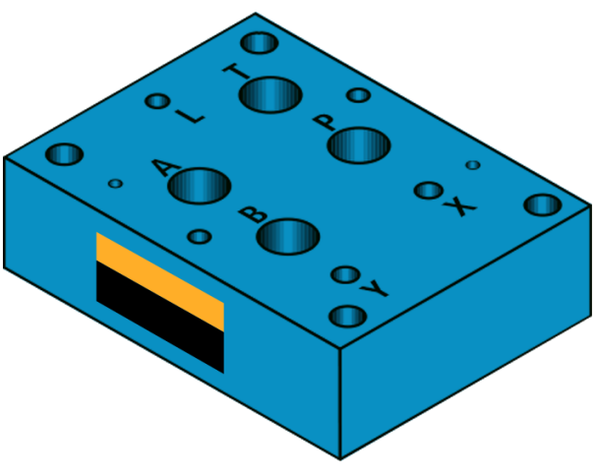
OLEODINAMICA MOZIONI

SANDWICH PLATE

MODEL Z1S16



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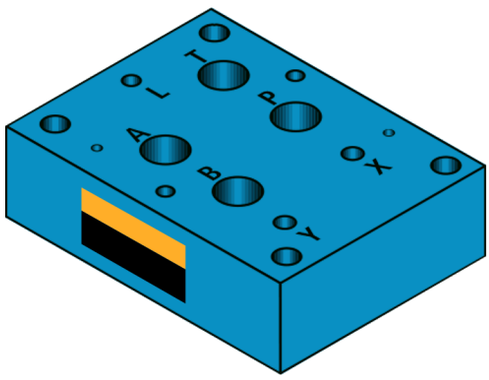
Z1S16

SANDWICH PLATE

Z1S16 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.

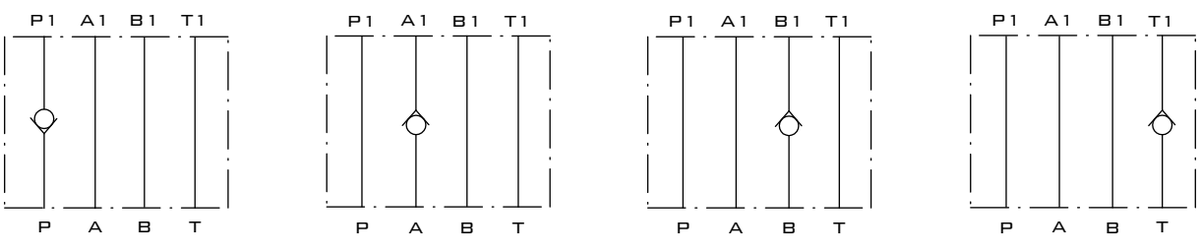


Z1S16 Technical Data

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	200 l/min
Weight	3.7 kg

Z1S16 Schemes

valve side



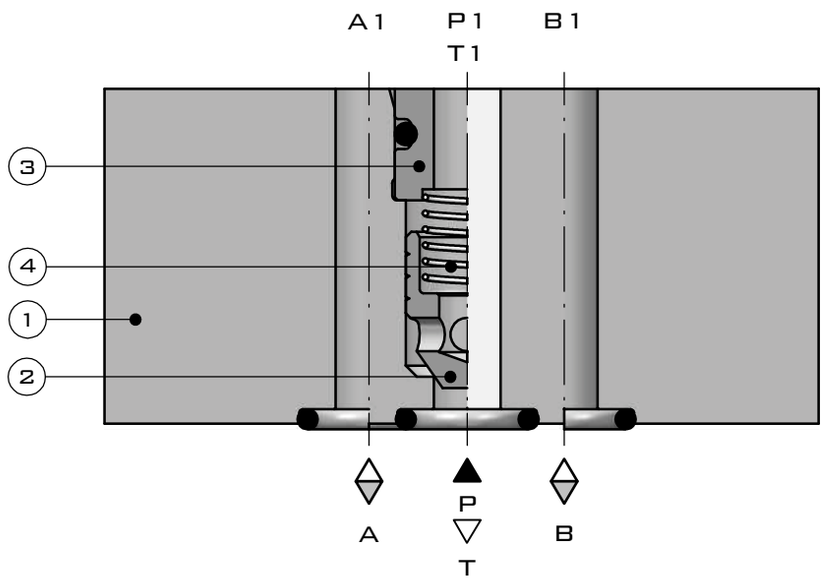
subplate side

Z1S16 P | Z1S16 C | Z1S16 D | Z1S16 T

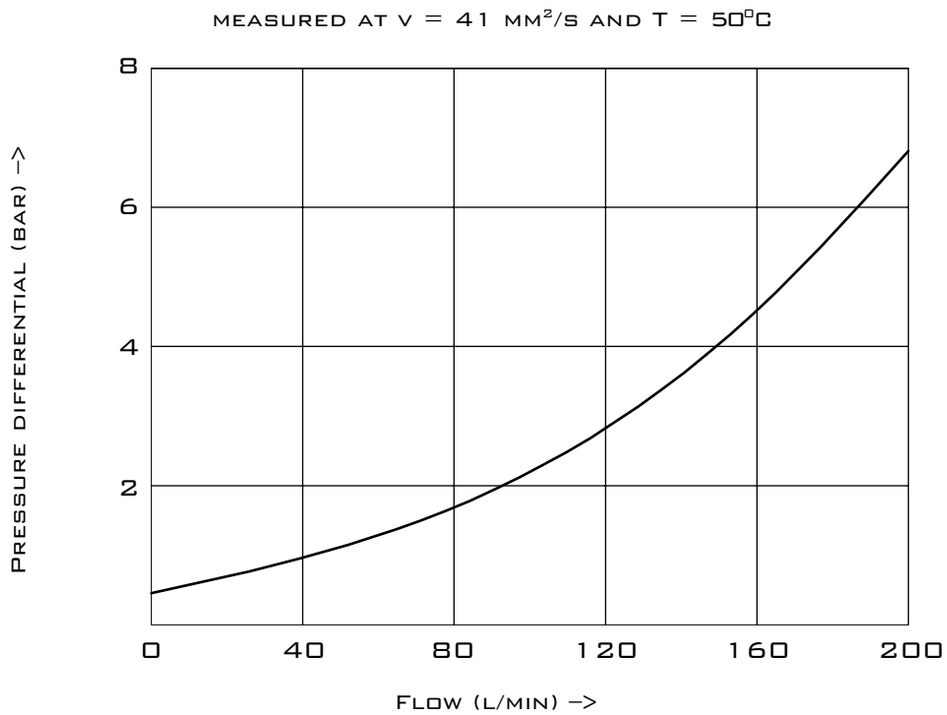
Z1S16 Description of operation

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, A, B, T or A and B.

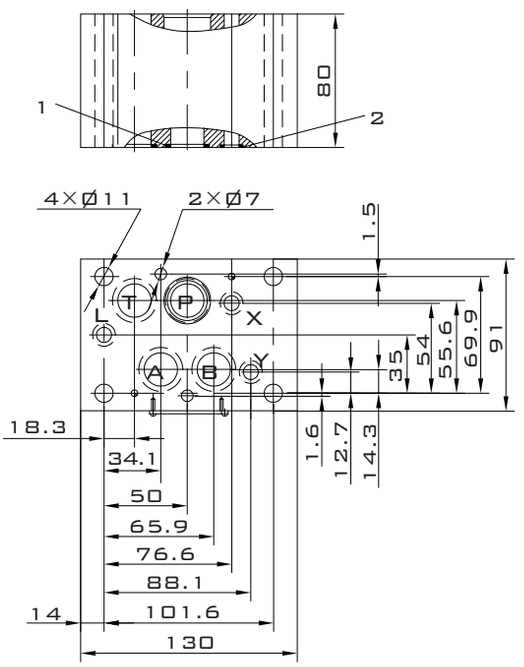
Z1S16P-1-30



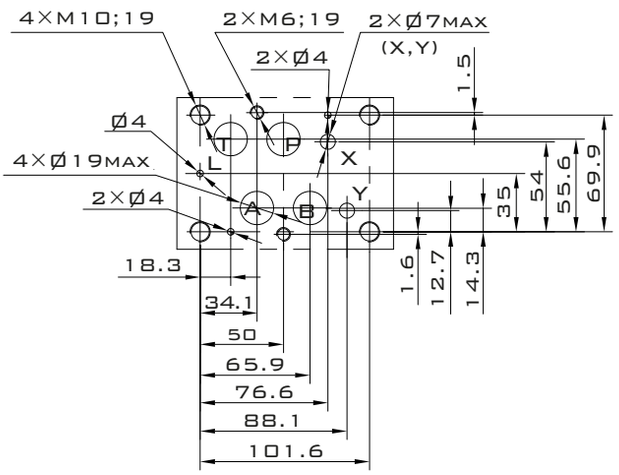
Z1S16 Performance Curves

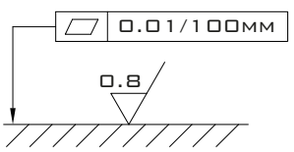


Z1S16 Overall Dimensions



1 O-rings 22×2.5 (Ports A, B, P, T)
2 O-rings 10×2 (Ports X, Y, L)





Requirement for
mounting surface

ORDER CODE

Z1S16 –					*

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

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)