

Press control blocks

PressPro

Technical information



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What is PressPro?

PressPro are standardized, compact press control blocks for hydraulic press applications, which are realized with conventional directional control valves as well as slip-in cartridge valves. Eaton provides these blocks in the range from size 6 up to 63. Up to size 32 these blocks are realized with conventional directional control valves. Larger blocks are based on the Slip-in cartridge valve principle.

The press control PressPro are developed for forming applications according to DIN EN 693:2011-11. To fulfill and achieve the general safety requirements PressPro control blocks can be implemented or retrofitted in hydraulic presses. PressPro blocks are suitable for presses in free-fall operation or differential cylinders.

BASIC INFORMATION

- Hydraulic downstroke presses
- Size 6 up to size 63
- Max flow 2500 l/min
- Max operating pressure 315/350 bar
- General safety concept according to valid safety requirements
- Additional features can be adopted, depending on the specific application
- Conventional directional control valves with monitoring
- New series of cartridge-valves – higher flow

Standards/Directives:

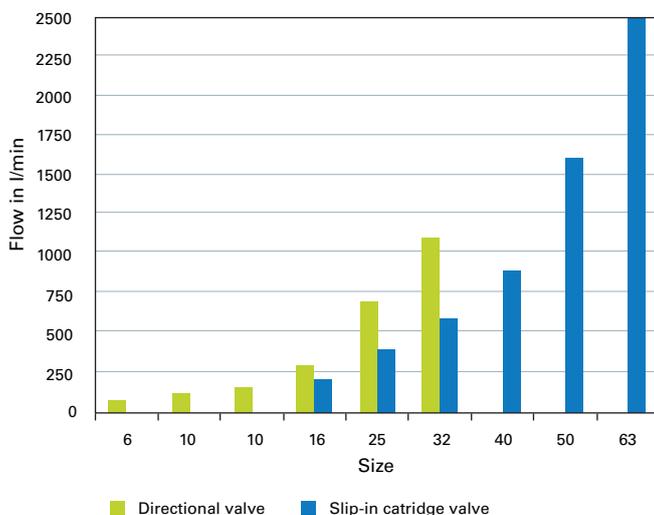
EC Machinery Directive 2006/42/EC

Circuit according to: **DIN EN 693:2011-11** Machine tools - Safety - Hydraulic presses

EN 298:2014-09 Plastics and rubber machines: Presses Safety requirements

EN 13849-1:2016-06 Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design

Max flow per size



Basic functions

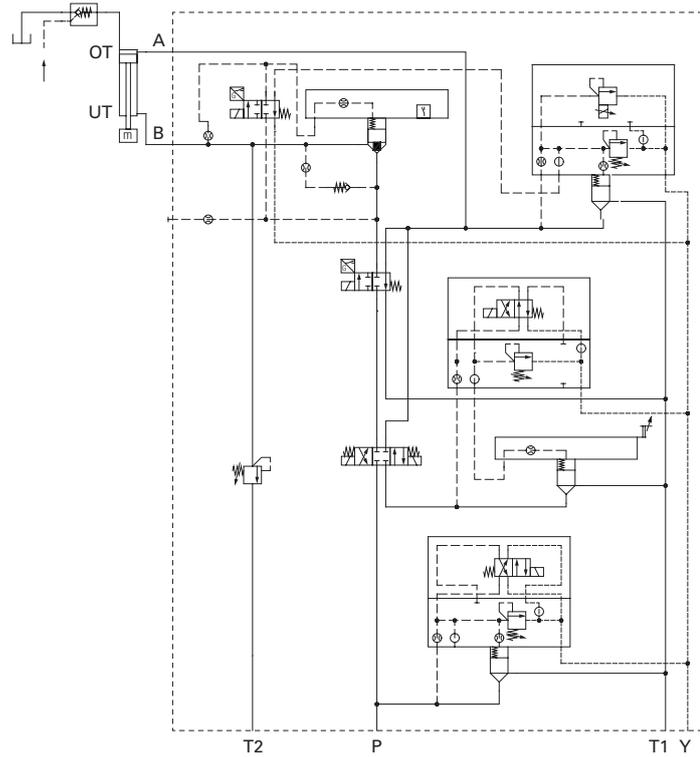
- System protection
- Pressure relief, pump side
- Monitoring of the safety related functions
- Limitation of forming pressure
- Proportional squeeze pressure control
- Differential cylinder control (regenerative cylinder control)
- Directional valve as switch-valve or proportional valve

Features

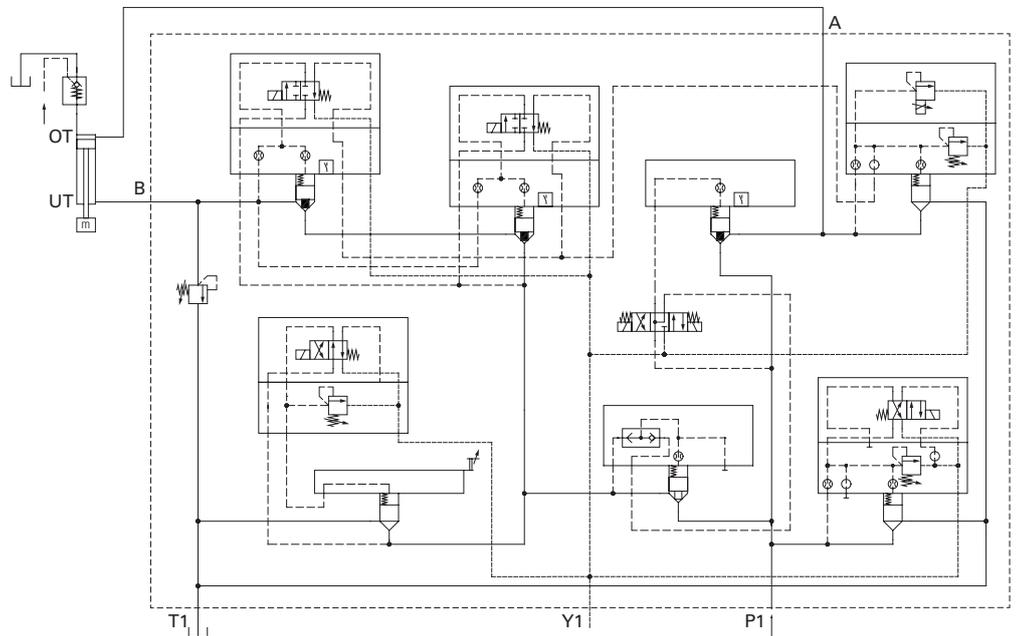
- Freefall or differential cylinder
- Set-up mode
- Proportional control of forming pressure
- Accumulator integration
- Regenerative mode
- Additional functions in consultation

The following circuits represent two examples of the PressPro control. Up to size 32 conventional 4-3 directional valves are implemented for the directional function. For higher flow slip-in cartridge valves fulfill that function. For all PressPro control blocks the safety concept is identical, but can be extended by secondary functions depending on the specific application.

Example: PressPro up to size 32 (directional valve)



Example: PressPro up to size 63 (cartridge valves)



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