ARGO-HYTOS Protech

Press Control Blocks acc. to EN 693

We produce fluid power **solutions**

Press Control Blocks acc. to EN 693
Distinctiveness

- Functional connection of blocks in accordance with EN 693 – forming presses:
  - controlled lowering and locking of a slide by means of the hydraulically operated valve;
  - protection of a slide hydraulic cylinder against pressure overloading (pressure multipling) by means of the pressure valve;
  - locking of the slide and simultaneous unload of pressure energy input to the slide hydraulic cylinder by means of the directional valve with electrical signalization of spool end positions;
  - the directional valve with a middle position that closes working lines of the slide hydraulic cylinder and electrical signalization of spool end positions;
  - controlled decompression;
- Functional connection of blocks is typical for operation of the particular press (standard connection, differential connection, connection with a filling valve) and selected pressure source (invariable single and double pump, variable displacement pump);
- Blocks are mainly used for control of a slide movement. Control blocks can be also extended by control of other press functions;
- Pressure control blocks are standardly equipped with valves produced by the Argo-Hytos company or with valves according to customer requirements.

Press Control Blocks acc. to EN 693

Main strong points - advantages

- Compact technical solution designed for maximal operation parameters of adequate size;
- Possibility of simple extension by additional functions of slide movement control (velocity control, slide locking, accessories for presses with springs in tools);
- Possibility of simple extension by control of other press functions (slide locking, shedder, holder etc.);
- Effort to constantly improve and modify technical solutions so that all kinds of requirements for a pressing cycle are taken into account;
- Making use of high technical erudition and flexibility in fulfillment of customer technical demands;
- Possibility of blocks delivery as articles of commerce;
- Possibility of blocks delivery as part of a complete hydraulic drive of the press;
- Better price for comparable custom-built technical solutions as against other competitors.

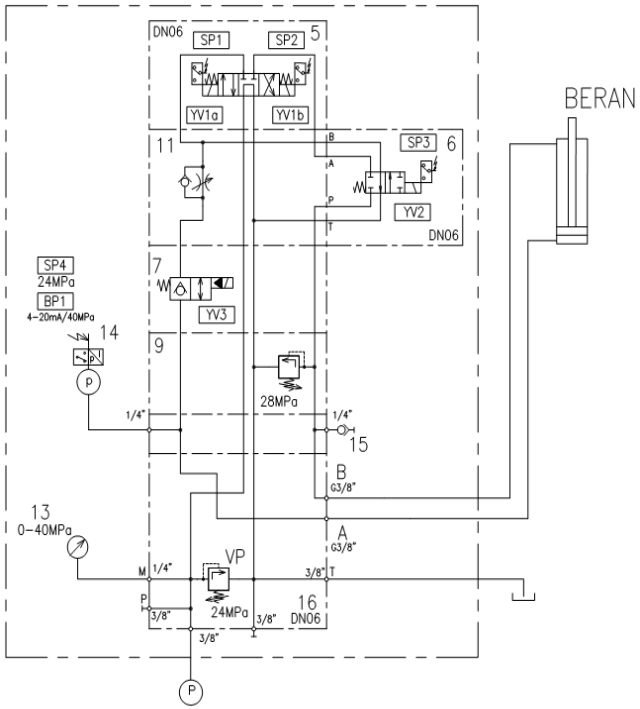
Press Control Blocks acc. to EN 693
DN06, standard connection

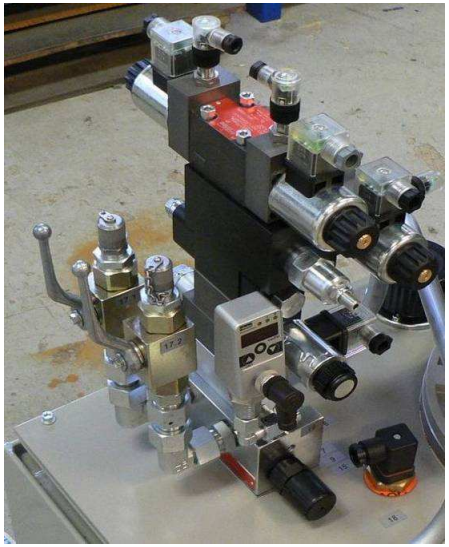
- ***DN06, standard connection, 32 MPa, 60 l/min***
- ***A drive of the press – lower / alternatively upper***
- ***Design:***
  - vertical stacking assemblies of valve sandwich plates;
  - set of valves (directional valves) according to customer requirements (standard – the Argo-Hytos company).
- ***Additional equipment:***
  - differential connection;
  - the electromagnetically controlled valve for press locking in the closed state;
  - control of working velocity by means of sandwich throttle valves under the directional valve;
  - the throttle valve for controlled slide lowering and decompression.
- ***Applications:***
  - forming presses;
  - trimming presses;
  - curing presses.

Press Control Blocks acc. to EN 693

DN06 with standard connection,

Press control block DN06 with standard connection, with electromagnetically controlled lock of press:





Press Control Blocks acc. to EN 693

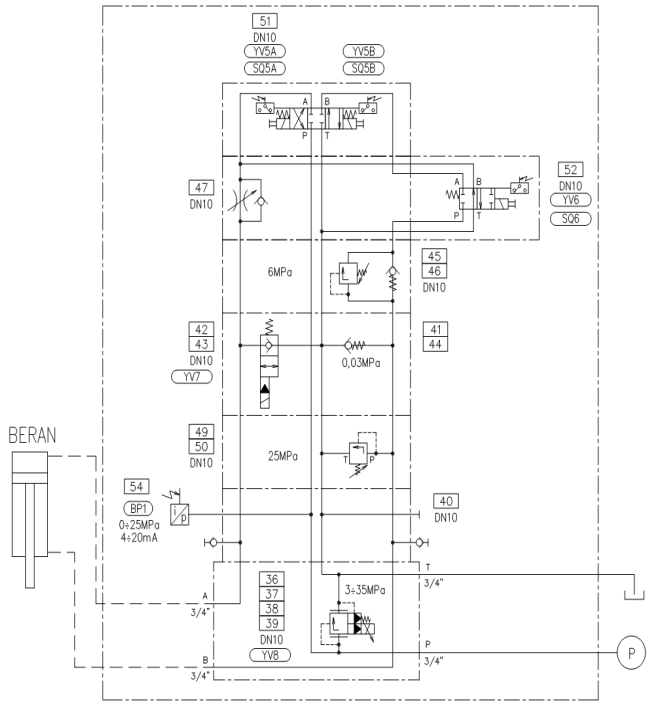
DN10, standard connection

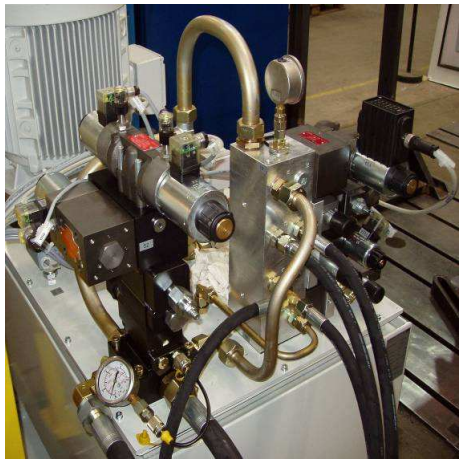
- ***DN10, standard connection, 32 MPa, 80 l/min***
- ***A drive of the press – lower / alternatively upper***
- ***Design:***
  - vertical stacking assemblies of valve sandwich plates;
  - set of valves (directional valves) according to customer requirements (standard – the Argo-Hytos company).
- ***Additional equipment:***
  - differential connection;
  - control of working velocity by means of sandwich throttle valves under the directional valve;
  - a throttle valve for decompression (usable also for presses with gas springs in tools)
  - a sandwich plate with an electromagnetically controlled valve for fast slide lifting and a check valve for suction of the slide hydraulic cylinder annulus side (when the press is equipped by gas springs in tools).
- ***Applications:***
  - forming presses;
  - trimming presses;
  - curing presses.

Press Control Blocks acc. to EN 693

DN06 with standard connection,

Press control block DN10 with standard connection, with accessories for tool with gas springs:





Press Control Blocks acc. to EN 693

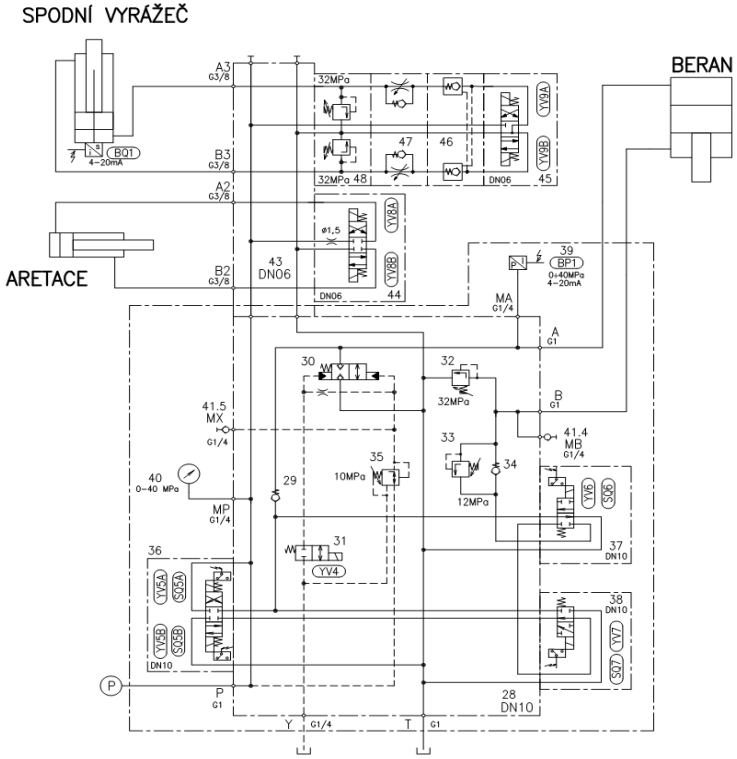
DN10, differential connection

- ***DN10, differential connection, 32 MPa, 120 l/min***
- ***A drive of the press –upper***
- ***Design:***
  - controlled decompression (high-flow unload of the slide hydraulic cylinder piston side) and a check valve for press locking in the closed state;
  - a hydraulic manifold produced by the Hytos PROTECH company
  - the pattern PD06 for an in-line manifold DN06 produced by the Argo-Hytos company;
  - set of valves (directional valves) according to customer requirements (standard – the Argo-Hytos company).
- ***Additional equipment:***
  - control of working velocity by means of sandwich throttle valves under the directional valve;
  - set of valves for other press functions (locking, shedder etc.).
- ***Applications:***
  - forming presses;
  - curing presses.

Press Control Blocks acc. to EN 693

DN10, differential connection

Press control block DN10 with differential connection, with functions of lower shedder and locking:



Press Control Blocks acc. to EN 693

DN10, with a filling valve

- ***DN10, with a filling valve, 32 MPa, 120 l/min***
- ***A drive of the press –upper***
- ***Design:***
  - a hydraulic manifold produced by the HYTOS PROTECH company;
  - the pattern DN10 for operation of a press shedder with the possibility of integrating a proportional valve for holding force control;
  - the pattern PD06 for an in-line manifold DN06 produced by the Argo-Hytos company (for the filling valve control);
  - set of valves (directional valves) according to customer requirements (standard – the Argo-Hytos company).
- ***Additional equipment:***
  - control of working velocity by means of sandwich throttle valves under the directional valve;
  - set of valves for other press functions (locking, shedder etc.).
- ***Applications:***
  - forming presses;
  - trimming presses.

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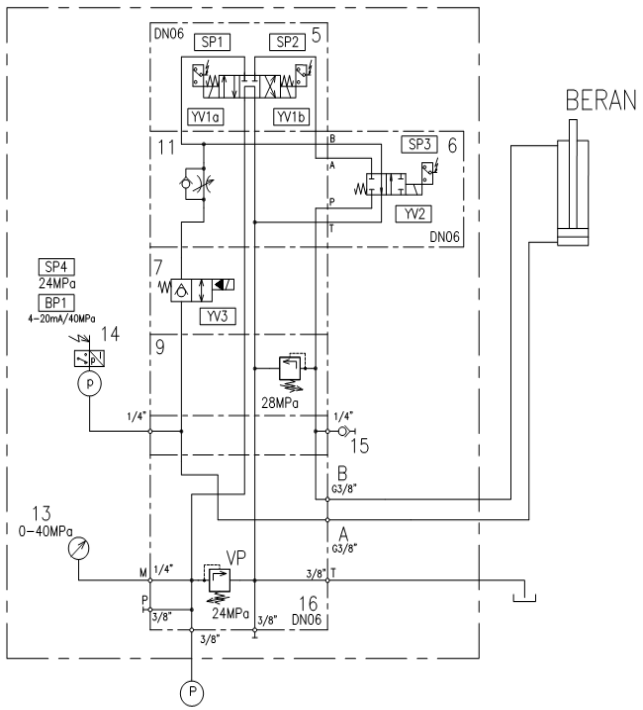
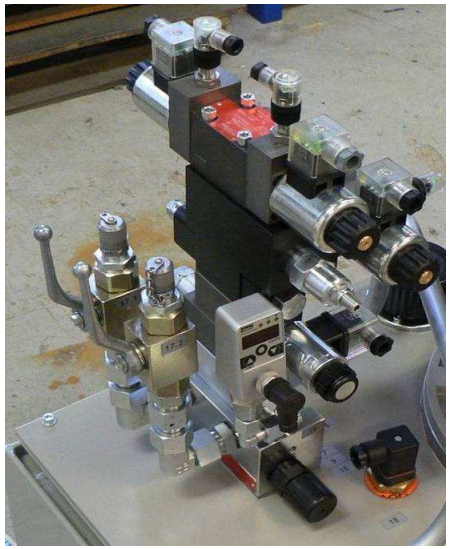
DN10, with a filling valve

Press control block DN10 with filling valve control, with functions of lower shedder and locking:





Press Control Blocks acc. to EN 693

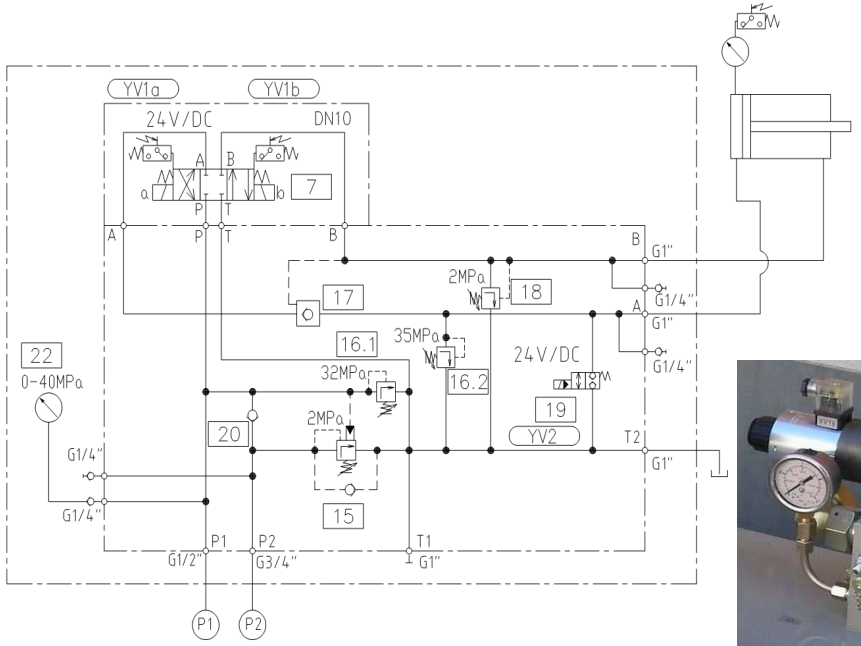
DN10, with standard connection

- ***DN10, with standard connection, 32 MPa, 120 l/min***
- ***A drive of the press –horizontal***
- ***Design:***
  - a hydraulic manifold produced by the HYTOS PROTECH company;
  - a pilot operated check valve for press locking in the closed state and an electromagnetically controlled valve for high-flow unload of the slide hydraulic cylinder piston side during retraction;
  - design for direct connection to a pressure source with high-pressure and low-pressure pumps (Hi/Lo);
  - set of valves (directional valves) according to customer requirements (standard – the Argo-Hytos company).
- ***Additional equipment:***
  - control of working velocity by means of sandwich throttle valves under the directional valve
- ***Applications:***
  - filter presses;
  - curing presses.

Press Control Blocks acc. to EN 693

DN10, with standard connection

Press control block DN10 for horizontal drive of press, equipped with direct connection to Hi/Lo pressure source:



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DN10, with a filling valve

- ***DN16, with a filling valve, 32 MPa, 200 l/min***
- ***A drive of the press –upper***
- ***Design:***
  - a hydraulic manifold produced by the HYTOS PROTECH;
  - the pattern DN16 for operation of a press shedder with the possibility of integrating a proportional valve for holding force control;
  - the pattern PD06 for an in-line manifold DN6 produced by the Argo-Hytos company (for the filling valve control);
  - valves (directional valves) according to customer requirements (standard – the Atos, Parker, Argo-Hytos companies).
- ***Additional equipment:***
  - control of working velocity by means of sandwich throttle valves under the directional valve
  - set of valves for other press function (locking, shedder etc.).
- ***Applications:***
  - trimming presses
  - forming presses.

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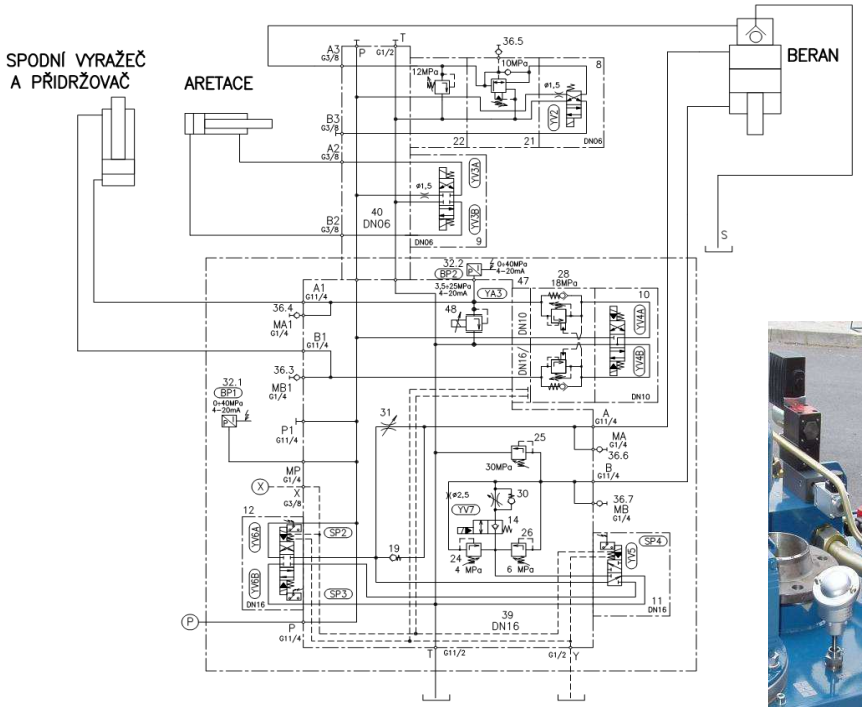
DN10, with a filling valve

Press control block DN16 with filling valve control, with functions of lower shedder/holder and locking:



Press Control Blocks acc. to EN 693

DN16, with a filling valve

- ***DN16, with a filling valve, 32 MPa, 200 l/min***
- ***A drive of the press –upper***
- ***Design:***
  - a hydraulic manifold produced by the HYTOS PROTECH;
  - design for direct connection to a pressure source with high-pressure and low-pressure pumps (Hi/Lo);
  - a check valve for press locking in the closed state;
  - set of valves for the filling valve control and decompression (size DN06);
  - set of valves (directional valves) according to customer requirements (standard – Atos, Parker, Argo-Hytos companies).
- ***Additional equipment:***
  - control of working velocity by means of sandwich throttle valves under the directional valve
- ***Applications:***
  - forming presses;
  - curing presses.

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DN16, with a filling valve

Press control block DN16 with filling valve control, equipped with direct connection to Hi/Lo pressure source:

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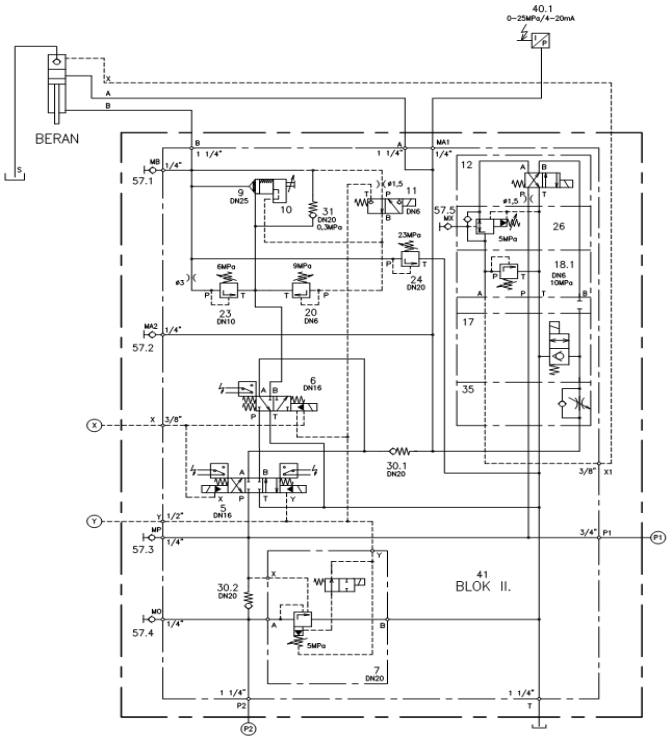

Press Control Blocks acc. to EN 693

DN16, with differential connection

- ***DN16, with differential connection, 32 MPa, 200 l/min***
- ***A drive of the press –upper***
- ***Design:***
  - controlled decompression (high-flow unload of the slide hydraulic cylinder piston side) and a check valve for press locking in the closed state;
  - a hydraulic manifold produced by the HYTOS PROTECH;
  - the pattern PD06 for an in-line manifold DN06 produced by the Argo-Hytos company;
  - set of valves (directional valves) according to customer requirements (standard – Atos, Parker, Argo-Hytos companies).
- ***Additional equipment:***
  - control of working velocity by means of sandwich throttle valves under directional valve;
  - valve equipment for other press functions (locking, shedder etc.).
- ***Applications:***
  - forming presses;
  - curing presses.

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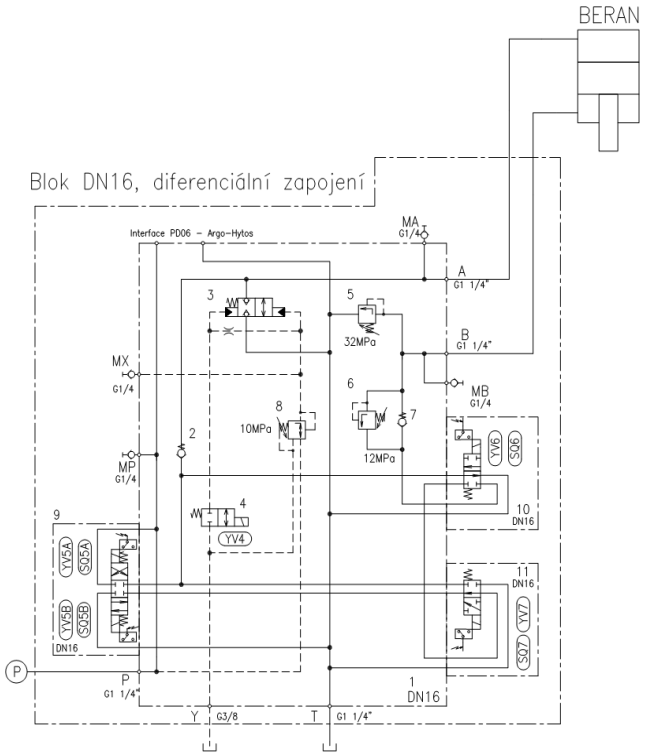
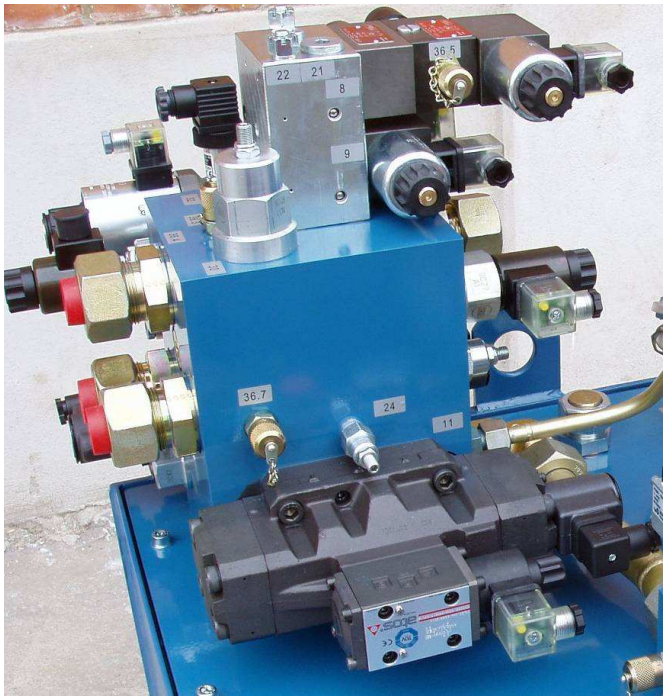
DN16, with differential connection

Press control block DN16 with differential connection





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DN25, with a filling valve

- ***DN25, with a filling valve, 32 MPa, 400 l/min***
- ***A drive of the press –upper***
- ***Design:***
  - a hydraulic manifold produced by the HYTOS PROTECH;
  - design for direct connection to a pressure source with high-pressure and low-pressure pumps (Hi/Lo);
  - a proportional valve DN10 with a pressure compensator for setting of constant working velocity, acceleration and deceleration;
  - set of valves for the filling valve control (size DN06);
  - set of valves (directional valves) according to customer requirements (standard – Atos, Parker, Argo-Hytos companies).
- ***Additional equipment:***
  - control of working velocity by means of sandwich throttle valves under the directional valve;
- ***Applications:***
  - forming presses;
  - curing presses.

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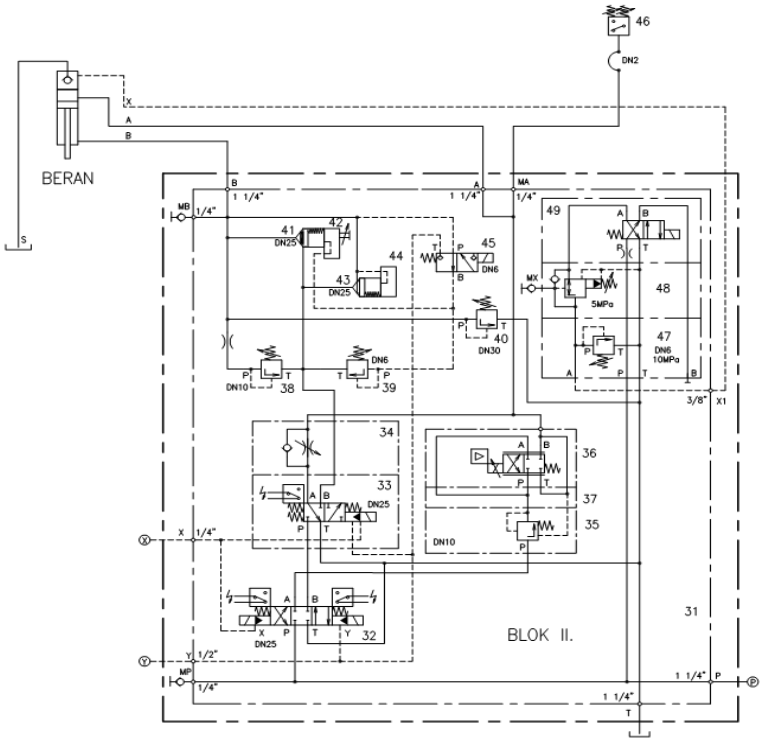
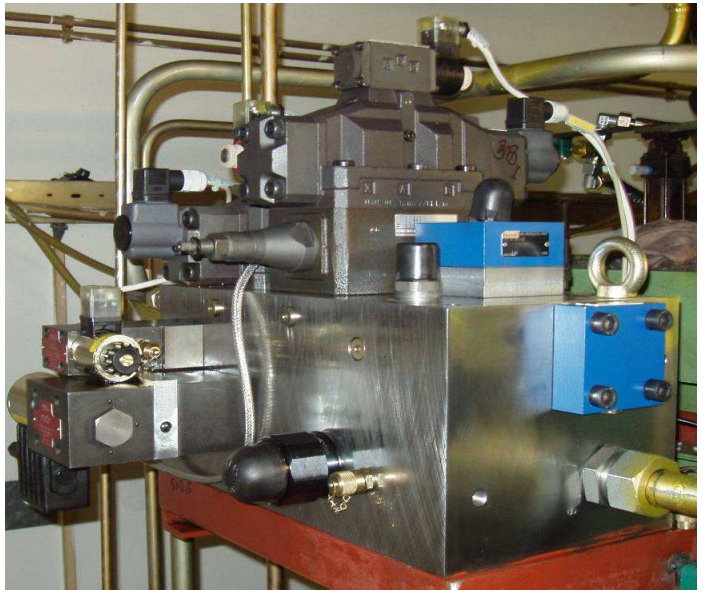
DN25, with a filling valve

Press control block DN25 with filling valve control, with velocity control by proportional valve:



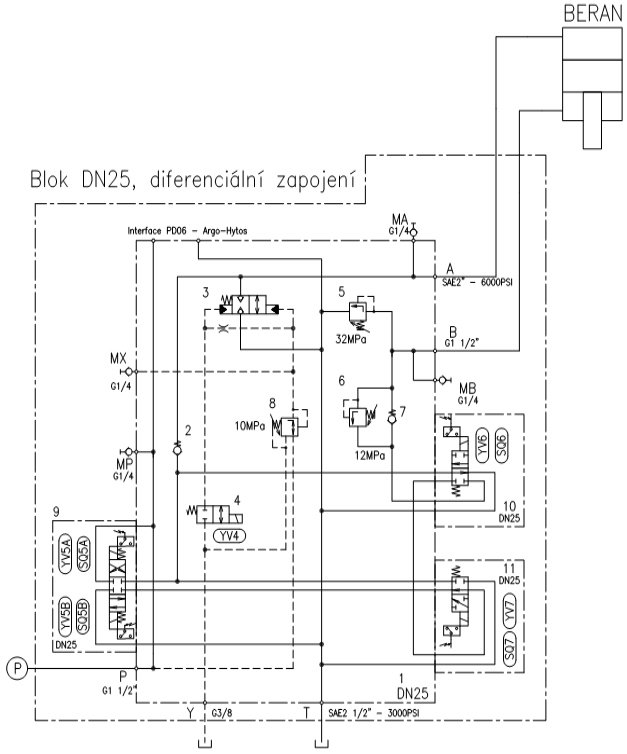


Press Control Blocks acc. to EN 693
DN25, with differential connection

- ***DN25, with differential connection, 32 MPa, 400 l/min***
- ***A drive of the press –upper***
- ***Design:***
  - controlled decompression (high-flow unload of the slide hydraulic cylinder piston side) and a check valve for press locking in the closed state;
  - a hydraulic manifold produced by the HYTOS PROTECH;
  - the pattern PD06 for an in-line manifold DN06 produced by the Argo-Hytos company;
  - set of valves (directional valves) according to customer requirements (standard – Atos, Parker companies).
- ***Additional equipment:***
  - control of working velocity by means of sandwich throttle valves under the directional valve;
  - set of valves for other press functions (locking, shedder etc.).
- ***Applications:***
  - forming presses;
  - curing presses.

Press Control Blocks acc. to EN 693
DN25, with differential connection

Press control block DN25 with differential connection:



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