

GENERAL CATALOGUE




MEDICAL LINE



flow-meter™
ENGINEERING REVOLUTION IN MEDICAL TECHNOLOGY

DIAGRAM OF OPTIONS

MATCHING FLOWMETERS, CONNECTORS, HUMIDIFIERS

OXYGEN THERAPY		OXYGEN THERAPY	14
1	 EasyFLOW® variable area oxygen flowmeter		20
2	Qmed® variable area oxygen flowmeter		22
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12	MAK/300 PC oxygen therapy humidifier		48
13	MAK/500 PC oxygen therapy humidifier		48

CONNECTIONS AND ACCESSORIES FOR OXYGEN THERAPY DEVICES

A	OXYGEN PROBES WITH THREAD CONNECTION AFNOR NF-S 90-116 · AFNOR NF-S 90-116 EASYFIX® UNI 9507 · BS 5682 · DIN 13260 · SS 875 24 30 JIS T 7101 · SANS 1409 · OHMEDA	OXYGEN THERAPY	55
B	OXYGEN PROBES WITH HOSE CONNECTION AFNOR NF-S 90-116 EASYFIX® · UNI 9507 BS 5682 · DIN 13260 · SS 875 24 30 · JIS T 7101 SANS 1409 · OHMEDA	OXYGEN THERAPY	56
C	RAIL CLAMP BRACKET	OXYGEN THERAPY	57

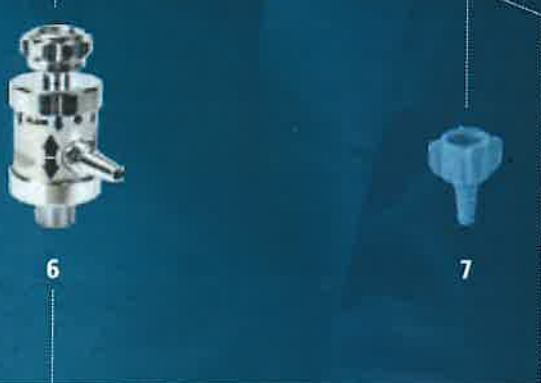
ACCESSORIES

D	Hose for medical gas (oxygen)	ACCESSORIES	161
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A OXYGEN PROBES WITH THREAD CONNECTION















B OXYGEN PROBES WITH HOSE CONNECTION



PRESSURE REGULATORS AND FLOWMETERS, ALL THE INFORMATION YOU NEED
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FLOWMETERS

Comparison - Main information

	p. 20 	p. 22	p. 24	p. 26 	p. 28
					
	EasyFLOW®	Qmed®	Rs	EasyMED® PLUS	EASYMED®
TYPE	variable area ball flowmeter	variable area ball flowmeter	variable area ball flowmeter	calibrated orifices	calibrated orifices
MODE OF USE	upright position	upright position	upright position	any position	any position
PRESSURE	non-compensated	compensated	compensated	non-compensated	non-compensated
SCALE	adjustable values	adjustable values	adjustable values	preset values	preset values
OPTION		L version - extended scale	L version - extended scale DF selector integrated in the body		
BODY	impact resistant polymer	anodized body version available in different colors	chrome plated brass body	impact resistant polymer	impact resistant polymer
KNOB	adjusting knob with soft grip with I/O switch button	ABS adjusting knob, color coded	ABS adjusting knob, color coded	adjusting knob with soft grip with I/O switch button	adjusting ergonomic knob
PLUS	lens effect of the tube push & lock system				
OUTLET NIPPLE	outlet nipple with double thread interchangeable by the end user	outlet nipple can be easily removed and replaced	fixed outlet nipple thread	outlet nipple with double thread interchangeable by the end user	fixed outlet nipple thread
					

PRESSURE REGULATORS AND FLOWMETERS, ALL ACCURATE PARTS
 TECHNICAL UNITE
 REFERENCE

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

Rs

Rs WITH INTEGRATED DF FLOW SELECTOR

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. · 1/2" GAS M. · 9/16" UNF EN 13544-2 M. · 1/2" BSF F.	

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



Rs twin
chrome-plated brass body
twin construction

Rs
chrome-plated brass body
single construction



1



2

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
					

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.

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



Variable area and orifices calibrated oxygen flowmeters
from p. 19



Pressure regulators
from p. 37

	CH/200	TR/200	MAK/300	MAK/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" ISO 3253 F. · M 12x1.25 F. · 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.			

- 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.



CH/200



TR/200



MAK/300



MAK/500



1



2



3



4

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.