### Technical Features

- 2-Way pressure compensator, spool-type, direct-acting with subplate interface acc. to ISO 4401, DIN 24340 (CETOP 03)
- Modular design for vertical stacking assemblies with built-in load sensing shuttle valve
- Meter-in and meter-out flow control models with integrated by-pass check valves
- The valve keeps the pressure drop between the inlet and the pilot connection at a constant level
- Used as a load sensing valve with proportional directional and flow valves to control the flow rate independently of the pressure variations
- Excellent stability throughout the flow range, rapid response to dynamic pressure changes
- Quiet and modulate response to load changes
- Hardened precision parts
- Load sensing port from mounting pattern side option
- High flow capacity
- In the standard version, the valve housing is phosphated and steel parts zinc-coated for 240 h protection acc. to ISO 9227

### Functional Description

A normally open, direct-acting, spring loaded 2-way pressure compensator in the form of a sandwich plate.

**2-Way compensators for meter-in applications (models A,B,C, CX)**

The 2-way meter-in pressure compensators will maintain a constant pressure difference across the metering edge of the proportional directional valve. In this case, the pressure variations due to load changes, as well as pump pressure changes are compensated. Any increase in pump pressure does not affect the flow.

The meter-in compensators may only be used with positive load direction.

They are designated for load compensation in inlet port P.

**2-Way compensators for meter-out applications (models D,E,F)**

In systems with changing load directions or negative load, the use of meter-out pressure compensators is required. With respect to the application, a valve with a pressure compensator installed in one or in both actuator ports are available.

The pressure compensator is always mounted between the actuator and the proportional directional valve.

The valve will maintain the pressure difference between A and T or B and T constant.

The flow rate and the flow direction are adjusted by the proportional directional valve.

To enable free reverse flow, two by-pass check valves are incorporated into the valve body.

### Technical Data

<table>
<thead>
<tr>
<th>Valve size</th>
<th>Max. operating pressure</th>
<th>Max. flow</th>
<th>Control pressure differential</th>
<th>Fluid temperature range (NBR)</th>
<th>Fluid temperature range (FPM)</th>
<th>Mass (all models)</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 (D03)</td>
<td>350 (5080)</td>
<td>35 (9.2)</td>
<td>10 (145)</td>
<td>-30 .... +100 (-22 ... +212)</td>
<td>-20 .... +120 (-4 ... +248)</td>
<td>1.0 (2.20)</td>
</tr>
</tbody>
</table>

Data Sheet: 
- Type: GI_0060
- Products and operating conditions: SMT_0019
- Size 06: SP_8010

### Characteristics

**Regulated flow related to input pressure**

**TV2-062/MC Meter-in compensator**

**TV2-062/MD Meter-out compensator**

The characteristic of the pressure compensator corresponds to the flow rate of a PRM2-062Z11/30 proportional directional valve. If the pressure resistance increases due to a flow rate increase, the pressure differential also has to increase in order to ensure correct regulation.
### Dimensions in millimeters (inches)

#### TV2-062/MA (B, C, CX) Meter-in compensator

- 26.5 (1.04) mm
- 9 (0.35) mm
- 85 (3.35) mm
- 40 (1.57) mm

#### TV2-062/MD (E, F) Meter-out compensator

- 31 (1.22) mm
- 105 (4.13) mm
- 63.5 (2.5) mm

### Application Example

#### Meter-in compensator

- SHUTTLE VALVE
- PROPORTIONAL DIRECTIONAL VALVE
- PRESSURE COMPENSATOR

#### Meter-out compensator

- PRESSURE COMPENSATOR
- PROPORTIONAL DIRECTIONAL VALVE

#### Adapter G1/4/G1/4-ED

- addition of equipment for external LS connection
- Ordering number: 28004900

### Functional Symbols

- **A**
- **B**
- **C**
- **CX**

- **P1**
- **A1**
- **B1**
- **T1**

- **P2**
- **A2**
- **B2**
- **T2**

- **D**
- **E**
- **F**

**Notice:** The orientation of the symbol on the name plate corresponds with the valve function.

### Ordering Code

2-Way pressure compensator, spool-type, direct-acting, modular

**Nominal size**

- ISO 4401-03-02-0-05, DIN 24340 (CETOP 03), NG 06

**2-Way pressure compensator**

- **Sandwich plate**

**Model**

- Meter-in compensator in port A
- Meter-in compensator in port B
- Meter-in compensator in port A and B
- Meter-in compensator in port A and B with LS pattern port
- Meter-out compensator in port A and B
- Meter-out compensator in port A
- Meter-out compensator in port B

**Seals**

- NBR
- FPM (Viton)

**Surface treatment**

- housing phosphated, steel parts
- zinc-coated (ZnCr-3), ISO 9227 (240 h)
- zinc-coated (ZnCr-3), ISO 9227 (240 h)
- zinc-coated (ZnNi), ISO 9227 (520 h)

**Seals**

- NBR
- FPM (Viton)

**Adjustment option**

- fixed setting, not adjustable

**Control pressure differential**

- 10 bar (145 PSI)