



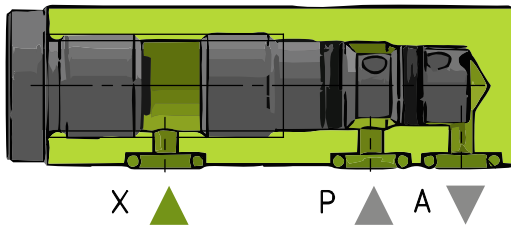
Advantages:

- ✓ Various connecting options
- ✓ Usable for high temperatures
- ✓ For oil-hydraulic, water und air
- ✓ Completely sealed
- ✓ Also repeatedly mountable



Description

Operating principle



These pilot operated check valves are available in a screw-in (G1/4) and manifold mounting (flange) version.

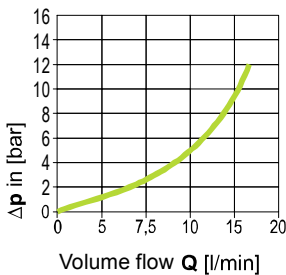
The valves block against the screw-in direction (A->P). What means, when the pressurization is aborded, the set pressure in the channel A is maintained.

With pilot pressure at X, the valve can be opened against the reverse direction and the media return from A->P is guaranteed.

Data

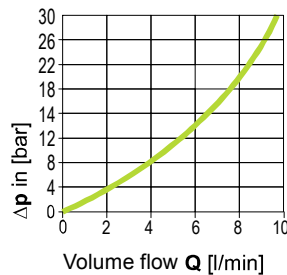
Pressure drop Hydraulic Oil

Δp -characteristic



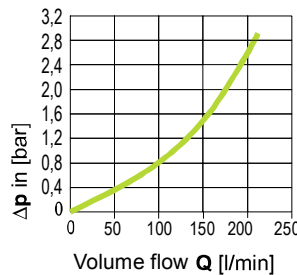
Pressure drop Hydraulic Water

Δp -characteristic



Pressure drop Hydraulic Air

Δp -characteristic



- 1 Single valve for installation into a pre-made insert contour.
- 2 Valve with body off Stainless steel and G3/8 threaded connections.
- 3 Valve with steel body and O-ring/flange connection for drilled channels.

Properties

Opening ratio	1:6
Max. volume flow hydraulic oil	14 l/min
Max. volume flow air	250 l/min
Max. volume flow water	30 l/min
Mounting position	any
Temperature area	-30°C bis +80°C
Closing direction	A -> P
Min. cracking pressure	1,2 bar
Min. working pressure	4,0 bar
Max. working pressure	230 bar
Nominal diameter	ND 2

Generally:

The installation dimensions and tolerances must be observed.

The maximum permissible flow rates should not be exceeded.

The maximum pressure should not be exceeded even with pressure peaks. This is especially necessary for sudden load in the direction of flow e. g. in accumulator circuits.

More information at the last page of the data sheet.

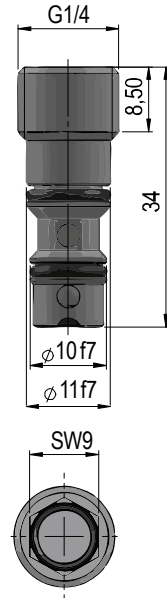
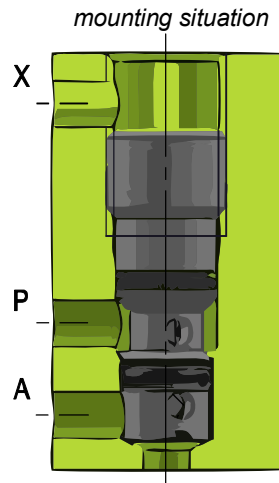
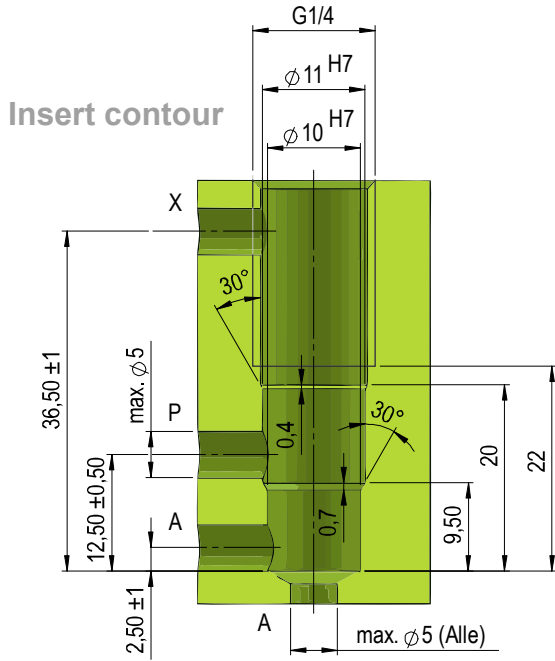
Contact

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Details

Screw-In type



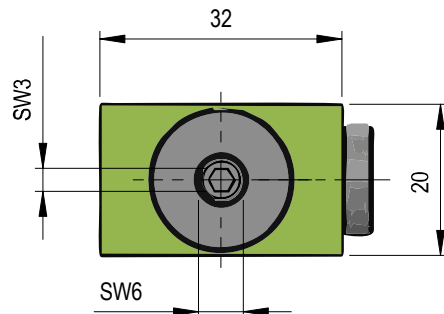
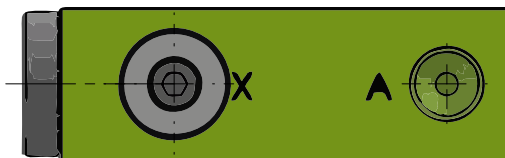
Part number:
IPV14-002

Single valve for installation into a pre-made insert contour.



Bohrung „A“ wahlweise seitlich oder axial.

Thread type

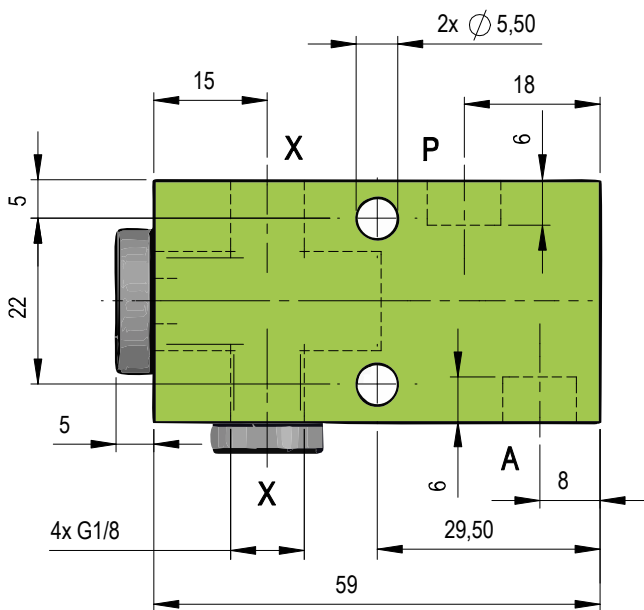


Part number:
IPV14-006

Valve with body off Stainless steel and G3/8 threaded connections.



Mounting screws are not included!



Notes:

All components made of stainless steel with FKM seals. Therefore also suitable for water and up to 200°C. Any X connection can be used. SW3 can be used for venting and ventilation. Also applies to IPV14-002.

Details

O-Ring/Flange type

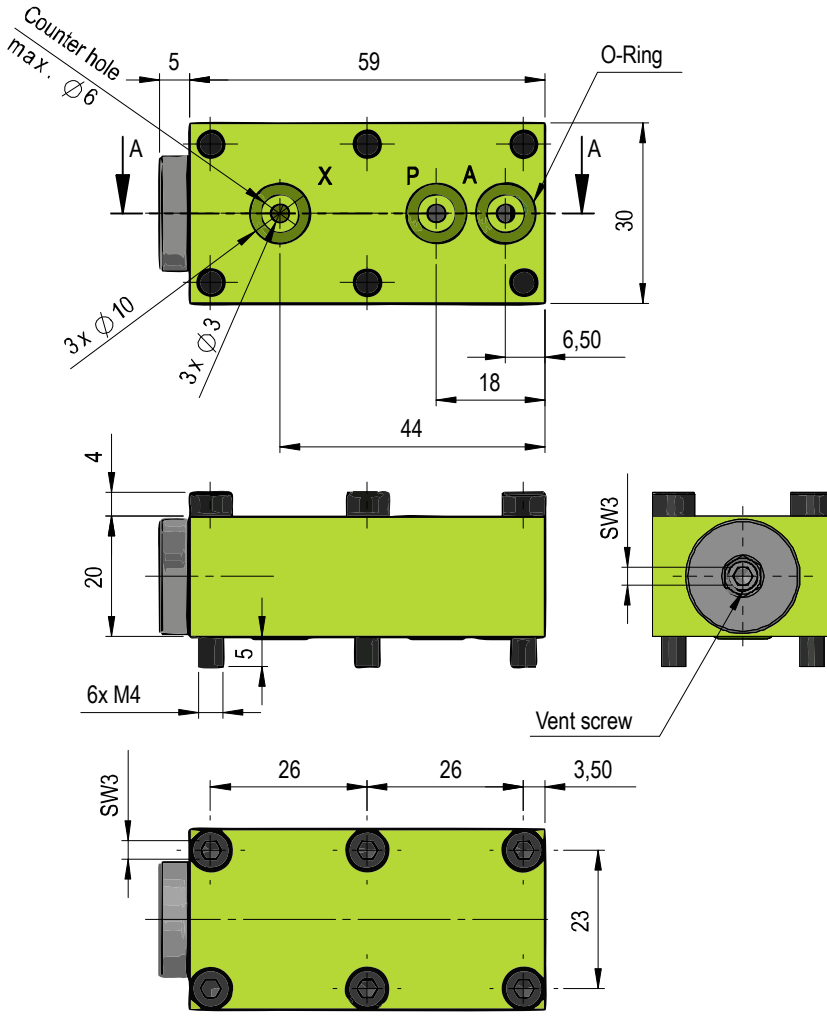
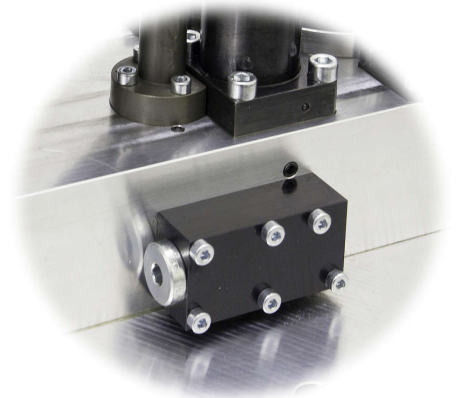
Part number:
IPV14-003

Valve with steel body and O-ring/flange connection for drilled channels.



Screws and O-Rings are included!

Application example



More information

Hydraulically piloted check valves belong to the blocking valve group. They shut off one or both hydraulic consumer lines or serve as a hydraulically actuated drain valve or circulation valve.

These valves have no pre-relief. What can result in pressure surges when the valve is unlocked/opened.

To avoid relaxation strokes, which can occur in large, pressurized consumer volumes when the sudden unlocking can occur, depending on the use case, it is advisable to throttle the unlock (X) port. This can be done by a throttle plate or nozzle, or other suitable measures. As a result, the system pressure at "A" is initially slowly reduced.



The left example shows a special solution a valve with screw thread M10x1

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