

DEVICE FOR REGULATING THE FLOW OF GASES HAVING
SUBSTANTIALLY DIFFERENT MOLAR MASSES

ABSTRACT

This device (14A; 14B) for regulating the flow of gases having substantially different molar masses comprises an always-open feed line (7; 85) connected, on the one hand, to a gas source (5) at defined pressure and, on the other hand, to an apparatus (3), and a first calibrated restriction (27) placed in the feed line (7; 85). It furthermore comprises, on the one hand, a bypass line (31; 91) connected via one of its ends to a valve of the branching valve (29) or 4-way valve (402) type, placed in the feed line (7; 85), and via the other end to a point of connection to the feed line, and, on the other hand, a second calibrated restriction (41) placed in the bypass line (31; 91).

Application to the feed for an ionization mass spectrometer.

Figure 1