Title (en)

CONNECTING DEVICE FOR CYLINDERS OF VARIOUS SHAPES AND SIZES

Title (de

VERBINDUNGSVORRICHTUNG FÜR ZYLINDER VERSCHIEDENER FORM UND GRÖSSE

Title (fr)

DISPOSITIF DE CONNEXION DE BOUTEILLES DE DIFFÉRENTES FORMES ET DIMENSIONS

Publication

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Application

EP 12705416 A 20120112

Priority

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- IB 2012050160 W 20120112

Abstract (en)

[origin: WO2012095810A1] The present invention relates to a device for connecting various devices, in particular a pressure reducer, suitable for mounting on cylinders provided with connection and closing means of various shapes and sizes, wherein: said connection means comprise an external thread (5b, 15b, 25b) and an annular flat surface (5a, 15a, 25a) coaxial with said external thread (5b, 15b, 25b); said closing means comprise a needle valve (5c, 15c, 25c), also coaxial with said external thread (5b, 15b, 25b); said pressure reducer being contained in a housing (2) provided with an internal thread (6) and an annular flat surface (6a), coaxial with said internal thread (6), the connection with said cylinder (5, 15, 25) taking place by screwing and said needle valve (5c, 15c, 25c) being opened by the pressure exerted by a pin (11), present on said housing (2), characterized in that after clamping has taken place, said annular flat surface (6a) of said housing (2) is in contact with said annular flat surface (5a, 15a, 25a) of said cylinder (5, 15, 25), the seal being obtained by a gasket (12) that fits into a seat (13) of said housing (2), said gasket (12) being deformed due to said clamping and exerting through spring reaction on the bottom of said seat (13) and on said annular flat surface (5a, 15a, 25a) of said cylinder (5, 15, 25), the force required to obtain, between said cylinder (5, 15, 25) and the housing (2) of the device (1) pressure seal of the gas drawn up.

IPC 8 full level

F17C 13/04 (2006.01)

CPC (source: EP)

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