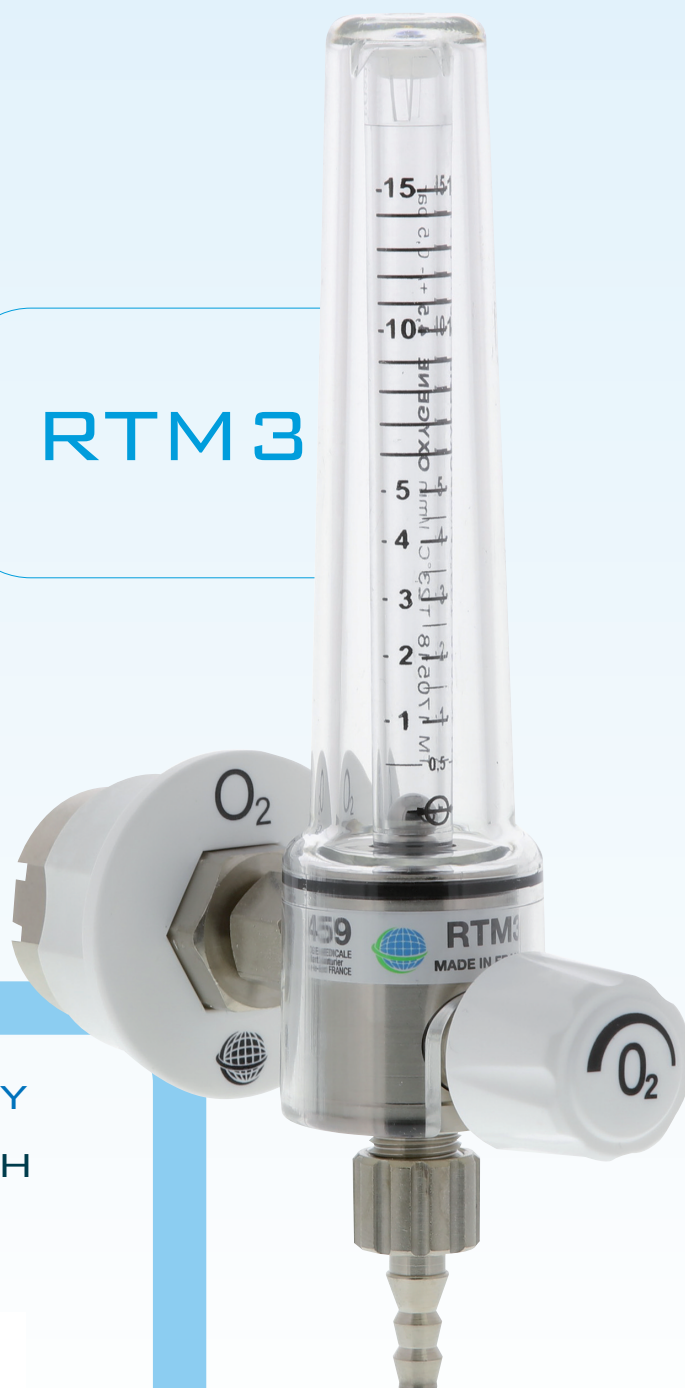


RTM 3

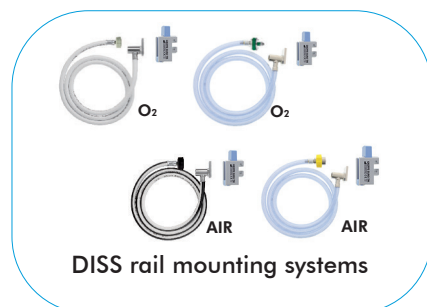
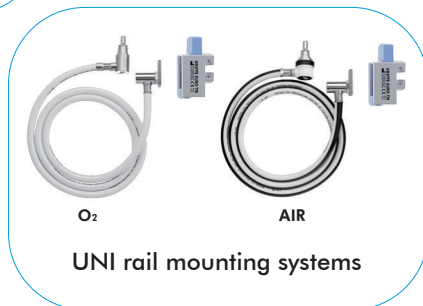
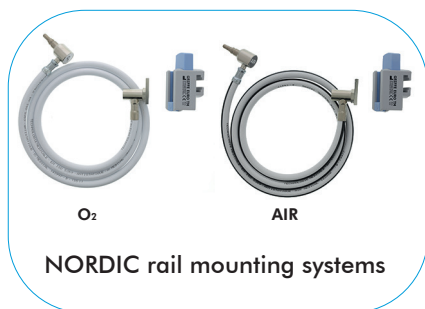
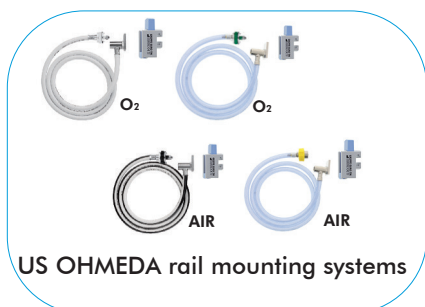
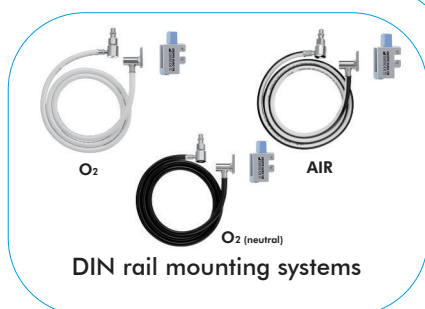
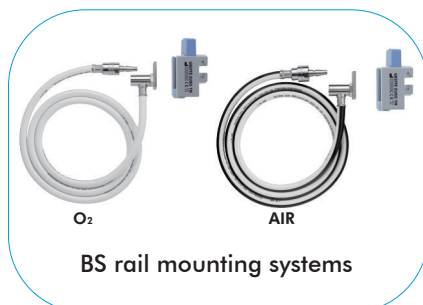
OXYGEN-THERAPY
FLOWMETERS WITH
FLOATING BALL



TECHNOLOGIE
MEDICALE

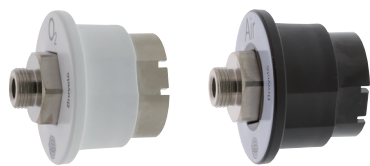


RAIL MOUNTING SYSTEMS



Others standards available upon request.

DIRECT PROBES



O₂ AIR
AFNOR TM CHOC
direct probes



O₂ AIR

BS direct probes



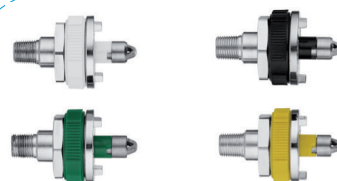
O₂ AIR

CZECH direct probes



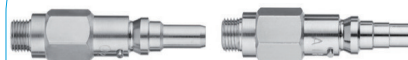
O₂ AIR

DIN direct probes



O₂ AIR

US OHMEDA direct probes



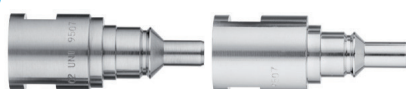
O₂ AIR

NORDIC direct probes



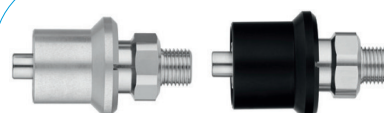
O₂ AIR

DISS direct probes



O₂ AIR

UNI direct probes



O₂ AIR

CARBUROS direct probes



Others standards available upon request.

RTM3

The RTM3 flowmeter with floating ball is used to adjust and measure the flow of a gas that is to be delivered to patients through the respiratory tract. The RTM3 should be connected to a source of pressured gas either using a direct probe or a rail mounting system.

It must be fitted at its outlet either with a humidifier/nebulizer or with an outlet tubing nipple.

Main technical features:

Medical device of class IIa.

In compliance with the EN ISO 15002.

Inlet pressure : 4.5 bar +/- 0.5 bar (O₂)
4.5 bar +/- 0.5 bar (Air)

- **Flowmeter with compensated pressure** ensuring perfect flowrate stability and accuracy. The scale working pressure is the same as the pressure of the network so that the scale is not affected by any counter-pressure.
- **New type of "cartridge" knob**, extremely reliable, easy-to-clean and ensuring an optimized adjustment. Perfect tightness of the knob thanks to its polyamide seat.

The knob was tested under pressurized working conditions during more than 10,000 cycles (which corresponds to 5 openings / closings every day during more than 5 years) without showing any leakage after closing. This allows us to guarantee the closing of the knob during 5 years without any leakage.

- **Monoblock scale cover made of polyamide** for a higher sturdiness and a greater safety. The inopportune unscrewing of the monoblock scale cover is not possible. Patients have no access to the scale.
- **Expanded scale** providing higher reading accuracy for low flowrates (only for 05 l/min and 15 l/min RTM3 flowmeters).
- **Filter at the scale inlet** protecting the device against any gas network impurities and thus ensuring the protection of both the patient and the flowmeter.
- Body made of nickel-plated brass, very strong.
- Flowmeter MRI compatible (conditional).
- Normative information (gas name, CE marking, signs related to the use of the device) are mentioned on a self-adhesive ring for a better reading and immediate identification of a TM device. The identification ring is protected against tarnishing and wear & tear thanks to the monoblock cover.
- **A unit serial number is engraved on the body of each flowmeter** ensuring its identification and traceability.

Many versions available:

Available gases & flowrates:

- OXYGEN: 1.5l/min, 5l/min, 15l/min, 30l/min, 70l/min
- MEDICAL AIR: 1.5l/min, 5l/min, 15l/min, 30l/min
- CO₂: 12l/min
- CARBOGEN: 15l/min

- Inlets: 12x100F - 1/4G M - 1/8NPT F - 3/8"BSP F.
- Outlets: 12x125 M - 9/16" M - 1/2"BSP F - 1/4G M.
- Available configurations: Single, Twin and DUO.
- Available connections to the wall outlet: Direct probe or Rail mounting system.
- Standards: AFNOR (French standard) - BS (British standard) - DIN (German standard) - NORDIC (Scandinavian standard) - CZECH (Czech standard) - CARBUROS (Spanish standard) - UNI (Italian standard) - US OHMEDA DIAMOND (American standard) - DISS (American standard) - Korean standard - Japanese standard - SANS/ SABS (South African standard).
- Weight (without direct probe): 275 g.
- Dimensions (without direct probe):
Height 145 mm x width 35 mm x depth 70 mm.

Use, cleaning and maintenance:

The RTM3 flowmeter must be connected vertically. Then just open the knob and adjust the position of the floating ball according to the required flowrate (reading in the middle of the ball).

Device to be serviced every annual inspection according to intensive use, if any.

Accessories:

- Tubing nipple (1 part or 2 parts) ①
- Switch or Flow-Switch ②
- Humidifier: CCO model (250 ml) ③

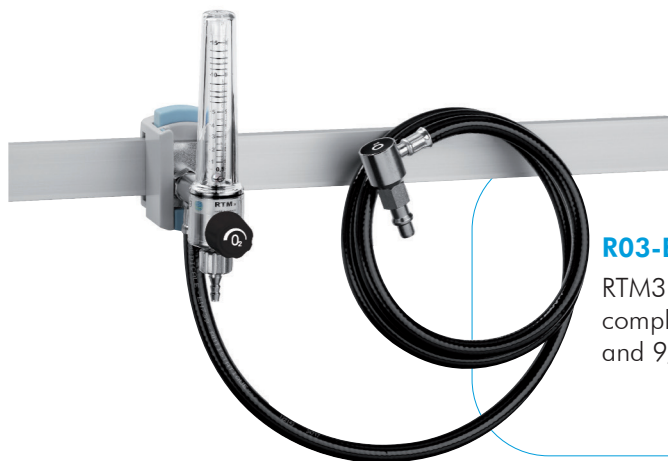


**R01-E**

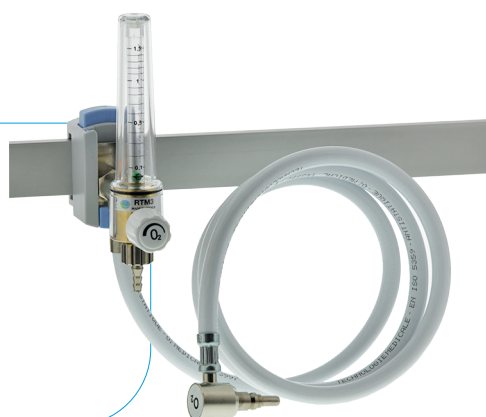
RTM3 O₂ 15 l/min mounted with 1/2 BS outlet tubing nipple

**R02-E**

RTM3 O₂ 05 l/min mounted with DIN direct probe and 250 ml CCO humidifier

**R03-E**

RTM3 O₂ 15 l/min mounted with DIN complete rail mounting system (neutral) and 9/16" outlet tubing nipple

**R04-E**

RTM3 O₂ 1.5 l/min mounted with NORDIC complete rail mounting system and 9/16" outlet tubing nipple

**R05-E**

RTM3 O₂ 15l/min mounted with UNI direct probe and 250ml CCO humidifier

R06-E

Twin RTM3 O₂ 5 – 15 l/min mounted with AFNOR TM CHOC direct probe.

**R07-E**

RTM3 AIR 05l/min mounted with BS direct probe and 9/16" outlet tubing nipple.

**R08-E**

RTM3 O₂ 70 l/min mounted with DISS direct probe and 9/16" outlet tubing nipple

**R09-E**

RTM3 O₂ 70 l/min mounted with clamping vice NIST and 9/16" outlet tubing nipple

RTM3 DUO FLOWMETER

Patented model

Double outlet integrated in the body of the flowmeter:

- ▶ One horizontal outlet tubing nipple;
- ▶ One vertical central threaded outlet to connect a humidifier (outlet thread 12x125 M and 9/16" M available).

Thanks to this DUO system there is no need to screw and unscrew the outlet tubing nipple or the humidifier.

The saving of time is really appreciated compared to a standard flowmeter and the risk of losing the nipple is avoided.

The user can choose between 3 positions and can switch from one position to another without removing the nipple or the humidifier.

- ▶ **1st position:** the gas flow is delivered through the nipple.
- ▶ **2nd position:** the gas flow is cut off. Parking position.
- ▶ **3rd position:** the gas flow goes through the vertical central outlet to which you can connect either a CCO humidifier (250 ml) or any other model (single-use humidifier, nebulizer).

Also available with a complete rail mounting system.



R10-E

RTM3 DUO O₂ 15 l/min with AFNOR TM CHOC direct probe

To convert the standard RTM3 flowmeters into DUO flowmeters the solution is :

TM FLOW-SWITCH OR SWITCH

- ▶ **Flow-Switch: model with ring** (R11-E)
- ▶ **Switch: model with knob** (R12-E)

Both Flow-Switch and Switch can be screwed onto any standard flowmeter. They enable you to deliver a gas flow either through the outlet tubing nipple or through a humidifier.

Available with 12x125 or 9/16" threaded inlet and outlet.



R11-E

R12-E



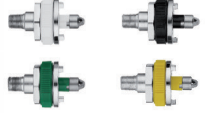


AFNOR French Standard		RTM3 FLOWMETERS WITH FLOATING BALL					
OXYGEN (O ₂)	Flowrates l/min	Single	Single	Single	Single	Twin	DUO
MEDICAL AIR		1.5	05	15	30	15-15	15
Mounted with AFNOR TM CHOC direct probe 	Outlet thread: 12x125M	17581	14030	14038	14046	14071	14078
		X	13883	13891	13899	13924	13928
	With nipple*: 12 x 125	17583	14032	14040	14048	14073	X
		X	13885	13893	13901	13926	X
	Outlet thread: 9/16" M	17588	14130	14134	14138	14150	14155
		X	13968	13972	13976	13988	-
	With nipple*: 9/16" M	17589	14131	14135	14139	14151	X
		X	13969	13973	13977	13989	X
Mounted with AFNOR TM CHOC complete rail mounting system (polycarbonate clamp) 	Outlet thread: 12x125M	17612	14026	14034	14042	14068	-
		X	13879	13887	13895	13921	-
	With nipple*: 12 x 125	17614	14028	14036	14044	14070	X
		X	13881	13889	13897	13923	X
	Outlet thread: 9/16" M	17592	14128	14132	14136	14148	-
		X	13966	13970	13974	13986	-
	With nipple*: 9/16" M	17593	14129	14133	14137	14149	X
		X	13967	13971	13975	13987	X

BS British Standard		RTM3 FLOWMETERS WITH FLOATING BALL					
OXYGEN (O ₂)	Flowrates l/min	Single	Single	Single	Single	Twin	DUO
MEDICAL AIR		1.5	05	15	30	15-15	15
Mounted with BS direct probe 	Outlet thread: 9/16" M	17594	14398	14404	14410	14424	14430
		X	14278	14284	14290	14304	-
	With nipple*: 9/16" M	17595	14399	14405	14411	14425	X
		X	14279	14285	14291	14305	X
Mounted with BS complete rail mounting system (polycarbonate clamp) 	Outlet thread: 9/16" M	17596	14400	14406	14412	14426	14431
		X	14280	14286	14292	14306	-
	With nipple*: 9/16" M	17597	14401	14407	14413	14427	X
		X	14281	14287	14293	14307	X

* Outlet tubing nipple in 2 parts, metal
 - Available upon request only.
 X Not available.

DIN German Standard		RTM3 FLOWMETERS WITH FLOATING BALL						
OXYGEN (O ₂)		Flowrates l/min	Single	Single	Single	Single	Twin	DUO
MEDICAL AIR			1.5	05	15	30	15-15	15
Mounted with DIN direct probe 	DIN ISO	Outlet thread: 9/16" M	17598	14566	14570	14574	14586	14592
			X	14494	14498	14502	14514	-
	DIN ISO	With nipple*: 9/16"	17599	14567	14571	14575	14587	-
			X	14495	14499	14503	14515	X
Mounted with DIN complete rail mounting system (polycarbonate clamp) 	DIN ISO	Outlet thread: 9/16" M	17600	14568	14572	14576	14588	14593
			X	14496	14500	14504	14516	-
	DIN ISO	With nipple*: 9/16"	17601	14569	14573	14577	14589	X
			X	14497	14501	14505	14517	X
	DIN NEUTRAL	Outlet thread: 9/16" M	-	18014	17154	-	17330	-
			X	-	-	-	-	-

US OHMEDA American Standard		RTM3 FLOWMETERS WITH FLOATING BALL						
OXYGEN (O ₂)		Flowrates l/min	Single	Single	Single	Single	Twin	DUO
MEDICAL AIR / ISO			1.5	05	15	30	15-15	15
Mounted with US OHMEDA direct probe 	Outlet thread: 9/16" M		-	14917	14921	14925	-	-
			-	17997	17999	-	-	-
	With nipple*: 9/16" M		X	14893	14897	14901	-	-
			X	18001	18003	-	-	-
Mounted with US OHMEDA complete rail mounting system (polycarbonate clamp) 	Outlet thread: 9/16" M		-	14915	14919	14923	-	-
			-	17996	17998	-	-	-
	With nipple*: 9/16" M		X	14891	14895	14899	-	-
			X	18000	18002	-	-	-
	With nipple*: 9/16" M		-	14916	14920	14924	-	X
			X	14892	14896	14900	-	X



* Outlet tubing nipple in 2 parts, metal
 - Available upon request only.
 X Not available.

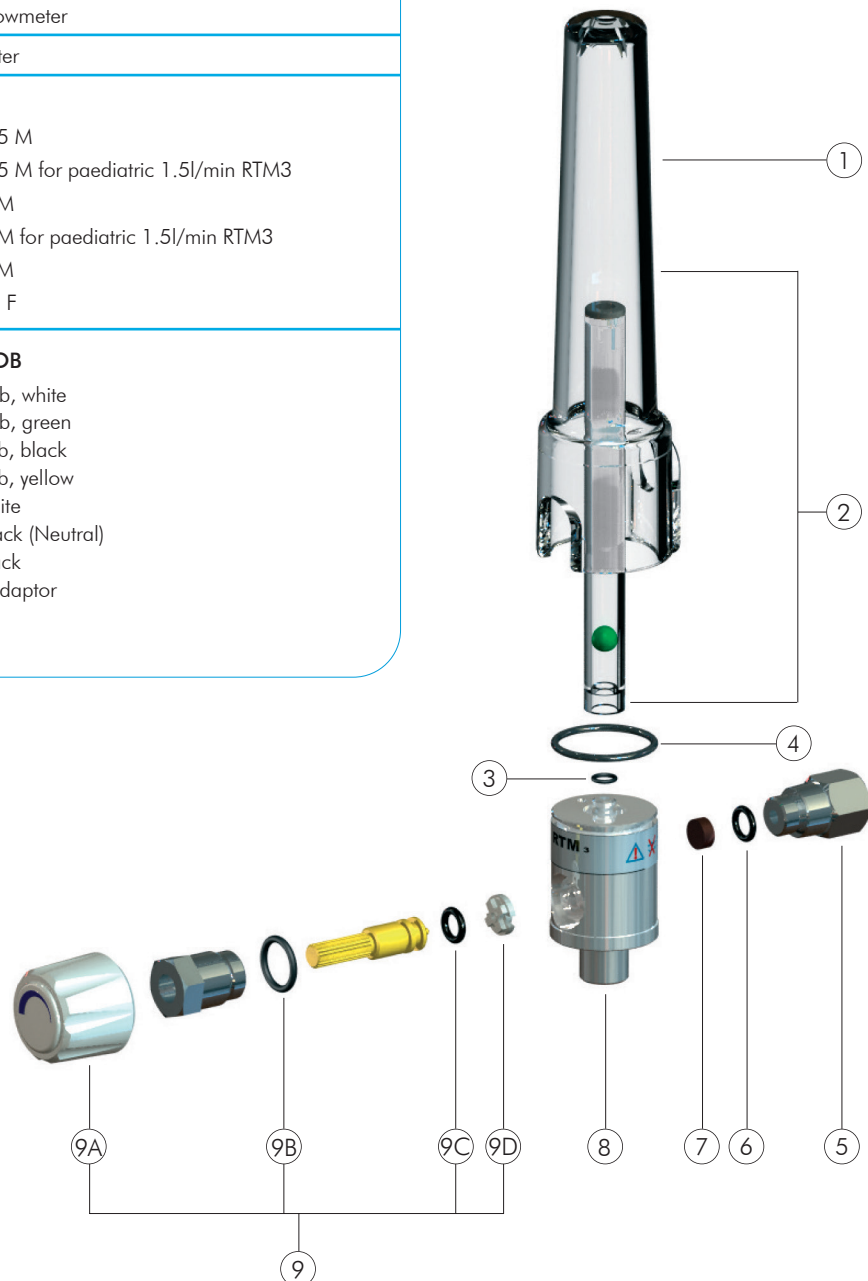
NORDIC Scandinavian Standard		RTM3 FLOWMETERS WITH FLOATING BALL					
OXYGEN (O ₂)	Flowrates l/min	Single	Single	Single	Single	Twin	DUO
MEDICAL AIR		1.5	05	15	30	15-15	15
Mounted with NORDIC direct probe	Outlet thread: 9/16" M	X	14638	14643	14648	-	-
		X	14611	14616	14621	-	-
	With nipple*: 9/16" M	17609	14639	14644	14649	-	X
		X	14612	14617	14622	-	X
Mounted with NORDIC complete rail mounting system (polycarbonate clamp)	Outlet thread: 9/16" M	17602	14635	14640	14645	-	-
		X	14608	14613	14618	-	-
	With nipple*: 9/16" M	17603	14637	14642	14647	-	X
		X	14610	14615	14620	-	X



UNI Italian Standard		RTM3 FLOWMETERS WITH FLOATING BALL					
OXYGEN (O ₂)	Flowrates l/min	Single	Single	Single	Single	Twin	DUO
MEDICAL AIR		1.5	05	15	30	15-15	15
Mounted with UNI direct probe	Outlet thread: 1/4G M	X	14945	14949	14953	17428	17431
		X	14933	14937	14941	-	17432
	With nipple*: 1/4G M	X	14946	14950	14954	-	-
		X	14934	14938	14942	-	-
Mounted with UNI complete rail mounting system (polycarbonate clamp)	Outlet thread: 9/16" M	18005	18004	18006	18007	18008	18009
		X	-	-	-	-	-
	Outlet thread: 1/4G M	X	14947	14951	14955	-	-
		X	14935	14939	14943	-	-
	With nipple*: 1/4G M	X	14948	14952	14956	-	-
		X	14936	14940	14944	-	-
	Outlet thread: 9/16" M	X	-	18010	-	-	-
		X	-	-	-	-	-

* Outlet tubing nipple in 2 parts, metal
 - Available upon request only.
 X Not available.

Reference		Description
1	18783	Monobloc scale cover in polyamide
2	O ₂	COMPLETE SCALE
		17570 Complete scale 1.5 l/min (paediatric)
		16968 Complete scale 05 l/min 4.5 bar
		16969 Complete scale 15 l/min 4.5 bar
		16970 Complete scale 30 l/min 4.5 bar
		22395 Complete scale 70 l/min 4.5 bar
	AIR	16965 Complete scale 05 l/min 4.5 bar
		16966 Complete scale 15 l/min 4.5 bar
		16967 Complete scale 30 l/min 4.5 bar
3	11131	Gasket for scale bottom
4	11408	Gasket for scale cover
5	11174	Inlet adaptor 12x100F
	11178	Inlet adaptor 1/4G M
	11176	Inlet adaptor 1/8NPT F
	16922	Inlet adaptor 3/8G BSP F
6	11578	Inlet gasket for flowmeter
7	11029	Inlet flowmeter filter
8	BODY ONLY	
	11201	Body only 12x125 M
	17569	Body only 12x125 M for paediatric 1.5l/min RTM3
	11205	Body only 9/16" M
	17568	Body only 9/16" M for paediatric 1.5l/min RTM3
	11211	Body only 1/4G M
9	9A	COMPLETE KNOB
		16954 O ₂ complete knob, white
		19515 O ₂ complete knob, green
		16955 Air complete knob, black
		19516 Air complete knob, yellow
		11198 O ₂ knob only, white
		17086 O ₂ knob only, black (Neutral)
		11189 Air knob only, black
		11684 Gasket for inlet adaptor
		11234 Knob axis gasket
9B	11189	Air knob only, black
9C	11684	Gasket for inlet adaptor
9D	11234	Knob axis gasket
	11184	Knob seat





Also available



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OXYGEN-THERAPY
FLOWMETERS WITH
FLOATING BALL



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101, rue Vaillant Couturier - 93130 NOISY LE SEC FRANCE
Tel: +33 (0)1 48 45 58 95
info@technologiemedicale.com - www.technologiemedicale.com