

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.

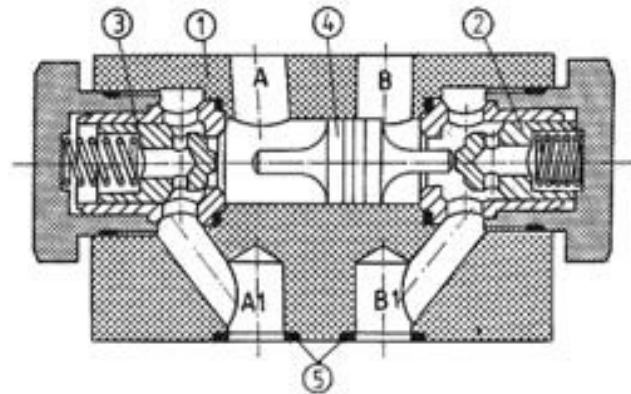


DESCRIPTION OF OPERATION

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.

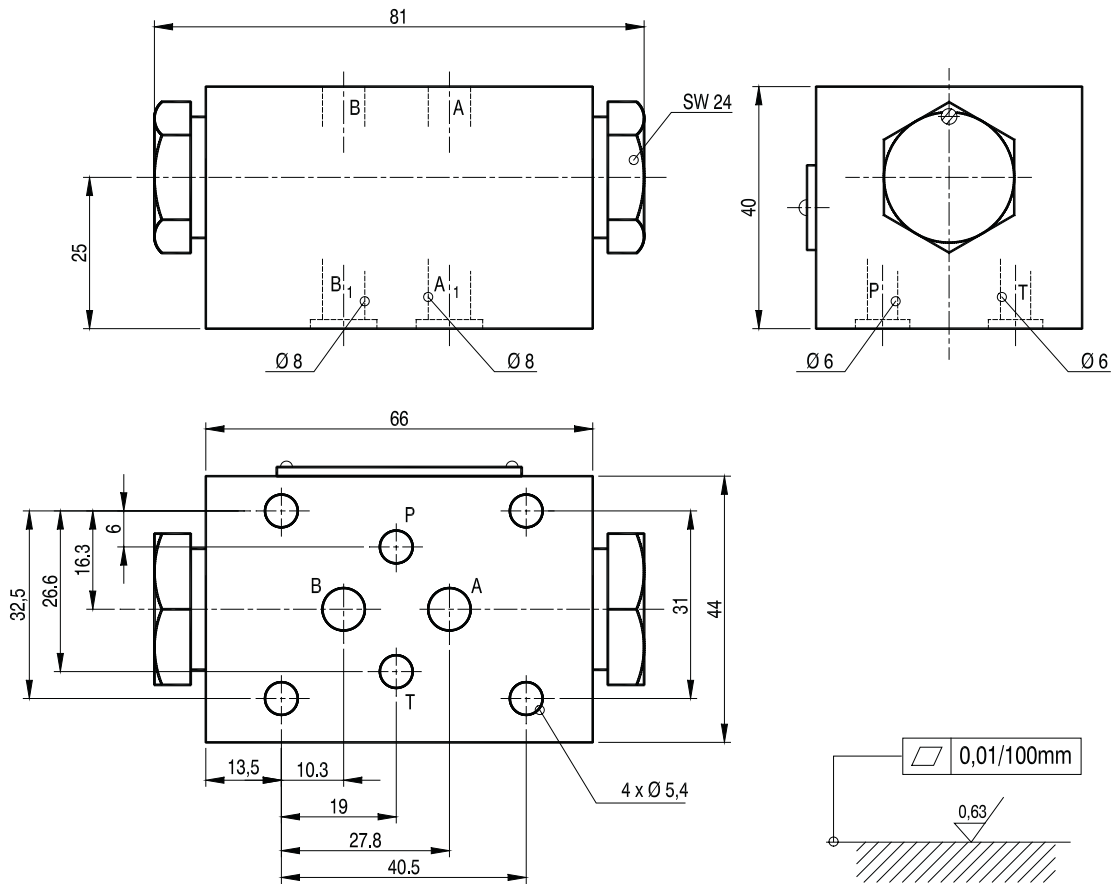


Item 5 - O-ring 9.2 x 1.8 - 4 piece

TECHNICAL DATA

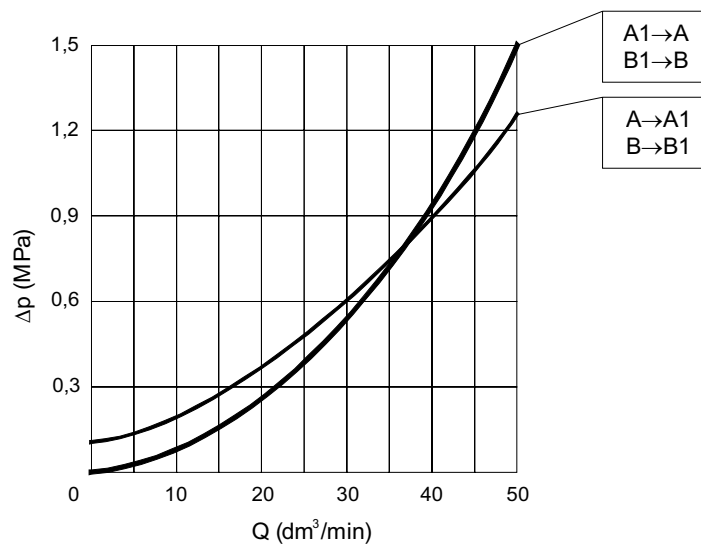
Hydraulic fluid	Mineral oil or phosphate ester
Nominal fluid viscosity	37 mm ² /s at the temperature of 328 K
Viscosity range	2,8 to 380 mm ² /s
Optimum working temperature (fluid in a tank)	313 - 328 K
Fluid temperature range	253 - 343 K
Maximum working pressure	31,5 MPa
Cracking pressure	0,10 MPa
Area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

OVERALL DIMENSIONS

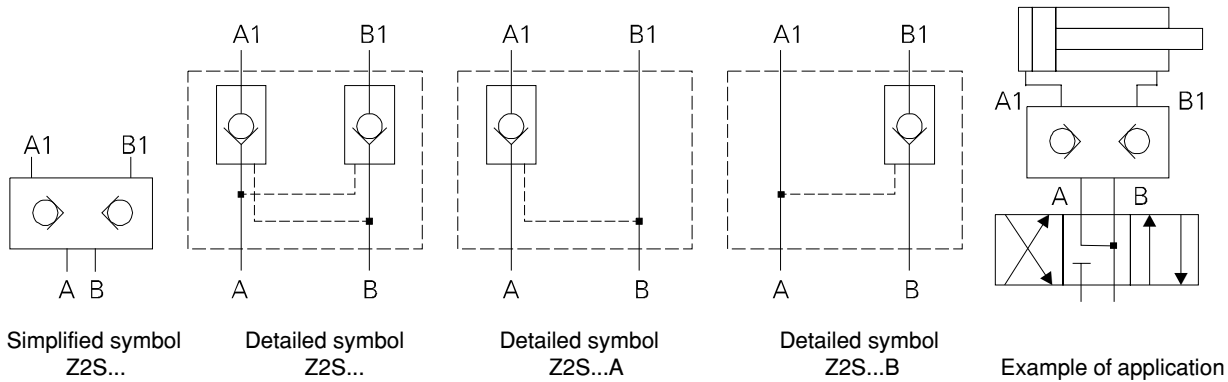


Admissible surface roughness and flatness deviation for a subplate face.

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.

Z2S6 — — / *									
<table border="1"> <thead> <tr> <th colspan="2">Version</th> </tr> </thead> <tbody> <tr> <td> </td> <td>with two valves = -</td> </tr> <tr> <td> </td> <td>with one valve at port A = A</td> </tr> <tr> <td> </td> <td>with one valve at port B = B</td> </tr> </tbody> </table>	Version			with two valves = -		with one valve at port A = A		with one valve at port B = B	<div style="border: 1px solid black; height: 150px; margin-top: 10px;"></div> <p>Additional requirements in clear text (to be agreed with the manufacturer)</p>
Version									
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Coding example : Z2S6 - 40