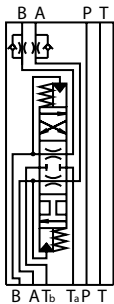


# Pressure and temperature compensating block for BHH/BHHF actuators

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:

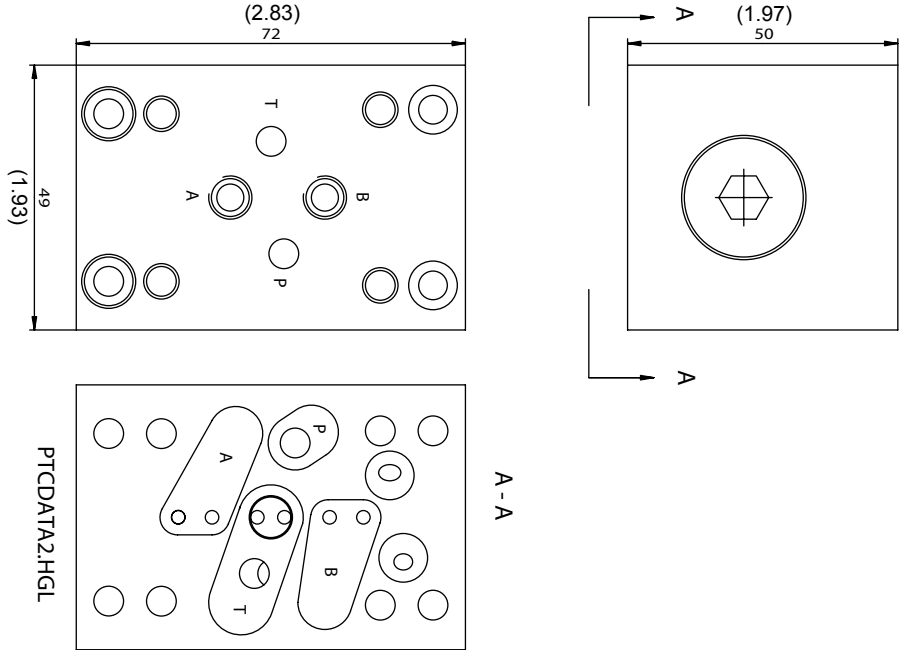
Max. working pressure	135 bar (1958 PSI)
Max. test pressure	205 bar (2973 PSI)
Max. flow rate at 105 bar (1958 PSI) (through any line)	6 l/min.
Weight	1.3 kg. (2.87 lb)
Hydraulic media	Acid-free hydraulic oil
Viscosity	15-200 cSt
Filtration requirements	25 µm absolute or finer
Temperature range	-20°C to 80°C (-4°F to 176°F)
Connection face	CETOP R 35H size 3, DIN 24340/VPI connection

## Materials:

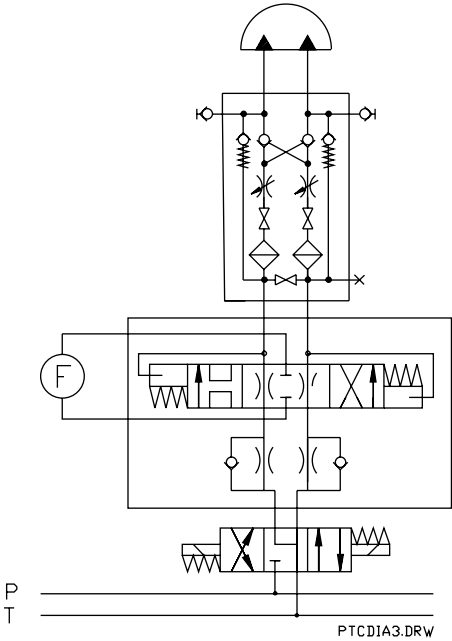
Housing	MS 58 (Brass)
Stop screws	MS 58 CuZn39Pb3
Screws	AISI 304
Seals	NBR
Sign plate	AISI 304

# PTC-01

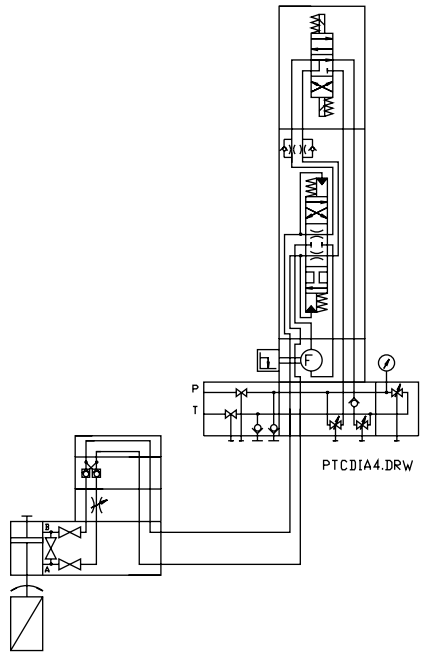
## Main dimensions: (Inches in parenthesis)



## 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.

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