

Title (en)

ANTI-FLOODING DUCT WITH SAFETY VALVE FOR SUPPLYING WATER

Title (de)

ÜBERFLUTUNGSSCHUTZKANAL MIT SICHERHEITSVENTIL ZUR WASSERVERSORGUNG

Title (fr)

CONDUIT ANTI-INONDATION MUNI D'UNE SOUPAPE DE SÉCURITÉ POUR L'ALIMENTATION EN EAU

Publication

EP 3821071 A1 20210519 (EN)

Application

EP 19756431 A 20190711

Priority

- IT 201800007151 A 20180712
- IT 2019050164 W 20190711

Abstract (en)

[origin: WO2020012517A1] An anti-flooding duct with safety valve comprises an internal pressurised water intake hose; an external safety hose (8) coaxial to the internal hose for the entire length of this internal hose from the safety valve connected to the water distribution hose (11) to the outlet end (7) and watertight with respect to the external environment; and has, amidst the connection point of the water distribution hose (11), a valve body (5, 32) of the safety valve (1), a permanent magnet (16) which is slidable outside the valve body in a direction parallel to the duct (12) of the valve body, i.e., parallel to the sliding axis (C) of a shutter body made of a ferromagnetic material and slidable within a first part (13) of the duct (12), the shutter body is positioned with the magnetic interaction in the said first part; the opening position of the safety valve (1) is made by factory default and maintained by a member which is sensitive to the flooding of the external safety hose (8) which includes at least one water-sensitive sponge (21, 22) to undoubtedly define the said opening position of the safety valve (1), using the magnetic action of the permanent magnet (16), acting on the shutter body, and kept away by a sealing ring (27) inserted at the end of said first part (13) of the duct (12) inside the valve body (5, 32); the valve body being made of a non-ferromagnetic material; the coaxial space between said internal intake hose and the external safety hose (8) is in hydraulic connection with an interstice (26) for housing the said sponge. Different constructive forms of the internal mechanisms of the safety valve are described.

IPC 8 full level

D06F 39/08 (2006.01); **A47L 15/42** (2006.01)

CPC (source: EP US)

A47L 15/421 (2013.01 - EP); **D06F 39/081** (2013.01 - EP US)

Citation (search report)

See references of WO 2020012517A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2020012517 A1 20200116; EP 3821071 A1 20210519; EP 3821071 B1 20220907

DOCDB simple family (application)

IT 2019050164 W 20190711; EP 19756431 A 20190711