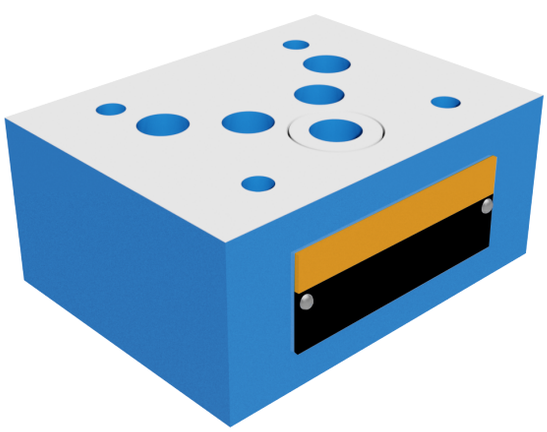
OLEODINAMICA MOZIONI

# SANDWICH PLATE

## MODEL Z1S10



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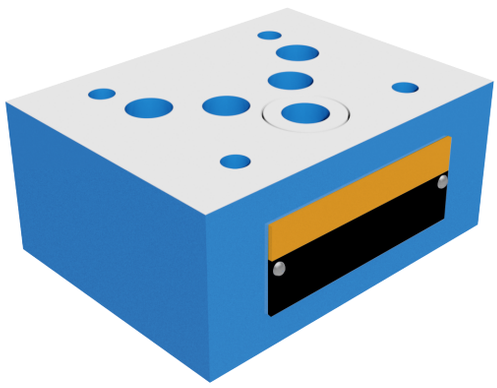
# Z1S10

SANDWICH PLATE

## 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 selfacting closure in the opposite direction. Valves can be mounted in any position as an intermediate element between a subplate and a control valve.

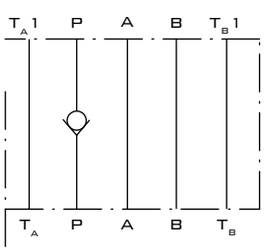


## Z1S10 Technical Data

| | |
|---|---|
| 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 $\mu m$ |
| Recommended fluid filtration | 10 $\mu m$ |
| Maximum working pressure | 32 MPa |
| Cracking pressure | 0.05 MPa |
| Maximum flow rate | 100 l/min |
| Weight | 1.8 kg |

## Z1S10 Schemes

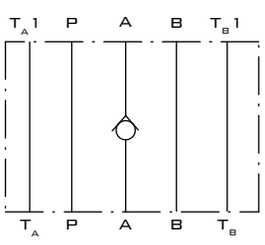
valve side




subplate side

Z1S10 P

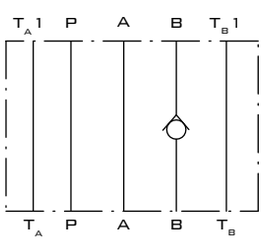
valve side




subplate side

Z1S10 C

valve side



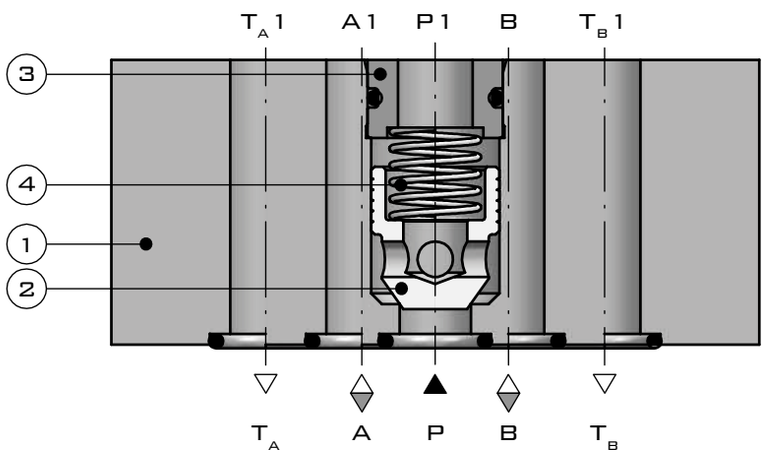

subplate side

Z1S10 D

## Z1S10 Description of operation

Z1S10P-1-30

VALVE SIDE

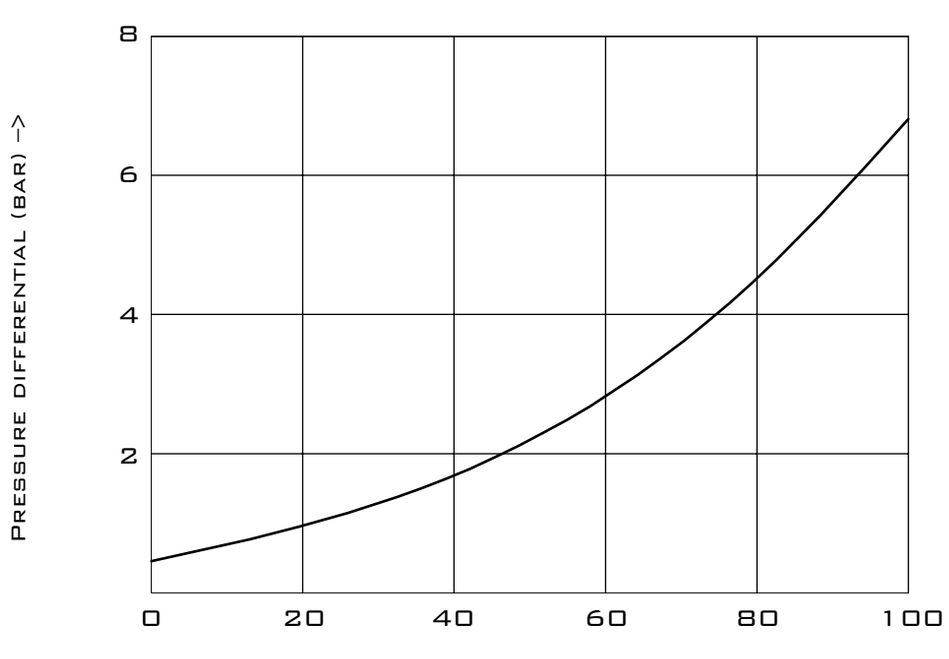



SUBPLATE SIDE

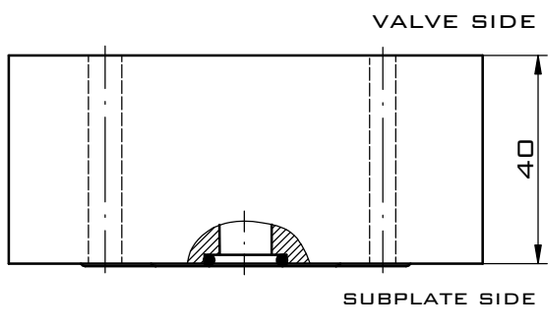
The sleeve 3 with the seat for the spring 4 is fitted in the housing 1. The spring pushes the poppet 2 to the edge of port P in the housing 1. When pressure difference in port P exceeds the cracking pressure determined by the spring, the poppet will move allowing free flow in line P.
Ports A, B, T serve as flow passages

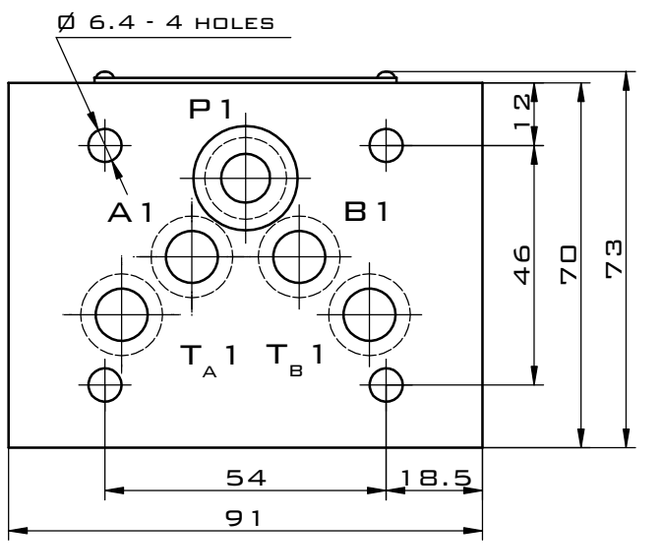
## Z1S10 Performance Curves

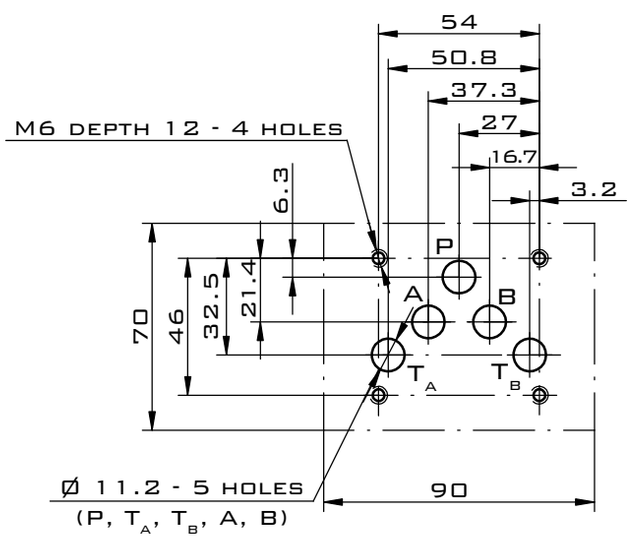
measured at v = 41 mm²/s and T = 50°C



## Z1S10 Overall Dimensions



## ORDER CODE

| Z1S10 – | | | | | * |
|---|---|---|---|---|---|

**CHECK VALVE**
PORT P = P
PORT A = C
PORT B = D

1 = CRACK PRESSURE 0.5 BAR
2 = CRACK PRESSURE 3 BAR
3 = CRACK PRESSURE 5 BAR

30 = 30 SERIES

SEALING
FLUIDS ON MINERAL OIL BASE = NO DESIGNATION
FLUIDS ON PHOSPHATE ESTER BASE = V

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