



# 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.

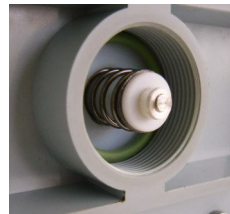


## OPERATION PRINCIPLE

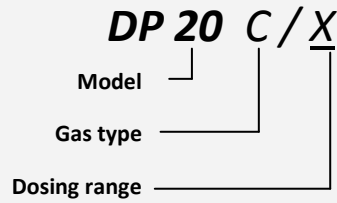
The **return** pressure acts upon the **underside** of the diaphragm.

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**



**OPTIONS:**

- Model: **DP 20:** 0 - 15 kg/h  
           **DP 40:** 20 - 40 kg/h  
           **DP 50:** 60 - 200 kg/h
- Gas type: **"C"** - Cl<sub>2</sub>, **"CO2"** - CO<sub>2</sub>, **"S"** - SO<sub>2</sub>, **"N"** - NH<sub>3</sub>
- Dosing range\*: is chosen from technical data table below and the suitable number is written into the ordering code

**TECHNICAL DATA**



<p><b>Dosing range* DP 20: (kg/h)</b></p> <p><b>8</b> up to 4</p> <p><b>9</b> up to 10</p> <p><b>10</b> up to 15</p> <p><b>Dosing range DP 40: (kg/h)</b></p> <p><b>20</b> up to 20</p> <p><b>40</b> up to 40</p>	<p><b>Dosing range DP 50: (kg/h)</b></p> <p><b>60</b> up to 60</p> <p><b>80</b> up to 80</p> <p><b>120</b> up to 120</p> <p><b>160</b> up to 160</p> <p><b>200</b> up to 200</p>	<p><b>Gas types :</b></p> <p><b>C</b> = Cl<sub>2</sub></p> <p><b>CO2</b> = CO<sub>2</sub></p> <p><b>S</b> = SO<sub>2</sub></p> <p><b>N</b> = NH<sub>3</sub></p>
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**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**

