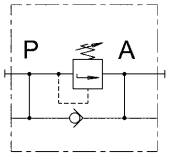
No. 6918

Sequence Valve

6918-3 for O-ring connection,
6918-12 for O-ring connection,
6918-4 connection combination (pipeline),
6918-5 connection combination (pipeline).
Static overload capacity ~1.5xp max.



Order no.	Article no.	min. operating pressure [bar]	max. operating pressure [bar]	Q [l/min]	Direction of flow	Ambient temp. [°C]	Viscosity [cSt]	OR-1 O-ring Order No.	Weight [g]
66100	6918-3	30	500	20	P-A	-40 - +80	10-500	173096	750
326983	6918-12	16	160	20	P-A	-40 - +80	10-500	173096	750
320135	6918-4	30	500	20	P-A	-40 - +80	10-500	173096	750
320143	6918-5	30	500	20	P-A	-40 - +80	10-500	173096	750

Design:

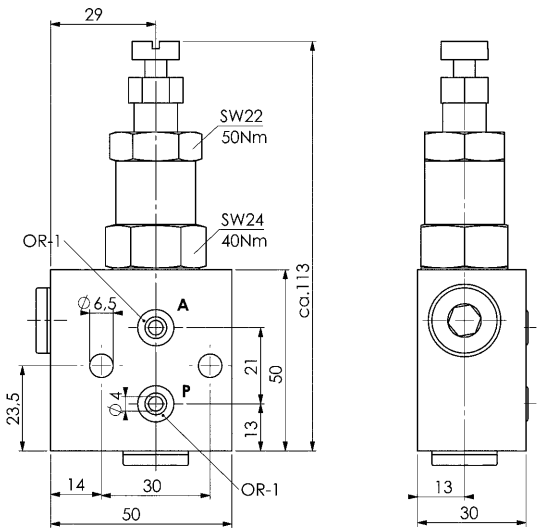
Steel body, nitrided. Sealing nut galvanized. All functional components hardened and ground. For sequence valve 6918-3 and 6918-12, the oil is supplied via conduits drilled in the clamping device. The following valves are required for combining several sequence valves:
6918-3 inlet valve
6918-4 series valve
6918-5 end-of-line valve
The oil is supplied via a threaded connection.

Application:

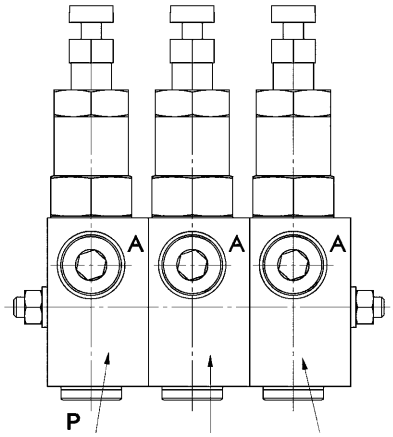
The pressure sequence valve is used in cases where another consumer is connected to the circuit after a set pressure has been reached. If several sequence valves are employed in the circuit, please note that the pressure in this circuit always adjusts to the last pressure stage.
For this type, the switching pressure remains largely constant, regardless of the outflow pressure on the outlet side (cylinder side).

Note:

During disassembly of the pressure control valve, first loosen SW 24 then SW 22. Installation is carried out in reverse order with the specified tightening torque. Increasing the preload of the compression spring by turning the slotted screw results in a greater pressure difference between P and A. The fastening bolts are not supplied as standard.



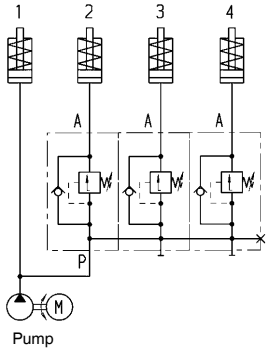
Application example:



CAD

Hydraulic diagram:

Preferably perform sequential control in parallel.



Subject to technical alterations.

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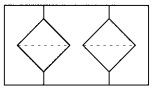
No. 6918F

Filter plate



NEW!

CAD

Order no.	Article no.	max. pressure range [bar]	Filteration [µm]	OR-1 O-ring Order No.	Weight [g]
562093	6918F-100	400	100	466334	65

Design:

Filter plate and filter sleeve made of aluminium, surfaces black anodised. Filter plates made of metal mesh.

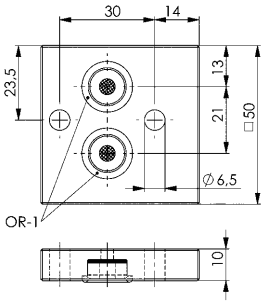
Application:

Used to protect the sequential valve 6918-3 and 6918-12 from contamination in clamping devices.

Note:

If a finer strainer is required, this can be easily replaced. The finer the filter selected, the greater the flow resistance.

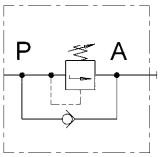
Replacement filter:
Filter, plug-in design 25 µm, order no. 562203
Filter, plug-in design 40 µm, order no. 562204
Filter, plug-in design 100 µm, order no. 562205



No. 6918

Sequence Valve

for pipeline connection.
Static overload capacity ~1.5xp max.



Order no.	Article no.	min. operating pressure [bar]	max. operating pressure [bar]	Q [l/min]	Direction of flow	Ambient temp. [°C]	Viscosity [cSt]	Weight [g]
325068	6918-6	8	80	20	P-A	-40 - +80	10-500	750
326306	6918-11	16	160	20	P-A	-40 - +80	10-500	750
60517	6918-2	30	500	20	P-A	-40 - +80	10-500	750

Design:

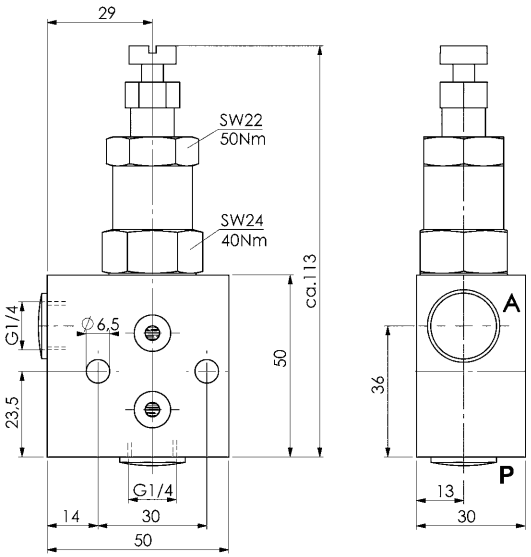
Steel body, nitrided. Sealing nut galvanized. All functional components hardened and ground. Oil supply via threaded port.

Application:

The pressure sequence valve is used in cases where another consumer is connected to the circuit after a set pressure has been reached. If several sequence valves are employed in the circuit, please note that the pressure in this circuit always adjusts to the last pressure stage.
For this type, the switching pressure remains largely constant, regardless of the outflow pressure on the outlet side (cylinder side).

Note:

For disassembly of the pressure valve please release first SW (AF) 24, then SW 22. For assembly please use reverse sequence and observe max. seating torque. The pressure difference between P and A depends on the preload of the adjustment spring.



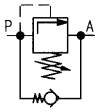
Subject to technical alterations.

No. 6918-XX-XXX

CAD

Sequence valve, threaded design

Max. operating pressure 350 bar.



NEW!

Order no.	Article no.	Setting pressure set at factory [bar]	Setting range at A [bar]	L max.	B	C	dia. E	F	G	SW	SW1	SW2	Md max. [Nm]	Md 1 max. [Nm]	Q max. [l/min]	Weight [g]
562224	6918-30-50	50	20 - 60	28,0	15,16	20,3	17,5	5,6	G1/8	16	14	4	16	7	3,8	37
562225	6918-30-100	100	35 - 150	28,0	15,16	20,3	17,5	5,6	G1/8	16	14	4	16	7	3,8	37
562226	6918-30-200	200	125 - 275	31,7	15,16	24,0	17,5	5,6	G1/8	16	14	4	16	7	3,8	45
562227	6918-40-50	50	20 - 55	34,5	18,72	27,4	21,0	5,0	G1/4	19	17	4	27	7	3,8	68
562228	6918-40-100	100	35 - 150	34,5	18,72	27,4	21,0	5,0	G1/4	19	17	4	27	7	3,8	72
562229	6918-40-200	200	125 - 275	31,8	18,72	24,6	21,0	5,0	G1/4	19	17	4	27	7	3,8	72

Design:

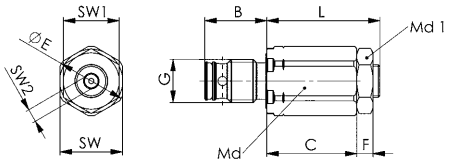
Housing from steel, hardened and burnished.

Application:

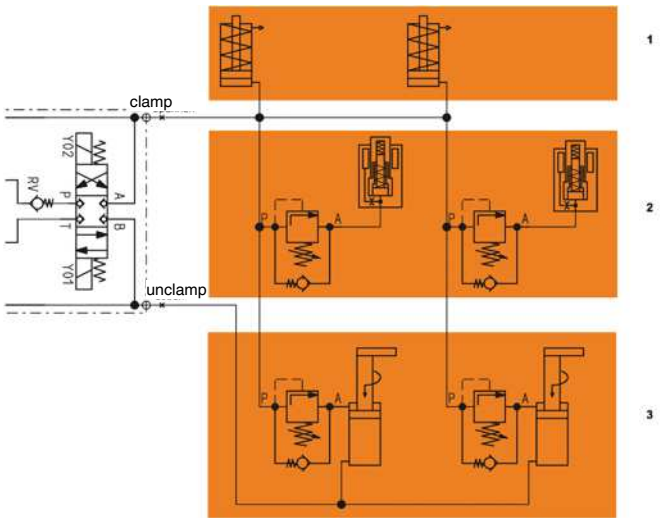
The sequence valve is used in cases where another consumer is connected to the circuit after a set pressure has been reached. The sequence valve ensures a controlled clamping sequence. Once a defined pressure is reached, another hydraulic circuit is opened.

Note:

The sequence valve can be screwed directly into the threaded connection for the swing clamp top flange and base flange types 6951KP, 6951FP, 6941KP and link clamp 6942KK. The oil must be supplied via the O-ring connection. The sequence valve can be screwed directly into fixtures as well.



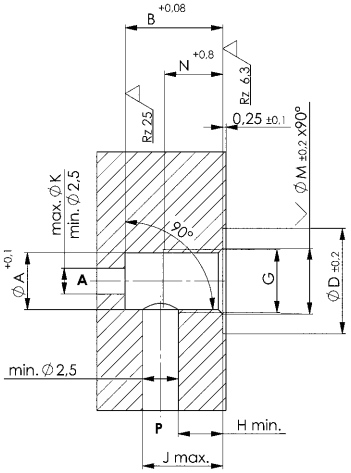
Hydraulic diagram:



Clamping sequence
1. Single-acting cylinder
2. Support element
3. Swing clamp

Installation dimensions:

Order no.	Article no.	dia. A	B +0.08	dia. D	G	H min.	J max.	K max.	dia. M	N
562224	6918-30-50	8,8	15,16	16,5	G1/8	6	12,83	7	9,9	8,5
562225	6918-30-100	8,8	15,16	16,5	G1/8	6	12,83	7	9,9	8,5
562226	6918-30-200	8,8	15,16	16,5	G1/8	6	12,83	7	9,9	8,5
562227	6918-40-50	11,9	18,72	21,5	G1/4	10	16,39	10	13,3	12,5
562228	6918-40-100	11,9	18,72	21,5	G1/4	10	16,39	10	13,3	12,5
562229	6918-40-200	11,9	18,72	21,5	G1/4	10	16,39	10	13,3	12,5



Subject to technical alterations.

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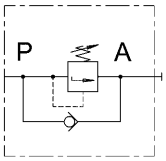
No. 6918

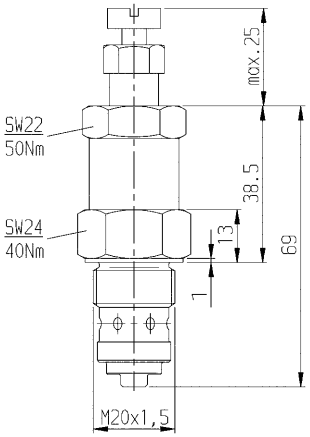
Sequence Valve

cartridge flange
Possible statically overload ~1,5xp max.

CAD

Order no.	Article no.	min. operating pressure [bar]	max. operating pressure [bar]	Q [l/min]	Direction of flow	Ambient temp. [°C]	Viscosity [cSt]	Weight [g]
408401	6918-2-02-03	8	80	20	P-A	-40 - +80	10-500	150
325118	6918-2-02-04	16	160	20	P-A	-40 - +80	10-500	150
320366	6918-2-02-02	30	500	20	P-A	-40 - +80	10-500	150





Design:

Steel housing, nitrided. Sealing nut galvanized. All functional components hardened and ground. Balls out of roller bearing steel.

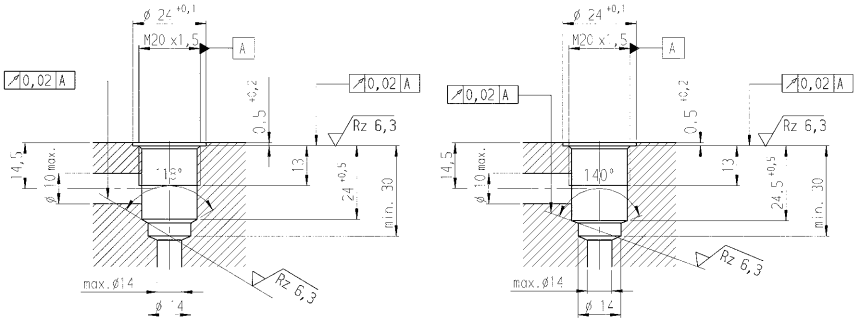
Application:

The pressure sequence valve is used where another hydraulic system or another consumer should be activated after achieving a specified pressure. If a curcuit is designed with several sequence valves, it must be observed that the pressure in this circuit is always adhisted in the last respective pressure stage. The switching pressure for this type, irrespective of the pressure on the output side (consumer side) remains largely constant.

Note:

For disassembly of the pressure valve please release first SW (AF) 24, then SW 22. For assembly please use reverse sequence and observe max. seating torque. The pressure difference between P and A depends on the preload of the adjustment spring.

Installation dimensions:

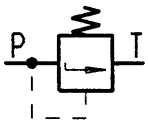


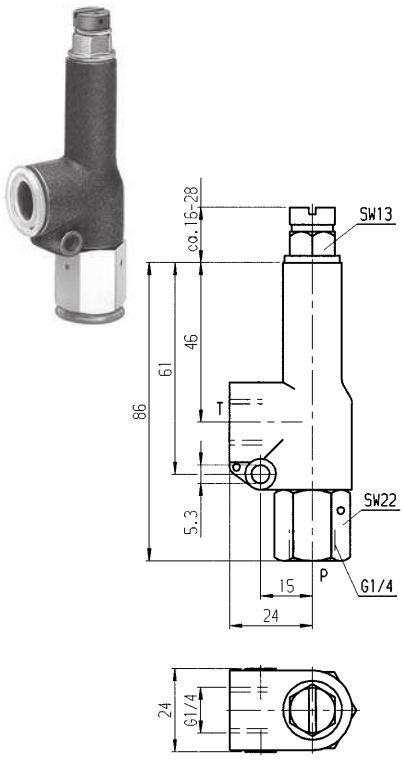
No. 6918-10

Pressure Relief Valve

for pipeline installation

Order no.	Article no.	min. operating pressure [bar]	max. operating pressure [bar]	max. pressure in T [bar]	Q [l/min]	Ambient temp. [°C]	Viscosity [cSt]	Weight [g]
288225	6918-10-001	30	160	20	20	-40 - +80	10-500	200
65375	6918-10	100	500	500	20	-40 - +80	10-500	200





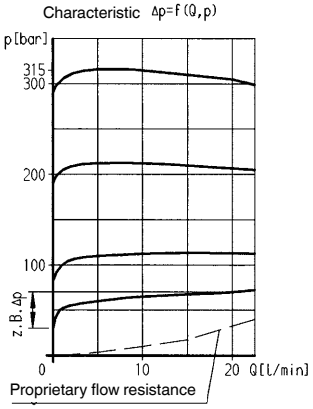
Design:

For 6918-10-001 housing made of zinc, for 6918-10 housing made of ductile iron.
Control piston made of steel, hardened. Can be sealed on setting spindle.

Application:

The pressure relief valve is used to protect against exceeding the maximum permissible pressure for the system (safety valve) or to limit operating pressures. Once the set pressure is reached, the valve opens, the excess liquid in the system flows back into the tank via the T line of the pressure relief valve. The pressure relief valve is not suitable for the protection of pressure equipment as defined by the PED 97/23 / EC.

Diagram:



Subject to technical alterations.