



Technical Features

- › 2-Way pressure compensator, spool-type, built in a modular block for vertical grouping with mounting interface acc. to ISO 4401 (size 06), DIN 24340 (CETOP 03)
- › High flow capacity
- › Meter-in design with integrated load shuttle valve
- › Meter-out design with integrated by-pass check valve
- › The valve maintains a constant pressure drop on a flow control valve (e.g. proportional directional control valve) and thus a constant volumetric flow independent of actuator load
- › Rapid and smooth response to load changes
- › Stable function throughout the whole flow range
- › Precisely manufactured and hardened key parts
- › Possible external sensing of LS signal by means of an adapter, mounted instead of the end plug on the spring side, or by X2-channel on the connecting surface of modular block (CX version)
- › In the standard version, the valve body is phosphated. The steel parts are zinc-coated for corrosion protection 240 h in NSS acc. to ISO 9227

Functional Description

The 2-way pressure compensator, built in a modular block, maintains a constant pressure drop on the flow control valve and thus a constant volumetric flow independent of actuator load changes or pump power fluctuation. The spool position of the compensator is controlled by pressure drop sensed upstream and downstream from the valve. The set pressure drop is defined by spring pressure acting on the spool face and is maintained by flow throttling on the spool control edge. In the basic position the compensator is open. The volumetric flow, and thus the moving velocity of piston rod or hydraulic motor shaft can be regulated by change of flow cross section on the flow control valve.

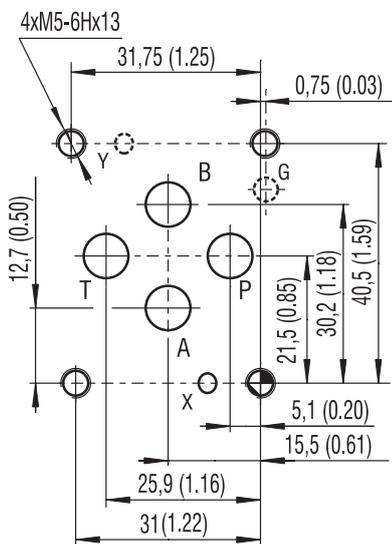
2-way pressure compensator for meter-in connection (models A, B, C, CX)

Meter-in compensator is connected between the pump and flow control valve in the circuit. This connection can be used in the case of positive acting load on the actuator, it means in the opposite direction to the moving. The model C is equipped with an integrated load shuttle valve for pressure sensing in both actuator pipelines depending on movement direction.

2-way pressure compensator for meter-out connection (models D, E, F)

Meter-out compensator is connected between the flow control valve and actuator in one or both pipelines of the actuator. This connection must be used in the case of negative acting load on the actuator, it means in the same direction as the movement, e.g. et the lowering the load. The pressure drop is stabilised in the flow direction A → T and B → T. In the opposite flow direction (to the actuator) the fluid flows freely through the opened integrated bypass check valve.

ISO 4401-03-02-0-05



Ports P, A, B, T max. \varnothing 7.5 mm (0.29)

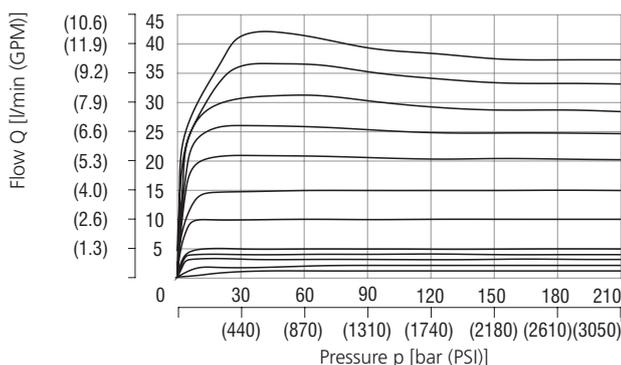
Technical Data

Valve size	06 (D03)	
Max. operating pressure	bar (PSI)	350 (5080)
Max. flow	l/min (GPM)	35 (9.2)
Control pressure differential	bar (PSI)	10 (145)
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 ... +212)
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 ... +248)
Weight (all models)	kg (lbs)	1.0 (2.20)
	Data Sheet	Type
General information	GI_0060	Products and operating conditions
Mounting interface	SMT_0019	Size 06
Spare parts	SP_8010	

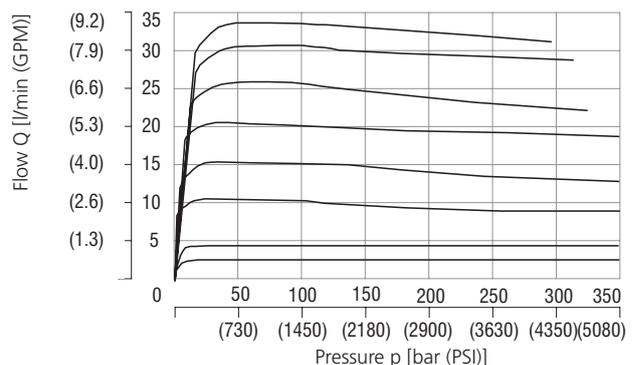
Characteristics measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

Regulated flow related to input pressure

TV2-062/MC Meter-in compensator



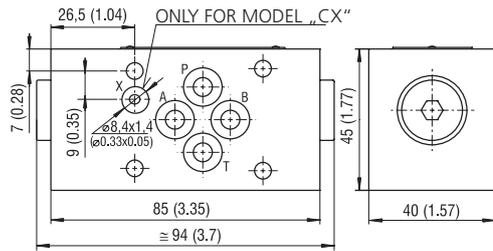
TV2-062/MD Meter-out compensator



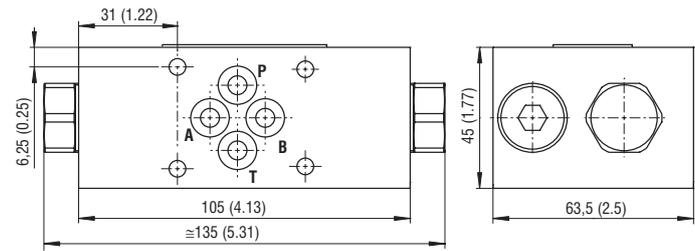
The characteristic of the pressure compensator corresponds to the flow rate of a PRM2-063Z11/30 proportional directional valve. If the pressure resistance increases due to a flow rate increase, the pressure differential also has to increase in order to ensure correct regulation.

Dimensions in millimeters (inches)

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

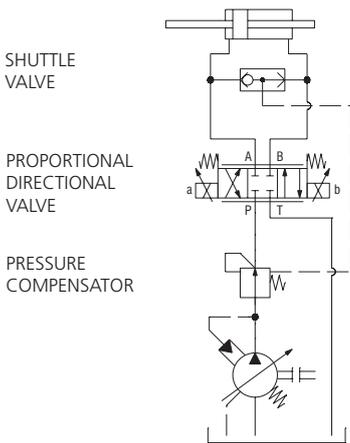


TV2-062/MD (E, F) Meter-out compensator

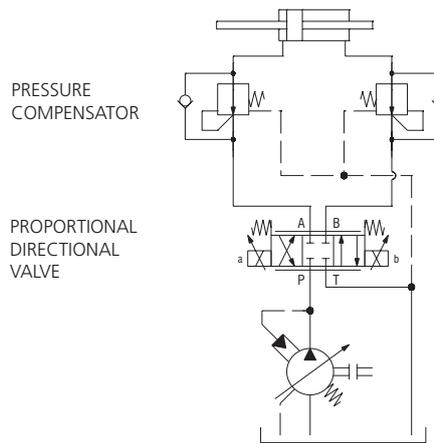


Application Example

Meter-in compensator

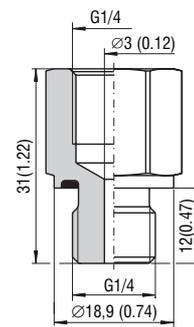


Meter-out compensator

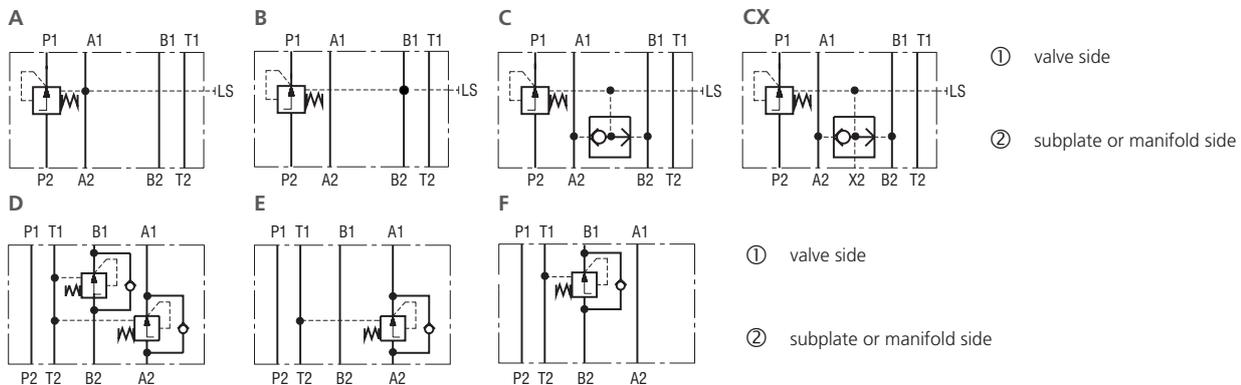


Adapter G1/4/G1/4-ED

addition of equipment for external LS connection
Ordering number: 28004900



Functional Symbols



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

Ordering Code

<p>2-Way pressure compensator, spool-type, direct-acting, modular</p> <p>Nominal size 06 ISO 4401-03-02-0-05, DIN 24340 (CETOP 03)</p> <p>2-Way pressure compensator</p> <p>Sandwich plate</p> <p>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</p>	<p>TV2-062/M 1 C - </p>	<p>Surface treatment No designation housing phosphated, steel parts zinc-coated (ZnCr-3), ISO 9227 (240 h) A zinc-coated (ZnCr-3), ISO 9227 (240 h) B zinc-coated (ZnNi), ISO 9227 (520 h)</p> <p>Seals No designation V NBR FPM (Viton)</p> <p>Adjustment option fixed setting, not adjustable</p> <p>Control pressure differential 10 bar (145 PSI)</p>
---	--	--