

Title (en)
PRESSURE RELIEF VALVE

Title (de)
DRUCKENTLASTUNGSVENTIL

Title (fr)
SOUPAPE DE SURPRESSION

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Application
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Abstract (en)
[origin: WO2010125500A2] The invention relates to a pressure relief valves, especially a rock-burst safety valve for the hydraulic face support, having a consumer connection (3) with a bore (2) a fluid outlet (4), and a valve piston which is arranged in the valve and pressed against a valve seat (7) by means of a valve spring system (6) for separating consumer connection and fluid outlet. In order to improve the valve with regard to construction and functioning such that a rapid and reliable response behaviour for the opening and closing movements can be achieved, the valve seat (7), the bore (2) of the consumer connection (3) and the fluid outlet (4) are formed on a head piece (1) having a guide bore (24) for the valve piston (5). Furthermore, the valve spring system (6) has at least one disc spring stack (12) having disc springs (11) which are arranged in the valve housing (13), wherein the actuating force of the spring stacks is applied against an end of the valve piston (5) that is remote from the sealing seat (7).

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