# Control the Pressure of your System

## CPM Constant-Pressure Modulating Valve

#### Concept

CPMI-2, CPMI-D60 and CPMO-2 are sanitary constant-pressure valves. CPMI-2 and CPMI-D60 (Constant-Pressure Modulating Inlet) maintain a constant pressure in the process line at the inlet side of the valve. Typical applications are after separators, heat exchangers or overflow valves. CPMO-2 (Constant-Pressure Modulating Outlet) maintains a constant pressure in the process line at the outlet side of the valve. Typical applications are before filling/bottling machines etc.

### Working principle

The valves are remote-controlled by means of compressed air. A diaphragm/valve plug system reacts immediately to any alteration of the product pressure and changes position so that the preset pressure is maintained.

#### Standard design

The CPMI-2 and CPMO-2 consist of a valve body with valve seat, cover, a valve plug with a diaphragm unit and a clamp. The cover and the valve body are clamped together. The valve body and the seat are welded together. The CPM-I-D60 consists of upper and lower valve bodies, an inlet tube, a cover, a valve plug with diaphragm unit and clamps. The cover and the valve bodies are clamped together.

#### **TECHNICAL DATA**

Max. product pressure: ..... 1000 kPa (10 bar). Min. product pressure: ..... 0 kPa (0 bar). Temperature range: . . . . . . . . . -10°C to 95°C (EPDM). Temperature range with upper diaphragm in PTFE/EPDM: .....-10° C to +140° C. (Higher on request). Air pressure (CPMI-2/CPMO-2): . . . . . 0 to 800 kPa (0 to 8 bar). Air pressure (CPM-I-D60): .... 0 to 600 kPa (0 to 6 bar). Flow Kv 23, fully open (Dp = 1 bar): . . Approx 23  $m^3/h$ . Flow Kv 7 ( $\Delta p = 1$  bar): . . . . . . . . Approx 7 m<sup>3</sup>/h. Flow Kv 9 ( $\Delta p = 1$  bar): . . . . . . . Approx 9 m<sup>3</sup>/h. Flow Kv2/15, low capacity ( $\Delta p = 1 \text{ bar}$ ): Approx 2 m<sup>3</sup>/h. (Alternative size) . . . . . . . . . . . (regulating area). Approx. 15 m<sup>3</sup>/h. (CIP area). Flow range Kv60, fully open ( $\Delta p = 1$  bar)

.... Approx 60 m<sup>3</sup>/h.



#### PHYSICAL DATA

#### Materials

Product wetted steel parts: .... 1.4404 (316L). Lower diaphragm: . . . . . . . . . PTFE covered EPDM rubber

Upper diaphragm .....NBR

#### Air Connections

R 1/4" (BSP), internal thread.