

### Application

Analogue Flow Amplifier with a pressure ratio input ; output of 1:1 for the actuation of big actuators by means of a relatively small air signal flow.

### Specifications

Fluid	Instrument Air
Working Temperature	5 - 60 °C
Max. Supply Pressure	10 bar
Max. Signal Pressure	6 bar
Flow Factor	Cv = 1.1
Flow Qn (VDI 3290)	1150 L/min
Linearity	< 1 %
Hysteresis	< 1 %
Ports	BSP parallel to ISO 228/1 and BS 2779
Weight	560 g

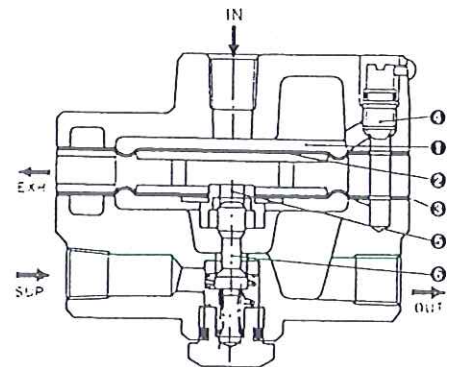
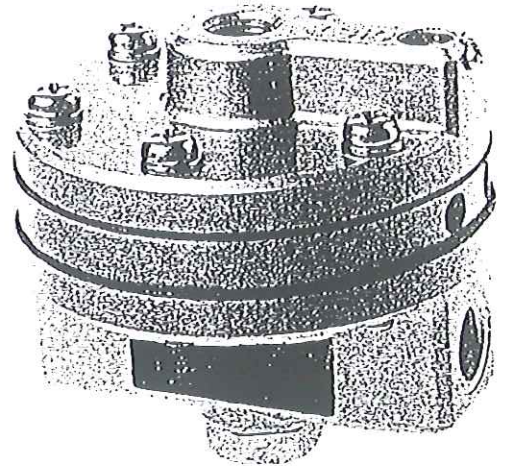
### Function

The In- and output pressures are balanced with a twin diaphragm of extreme flexibility, which actuates a three way, metal sealed valve. An output pressure slightly under the input pressure lowers the twin diaphragm and increases the valve orifice.

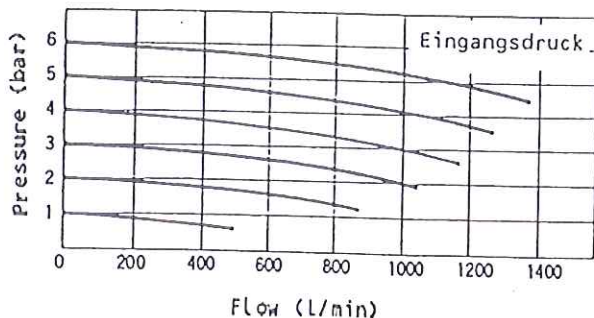
With a signal pressure under that of the output, the twin diaphragm is lifted and the valve exhausts the outlet through the seat in the diaphragm plate and a bleed hole between the two diaphragms until the pressure equilibrium is restored.

With an air consumption of less than 3 normal liters per minute, a small air flow passes from the signal input to the output, increases the pressure under the diaphragms and keeps the valve floating to increase the sensitivity and response speed.

The high flow capacity allows a high response speed of even big size actuators, as diaphragm valves etc.



### Flow



### Dimensions

