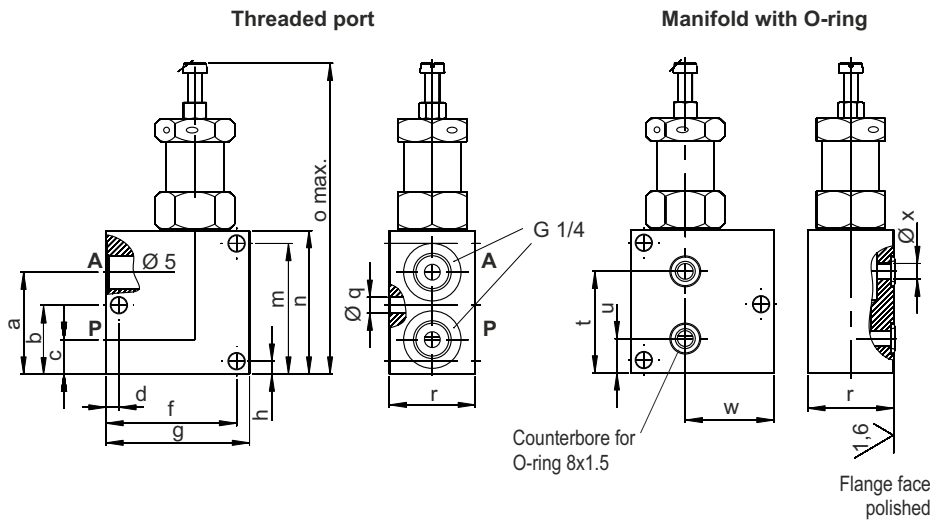
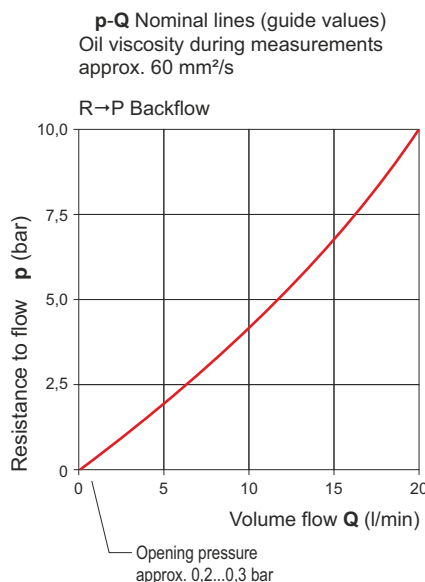
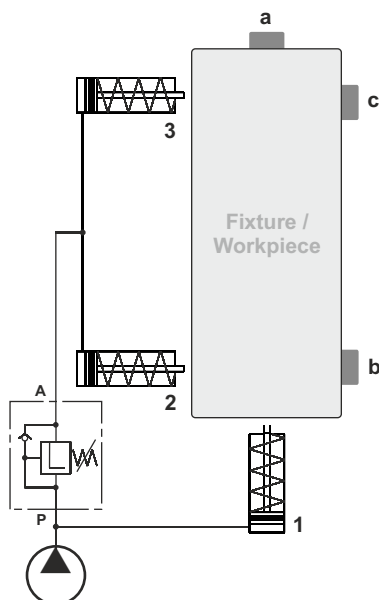


SEQUENCE VALVES

nominal diameter 5, pmax. 500 bar

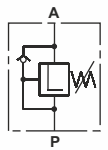


Type	Directly-controlled sequence valve		
Type of connection		threaded port	manifold
Max. operation pressure	[bar]	500	500
Max. volume flow	[l/min]	30	30
Adjusting range	[bar]	0-500	0-500
Pressure change/U	[bar]	100	100
a	[mm]	35,5	-
b	[mm]	24	24
c	[mm]	12	-
d	[mm]	4,5	4,5
f	[mm]	45,5	45,5
g	[mm]	50	50
h	[mm]	4,5	4,5
m	[mm]	45,5	45,5
n	[mm]	50	50
o	[mm]	110	110
q Ø	[mm]	5,5	5,5
r	[mm]	30	30
t	[mm]	-	35,5
u	[mm]	-	12
w	[mm]	-	31
x Ø	[mm]	-	5
Weight approx.	[kg]	0,63	0,63
Order no.		ZSV-500-5-001	ZSV-500-5-002



Webcode: 070001

Other designs
are available
on request



Description:

Sequence valves are applied as directly-controlled sequence valve in hydraulic clamping systems.

The compact design of the sequence valves enables space-saving installation directly into the fixture.

Inlet pressure and outlet pressure are always identical at sequence valves. This is what makes this valve type ideal for use in sequence controls.

Single-acting cylinders only require one feed line from the pressure generator for operation. (for example see data sheet 430-1)

The design allows valve combinations which can be flanged with the help of a joint P-connection and standard components to a block.

Advantages:

- Space-saving installation options
- Quick assembly via flange
- Ideal for pressure sequence control
- Operation with one feed line possible
- Valve combinations possible

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Sequence valves / Valve combinations

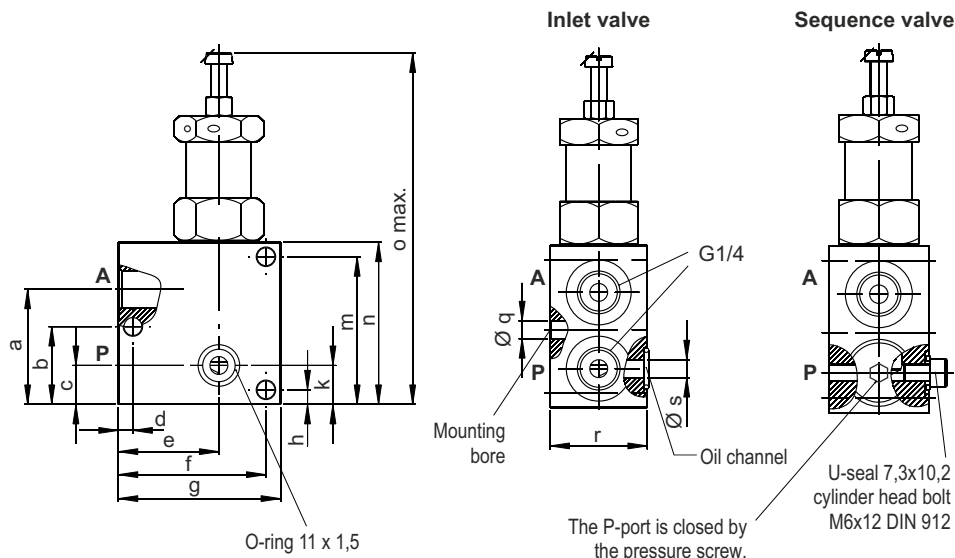
Valve combinations:

Combinations of sequence valves are mounted with one in-valve (P) and a maximum of four flanged-on sequence valves. Bore holes provide them with hydraulic oil. O-rings function as sealings between the valve housings.

Inlet and outlet pressure are always identical for sequence valves. This makes this type of valve ideal for sequence control application.

Pressure medium:

Hydraulic oil according to DIN 51524 Tl.1 to 3; ISO VG 10 to 68 according to DIN 51519



Accessories (optional):

Part name:	Order no.:
Threaded rods:	
M5x072 (for 2 valves)	7005-024
M5x102 (for 2 valves)	7005-025
M5x132 (for 2 valves)	7005-026
M5x162 (for 2 valves)	7005-027
Sealings:	
O-ring 8x1,5	6011-002
O-ring 11x1,5	6011-008
U-seal 7,3x10,2	6006-003
Screw:	
Cylinder head screw M6x12, DIN 912	7006-012

Valve type		Inlet valve	Sequence valve
Connection		manifold with O-ring	manifold with O-ring
Max. operation pressure	[bar]	500	500
Max. volume flow	[l/min]	30	30
Adjusting range	[bar]	0-500	0-500
Pressure change per 1/min	[bar]	100	100
a	[mm]	35,5	35,5
b	[mm]	24	24
c	[mm]	12	12
d	[mm]	4,5	4,5
e	[mm]	31	31
f	[mm]	45,5	45,5
g	[mm]	50	50
h	[mm]	4,5	4,5
k	[mm]	12	12
m	[mm]	45,5	45,5
n	[mm]	50	50
o max.	[mm]	110	110
q Ø	[mm]	5,5	-
r	[mm]	30	30
s Ø	[mm]	5	5
Weight approx.	[kg]	0,63	0,63
Order no.		ZSV-500-5-003	ZSV-500-5-004

Scope of supply includes screw plugs, hexagon nuts and sealing rings.

Application example:

The drawing symbolizes a clamping fixture the way it can be used in production. Once the pressure is applied the single-acting cylinder [1] is protracted.

Once the opening pressure is acquired the inlet valve [A1] opens and activates the swing clamp [2].

The support element [A2] clamps the support piston once the opening pressure in the sequence valve [A2] is acquired.

Sequence valve [A3] activates the swing clamp [4] to complete the clamping process.

When releasing the device, the hydraulic oil flows back to the pressure generator through the integrated non-return valves.

