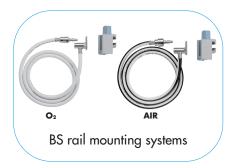
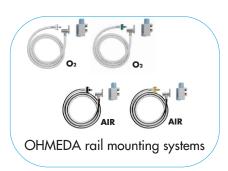


RAIL MOUNTING SYSTEMS

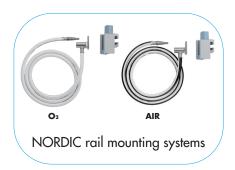


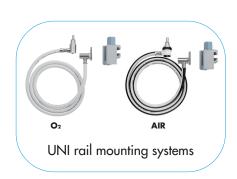






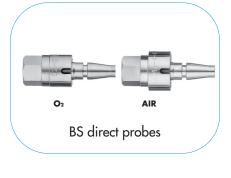




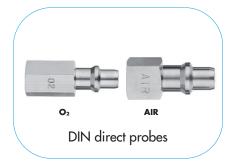


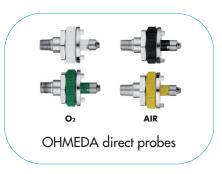
DIRECT PROBES

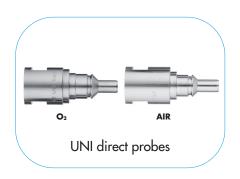


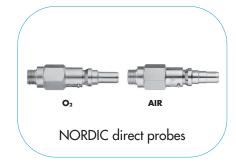












Other standards available upon request.

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 on the wall 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:

Active medical device of class Ila.

In compliance with the EN ISO 15002: 2008 standard (former EN 13220: 1998).

Inlet pressure: in compliance with the EN ISO 7396-1: 2007 Standard (former EN 737-3) -4 bar $^{+1}/_{-0}$

- 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 polycarbonate 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 I/min and 15 I/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.
- 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 an 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. 8 digits and 1 letter number indicating the manufacturing year and month as well as the unit serial number of the device.

Many versions available:

- Available gases: OXYGEN MEDICAL AIR.
- Available flowrates: 1.5 1/min 05 1/min 15 1/min 30 1/min.

- Inlets: 12 x 100 F 1/4G M -1/8NPT F 3/8"BSP F.
- Outlets: 12 x 125 M 9/16" M 1/2"BS 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) US OHMEDA DIAMOND (American Standard) NORDIC (Scandinavian Standard)
 UNI (Italian Standard).
- Weight (with direct probe): 320 g.
- Dimensions (with direct probe): Height 145 mm x width 35 mm x depth 100 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).

Clean the exterior of the device with water and soap. Rinse and dry. If using disinfecting products please check their compatibility with plastics. Do not lay under water.

Device to be serviced every 1 to 3 years according to intensive use, if any.

Accessories:

- Tubing nipple (1 part) or tubing nipple (2 parts) 1
- Switch or Flow-Switch 2
- Humidifier: CCO model (250 ml) or TMS model (500 ml) 3





R01

RTM3 O_2 15 I/min mounted with BS direct probe and 9/16" outlet tubing nipple.



R02

RTM3 O_2 05 I/min mounted with DIN direct probe and 250 ml CCO humidifier.



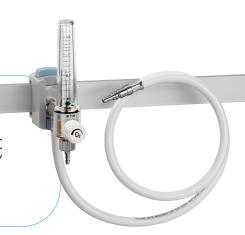


RO3

RTM3 O_2 15 I/min mounted with DIN complete rail mounting system (neutral) and 9/16" outlet tubing nipple.



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





R05

RTM3 $\,{\rm O}_2$ 15 l/min mounted with UNI direct probe and 500 ml TMS humidifier.

R06

Twin RTM3 O_2 15-30 l/min mounted with AFNOR direct probe and 12x125 outlet tubing nipples.



R07

RTM3 AIR 05 l/min mounted with BS direct probe and 1/2" BS outlet tubing nipple.



RTM3 AIR 15 I/min mounted with AFNOR complete rail mounting system (with metal clamp).



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 a TMS humidifier (500 ml) or any other model (single-use humidifier, nebulizer).

Also available with a complete rail mounting system.



R08

RTM3 DUO O_2 15 l/min with AFNOR direct probe.

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

TM FLOW-SWITCH OR SWITCH

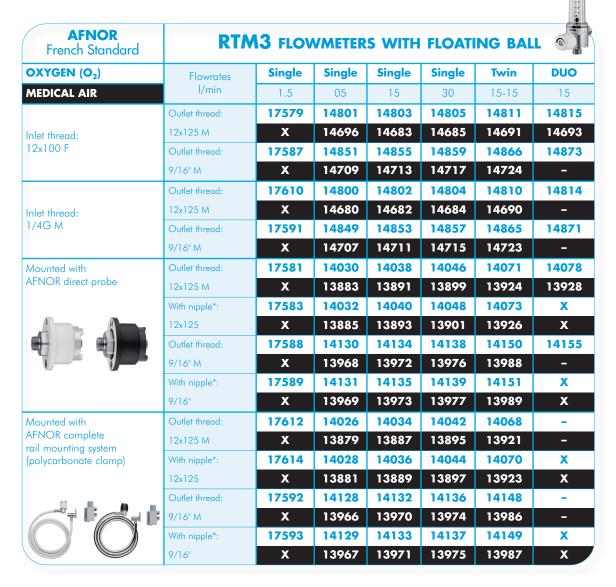
- ► Flow-Switch: model with ring (RO9)
- ► Switch: model with knob (R10)

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.







BS British Standard RTM3 FLOWMETERS WITH FLOATING BA							•
OXYGEN (O ₂)	Flowrates	Single	Single	Single	Single	Twin	DUO
MEDICAL AIR	l/min	1.5	05	15	30	15-15	15
	Outlet thread:	17591	14849	14853	14857	14865	14871
Inlet thread:	9/16" M	Х	14707	14711	14715	14723	-
1/4G M	Outlet thread:	17574	14752	14754	14756	14760	Х
	1/2"BS F	Х	14659	14661	14663	14667	Х
Mounted with	Outlet thread:	17594	14398	14404	14410	14424	14430
BS direct probe	9/16" M	Х	14278	14284	14290	14304	-
	With nipple*:	17595	14399	14405	14411	14425	Х
	9/16"	Х	14279	14285	14291	14305	Х
Mounted with BS complete rail mounting system (polycarbonate clamp)	Outlet thread:	17596	14400	14406	14412	14426	14431
	9/16" M	х	14280	14286	14292	14306	-
	With nipple*:	17597	14401	14407	14413	14427	Х
	9/16"	х	14281	14287	14293	1430 <i>7</i>	Х

^{*} Outlet tubing nipple in 2 parts, metal.

⁻ Available upon request only.

X Not available.

Please contact us for other flowmeter configurations.

DIN German Standard		RTM3	FLOWM	ETERS V	WITH FI	OATING	G BALL	
OXYGEN (O ₂)		Flowrates	Single	Single	Single	Single	Twin	DUO
MEDICAL AIR		l/min	1.5	05	15	30	15-15	15
	DINISO		17591	14849	14853	14857	14865	14871
Inlet thread: 1/4G M	DIN ISO	Outlet thread: 9/16" M	х	14707	14711	14715	14723	-
.,	DIN NEUTRAL	7710 W	-	-	17156	-	-	-
Mounted with		Outlet thread:	17598	14566	14570	14574	14586	14592
DIN direct probe	DIN ISO	9/16" M	х	14494	14498	14502	14514	-
		With nipple*:	17599	14567	14571	14575	14587	Х
70 70 70 70 70 70 70 70 70 70 70 70 70 7		9/16"	х	14495	14499	14503	14515	Х
	DIN NEUTRAL	Outlet thread: 9/16" M	-	18014	17154	-	17330	-
Mounted with DIN complete rail mounting system (polycarbonate clamp)	DIN ISO	Outlet thread:	17600	14568	14572	14576	14588	14593
		9/16" M	х	14496	14500	14504	14516	-
		With nipple*:	17601	14569	14573	14577	14589	Х
		9/16"	х	14497	14501	14505	1451 <i>7</i>	Х
	DIN	Outlet thread:	-	18013	18012	-	-	-
	NEUTRAL	9/16" M	х	-	-	-	-	- /

US OHMEDA American Standard

OXYGEN (O₂) / ISO

OXYGEN (O₂) / US



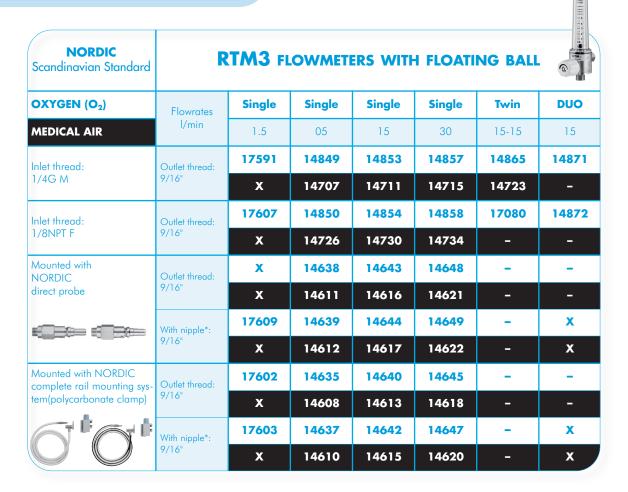
OXIGEN (O2) / O3							
MEDICAL AIR / ISO	Flowrates	Single	Single	Single	Single	Twin	DUO
MEDICAL AIR / US	l/min	1.5	05	15	30	15-15	15
Inlet thread: 1/4G M	Outlet thread: 9/16"	17591	14849	14853	14857	14865	14871
		Х	14707	14711	14715	14723	-
Inlet thread: 1/8NPT F	Outlet thread: 9/16"	17607	14850	14854	14858	17080	14872
		Х	14726	14730	14734	-	-
Mounted with US OHMEDA direct probe	Outlet thread: 9/16" M	-	14917	14921	14925	-	-
		-	1 <i>7</i> 997	17999	-	-	-
		Х	14893	14897	14901	-	-
		Х	18001	18003	-	-	-
	With nipple*: 9/16"	-	14918	14922	14926	-	Х
		Х	14894	14898	14902	-	Х
Mounted with US OHMEDA	9/16"	-	14915	14919	14923	-	-
complete rail mounting system (polycarbonate clamp)		-	17996	17998	-	-	-
		Х	14891	14895	14899	-	-
		Х	18000	18002	-	-	-
	With nipple*: 9/16"	-	14916	14920	14924	-	X
		Х	14892	14896	14900	-	Х

* Outlet tubing nipple in 2 parts, metal.

- Available upon request only.

X Not available.

Please contact us for other flowmeter configurations.



UNI Italian Standard	R	TM3 FI	OWMET	ERS WITH	H FLOATI	NG BALL	•
OXYGEN (O ₂)	Flowrates I/min	Single	Single	Single	Single	Twin	DUO
MEDICAL AIR		1.5	05	15	30	15-15	15
	Outlet thread: 1/4G M	Х	14770	14772	14774	14778	-
Inlet thread:		Х	14668	14670	14672	-	-
1/4G M	Outlet thread: 9/16" M	1 <i>7</i> 591	14849	14853	14857	14865	14871
		х	1 <i>4707</i>	14711	14715	14723	-
Mounted with UNI direct probe	Outlet thread: 1/4G M	Х	14945	14949	14953	17428	17431
		Х	14933	1493 <i>7</i>	14941	-	17432
	With nipple*: 1/4G	Х	14946	14950	14954	-	-
		Х	14934	14938	14942	-	-
	Outlet thread: 9/16" M	18005	18004	18006	18007	18008	18009
		Х	-	-	-	-	-
Mounted with UNI complete rail mounting system (polycarbonate clamp)	Outlet thread: 1/4G M	Х	14947	14951	14955	-	-
		Х	14935	14939	14943	-	-
	With nipple*: 1/4G	Х	14948	14952	14956	-	-
		Х	14936	14940	14944	-	-
	Outlet thread: 9/16" M	Х	-	18010	-	-	-
		х	-	-	-	-	-

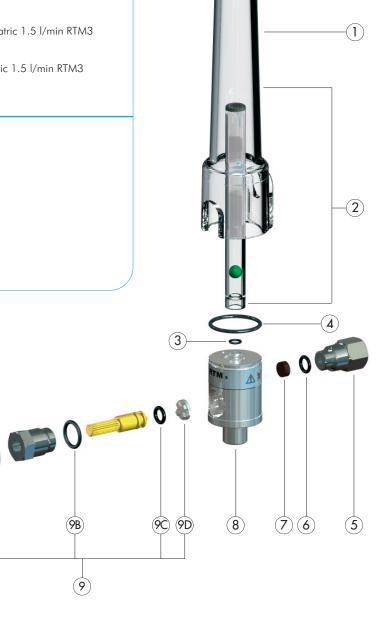
^{*} Outlet tubing nipple in 2 parts, metal.

⁻ Available upon request only.

X Not available.

Please contact us for other flowmeter configurations.

	Ref	erence	Description			
1		11086	Monobloc scale cover in polycarbonate			
			COMPLETE SCALE			
		17570	Complete scale 1.5 I/min (paediatric)			
	O ₂	16968	Complete scale 05 l/min 4.5 bar			
2	02	16969	Complete scale 15 l/min 4.5 bar			
2		16970	Complete scale 30 l/min 4.5 bar			
		16965	Complete scale 05 l/min 4.5 bar			
	AIR	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			
		11174	Inlet adaptor 12x100 F			
5		11178 Inlet adaptor 1/4G M				
J	11176		Inlet adaptor 1/8NPT F			
	16922		Inlet adaptor 3/8G BSP F			
6	11578		Inlet gasket for flowmeter			
7	11029		Inlet flowmeter filter			
			BODY ONLY			
	11201		Body only 12x125 M			
		17569	Body only 12x125 M for paediatric 1.5 l/min RTM3			
8		11205	Body only 9/16" M			
		17568	Body only 9/16" M for paediatric 1.5 l/min RTM3			
		11211	Body only 1/4G M			
		11216	Body only 1/2"BS F			
			COMPLETE KNOB			
9	16954		O ₂ complete knob			
	16955		Air complete knob			
9A	11198		${\sf O}_2$ knob only, white			
	17086		O ₂ knob only, black (Neutral)			
	11189		Air knob only, black			
9B		11684	Gasket for inlet adaptor			
9C	11234		Knob axis gasket			
9D		11184	Knob seat			



9

9B)



Also available



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OXYGEN-THERAPY

FLOWMETERS WITH FLOATING BALL

