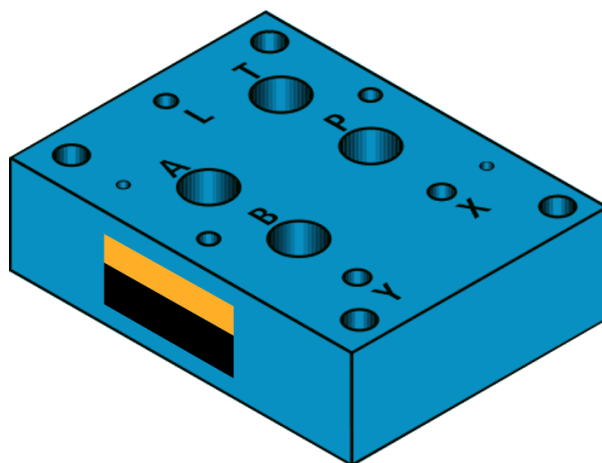




**SANDWICH PLATE**

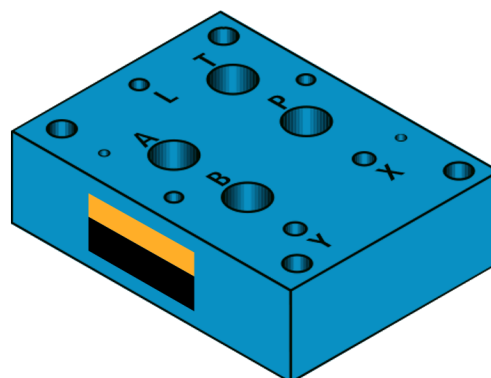
**MODEL Z1S16**



[WWW.OLEODINAMICAMOZIONI.IT](http://WWW.OLEODINAMICAMOZIONI.IT)

### 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 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.

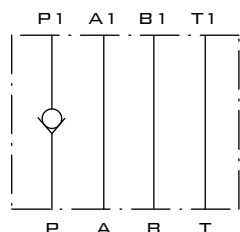


### Z1S16 TECHNICAL DATA

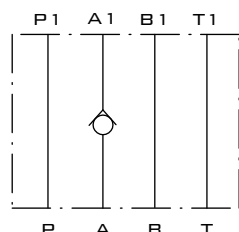
HYDRAULIC FLUID	MINERAL OIL OR PHOSPHATE ESTER
NOMINAL FLUID VISCOSITY	37 MM <sup>2</sup> /S AT THE TEMPERATURE OF 55°C
VISCOSITY RANGE	2.8 TO 380 MM <sup>2</sup> /S
REQUIRED FLUID FILTRATION	16 μM
RECOMMENDED FLUID FILTRATION	10 μM
MAXIMUM WORKING PRESSURE	32 MPa
CRACKING PRESSURE	0.05 MPa
MAXIMUM FLOW RATE	200 L/MIN
WEIGHT	3.7 KG

### Z1S16 SCHEMES

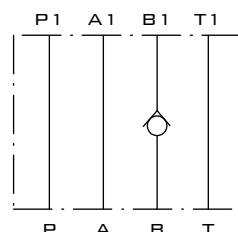
VALVE SIDE



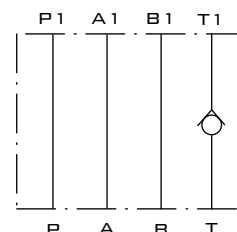
Z1S16 P



Z1S16 C



Z1S16 D



Z1S16 T

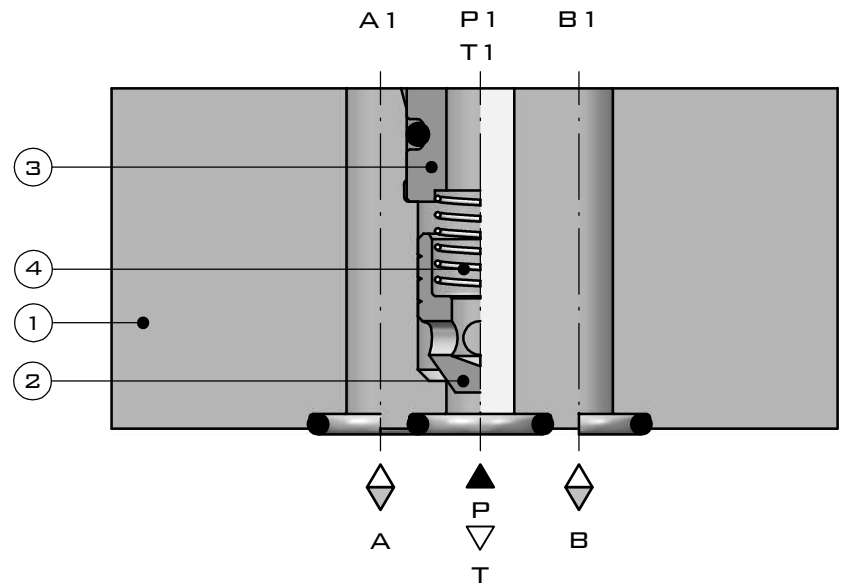
SUBPLATE SIDE

### Z1S16 DESCRIPTION OF OPERATION

Z1S16P-1-30

VALVE SIDE

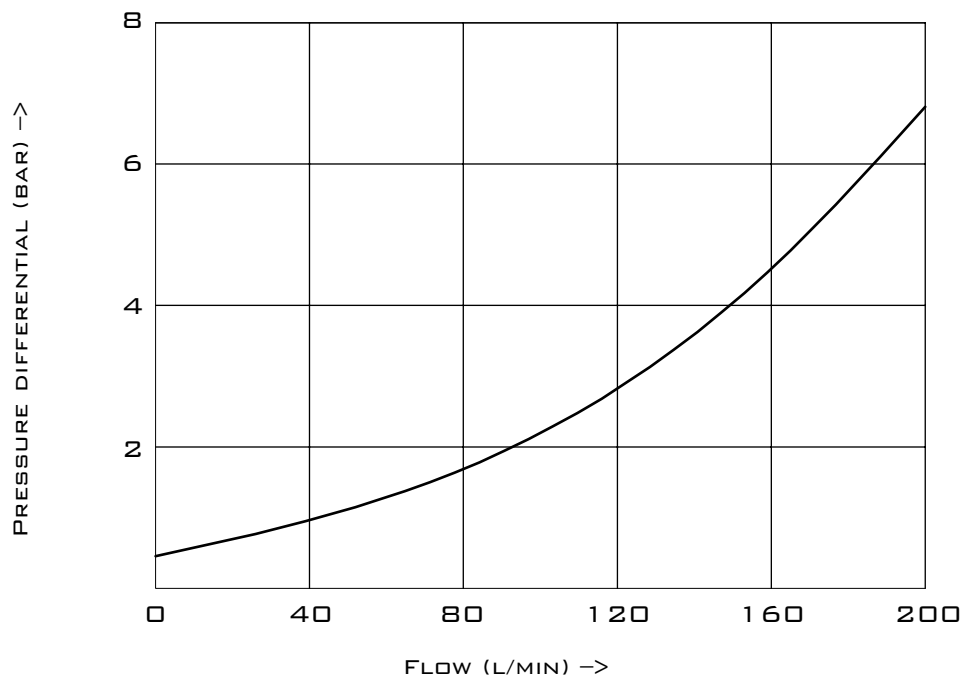
THE SLEEVE 3 WITH THE SEAT FOR THE SPRING 4 IS FITTED IN THE HOUSING 1. THE SPRING PUSHES THE POPPET 2 TO THE EDGE OF PORT P IN THE HOUSING 1. WHEN PRESSURE DIFFERENCE IN PORT P EXCEEDS THE CRACKING PRESSURE DETERMINED BY THE SPRING, THE POPPET WILL MOVE ALLOWING FREE FLOW IN LINE P, A, B, T OR A AND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



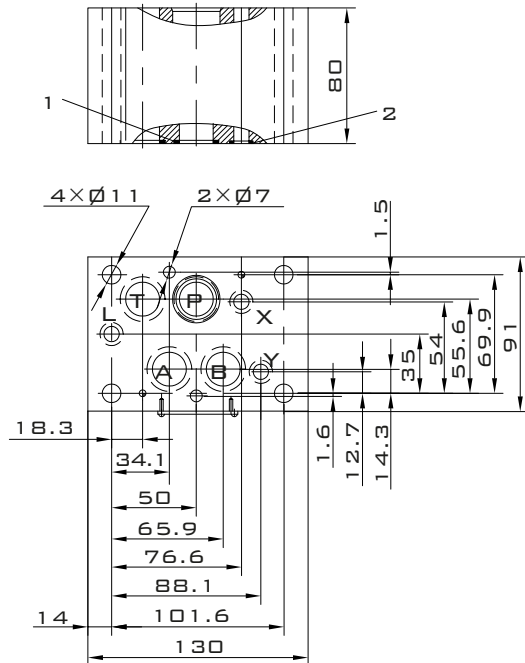
SUBPLATE SIDE

### Z1S16 PERFORMANCE CURVES

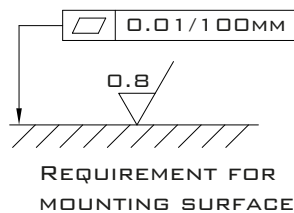
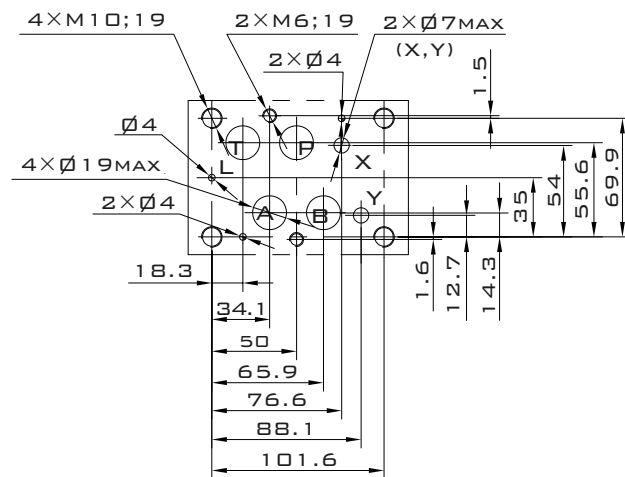
MEASURED AT  $v = 41 \text{ mm}^2/\text{s}$  AND  $T = 50^\circ\text{C}$



## Z1S16 OVERALL DIMENSIONS



- 1 O-RINGS 22X2.5 (PORTS A, B, P, T)
- 2 O-RINGS 10X2 (PORTS X, Y, L)





Z1S16

SANDWICH PLATE

ORDER CODE

Z1S16 - [ ] [ ] [ ] [ ] \*

CHECK VALVE

PORT P

PORT A

PORT B

PORT T

= P

= C

= D

= T

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