

Temperature Compensating Block for VPI A1



General Description

Temperature Compensating Block for indication of end positions (VPI-V or VPI-E). The TC-Block allows the expansion/contraction of the oil in the system caused by major temperature and pressure variations without influencing the end stops and the switch functions of the indicator. The Block is provided with Cetop-3 connection for mounting of pilot valve.

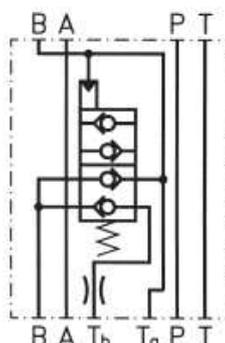
The combination of the VPI indicator and the TC-Block can be used for all DKMS-actuators and is used at on/off controls .

Note: The TC-Block is always to be used together with a 4/2-way controlvalve.

Functional Description and Hydraulic symbol

The function of the TC-Block is to allow the oil only to flow through the VPI in the required direction (locks and acknowledges the el. on/off signal). The undesired contra-flow is bypassing the VPI, thus avoiding an el. signal failure with resulting "alarm signal". This undesired oil flow is caused by the temperature expansion/contraction of the oil and also by a fluctuating pressure in the system at an on/off-operated actuator.

Pilot valve side/CETOP-3 connection



Indicator side/VPI connection

Damcos® TC - Block

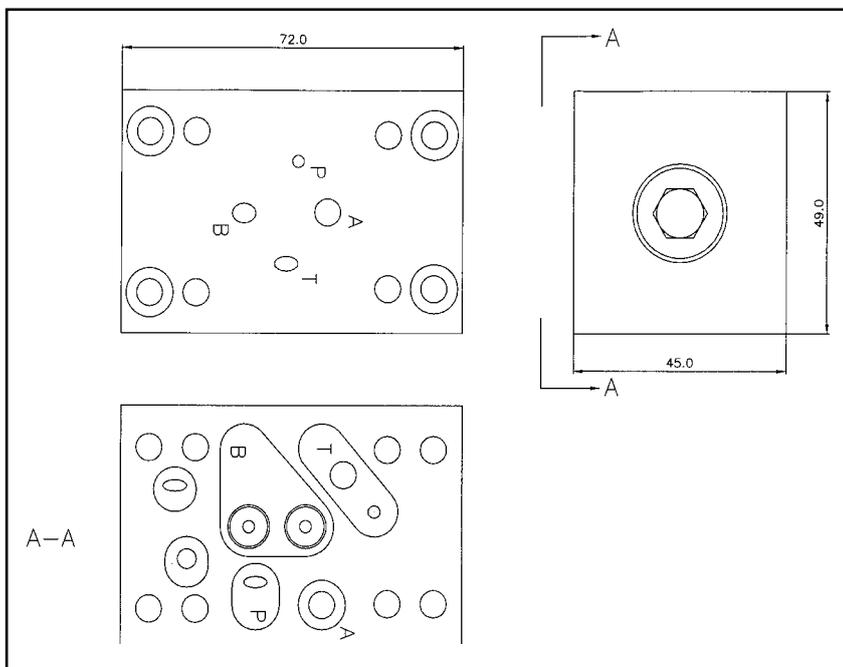
Technical Specification

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):	15 l/min.
Weight:	1,2 kg. ~ 2,65 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 (Brass)
Sign Plate	AISI 304
Screws	AISI 304

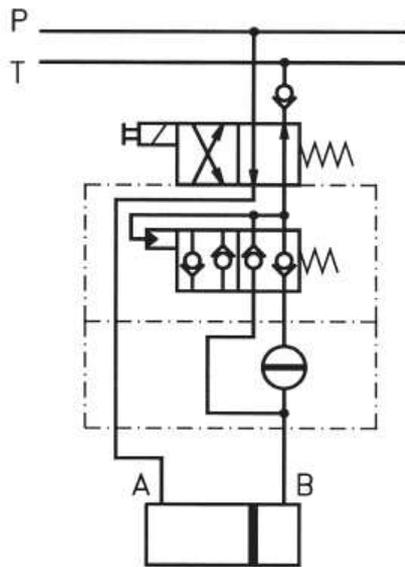
Main Dimensions



Damcos® TC - Block

Hydraulic and System Diagram

Hydraulic diagram:



System diagram:

