

Data sheet

Sheet No.: TCB-01.01 RevA
Date: October 2010

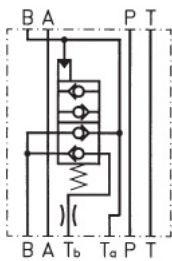
TCB-01

VPI product program for BHH/BHHF actuators

TC-Block



Hydraulic symbol:
Pilot valve side/CETOP-3 connection



Indicator side/VPI connection

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 control valve.

Functional description:

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.

Main data:

Max. working pressure	135 bar (1958 PSi)
Max. test pressure	205 bar (2973 PSi)
Max. flow rate at 105 bar/1958 lbf/in ² (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 (-4° F to 176° F)
Connection face	CETOP R 35H size 3, DIN 24340/VPI connection

Materials:

Housing	MS 58 (Brass)
Sign plate	AIS I 304 (Stainless)
Screws	AIS I 304 (Stainless)

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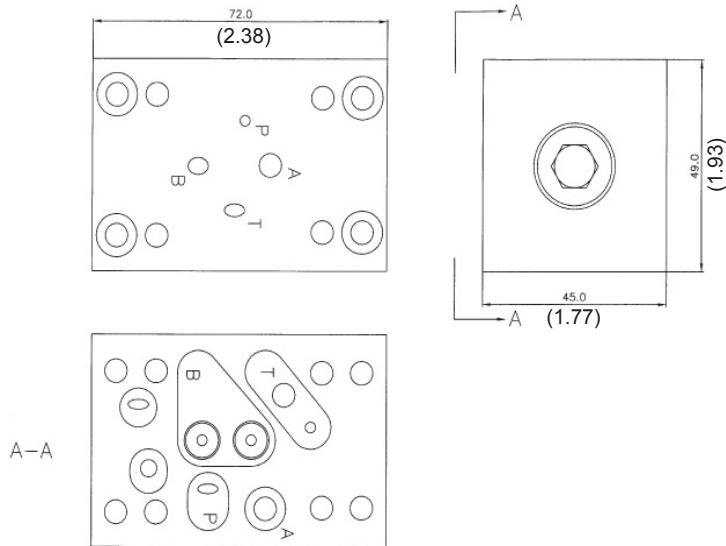

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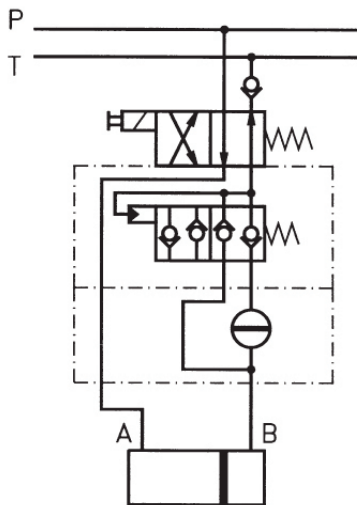
Sheet No.: TCB-01.02 RevA
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TCB-01

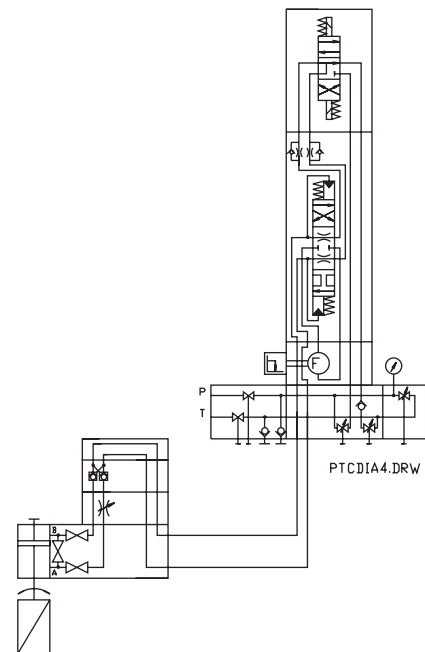
Main dimensions: (Inches in parenthesis)



Application: Hydraulic diagram



Bettis System diagram:



Note: Not Certified dimensional drawings. Such drawings are available on request. Contact factory with correct model designation and serial number.
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