TCB-01

Sheet No.: TCB-01.01 Rev. A

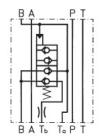
Date: October 2010

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/in2 (through any line) 15 l/min. Weight 1.2 kg. (2.65 lb) Hydraulic media Acid-free hydraulic oil 15-200 cSt Viscosity 25 μm absolute or finer Filtration requirements 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) |



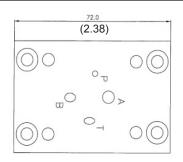


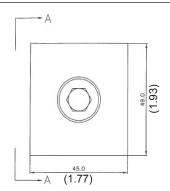
Sheet No.: TCB-01.02 Rev. A

Date: October 2010

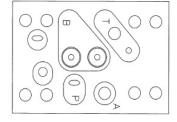
TCB-01

Main dimensions: (Inches in parenthesis)



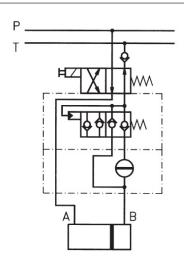


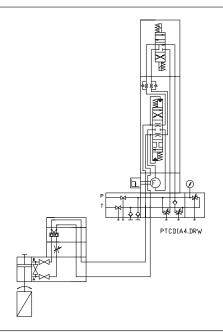
А-А



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. Important: Due to Emerson's continuing commitment to engineered product advancement, data presented herin is subject to change.

The contents of the publication are presented for information purposes only, and while effort has been made to ensure their accuracy,

they are not to be construed as warranties or guarantees, expresses or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request.

We reserve the right to modify or improve the designs or specifications of our products at any time without notice.

BETTIS

