



# CHECK VALVE TYPE Z2S6 SANDWICH PLATE, PILOT OPERATED

**WK  
450 360**

Size 6

up to 31.5 MPa

50 dm<sup>3</sup>/min

04.1999r.

Pilot operated double check valve type Z2S6 serves to shut-off an oil flow in one direction and allow free flow in the opposite direction. They can also be opened in the direction of closure.

These valves are mostly used :

- to relieve a working circuit under pressure
- to prevent a load from falling in the case of a line rupture
- to prevent creep movements of hydraulically stressed users.

These valves are generally fitted as an intermediate element between the control valve and the subplate. Sealing of interfaces is provided by o-rings, which are included. The valve can be installed in any position.

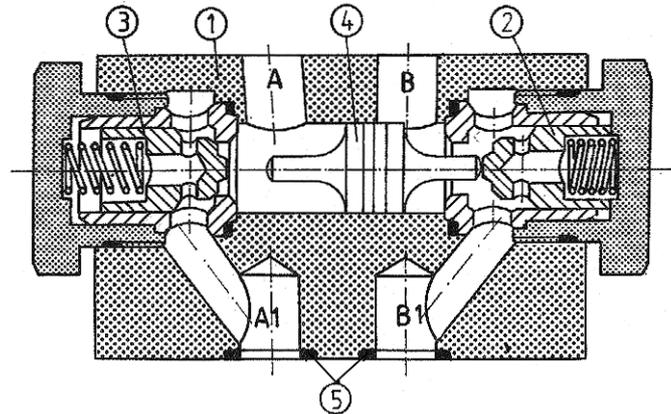


## DESCRIPTION OF OPERATION

Pilot operated double check valve type Z2S6 is obtained by fitting two pilot operated check valves ( 2 ) and ( 3 ) in one housing ( 1 ).

There is free flow from A to A1 or/and B to B1 while flow is blocked from A1 to A and/or B1 to B. When, for example fluid flows through the valve from A to A1, the piston ( 4 ) is shifted to the right and pushes the poppet of the check valve ( 2 ) from its seat. The connection from B1 to B is now open. In the similar way the valve operates in the direction B to B1. Pressure dissipation at ports A or B causes both valves to close.

In order to ensure safe closing of valves both user ports A and B should be connected with a return line.

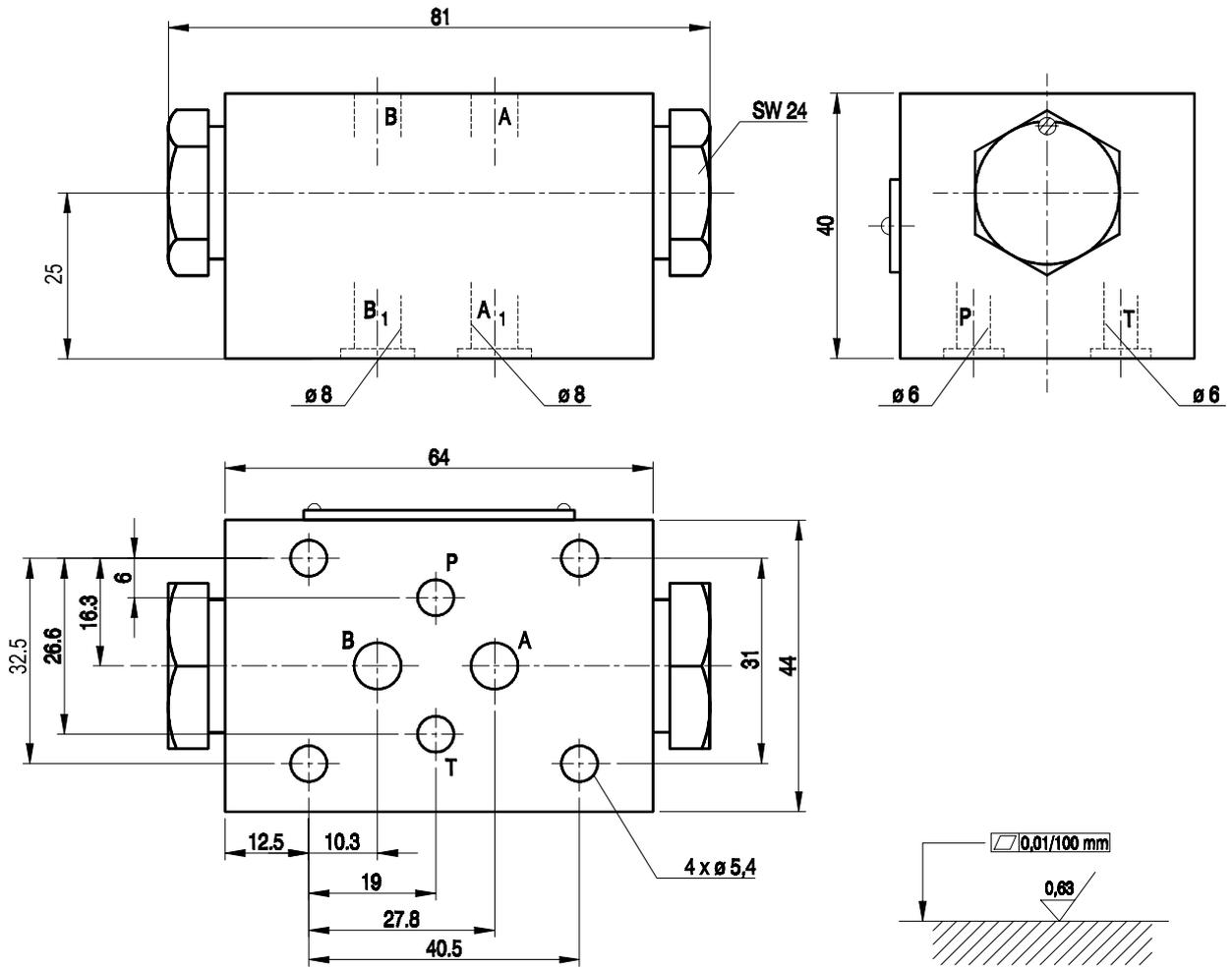


Item 5 - O-ring 9.2 x 1.8 - 4 piece

## TECHNICAL DATA

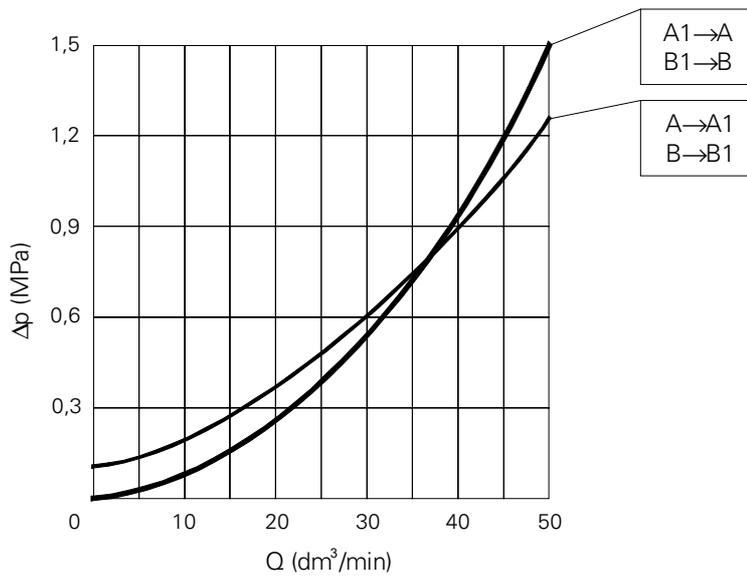
Hydraulic fluid	Mineral oil or phosphate ester
Nominal fluid viscosity	37 mm <sup>2</sup> /s at the temperature of 328 K
Viscosity range	2,8 to 380 mm <sup>2</sup> /s
Optimum working temperature ( fluid in a tank )	313 - 328 K
Fluid temperature range	253 - 343 K
Maximum working pressure	31,5 MPa
Cracking pressure	0,10 MPa
Area ratio ( valve surface / piston surface )	1 : 2,98
Weight	0,8 kg

# OVERALL DIMENSIONS

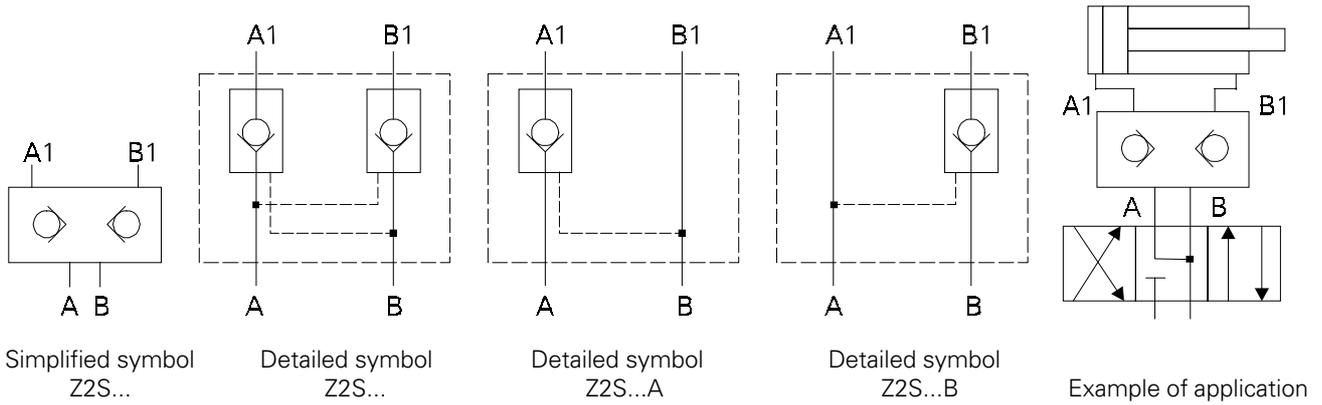


Admissible surface roughness and flatness deviation for a subplate face.

# PERFORMANCE CURVES, measured at $v = 41 \text{ mm}^2/\text{s}$ and $T = 323 \text{ K}$



# SCHEMES



## HOW TO ORDER

Orders coded in the way showed below should be forwarded to the manufacturer.



Version	
	with two valves = -
	with one valve at port A = A
	with one valve at port B = B

Additional requirements in clear text  
( to be agreed with the manufacturer )

Series number	= 40
40	
(40 - 49) - installation and connection dimensions unchanged	

Sealing  
Fluids on mineral oil base = no designation  
Fluids on phosphate ester base = V

Coding example : Z2S6 - 40



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