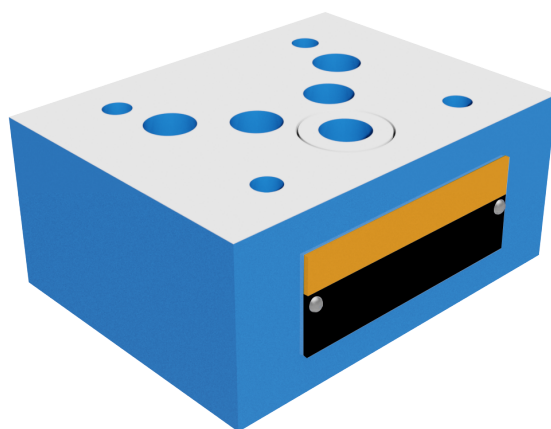




SANDWICH PLATE

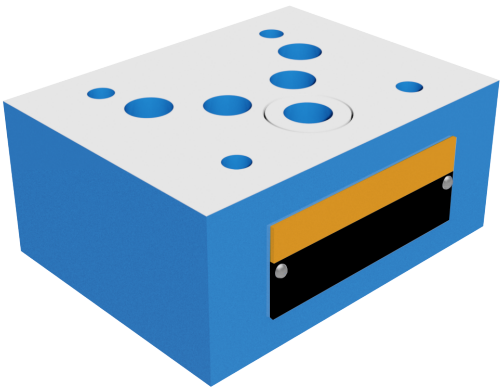
MODEL Z1S10



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Z1S10 INTRODUCTION

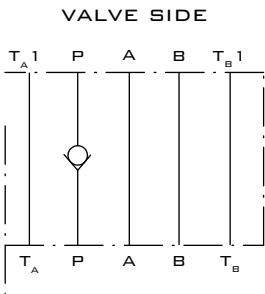
CHECK VALVES OF SANDWICH PLATE DESIGN ARE INTENDED FOR MATING WITH CONTROL VALVES. THEY ALLOW FREE FLOW OF FLUID IN ONE DIRECTION AND SELF-ACTING CLOSURE IN THE OPPOSITE DIRECTION. VALVES CAN BE MOUNTED IN ANY POSITION AS AN INTERMEDIATE ELEMENT BETWEEN A SUBPLATE AND A CONTROL VALVE.



Z1S10 TECHNICAL DATA

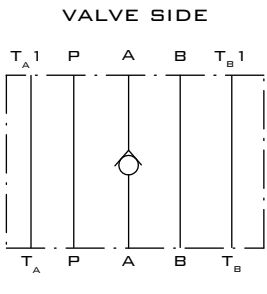
HYDRAULIC FLUID	MINERAL OIL OR PHOSPHATE ESTER
NOMINAL FLUID VISCOSITY	37 MM ² /S AT THE TEMPERATURE OF 55°C
VISCOSITY RANGE	2.8 TO 380 MM ² /S
REQUIRED FLUID FILTRATION	16 µM
RECOMMENDED FLUID FILTRATION	10 µM
MAXIMUM WORKING PRESSURE	32 MPa
CRACKING PRESSURE	0.05 MPa
MAXIMUM FLOW RATE	100 L/MIN
WEIGHT	1.8 KG

Z1S10 SCHEMES



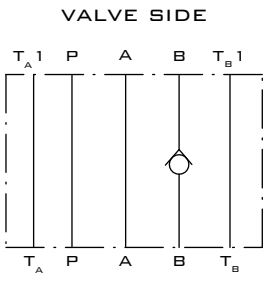
SUBPLATE SIDE

Z1S10 P



SUBPLATE SIDE

Z1S10 C



SUBPLATE SIDE

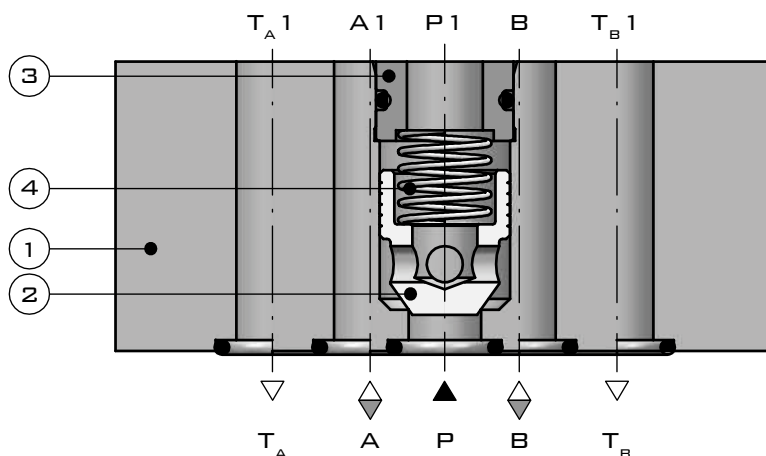
Z1S10 D

Z1S10 DESCRIPTION OF OPERATION

Z1S10P-1-30

VALVE SIDE

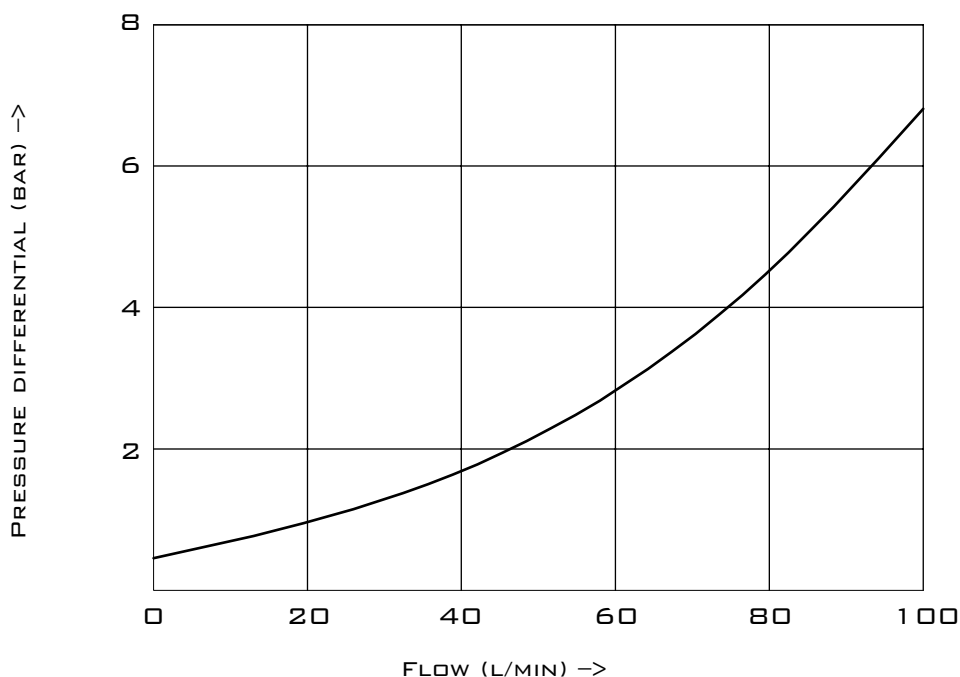
THE SLEEVE 3 WITH THE SEAT FOR THE SPRING 4 IS FITTED IN THE HOUSING 1. THE SPRING PUSHES THE POPPET 2 TO THE EDGE OF PORT P IN THE HOUSING 1. WHEN PRESSURE DIFFERENCE IN PORT P EXCEEDS THE CRACKING PRESSURE DETERMINED BY THE SPRING, THE POPPET WILL MOVE ALLOWING FREE FLOW IN LINE P. PORTS A, B, T SERVE AS FLOW PASSAGES



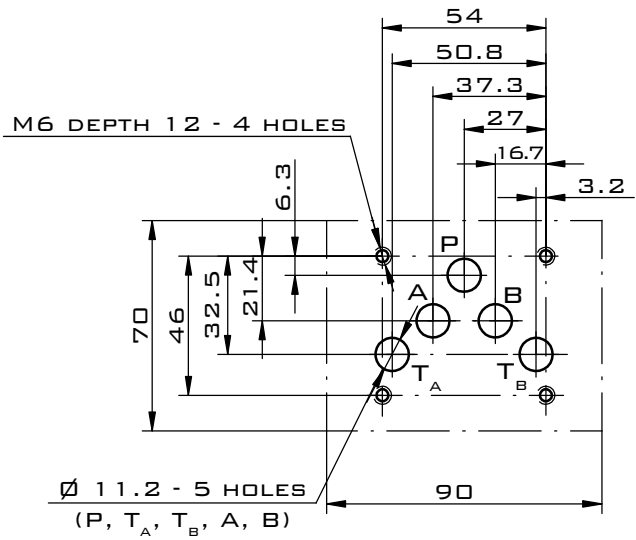
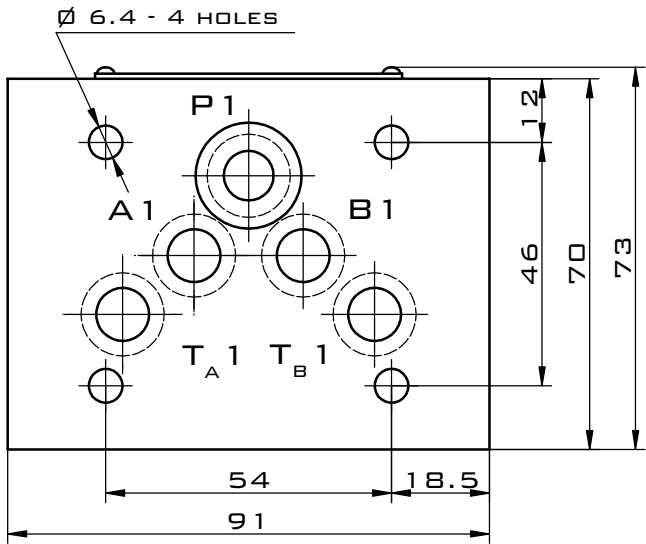
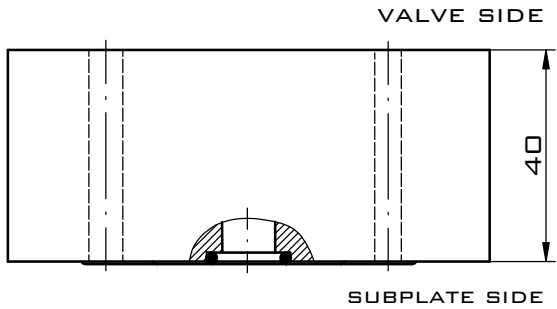
SUBPLATE SIDE

Z1S10 PERFORMANCE CURVES

MEASURED AT $v = 41 \text{ mm}^2/\text{s}$ AND $T = 50^\circ\text{C}$



Z1S10 OVERALL DIMENSIONS





Z1S10

SANDWICH PLATE

ORDER CODE

Z1S10 - [] [] [] [] *

CHECK VALVE

PORT P

PORT A

PORT B

= P

= C

= D

1 = CRACK PRESSURE 0.5 BAR

2 = CRACK PRESSURE 3 BAR

3 = CRACK PRESSURE 5 BAR

ADDITIONAL REQUIREMENTS IN CLEAR TEXT
(TO BE AGREED WITH THE MANUFACTURER)

SEALING

FLUIDS ON MINERAL OIL BASE = NO DESIGNATION

FLUIDS ON PHOSPHATE ESTER BASE = V

30 =

30 SERIES