



D-203863-2020



## Quality and Precision you can Trust in Oxygen Administration

CONVENTIONAL  
FLOWMETER

COMPACT FLOWMETER  
CLICKFLOW



## Administration of oxygen

The use of oxygen therapy in clinical applications is a vital component to support patient recovery. The administration of oxygen is often vital once patients are able to breathe on their own and to support recovery. During extended therapy, it is advised to include humidification to the treatment.

Flowmeter are used to control the flow-rate of gases drawn from the central supply system or from a compressed gas cylinder.

They are typically used in general wards, for adult, paediatric & neonates alike. They may also be used in other areas including like anaesthesia administration. At Dräger, we offer an extensive range of devices to cover your ongoing clinical needs. This includes many different versions of our tube Flowmeter with flow balls for a wide variety of uses, and compact flowmeter Clickflow for versatile clinical use.

Our broad range of humidification systems including reusable and disposable accessories complete the Dräger portfolio.

### With Dräger, you have a choice

- Conventional flowmeter
- Maintenance-free Compact flowmeter Clickflow, including with individual variant selection

Dräger flowmeter meet your requirements through:

- High degree of precision
- Clear display of the set flow
- Large control knob without sharp edges
- Long or no maintenance intervals needed
- High stability through robust housing
- Wide variety of models

### Precision

Oxygen therapy requires two things: Simplicity & accuracy. Flowmeter should be simple to use and easy to read, they should provide a consistent flow of gas to the patient and in order to work effectively, they need to be accurate.

Dräger's range of flowmeter have been designed with the above requirements in mind, our large rotary control knob makes setting the correct flow-rates quick and simple and the engineering quality supplies the accuracy.

# Designed for your and your patient's safety

## Conventional flowmeter

Tested functionalities.

Dräger offers a complete range of conventional 'ball and pressure dome' type flowmeter, which have been build to last. The robust housing of powder coated aluminium is designed to endure even the most difficult situations associated with every day use in a clinical environment. The pressure dome is tested to withstand a multiple of the set pressure value, which ensures the safety of both user and patient.



### TECHNICAL DATA

#### Classic flowmeter

Input pressure	65 ± 7 psi (4.5 ± 0.5 bar)*	
Setting ranges	0.5 to 4 L/min	
	2 to 16 L/min	
	4 to 32 L/min	
Accuracy of flow rate at: 5 bar, 4 bar and 3 bar (1013 hPa/20 °C)**	± 15 % (corresponding to smallest setting value)	
	± 10 % (all other setting values)	
Gas Outlet	Oxygen	M34 x 1.5 and 9/16" adapter
	Medical air	M32 x 1.5
Dimensions (H x W x D)	6.3 x 1.6 x 5.1 in (160 x 40 x 130 mm)	
Material	Housing	Aluminum
	Pressure dome	Polyamide (PACM 12)
	Flow indicator	Glass
Weight for flowmeter	CS version	approx. 1.1 lb (500 g)
	Rail-mounted device	approx. 2.09 lbs (950 g)

\* 1 bar = 1 kPa x 100

\*\* Using the flowmeter outside the specified ambient conditions could affect flow accuracy.

# Precise dosing, simple operation

## Compact flowmeter

Compact design.

Dräger compact flowmeter Clickflow are the right solution for all applications which require fast setting of oxygen administration. In one movement, you set the required flow. They have the advantage of being extremely compact and robust making them ideal for emergency medical services.



### TECHNICAL DATA

#### Compact flowmeter Clickflow

Input pressure	4,5 ± 0.5 bar*
Set ranges	0.1 – 1 L/min (0; 0.1; 0.2; 0.3; 0.4; 0.5; 0.6; 0.7; 0.8; 1 L/min) 0.5 – 5 L/min (0; 0.5; 1; 1.5; 2; 2.5; 3; 3.5; 4; 5 L/min) 1 – 16 L/min (0; 1; 2; 3; 4; 6; 8; 10; 12; 16 L/min) 1 – 32 L/min (0; 1; 5; 8; 12; 16; 20; 25; 28; 32 L/min)
Accuracy (at 4.5 ± 0.5 bar)	0.5 – 5 L/min, 1 – 15 L/min and 1 – 32 L/min: ±20 %; 0.1 – 1 L/min ±30 %
Gas inlet	CS plug O <sub>2</sub> or AIR, NIST (rail)
Gas outlet	6 mm nozzle for application system, 9/16" thread for sterile water or adapter for reusable humidifier
Weight	approx. 420 g (CS), approx. 700 g (rail)
Housing material	Brass with nickel surface
Dimensions	Diameter approx. 38 mm, length approx. 92 mm (CS-version); approx. 118 mm (rail-version)

\* 1 bar = 1 kPa x 100



D-941-2016

O<sub>2</sub> flowmeter CS



D-944-2016

O<sub>2</sub> double flowmeter CS



D-949-2016

O<sub>2</sub> flowmeter rail



D-954-2016

AIR flowmeter rail

**ORDER INFORMATION FOR CONVENTIONAL FLOWMETER**

**O<sub>2</sub> – 4 liter/min, M34 x 1.5 for Dräger humidifiers and adapters for sterile water systems**

	Order number
O <sub>2</sub> – 4 L/min, CS; DIN, M34 x 1.5 and adapter 9/16"	MP04551
O <sub>2</sub> – 4 L/min, rail, NIST, M34 x 1.5 and adapter 9/16"	MP04552
O <sub>2</sub> – 4 L/min, rail 90°, NIST, M34 x 1.5 and adapter 9/16"	MP04553

**O<sub>2</sub> – 16 liter/min, M34 x 1.5 for Dräger humidifiers and adapters for sterile water systems**

O <sub>2</sub> – 16 L/min, CS; DIN, M34 x 1.5 and adapter 9/16"	MP04558
O <sub>2</sub> – 16 L/min, CS; DIN long connection (6 cm), M34 x 1.5 and adapter 9/16"	MP04561
O <sub>2</sub> double, 2 x 16 L/min, CS; DIN and adapter 9/16"	MP04560
O <sub>2</sub> – 16 L/min; rail, including DIN CS tube 1.5 m neutral (set)	MP04575
O <sub>2</sub> – 16 L/min; rail, including DIN CS tube 1.5 m according to ISO (set)	MP04573
O <sub>2</sub> – 16 L/min, rail 90°, NIST, M34 x 1.5 and adapter 9/16"	MP04570
O <sub>2</sub> – 16 L/min, rail including tube 1.2 m NIST/NIST ISO (set)	MP04574
O <sub>2</sub> – 16 L/min; rail; NIST, M34 x 1.5 and adapter 9/16"	MP04567
O <sub>2</sub> double, NIST connection rail, 2 x 16 L/min, 9/16" adapter	MP04569

**O<sub>2</sub> – 32 liter/min, M34 x 1.5 for Dräger humidifiers and adapters for sterile water systems**

O <sub>2</sub> – 32 L/min, CS; DIN, M34 x 1.5 and adapter 9/16"	MP04571
O <sub>2</sub> – 32 L/min, rail; NIST; M34 x 1.5 and adapter 9/16"	MP04580

**AIR – 16 liter/min, M32 x 1.5, for adapter**

AIR, 16 L/min, CS; DIN	MP04559
AIR, 16 L/min, long connector (6 cm), CS, DIN	MP04562
AIR, 16 L/min, rail, NIST, M32 x 1.5	MP04568

**AIR – 32 liter/min, M32 x 1.5, for adapter**

AIR, 32 L/min, CS; DIN	MP04572
AIR, 32 L/min, rail; NIST; M32 x 1.5	MP04581

**Flowmeter Central Supply coupling (Switzerland)**

O <sub>2</sub> – 10 L/min, CS; Carba, M34 x 1.5 and adapter 9/16"	MP04554
O <sub>2</sub> – 10 L/min, rail, NIST, M34 x 1.5 and adapter 9/16"	MP04556
O <sub>2</sub> – 16 L/min, CS, Carba, 9/16" adapter	MP04563
AIR, 16 L/min, CS, Carba, M32 x 1.5	MP04564
O <sub>2</sub> double, 10 L/min, CS, Carba, 4 bar, 9/16" adapter	MP04555
O <sub>2</sub> double flowmeter, 2 x 10 L/min, rail, NIST, M34 x 1.5 and adapter 9/16"	MP04557
Select tubes for rail versions from tube configuration	8601697

**Flowmeter for anaesthetic devices with NIST/NIST connecting hose, M34 x 1.5 connector and 6 mm sleeve**

O <sub>2</sub> flowmeter 16L/min, NIST/NIST hose ISO 1.2 m	MP04576
O <sub>2</sub> flowmeter 16L/min, NIST/NIST hose black, 1 m	MP04577
O <sub>2</sub> flowmeter 16L/min 90°, NIST/NIST hose ISO 1.2 m	MP04578
O <sub>2</sub> flowmeter 16L/min 90°, NIST/NIST hose black, 1 m	MP04579

Select tubes for rail versions from tube configuration	8601697
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O<sub>2</sub>-DIN CS 0 – 16 L/min, 9/16"  
(MP13011)



D-203566-2020

O<sub>2</sub>-DIN CS-twin (with y-piece),  
2x 0 – 16 L/min, 9/16" (MP13014)

## ORDER INFORMATION FOR COMPACT FLOWMETER CLICKFLOW

	Order number
Clickflow O <sub>2</sub> -DIN CS 0 – 16 L/min, 9/16"	MP13011
Clickflow O <sub>2</sub> -DIN CS 0 – 16 L/min, 6 mm nozzle	MP13012
Clickflow O <sub>2</sub> -Rail, NIST, 0 – 16 L/min, 9/16"	MP13013
Clickflow O <sub>2</sub> -DIN CS-twin (with y-piece), 2x 0 – 16 L/min, 9/16"	MP13014
Clickflow AIR-DIN CS, 0 – 16 L/min, 9/16"	MP13015
Clickflow AIR-DIN CS, 0 – 16 L/min, 6 mm nozzle	MP13016
Clickflow AIR-Rail, NIST, 0 – 16 L/min, 9/16"	MP13017

CS = central gas supply

Selectable options for configuration:	MP13000
Gas type	O <sub>2</sub> Air
Mounting	CS Rail
CS connector	DIN (long or short) UNI (Italy) AGA (SSS, Sweden) Carbueros (Spain) Carbamed (Switzerland) BS (England) NF (France)
Design	Single compact flow meter Dual compact flow meter
Flow	0.1 – 1 L/min 0.5 – 5 L/min 1 – 16 L/min 1 – 32 L/min
Gas outlet	6 mm nozzle 9/16" for sterile water

D-9458-2016



Adapter 9/16" to M34 x 1.5

MT-246-2000



Bubble humidifier

**ORDER INFORMATION ACCESSORIES**

	<b>Order number</b>
M34 x 1.5 adapter to nozzle	M06258
M32 x 1.5 adapter to nozzle	2M85575
M34 x 1.5 adapter to 9/16" for sterile water systems	2M86680
M32 x 1.5 adapter to 9/16" for sterile water systems	MP03366
9/16" adapter to 6 mm nozzle	MP00416
Adapter 9/16" to M34 x 1.5	MP03325
Reusable humidifier/bubbler	2M85834
Reusable humidifier/nebulizer	2M85835

Masks, nasal cannulae and other accessories from the O<sub>2</sub>Star™ O<sub>2</sub> therapy portfolio.  
See brochure 9067936

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