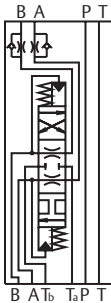


Pressure and temperature compensating block for BHH/BHHF actuators

PTC-Block



Hydraulic symbol:
Pilot valve side/CETOP-3 connection



Indicator side/VPI connection

General description:

Pressure and Temperature Compensating Block for VPI indication. The PTC-Block can be used with fullest 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). The PTC-Block can only be used for double-acting actuators with an equally large stroke capacity (for instance BHH and BL). Note: The PTC-Block is always to be used together with a 4/3-way control valve with A and B lines connected to the tank in intermediate position.

Functional description:

The function of the PTC-Block is:
a) 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)
b) Temperature compensation: to allow an undesired oil flow to bypass the VPI indicator when the actuator is not activated.

Main data:

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

Materials:

Housing	MS 58 (Brass)
Stop screws	MS 58 CuZn39Pb3
Screws	AISI 304
Seals	NBR
Sign plate	AISI 304

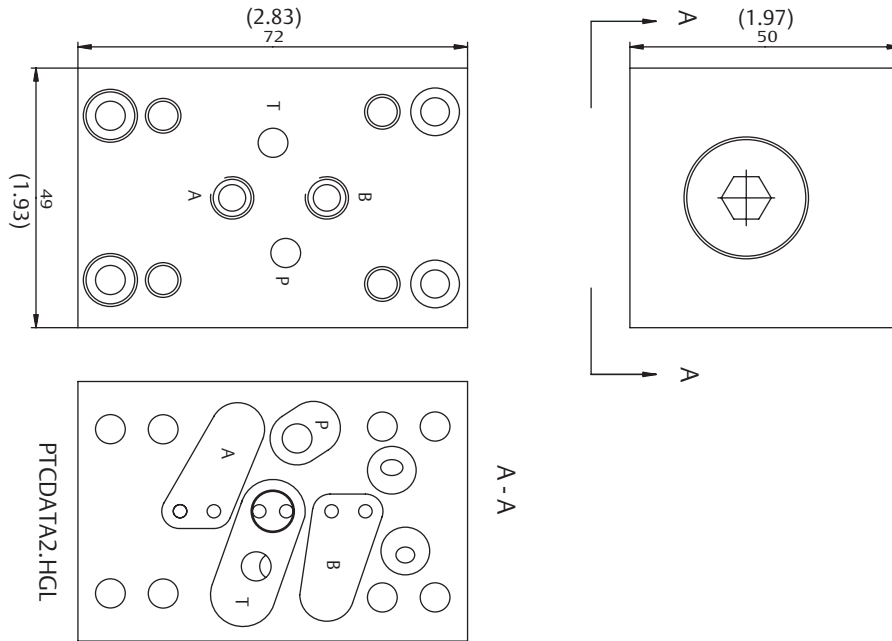
Data sheet

Sheet No.: PTC-01_0608

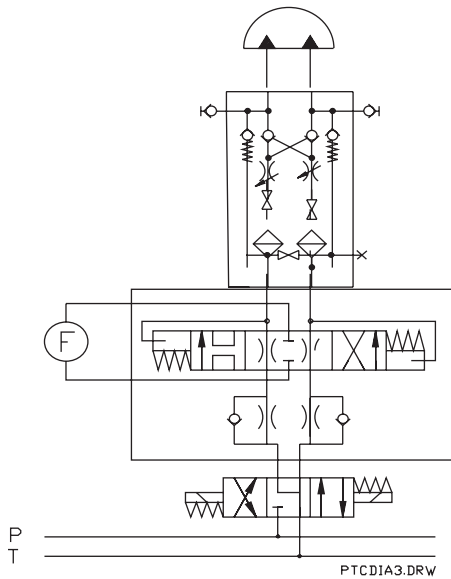
Date: June 2008

PTC-01

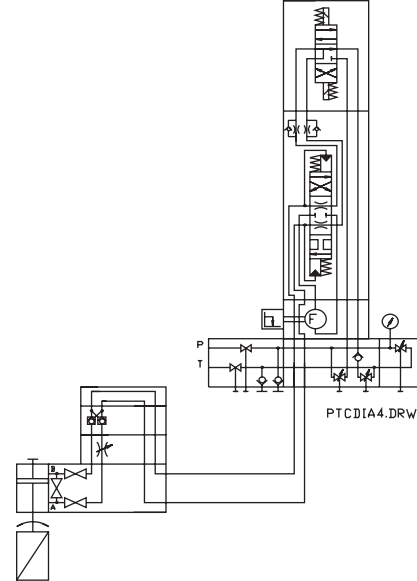
Main dimensions: (Inches in parenthesis)



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 herein 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, express 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

EMERSON

Copyright © Emerson. The information in this document is subject to change without notice. Updated data sheets can be obtained from our website www.emerson.com/bettis or from your Emerson Automation Solutions - Actuation Technologies Center:
America's: +1 281 477 4100 Europe: +36 22 53 0950 Asia/Pacific: +65 67 77 8211