet of the mixture on the gas feeding unit.

Related products

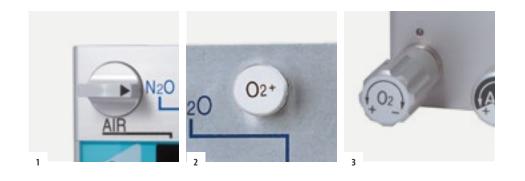


Hoses and probes for various gases from p. 155

	FM 2200	FM 2300	FM 2500	FM 2800	FM 2900
SIZES (LxWxH)	148x143x318 mm	148x143x318 mm	148x143x318 mm	148x143x318 mm	148x190x318 mm
WEIGHT	5.52 Kg	5.57 Kg	5.64 Kg	5.69 Kg	7.20 Kg
DOSAGE RANGE	0 ₂ 0.2 - 15 L/min. N ₂ 0 0.2 - 12 L/min.	0 ₂ 0.1 - 1 L/min. 0.2 - 15 L/min. N ₂ 0 0.1 - 1 L/min. 0.2 - 12 L/min.	O ₂ 0.2 - 15 L/min. Air 0.2 - 15 L/min. N ₂ O 0.2 - 12 L/min.	Air 0.2 - 15 L/min. N₂0 0.1 - 1 L/min. 0.2 - 12 L/min.	Air 0.2 - 15 L/min.
ACCURACY	±10% read value b and ±0.15 L/min fo	etween 10% (or ±0. r flow < 10% E.O.S (3 L/min. if greater) a ±0.1 L/min for flow	and 100% E.O.S. E.O.S. ≤ than 2 L/mi	n.)
INLET PRESSURES	3.5 - 5 bar ±20%				
N ₂ O BLOCKING DEVICE	the supply of N_2O	is blocked when the	e O ₂ pressure drops	below 0.4 bar ±0.2	bar.
CHARGE LOSS LEVEL, SIDE UNDER PRESSURE (BEFORE THE ADJUSTING NEEDLE VALVES)	less than 25 ml/mi	n. in normal pressur	re conditions (ISO 53	358)	
CHARGE LOSS LEVEL, LOW PRESSURE SIDE (AFTER THE ADJUSTING NEEDLE VALVES, VAPORIZER EXCLUDED)	less than 25 ml/mi	n. at 30 cm H ₂ O			
HYPOXYGUARD SYSTEM	at least 30% -3% C (with inlet pressure		he mixture with N ₂ 0	O opening value equ	ual to 0.4 L/min.
MIXED GASES OUTLET CONNECTION	conical connection	23 mm F ISO DIN 53	356/1		
GASES INLET CONNECTIONS	hose connector Ø	6 mm			
O, QUICK DOSAGE (IF FORESEEN)	when pushed it ca	n supply more than	45 L/min. O ₃		

- 1 Gas selector.
- 2 O₂+ flush button.
- 3 Gas adjusting knob.





Flowmeters

The SF flowmeters are devices for the supply of medical gases particularly suitable in respiratory therapy.

STRUCTURE

They are made of anodized aluminum body, and they are available with one or more graduated tubes and a built-in dosage unit. The inlet connections are at the bottom of the unit and arranged to be connected to the hospitals centralized gas plants or to cylinders complete with pressure regulators. For veterinary use, an anesthesia evaporator can be connected at the outlet of the dosage unit.

Main **information**

ПΠ 1+ The **SF** flowmeter can be supplied with 1 or more graduated tubes.

Related products







flush device p. 136

	SF 1		SF 2	SF 3	SF 4
SIZES (LxWxH)	115x73x294	mm	115x114x294 mm	115x137x294 mm	115x170x294 mm
WEIGHT	1.12 Kg		1.61 Kg	2.00 Kg	2.40 Kg
DOSAGE RANGE	Air N ₂ O	0.1 - 1 L/min. 0.1 - 8 L/min. 0.2 - 15 L/mir 0.2 - 15 L/mir 0.1 - 1 L/min. 0.2 - 12 L/mir	1.		
ACCURACY	±10% read	value or ±0.1	15 L/min. if greater (±10%	% E.O.S. value for flow E.	O.S. ≤ than 1 L/min.)
INLET PRESSURES	3.5 - 5 bar	±20%			

CHARGE LOSS LEVEL, SIDE UNDER PRESSURE (BEFORE THE ADJUSTING less than 25 ml/min. in normal pressure conditions (ISO 5358) **NEEDLE VALVES)**

CHARGE LOSS LEVEL, LOW PRESSURE

SIDE (AFTER THE ADJUSTING less than 25 ml/min. at 30 cm H_2O **NEEDLE VALVES)**

MIXED GASES OUTLET CONNECTION

Ø 22 M. - 15 F. ISO DIN 5356-1 or conical connection 23 mm F ISO DIN 5356/1 (for veterinary use only)

GASES INLET CONNECTIONS hose connector Ø 6 mm

- 1 Gas adjusting knobs.
- 2 Inlet hose connectors, detail.







EasyMIX®

Oxygen/air mixer

The oxygen/air mixer type EasyMIX® is a single device that can be used in oxygen therapy, aerosol therapy and CPAP therapy with the possibility to constantly monitor the oxygen concentration present in the supplied mixture through an on-line oxygen analyzer (optional).

STRUCTURE

The device is composed by two variable area flowmeter groups, one for oxygen with a dual scale 2-10 L/min. and 10-50 L/min. and one for medical air with scale 6-50 L/min, both assembled in a single body made of anodized aluminium equipped with a clamp for rail 30x10 mm with locking knob. The two independent inlet threads NIST EN ISO 5359, made of chrome-plated brass, allows a connection to the supply source through low pressure hose assemblies fitted with probes according to the user's plant and fixed in an unmovable way.

POSSIBLE APPLICATIONS

The 2-in-1 connector for the mixture outlet offers several solutions:

- the thread 9/16" UNF EN 13544-2 M. allows to screw a reusable, single patient or prefilled humidifier;
- a connector with diameter 22 M. ISO DIN 5356-1 allows the connection to a system for the CPAP therapy, through a corrugated hose;
- a metal hose connector Ø 6.0 ÷ 8.5 mm, already supplied with the device, for a direct connection to the patient hose (nose catheter or hose with mask).

A single device able to satisfy different use requirements in the field of the respiratory therapy.



Main **information**



The optional analyser allows to constantly monitor the oxygen concentration present in the supplied mixture.



The **EasyMIX**[®] is a single device able to satisfy different use requirements in the field of the respiratory therapy.

Related products







Humidifiers from p. 47

SIZES (LxWxH) 110x130x157 mm WEIGHT 1.0 Kg 1.2 Kg with Oxygen Analyzer (optional)		
	SIZES (LxWxH)	110x130x157 mm
	WEIGHT	
SUPPLY MAX PRESSURE 600 kPa (6 bar)	SUPPLY MAX PRESSURE	600 kPa (6 bar)
GASES OPTIONS O ₂ · Air	GASES OPTIONS	$O_2 \cdot Air$
STANDARD SCALES - 400 kPa (4 bar) O ₂ dual scale 2-10 L/min 10-50 L/min. Air 6-50 L/min.	STANDARD SCALES - 400 kPa (4 bar)	
ACCURACY ±10% read value or ±0.5 L/min. if greater	ACCURACY	±10% read value or ±0.5 L/min. if greater
SUPPLY CONNECTIONS independent NIST EN ISO 5359	SUPPLY CONNECTIONS	independent NIST EN ISO 5359
MIXED GASES OUTLET CONNECTION 9/16" UNF EN 13544-2 M Ø 22 M. ISO DIN 5356-1 + an incorporated metal outlet hose connector Ø 6.0 ÷ 8.5 mm	MIXED GASES OUTLET CONNECTION	

- Detail of outlet with hose connector (supplied with the device).
- 2 Detail of outlet with corrugated hose.
- 3 Detail of **EasyMIX**® with humidifier.
- 4 Detail of dual scale for oxygen.





Technical specifications | Oxygen analyzer

SENSOR TYPE	electrochemical
RANGE OF MEASURAMENT	0÷99% Vol. oxygen
DISPLAY INDICATION	1% Vol.
MEASUREMENT TIME	1 sec.
RESPONSE TIME	< 5 sec.
ACCURACY	±3% read value





EasyMIX® oxygen/air mixer with **OXITER®** oxygen therapy single-patient humidifiers

P. 124, 52

EasyVEE®

Flow driver "jet"

The Jet device (Venturi unit) works as an high flow driver (booster) for high flow oxygen therapy through the use of HFNC or for CPAP, and it requires the gas supply from an Oxygen source only.

STRUCTURE

The **EasyVEE®** Jet device is equipped with an inlet connection to be mounted on the outlet of the variable area flowmeter, working as a "driver" source for Venturi. The intake ambient air regulator, complete with connector Ø 22 F. – according to ISO DIN 5356-1, allows the adjustment of the oxygen concentration value (FiO₂) of the mixture supplied to the patient. The Jet device gives the possibility to monitor constantly the oxygen concentration present in the supplied mixture through an online oxygen analyser (optional), connected to the FiO₂ monitor port. On the head of the device a quick dial nut allows the operator to select the function O_2 -Air (MIX) or 99% O_2 , this last one is foreseen to ventilate patient with high flows of Oxygen only. The mixture outlet connector (Ø 22 M – 16 F) made in accordance with Standard ISO DIN 5356-1 enables to add an on-line antimicrobial filter assuring a protection for the patient and reducing the noise of the system, thus giving a higher comfort during the therapy.

APPLICATIONS

- **Application for single high flow flowmeter:** flow range 50 L/min. with double scale: 2÷10 L/min. and 10÷50 L/min.
- Application for twin high flow flowmeter: flowmeter [A] with end of scale 30 L/min.; flowmeter [B] with end of scale 15 L/min. or 30 L/min.



Main **information**



For CPAP application, this device must be used only for the ventilation with the specific mask or with hood. It requires a PEEP valve placed on the outlet of the expiratory side.

Related products



Rs variable area oxygen flowmeters p. 24

SIZES (LxWxH)	150x100x55 mm
WEIGHT	0.35 Kg 0.55 Kg with oxygen analyzer (optional)
SUPPLIED GAS	O_2
SUPPLIED STANDARD PRESSURE	400 kPa (4 bar) +/- 10%
FiO ₂ ADJUSTMENT	from 35% to max 99%
OXYGEN SUPPLY CONNECTION	9/16" UNF EN 13544-2 F.
INLET CONNECTION FOR THE INTAKE AMBIENT AIR	Ø22 F. ISO DIN 5356-1
OUTLET CONNECTION	Ø22 M 16 F. ISO DIN 5356-1

- 1 Intake ambient air inlet with adjustable knob.
- 2 Quick dial nut allows the operator to select the function O₂-Air (MIX) or 99% O₂.
- **3** FiO₂+ port.







Download the app EasyVEE®





The App provides the healthcare professional with all guidelines to set the required flows for the ongoing respiratory therapy.















Technical specifications | Oxygen analyzer

SENSOR TYPE	electrochemical
RANGE OF MEASURAMENT	0÷99% Vol. oxygen
DISPLAY INDICATION	1% Vol.
MEASUREMENT TIME	1 sec.
RESPONSE TIME	< 5 sec.
ACCURACY	±3% read value

CLINICAL APPLICATION

The aim of the pressure gradient is to:

- Ensure a greater opening of the alveoli during inspiration
- Prevent alveolar collapse at the end of expiration, by maintaining a PEEP level
- Reduce the effort necessary to breathe, thus avoiding hypoxemia, hypercapnia, metabolic and respiratory acidosis typical of IRDS.

The JET system is mainly indicated for:

- Acute respiratory distress syndrome (ARDS)
- Severe respiratory distress
- Post-surgery hypoxemia
- Asthma
- Chronic obstructive pulmonary disease (COPD)
- Thoracic trauma
- Prophylaxis and treatment of acute apnoea attacks
- Pulmonary oedema and atelectasis of varying origins, and for weaning from a mechanical ventilator.

CPAP respiration, applied with any method, requires the patient's efficient spontaneous respiration (cases with frequent apnoea, or severe respiratory failure, require ventilator support).

To the patient is administered a gaseous mixture, with an appropriate concentration of O_2 , metered in L/min. by one or two oxygen flow meters, and the CPAP is obtained by discharging through a respiratory circuit terminal (PEEP valve), the expired gases.

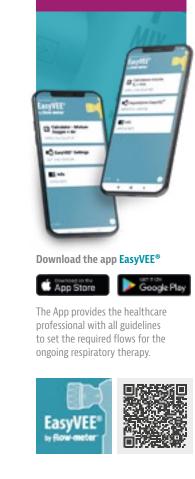


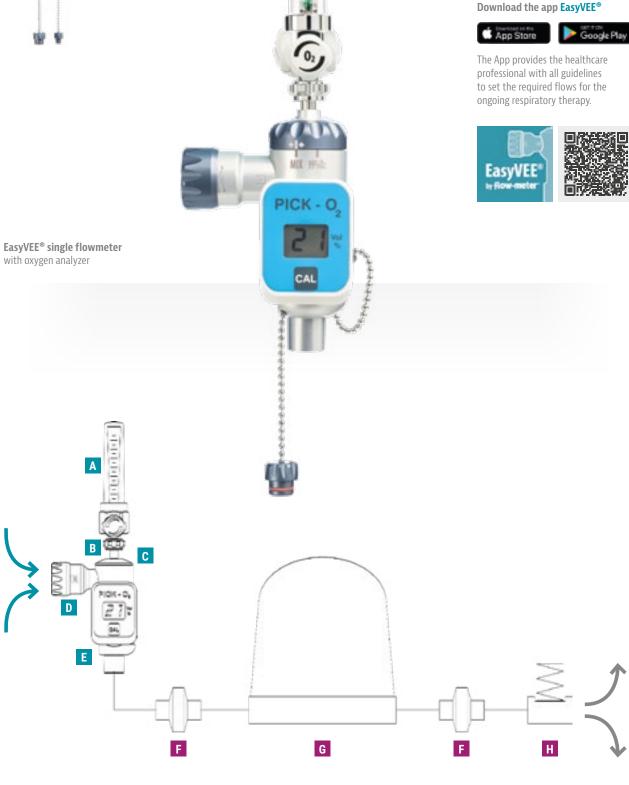
Single high flow	flowmeter driver (flow range 50 L/min. with	A
	double scale: 2÷10 L/min, and 10÷50 L/min.)	

- Jet Device (Venturi): works as a high flow driver (booster)
 for the non-invasive ventilation
- Quick dial nut to select the function O₂-Air (MIX) or 99% O₃
- The connector for the intake ambient air with adjustable knob
 - On-line oxygen analyzer (optional)

OTHER SUPPLIER:

- Antimicrobial filter **F**
- Hood (or facial mask) for CPAP G
 - PEEP valve H





EasyVEE® twin flowmeter

with oxygen analyzer

T







Flowmeters

The flowmeters type RM/185-2 are devices for the supply of medical gases with two meters suitable in respiratory therapy.

STRUCTURE

The measurement tubes are made in the body of the unit and the inlet connections are at the bottom of the units and arranged to be connected to the hospitals centralized gas plants or to gas cylinders completed with pressure regulators. For veterinary use, an anesthesia evaporator can be connected at the outlet of the dosage unit.

Related products



Hoses and probes for various gases from p. 155

RM/185-2

SIZES (LxWxH) 99x83x204 mm

WEIGHT 0.60 Kg

DOSAGE RANGE O, N,O · Air 5 L/min. · 15 L/min. · 30 L/min. · 40 L/min.

ACCURACY ±10% read value or ±0.5 L/min. if greater

INLET PRESSURES 3.5 - 5 bar ±20%

CHARGE LOSS LEVEL, SIDE UNDER PRESSURE (BEFORE THE ADJUSTING NEEDLE VALVES)

less than 25 ml/min. in normal pressure conditions (ISO 5358)

CHARGE LOSS LEVEL, LOW PRESSURE SIDE

MIXED GASES OUTLET CONNECTION

(AFTER THE ADJUSTING NEEDLE VALVES, less than 25 ml/min. at 30 cm H_2O

VAPORIZER EXCLUDED)

 \emptyset 22 M. - 15 F. ISO DIN 5356-1 or conical connection 23 mm F ISO DIN 5356/1 (for veterinary use only)

GASES INLET CONNECTIONS hose connector Ø 6 mm



1 Adjusting knobs.

$0_{2}+$

Flush device

The O_2 + flush device is suitable for a quick oxygen supply directly at the mixed gases outlet at the end of an anesthesia circuit.

STRUCTURE

Made of anodized aluminum, it is equipped with an anesthetic mixture inlet connection, an oxygen enriched mixture outlet connection, an $\rm O_2$ feeding connection and a supply button. Different constructions can be made on request.

Related products



SF flowmeters p. 122

SIZES (LxWxH) 93x63x80 mm

WEIGHT 0.34 Kg

MIXED GASES INLET CONNECTION conical connection 23 mm M., ISO DIN 5356/1

MIXED GASES OUTLET CONNECTION conical connection 23 mm F., ISO DIN 5356/1

FEEDING 3.5 - 5 bar ±20%

O, **FEEDING CONNECTION** automatic type for Ø 6 mm PA hose

 O_2 QUICK SUPPLY when pushed it can supply more than 45 L/min. O_2 (at 3.5 bar)

- 1 Inlet connection in detail.
- 2 O₂+ flush button, detail.
- 3 Outlet and O₂+ feeding connectors, detail.











As terminal units are intended those fixed or removable points of a medical gas distribution plant on which the user operates frequent connections and disconnections to supply the various gases for feeding the anesthesia equipment, for ventilation, oxygen therapy and medical use in general. There are also available the terminal units in special version for scavenging system.

STANDARDS

These terminal units are designed and manufactured in accordance with various national and international standards providing operators with high standards of safety during the use.









Terminal Units

The terminal units for medical compressed gases and vacuum are the points allowing operators in hospitals to connect medical appliances to the gas distribution systems.

MAIN FEATURES

- Gas-specificity to grant safe connections
- Color code according to international standards
- Available in construction of 1 to 4 units
- According to AFNOR NF-S 90-116/NF-DS 90-119,
 NIST EN ISO 5359, UNI 9507, DIN 13260, BS 5682,
 SS 875 24 30 standards
- Possibility of surface or flush mounted installation.



DIN 13260 outlets

Flush-mounted installation with DIN 13260 outlets (surface installation also available).



SS 875 24 30 outlets

Flush-mounted installation with SS 875 24 30 outlets (surface installation also available).



Flush-mounted installation with BS 5682 outlets

AFNOR NF-S 90-116/NF-DS 90-119/ NIST EN ISO 5359 outlets

Flush-mounted installation with AFNOR NF-S 90-116/NF-DS 90-119/NIST EN ISO 5359 outlets (surface installation also available).



AFNOR NF-S 90-116/ NF-DS 90-119/NIST EN ISO 5359 outlets Surface installation with AFNOR NF-S 90-116/

NF-DS 90-119/NIST EN ISO 5359 outlets.

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Wall cases

Terminal units · Components



Modular flush-mounted case, complete with disposable panel, suitable for housing AFNOR NF-S 90-116/NF-DS 90-119, UNI 9507, DIN 13260, BS 5682 and SS 875 24 30 sockets and outlets.



Shiny ABS cover panel for modular flush-mounted cases for **AFNOR NF-S 90-116/NF-DS 90-119, UNI 9507, DIN 13260, BS 5682** and **SS 875 24 30** type outlets. Available with 1, 2, 3 or 4 positions.



Surface mounted case, complete with varnished stainless steel cover panel, with 1, 2, 3 or 4 positions, suitable for housing AFNOR NF-S 90-116/NF-DS 90-119, UNI 9507, DIN 13260, BS 5682 and SS 875 24 30 sockets and outlets.



Gases identification labels for **AFNOR NF-S 90-116/NF-DS 90-119/NIST EN ISO 5359** outlets, suitable for fitting on cover panels on modular flush-mounted cases or on surface-mounted cases.



Gases identification labels for **DIN 13260, BS 5682, SS 875 24 30** outlets, suitable for fitting on cover panels on modular flush-mounted cases or on surfacemounted cases.



Plasterboard rail for modular flush-mounted cases.

Outlets

Terminal units · Components



Outlet type **AFNOR NF-S 90-116/NF-DS 90-119** for compressed medical gases and vacuum available in the following construction:

- with gas specific thread UNI 9507
- with thread ISO G. 1/4" M.
- with hose connector Ø 6.0 mm for compressed medical gases and with hose connector Ø 7.5 mm for vacuum.



Outlet type **NIST EN ISO 5359** for compressed medical gases and vacuum available in the following constructions:

- with gas specific thread UNI 9507
- with hose connector Ø 6.0 mm for compressed medical gases and with hose connector Ø 7.5 mm for vacuum.



Outlet type **UNI 9507 NEO** with access for simplified maintenance for compressed medical gases and vacuum available in the following constructions:

- with gas specific thread UNI 9507
- with hose connector Ø 6.0 mm for compressed medical gases and with hose connector Ø 7.5 mm for vacuum.



Outlet type **DIN 13260** for compressed medical gases and vacuum.



Outlet type **BS 5682** for compressed medical gases and vacuum.



Outlet type **SS 875 24 30** for compressed medical gases and vacuum.



Outlet type **UNI 9507** with thread for medical gases and vacuum, equipped with parking device.

9 9 9

Sockets

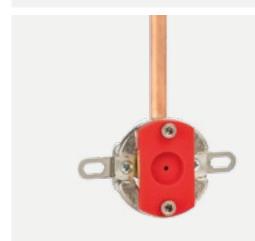
Terminal units \cdot Components



Outlet socket with nut for panel mounting for compressed medical gases and vacuum with gas specific thread **UNI 9507**.



Outlet socket for compressed medical gases and vacuum with gas specific thread **UNI 9507**, complete with nut and copper welding tube nipple.



Outlet socket for compressed medical gases and vacuum for **DIN 13260, BS 5682, SS 875 24 30** outlets.



Flush-mounted case with rotating hose positioning



Back hose

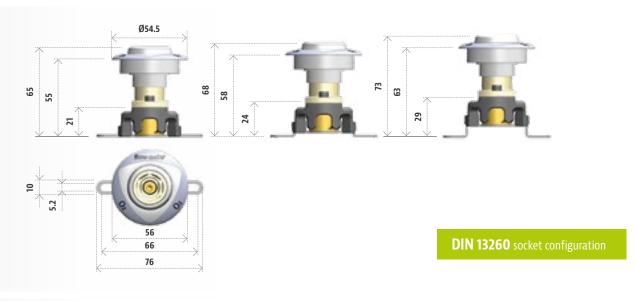


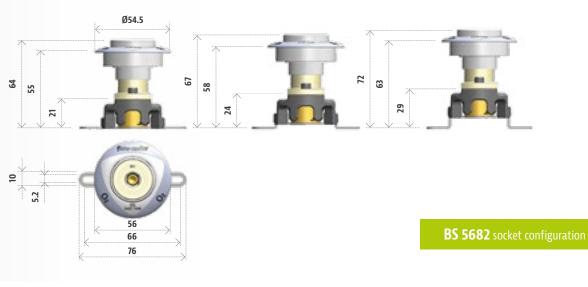
Rotating hose nozzle



Back hose nozzle

Configurations







9 9 9

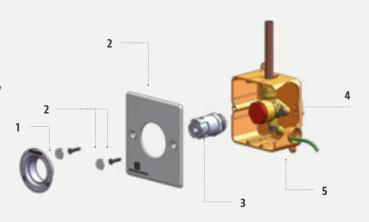
Directory

Terminal units · **Flush-mounted** installation

AFNOR NF-S 90-116/NF-DS 90-119/ NIST EN ISO 5359 outlets

Directory · Components detail

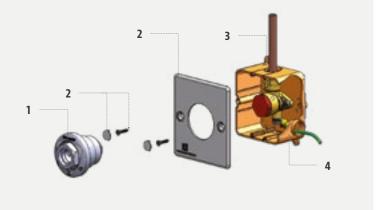
- 1 Gas identification label for AFNOR NF-S 90-116/ NF-DS 90-119/NIST EN ISO 5359 outlets
- 2 ABS panel for modular flush-mounted cases with screws
- 3 Outlet type AFNOR NF-S 90-116 or NF-DS 90-119 or NIST EN ISO 5359
- 4 Socket with UNI 9507 thread
- 5 Modular flush-mounted case



UNI 9507 outlets

Directory · Components detail

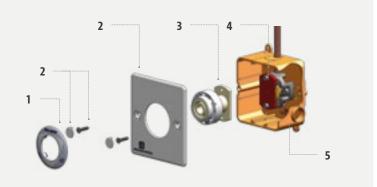
- 1 Outlet type UNI 9507
- 2 ABS panel for modular flush-mounted cases with screws
- 3 Socket with UNI 9507 thread
- 4 Modular flush-mounted case



DIN 13260, BS 5682, SS 875 24 30 outlets

Directory · Components detail

- 1 Gas identification label for DIN 13260, BS 5682, SS 875 24 30 outlets
- 2 ABS panel for modular flush-mounted cases with screws
- 3 Outlet type DIN 13260 or BS 5682 or SS 875 24 30
- 4 Socket for DIN 13260, BS 5682, SS 875 24 30 outlets
- Modular flush-mounted case



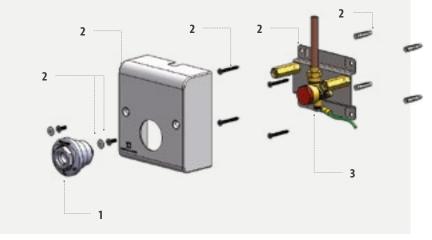
Terminal units · **Surface** installation



UNI 9507 outlets

Directory · Components detail

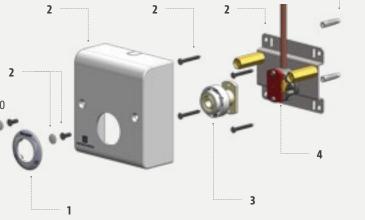
- 1 Outlet type UNI 9507
- 2 Surface mounted case with screws and spacers
- 3 Socket with UNI 9507 thread



DIN 13260, BS 5682, SS 875 24 30 outlets

Directory · Components detail

- 1 Gas identification label for DIN 13260, BS 5682, SS 875 24 30 outlets
- **2** Surface mounted case with screws and spacers
- **3** Outlet type DIN 13260 or BS 5682 or SS 875 24 30
- 4 Socket for DIN 13260, BS 5686, SS 875 24 30 outlets



EN ISO 9170-2 AGSS type 1

Terminal units

The EN ISO 9170-2 AGSS type 1 terminal units for anesthetic gas scavenging systems are the points allowing operators in hospitals to connect the appropriate quick couplings to safely dispose the exceeding anesthetic gases and vapors away from the clinical environment.

Main **information**



Two main installation principles are available: Venturi type and Blower type.

SOLUTIONS AND OPTIONS

The main purpose is to minimize the pollution of the premises where anesthetics are used. Two main installation principles are available:

Venturi type | The suction system is based on the Venturi principle, on the basis of which an injector supplied with compressed air at a pressure of 4 bar, produces a constant suction (set by the installer) suitable for discharging anaesthetic gases outside the room where they are used.

Blower type | A blower generates a constant suction inside the centralized suction system designed to eliminate the anaesthetic gases from the room where they are used; the installer can also adjust the flow discharged directly on the base block by means of a variable section connector.





Flush-mounted installation

Surface installation



Components

EN ISO 9170-2 AGSS type 1







Painted stainless steel cover panel, for flush-mounted case for EN ISO 9170-2 AGSS type 1 outlet with front access for the outlet simplified calibration.



Flush-mounted case, complete with disposable panel, suitable for housing EN ISO 9170-2 AGSS type 1 sockets and outlet.



EN ISO 9170-2 AGSS type 1 outlet.



Venturi type Socket for EN ISO 9170-2 **AGSS type 1** outlet with Venturi system. An injector supplies compressed air at 4 bars creating a constant suction (the setting value can be adjusted during installation) suitable to eliminate the anesthetic gases from the area where they are used. Front access for the simplified calibration without need to disassemble the outlet or to open the cover panel.



1 Probe for EN ISO 9170-2 AGSS type 1 outlet. **2** Pneumatic gauge indicating the terminal unit status, to be connected to the socket of the **EN ISO 9170-2 AGSS type 1** outlet with Venturi system.



Blower type Socket for EN ISO 9170-2 AGSS type 1 outlet for blower. A blower generates a constant suction inside the central system for the scavenging of anesthetic gases from the area where they are used. The flow can be adjusted during the installation directly on the socket by means of a variable section connector.



Surface mounted case, complete with varnished stainless steel cover panel, suitable for housing EN ISO 9170-2 AGSS type 1 sockets and outlets with front access for the outlet simplified calibration.

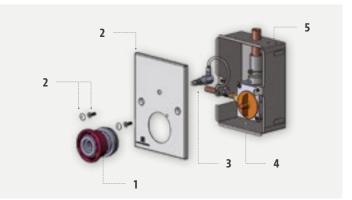
Directory

EN ISO 9170-2 AGSS type 1 · Flush-mounted and surface installation

EN ISO 9170-2 AGSS type 1 outlet with Venturi system FLUSH-MOUNTED INSTALLATION

Directory · Components detail

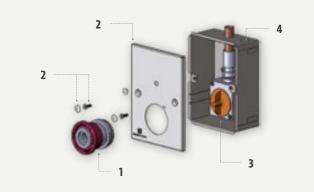
- 1 EN ISO 9170-2 AGSS type 1 outlet
- 2 S/S cover panel with screws
- 3 Pneumatic gauge
- 4 Socket for EN ISO 9170-2 AGSS type 1 outlet with Venturi system
- **5** Flush-mounted case



EN ISO 9170-2 AGSS type 1 outlet for blower FLUSH-MOUNTED INSTALLATION

Directory · Components detail

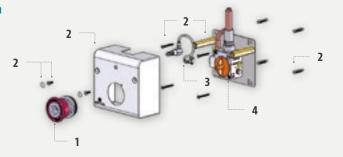
- 1 EN ISO 9170-2 AGSS type 1 outlet
- **2** S/S cover panel with screws
- 3 Socket for EN ISO 9170-2 AGSS type 1 outlet for blower
- 4 Flush-mounted case



EN ISO 9170-2 AGSS type 1 outlet with Venturi system SURFACE INSTALLATION

$\textbf{Directory} \cdot \textbf{Components detail}$

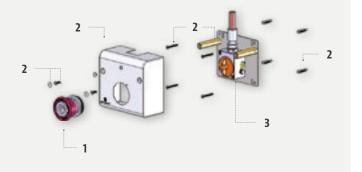
- 1 EN ISO 9170-2 AGSS type 1 outlet
- 2 Surface mounted case with screws and spacers
- 3 Pneumatic gauge
- 4 Socket for EN ISO 9170-2 AGSS type 1 outlet with Venturi system



EN ISO 9170-2 AGSS type 1 outlet for blower SURFACE INSTALLATION

Directory · Components detail

- 1 EN ISO 9170-2 AGSS type 1 outlet
- 2 Surface mounted case with screws and spacers
- 3 Socket for EN ISO 9170-2 AGSS type 1 outlet for blower



ACCESSORIES

RAILS, FIXING DEVICES, PHLEBOCLYSIS RODS, JOINTED EXTENSION, LOW PRESSURE HOSE ASSEMBLIES

The range of accessories includes a wide variety of clamp brackets for rail or floor stands, ABS wall brackets with various slide dimensions, brushed stainless steel rails complete with spacers and wall or plasterboard fasteners, medical gas hoses EN ISO 5359, catheter containers, jointed extensions and phleboclysis rods.

APPLICATIONS

These accessories give the possibility to complete the proposals offering the best solutions for the customer requirements, according to the different using needs in hospitals and in emergencies.







emergency



home care

Probes with thread connection



Probe type **AFNOR NF-S 90-116** with thread ISO G. 1/4" F.



Probe type **AFNOR NF-S 90-116 EASYFIX**® with thread ISO G. 1/4" F.



Probe type **UNI 9507** with thread ISO G. 1/4" F.



Probe type **BS 5682** with thread ISO G. 1/4" F.



Probe type **DIN 13260** with thread ISO G. 1/4" F.



Probe type **SS 875 24 30** with thread ISO G. 1/8" M. or ISO G. 1/4" F.



Probe type **JIS T 7101** with thread ISO G. 1/8" M.



Probe type **SANS 1409** with thread ISO G. 1/4" F.



Probe type **OHMEDA** with thread ISO G. 1/4" F.

Probes with hose connection



Probe type **AFNOR NF-S 90-116 EASYFIX®** for compressed medical gases with hose connector Ø 6 mm and for Vacuum with hose connector Ø 7.5 mm.



Probe type **UNI 9507** for compressed medical gases with hose connector Ø 6 mm and for Vacuum with hose connector Ø 7.5 mm.



Probe type **NIST EN ISO 5359** for compressed medical gases with hose connector Ø 6 mm and for Vacuum with hose connector Ø 7.5 mm.



Probe type **BS 5682** for compressed medical gases with hose connector Ø 6 mm and for Vacuum with hose connector Ø 7.5 mm.



Probe type **DIN 13260** for compressed medical gases with hose connector Ø 6 mm and for Vacuum with hose connector Ø 7.5 mm.



Probe type **SS 875 24 30** for compressed medical gases with hose connector Ø 6 mm and for Vacuum with hose connector Ø 7.5 mm.



Probe type **JIS T 7101** for compressed medical gases with hose connector Ø 6 mm and for Vacuum with hose connector Ø 7.5 mm.



Probe type **SANS 1409** for compressed medical gases with hose connector Ø 6 mm and for Vacuum with hose connector Ø 7.5 mm.



Probe type **OHMEDA** for compressed medical gases with hose connector Ø 6 mm and for Vacuum with hose connector Ø 7.5 mm.

Outlet duplicators



Outlet duplicator type **AFNOR NF-S 90-116**.



Outlet duplicator type **NIST EN ISO 5359**.



Outlet duplicator type **UNI 9507**.



Outlet duplicator type **BS 5682**.



Outlet duplicator type **DIN 13260**.



Outlet duplicator type **SS 875 24 30**.

Rail clamping system · Wall brackets · Stainless steel rail

Rail clamping system



Universal bracket made of anodised aluminium for stand Ø 30 mm.



ABS clamp for rail 30x10 mm and 50x10 mm complete with nipple threaded ISO G. 1/4" F. and hose connector Ø 6 mm (for medical gases) or Ø 7.5 mm (for Vacuum).



ABS clamp bracket for rail 30x10 mm and 50x10 mm, with slide 25x5 mm, 30x5 mm or 45x5 mm.



Chrome-plated universal bracket for rail 30x10 mm with locking knob.



Chrome-plated universal bracket for rail 30x10 mm and 50x10 mm.



Anodized aluminum wedge for OHMEDA rail clamp bracket, with nipple threaded ISO G. 1/4" F. and hose connector Ø 6 mm (for medical gases) or Ø 7.5 mm (for vacuum).



Anodized aluminum OHMEDA rail clamp bracket.



Anodized aluminum wedge for OHMEDA rail clamp bracket, with slide 25x5 mm, 30x5 mm or 45x5 mm.

Rail clamping system \cdot Wall brackets \cdot Stainless steel rail

Wall brackets



Stainless steel rail



Accessories



Jointed extensions

 $\textbf{flow-meter}^{\intercal} \text{ jointed extension is a system particularly suitable to support the corrugated tubes of respiratory circuits.}$

The jointed extension is available with or without rail clamp bracket, with one or two joints allowing an easy orientation and with a device to fix two tubes \emptyset 16 mm or \emptyset 22 mm. Thanks to the swivel joints with cogging, it is an efficient support for even considerable weights.

Sizes of sections | Type with:

ONE JOINT First section: 150 mm - Second section: 450 mm
TWO JOINTS First section: 150 mm - Second section: 450 mm
Third section: 300 mm



Phleboclysis rods

flow-meter™ phleboclysis rods are support units particularly suitable to hold the infusion bottles during the hospital therapies. The phleboclysis rods allow an easy orientation and they can have the two following constructions:

- fixed construction, with straight or angled terminal piece and two hooks;
- extendible construction, with angled terminal piece and four hooks.

Thanks to the particularly strong structure made of chrome-plated steel, they can support even considerable weights.

Different constructions are produced under request.

Low pressure hose assemblies

FN ISO 5359

The low pressure hose assemblies, meeting the requirements of the Standard EN ISO 5359, are indicated for the use with the following medical gases:

- Oxygen (0₂);
- Medical air (AIR);
- Air for driving surgical tools (AIR-800);
- Vacuum (VAC).

Here under some examples of suggested uses for the flexible hose assemblies:

- a. Connection between terminal units and medical equipment (refer to Standards EN ISO 9170-1, EN ISO 80601-2-13 and EN ISO 80601-2-12);
- b. Connection between a distribution pipeline system and one of its terminal units (refer to Standards EN ISO 7396-1 and EN ISO 11197);
- c. Connection between two terminal units (refer to Standard EN ISO 7396-1);
- d. Connection between an emergency supply source and a supply point for the emergency and the maintenance of a distribution pipeline system (refer to Standards EN ISO 10524-1 and EN ISO 7396-1);
- e. Connection between an emergency supply point and a medical equipment (refer to Standards EN ISO 10524-1, EN ISO 80601-2-13 and EN ISO 80601-2-12).

Main **information**



These flexible hose assemblies can be used in a pressure range from 300 kPa to 1400 kPa for compressed medical gases and from 10 kPa to 100 kPa (absolute pressure) for vacuum.

COMPRESSED MEDICAL GASES HOSE SIZES	Ø 11.5x5 mm
VACUUM HOSE SIZES	Ø 13.5x6.3 mm
HOSE INNER MATERIAL	black EPDM with antistatic treatment
HOSE ARMOUR	polyester
HOSE COATING	EPDM coloured according to the gas type
COMPRESSED MEDICAL GASES WORKING PRESSURES	from 300 kPa to 1400 kPa
VACUUM WORKING PRESSURES	from 10 kPa to 100 kPa (absolute pressure)
STANDARD HOSE LENGTHS	1.5 m, 2.5 m, 4.5 m for gases 1.5 m, 2.5 m for vacuum

- 1 Different configurations of probes and outlets and available for all medical gases.
- 2 Unamovable clamping system.



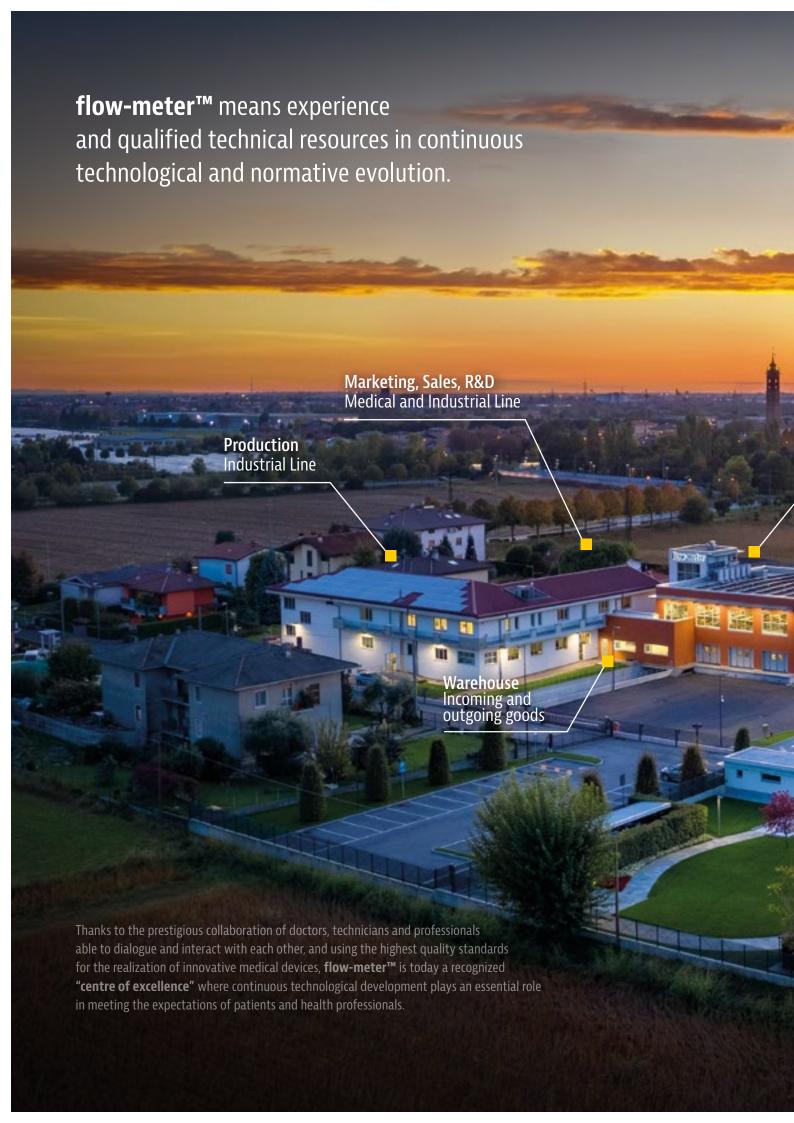


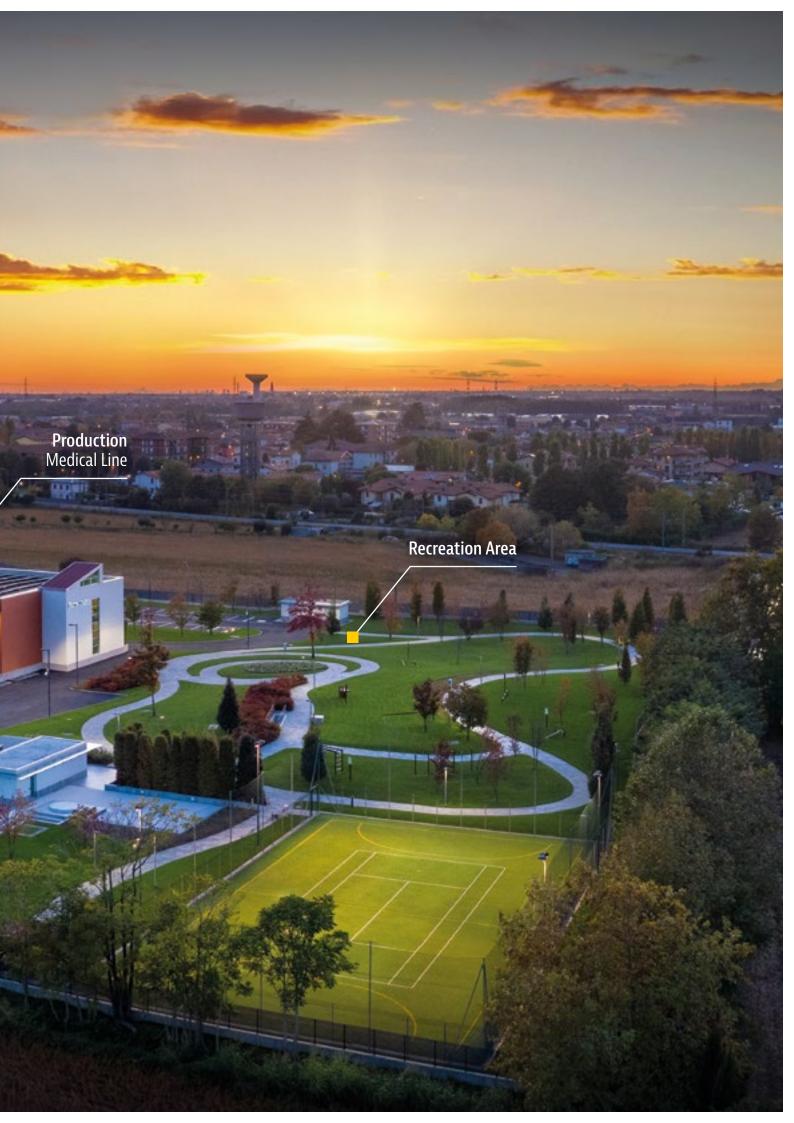




Hoses for medical gases

Anti-squeezing hoses, according to standard EN ISO 5359, \emptyset 5x11.5 mm for medical compressed gases available in colors white, white-black and blue and \emptyset 6.3x13.5 mm for suction available in colors yellow and green.







flowmeter.it

Flow-Meter S.p.A.

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