

Title (en)

VALVE SHAFT APPARATUS FOR USE WITH ROTARY VALVES

Title (de)

VENTILSITZVORRICHTUNG FÜR DREHVENTILE

Title (fr)

APPAREIL À TIGE DE SOUPAPE À UTILISER AVEC DES SOUPAPES ROTATIVES

Publication

**EP 3094903 A1 20161123 (EN)**

Application

**EP 15702330 A 20150116**

Priority

- US 201414158588 A 20140117
- US 2015011683 W 20150116

Abstract (en)

[origin: WO2015109139A1] An example valve shaft apparatus for use with a rotary valve disclosed herein includes a shaft (230) having a first portion (242) to be positioned in an opening of a valve body (204) and a second portion (244) to be positioned in a cavity (222) of a closure member (214). A first seal (250) is coupled to the first portion of the shaft to prevent fluid leakage into the opening of the valve body, where the first seal defines a first leakage detection area (258) adjacent the first seal. A second seal (252) is coupled to the second portion to prevent fluid leakage into the cavity of the closure member, where the first seal is spaced from the second seal and the second seal is to define a second leakage detection area (260) adjacent the second seal. A passageway (274) is formed in the shaft and fluidly coupled to the first and second leakage detection areas to provide an indication of fluid leakage past the first seal in the opening or to detect fluid leakage past the second seal in the cavity. The passageway is in fluid communication with a shaft outlet (276) formed in an end of the shaft, where the shaft outlet is positioned away from the first and second leakage detection areas.

IPC 8 full level

**F16K 37/00** (2006.01); **F16K 1/22** (2006.01); **F16K 1/226** (2006.01); **F16K 41/04** (2006.01)

CPC (source: CN EP)

**F16K 1/224** (2013.01 - EP); **F16K 1/225** (2013.01 - CN); **F16K 1/226** (2013.01 - CN); **F16K 1/2261** (2013.01 - CN); **F16K 1/2268** (2013.01 - EP); **F16K 37/00** (2013.01 - CN); **F16K 37/0058** (2013.01 - EP); **F16K 41/046** (2013.01 - EP)

Citation (search report)

See references of WO 2015109139A1

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 2015109139 A1 20150723**; CN 104791548 A 20150722; CN 204805706 U 20151125; EP 3094903 A1 20161123; RU 2016130676 A 20180220; RU 2016130676 A3 20181004

DOCDB simple family (application)

**US 2015011683 W 20150116**; CN 201510025940 A 20150119; CN 201520035849 U 20150119; EP 15702330 A 20150116; RU 2016130676 A 20150116