

Title (en)

CYLINDER VALVE HAVING A DEVICE FOR REDUCING OR CLOSING OFF THE FLOW IN THE EVENT OF A RISE IN TEMPERATURE

Title (de)

ZYLINDERVENTIL MIT VORRICHTUNG ZUR VERRINGERUNG ODER ZUM VERSCHLIESSEN DER STRÖMUNG IM FALLE EINES TEMPERATURANSTIEGES

Title (fr)

ROBINET BOUTEILLE AVEC DISPOSITIF DE REDUCTION OU DE FERMETURE DU PASSAGE EN CAS D'ELEVATION DE TEMPERATURE

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Application

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Abstract (en)

[origin: WO2012119901A1] The invention relates to a cylinder valve (2) pressurized gas. The body (4) of the valve (2) includes a gas inlet (8), a gas outlet (not shown) and a passage (10) connecting the inlet to the outlet. The valve (2) also includes a closing/opening valve (26) (figure 2), a pressure reducer (12) and a device for reducing or closing the gas passage between said valve and a pressure reducer (12). The device includes an element (16) that is made of shape-memory alloy and positioned in a cavity (14) of the passage (10). Said element (16) includes an active deformable portion, the circular outer edge of which is capable of engaging with the inner surface of the cavity (14) in order to close the passage following a rise in temperature caused by combustion. Said combustion can be generated by adiabatic compression during the opening of the valve (26).

IPC 8 full level

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