

Differential pressure Regulators

series ***DP 20, DP 40, DP 50***

GENERAL

Differential pressure regulators are designed to stabilize vacuum. They are used in gas chlorine installations , with minor alterations they can also be used for other gases. They are made of the best and most resistant materials. The springs are made of tantalum alloys, housing from special ABS plastic or rigid massive PVC, the diaphragms, O rings, gaskets and washers are made of quality materials like ECTFE foil, FPM/FKM, PTFE (TEFLON), PVDF, which all ensures faultless operation of these devices at high mechanical and temperature load."

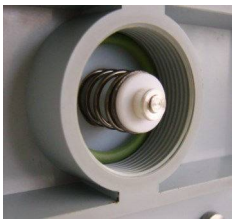


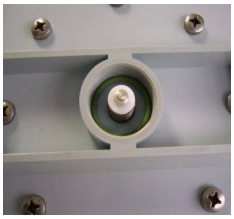
OPERATION PRINCIPLE

The return pressure acts upon the **underside of the** diaphragm.

The diaphragm along with the spring **act together to** react to system changes and to keep this **constant pressure (vacuum) loss.**

So as the system pressure (vacuum) **rises, the** diaphragm moves the **valve cone down, to keep a controlled circuit pressure.**





ORDER CODES

DP 20 C / X

- Model
- Gas type
- Dosing range

OPTIONS:

- **Model: DP 20**: 0 - 15 kg/h
  DP 40: 20 - 40 kg/h
  DP 50: 60 - 200 kg/h
- **Gas type: "C"** - Cl2, **"CO2"** CO_2, **"S"** - SO2, **"N"** - NH3
- **Dosing range*:** is chosen from technical data table below and the suitable number is written into the ordering code

TECHNICAL DATA

Dosing range* DP 20: (kg/h)

8	up to 4
9	up to 10
10	up to 15

Dosing range DP 40: (kg/h)

20	up to 20
40	up to 40

Dosing range DP 50: (kg/h)

60	up to 60
80	up to 80
120	up to 120
160	up to 160
200	up to 200

Gas types :

C = Cl_2
CO2 = CO_2
S = SO_2
N = NH_3

Connections

Vacuum (up to 15m):

4 kg/h - d8/d10 - 3/8''
10 kg/h - d12/d16 - 5/8''
15 kg/h - d12/d16 - 5/8''
20 kg/h - d20 - 3/4''
40 kg/h - d25 - 1''
60 kg/h - d50 - 2''
80kg/h - d50 - 2''
120kg/h - d50 - 2''
160 kg/h - d50 - 2''
200 kg/h - d50 - 2''

For larger vacuum lines, see table:
Chlorine vacuum line size requirements

MEASURE DRAWINGS

