

Title (en)
Protective device

Title (de)
Schutzvorrichtung

Title (fr)
Dispositif de protection

Publication
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Application
EP 13168421 A 20130520

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Abstract (en)
A protective device (1) comprising a cap (2) which can be associated detachably with a valve (10) of the type comprising a valve body (11) which forms a passage duct (12) which lies between a first, input end (12a) and a second, output end (12b) for connection respectively to a gas containment tank and to a pressure regulator; the valve body (11) has, on its outer surface (11a) and substantially at the second, output end (12a), a recess (13) for the accommodation of a sealing gasket (14) which lies between a first abutment (15) formed in a position proximate to said second, output end (12b) and a second abutment (16) which is formed in a position which is spaced axially from the first abutment (15). The valve body (11) is detachably associable with the pressure regulator by quick coupling means and the cap (2) supports a sealing body (5) which is adapted to mate with a cylindrical body (17) which forms a flow control chamber (18) associated with a flow control element (18), the cylindrical body (17) being supported by the valve body (11) along the extension of the passage duct (12). According to the present invention, the cap (2) comprises a lateral portion (3) which is designed to be arranged around a region of the outer surface (11a) of the valve body (11) which is proximate to the second, output end (12b), the lateral portion (3) supporting means (4) for the detachable coupling of the cap (2) to the valve body (11) which are adapted to engage between the first abutment (15) and the sealing gasket (14), the sealing body (5) comprising an elongated sealing element (6) which lies, during use, along a longitudinal direction which corresponds substantially to the longitudinal axis of the cylindrical body (17), the free end of the elongated sealing element (6) being adapted to enter the cylindrical body (17).

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Citation (search report)
• [A] US 2011278316 A1 20111117 - HERZER BERNARDO [US], et al
• [A] EP 2119535 A1 20091118 - MAX CO LTD [JP]
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