

Product Data Sheet

SD 4104-2E05

September 2011

Damcos® PTC - block

Pressure and temperature compensating block for VPI A1



General Description

Pressure and Temperature Compensating Block for VPI indication. The PTC-Block can be used with full advantage together with the VPI-C (continuous indicator). The PTC-Block is especially used where an exact indication of the intermediate and end position of the valve is desired. Where the volume ratio is extremely large between pipe and actuator, the PTC-Block can be used with advantage together

with the VPI-E (end position indicator) valve with A and B lines connected to the tank in intermediate position. The PTC-Block can only be used for double-acting actuators with an equally large stroke capacity (for instance BRC, BHA and KC).

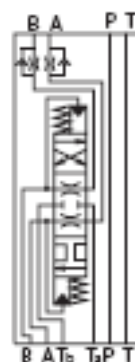
Note: The PTC-Block is always to be used together with a 4/3-way control

Functional Description and Hydraulic symbol

The function of the PTC-B lock is :

- Pressure compensation: to ensure that the VPI indicator is always measuring in the return line from the actuator where the failure indication is small, as the possible oil compression in the return line is fixed (approx. 3 bar). By always measuring on the return line, irrespective of the actuator being activated through the A or B line, there will be no variation in compression from measuring to measuring. (Measuring on the return line gives a signal indicating the movement of the actuator).
- Temperature compensation: to allow an undesired oil flow to bypass the VPI indicator when the actuator is not activated.

Pilot valve side/CETOP-3 connection



Indicator side/VPI connection

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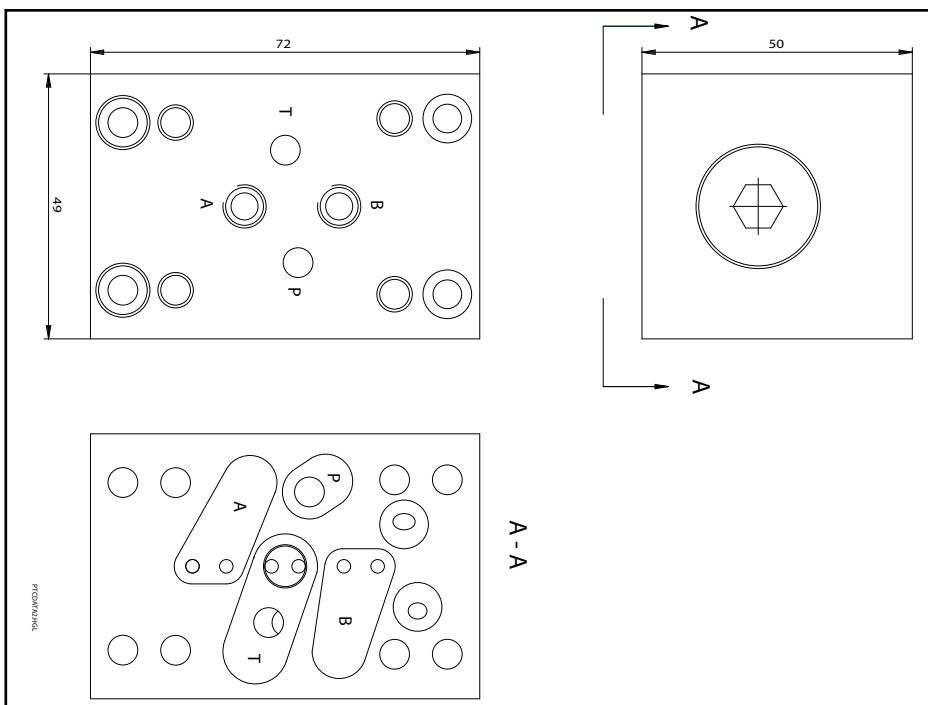
Technical Specification

Max. working pressure:	135 bar ~ 1958 lbf/in2
Max. test pressure:	225 bar ~ 2973 lbf/in2
Max. flow rate at 135 bar / 1958 lbf/in2 (through any line):	6 l/min.
Weight:	1.3 kg. ~ 2.87 lb
Hydraulic media:	Acid-free hydraulic oil
Viscosity:	15-200 cSt
Filtration requirements:	25 µm absolute or finer
Temperature range:	-20°C to 80°C
Connection face:	CETOP R 35H size 3, Din 24340/VPI connection

Material

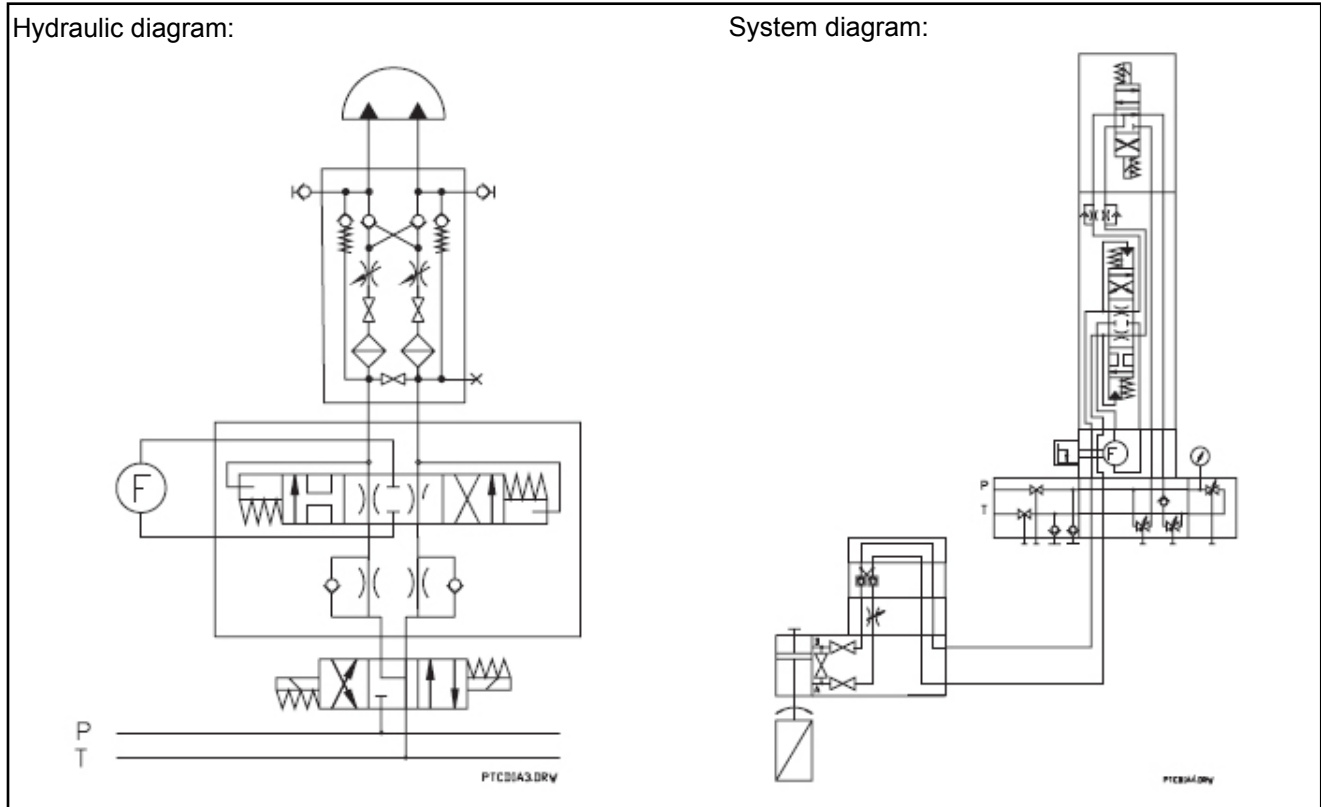
Housing	MS 58 (B rass)
Stop screws	MS 58 CuZn39Pb3
Screws	AISI 304
Seals	NBR
Sign Plate	AISI 304

Main Dimensions



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Hydraulic and System Diagram



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