

Demand Flow

A twin stage regulator designed for use in tandem with instruments where a pump is used to draw gas samples. The regulator flow is designed to match that of the instrument to provide the required amount of gas and negates the need for separate accessories such as t-pieces, sampling bags and flow metres.

The regulator is designed for use with Mtech 34 Litre, 58 Litre and 110 Litre non-refillable cylinders, DOT approved 103 Litre non-refillable cylinders and can be adapted for use with cylinders having a CGA 600 inlet valve.

Key Features and Benefits

- Standard C10 inlet
- Easy to use
- Robust construction
- Compatible with Mtech 34 Litre, 58 Litre and 110 Litre non-refillable cylinders



Specification

Body: Nickel Plated Brass

Diaphragm: Nitrile

Seats and Seals: Viton® and Teflon®

Bonnet: Aluminium

Inlet Connection: 5/8" 18 UNF (C10)
CGA 600 (by special request)

Outlet Connection: 3/16" hose tail barb

Number of Stages: 2

Flow Rate: 0 to 3 litres per minute

Part number: Demand flow



Molenstraat 84
B-2640 Mortsel
M +32 (0)474 67 18 82
F +32 (0)3 457 77 17
info@mtechgas.be

www.mtechgas.be

DFR – Functioning And Application

The two stage **Demand Flow Regulator** is designed for use with instruments that utilize a sample pump to draw the calibration gas. This saves precious calibration gas, in that gas flows only as pulled by the pump.

The negative pressure drawn by the pump actuates the diaphragm based mechanism, which releases preset (0-3 Lit/min) flow, in the very accurate way an instrument needs. A pressure regulating valve device positioned within the interior of the housing regulates the pressure of the calibrated gas entering the interior of the housing through the inlet and a demand flow valve device delivers calibration gas to the outlet of the housing, upon demand, by a pump operatively associated with the instrument.

This simple-to-use regulator makes calibration quick and easy; the C10 threaded inlet connection mates with the 34, 58 and 110 litre non-refillable cylinders and the Teflon tubing to feed from the regulator to the instrument slides over the barbed outlet fitting. With no valves to operate, just start the instrument and the regulator does the rest.

An instrument calibrating demand flow regulator, for providing a demanded amount of calibration gas from a calibration gas source to an instrument to be calibrated to permit calibration of the instrument, includes a housing, having an interior, an inlet for connection to the calibration gas source and an outlet for connection to the instrument to be calibrated.

- Inlet Fitting: 5/8 x 18 UNF, (adaptable to standard CGA fitting on request).
- Outlet Fitting: 3/16" Barb
- Flow Range: 0-3 LPM

Note- Stainless steel DFR is also available for reactive gas mixtures.

