

Pump safety block Type PAB, PABW, PABE

Nominal sizes 16, 25, 32

Max. flow 300 L/min

Max. operating pressure 350 bar



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Features

In order to protect pumps from exceeding the maximum allowed pressure, pressure relief valves are used, which are mounted in the pressure hose directly after the outflow.

Flange-valves contribute to operational safety and reduce mounting costs. Therefore we offer pressure valves, which are directly mounted on top of the pump housing with the help of SAE-connections, thus acting as flange-valves. For this reason a higher safety level for the pump can be guaranteed and pipework is reduced. The operational pressure can be limited directly at the pump.

Our pump safety block of type PAB can be used with fixed displacement pumps or variable displacement pumps. The pilot operated pressure relief valve can be unloaded solenoid-operated and the pump can switch to unpressurized circulation or switch to a second or third pressure stage. By using a proportional valve as pilot valve the pressure can be regulated stageless below the maximum operating pressure.

The pump safety block basically consists of a valve block and a built-in pilot operated pressure relief valve. Moreover a pressure switch and/or a manometer can be connected to the pump safety block

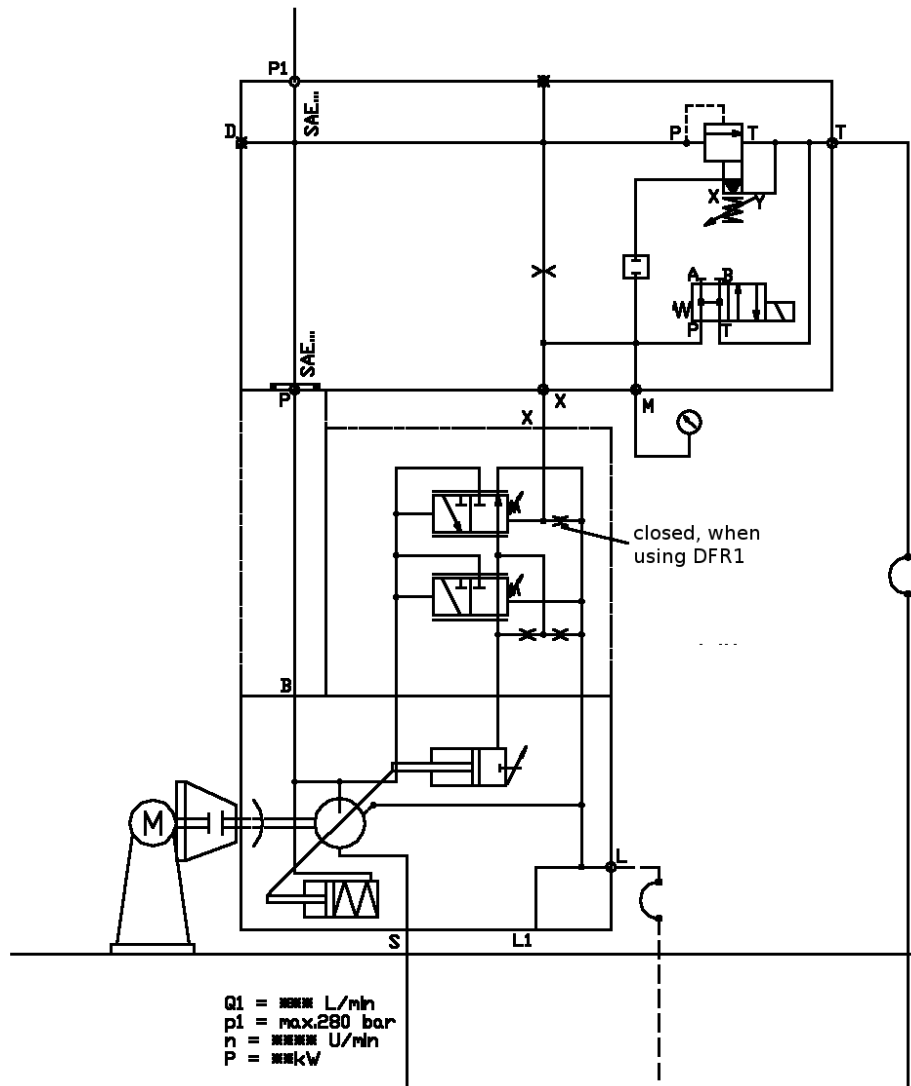
Particular advantages of the PAB pump safety block are achieved when using variable displacement pumps. The following functions for example can be achieved with a pump of type (M)A10V(S)O:

- Pressure limitation – maximum pressure 10% above the operational pressure or adjusted pressure level of the pressure controller
- Zero pressure start-up of the pump – so-called Stand-By mode
- Switching on additional pressures below the adjusted pressure of the pressure controller
- By using a proportional pressure relief valve a change of pressure at the controlling connection "X" can be achieved, which acts on the pressure controller of the pump. The pressure adjustment at the proportional pressure relief valve is valid up to the adjusted level of the pressure controller

Technical data

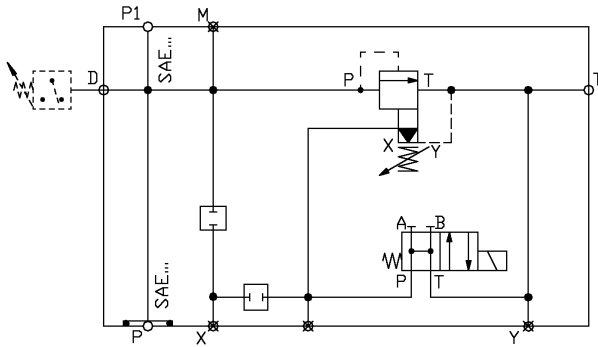
Mouting position	optional		
Ambient temperature range	Without directional valve	With mounted directional valve	
NBR-sealings	-30 to +80 °C	-30 to +50 °C	
FKM-sealings	-15 to +80 °C	-15 to +50 °C	
Max. operational pressure, Connection P	350 bar		
Max. back pressure Connection T	PBA	PBA...A, PBA...B	PBA...DE
	250	210	Unpressurized towards the tank
Max. settable pressure	50, 100, 200, 305 bar		
Max. flow	300 L/min		
Pressure fluid	Mineral oil (HL, HLP) Fast bio-degradable pressure fluids according to VDMA 24 568		
Pressure fluid temperature range	-30 to +80 °C (with NBR-sealings) -15 to +80 °C (with FKM-sealings)		
Viscosity range	10 to 800 mm ² /s		
Cleanliness class to ISO-Code	Max permissible level of fluid contamination to ISO 4406 (C) class 20/18/15		

Use Case



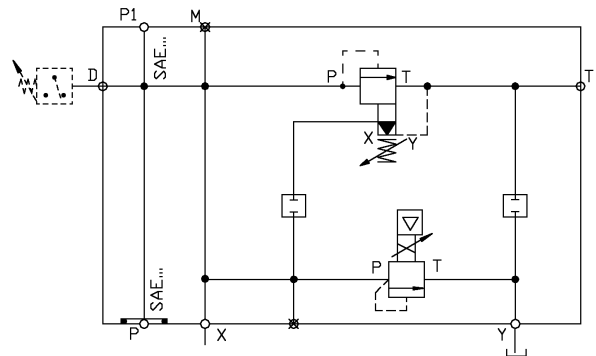
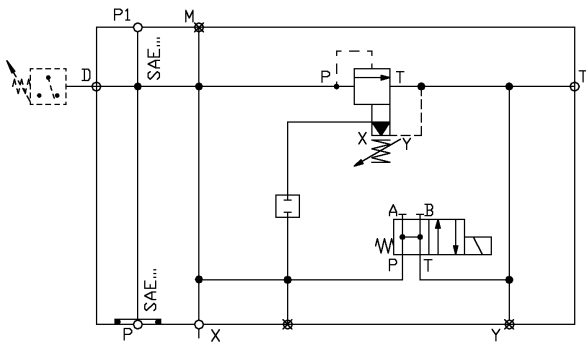
Symbols

For fixed displacement pumps

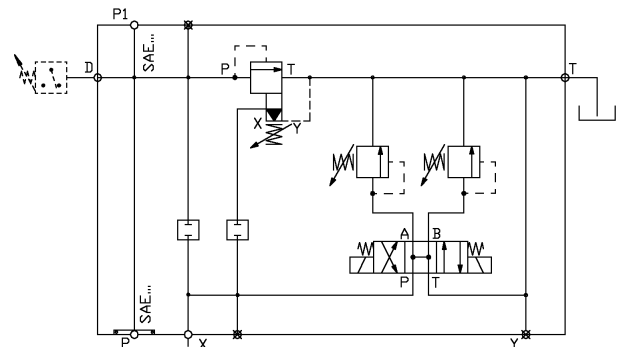
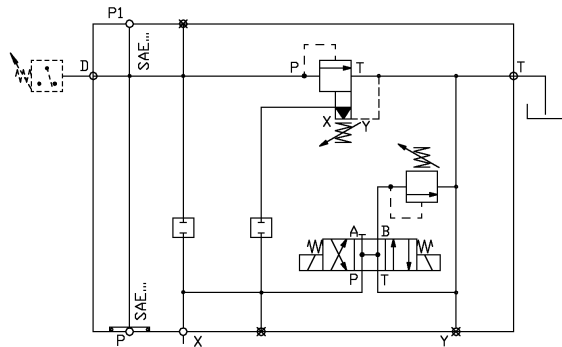


For variable displacement pump,

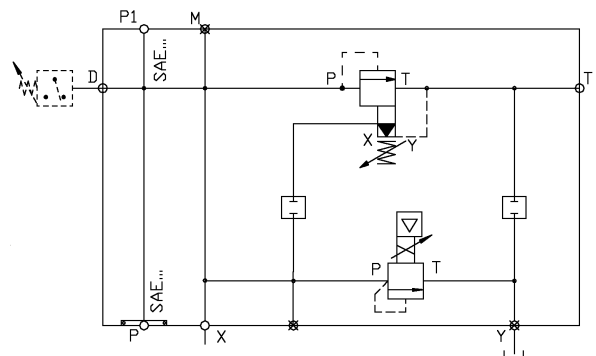
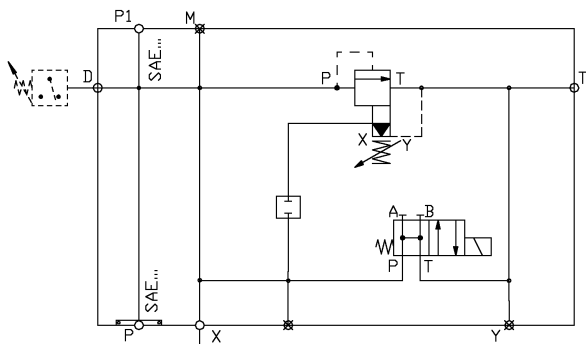
for example MA10VSO with DFR1 pressure controller



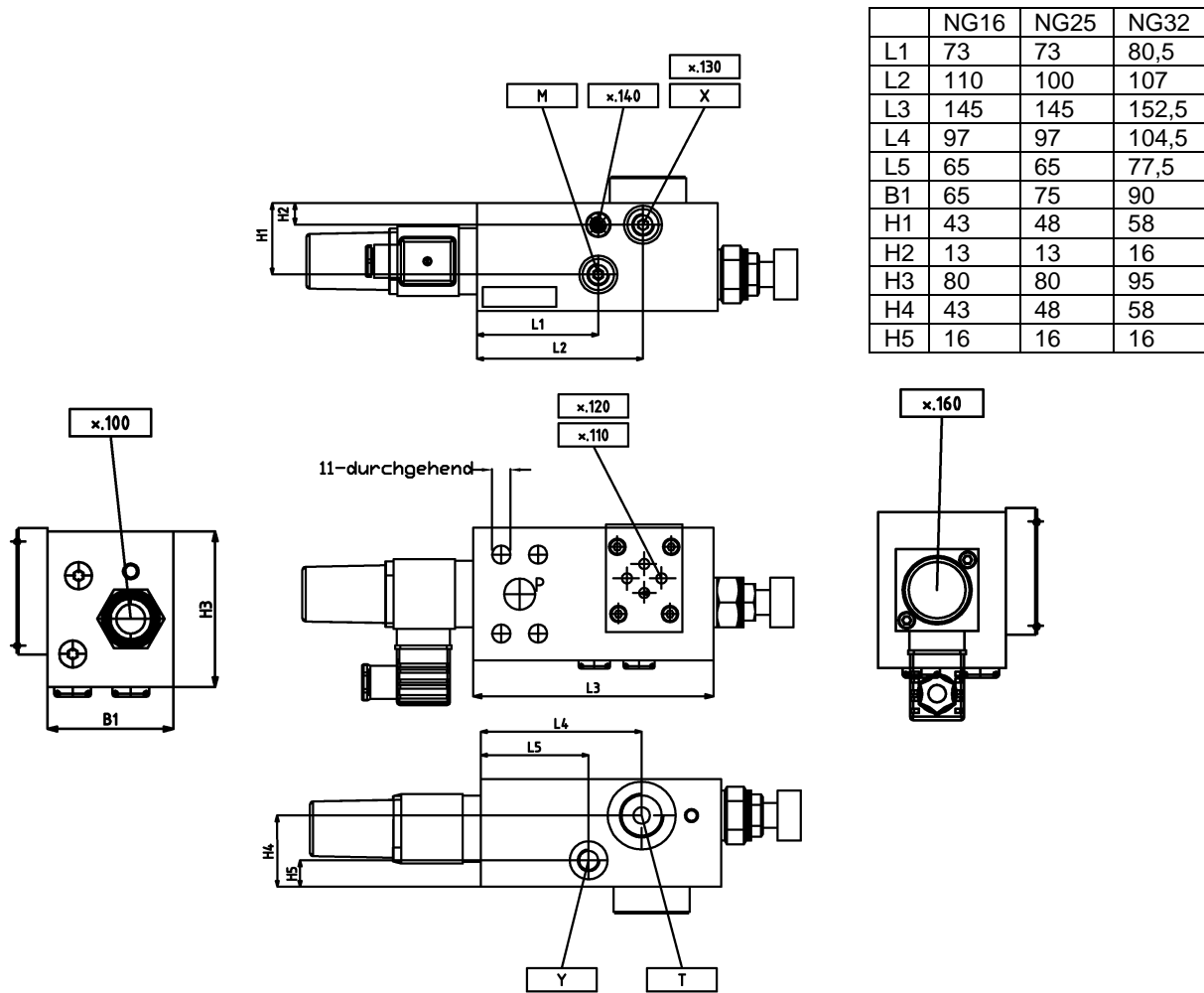
for example MA10VSO with DRG pressure controller



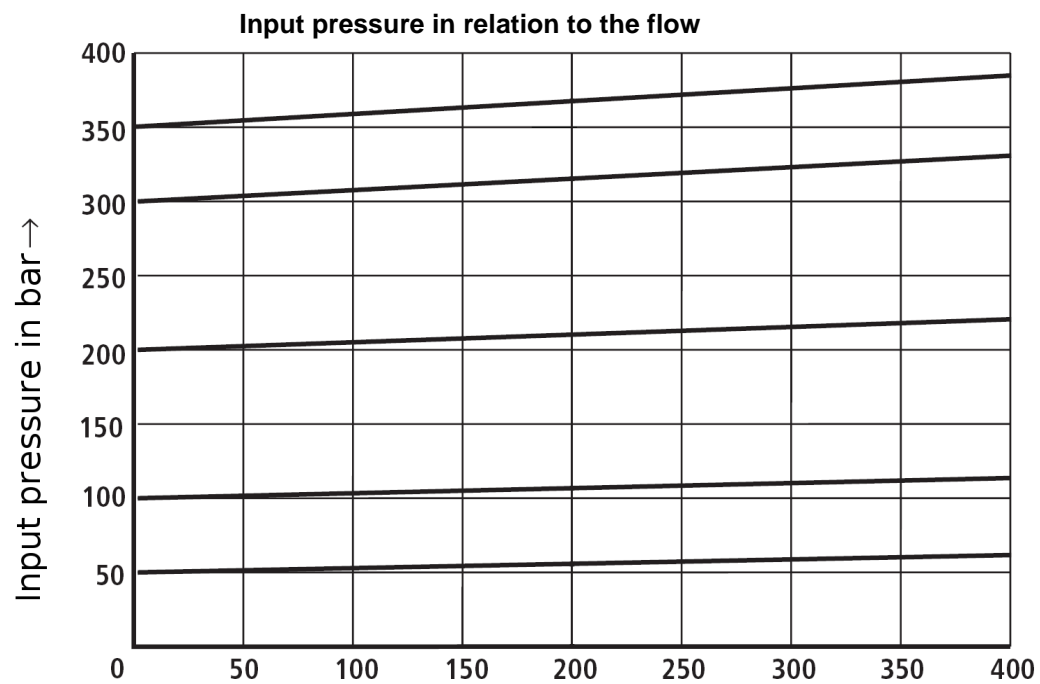
for example MA10VSO with DFLR pressure controller



Unit dimensions



Characteristic curve of the pressure relief valve



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