

Title (en)
GAS-TIGHT METAL COMPOSITE INTERFACE

Title (de)
GASDICHTE METALL-VERBUND-SCHNITTSTELLE

Title (fr)
INTERFACE MÉTAL-COMPOSITE ÉTANCHE AUX GAZ

Publication
EP 3286486 A1 20180228 (EN)

Application
EP 16718365 A 20160425

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Abstract (en)
[origin: WO2016170192A1] The present invention relates to a method of forming a gas-tight metal-composite interface for compressed gas systems and to compressed gas systems comprising said interface. We provide metal and composite portions of a compressed gas system with respective flanges. The flanges are pressed against one another using a collar or other clamping device. The collar may comprise at least two part-annular, generally C-shaped in cross section segments having proximal and distal clamping arms. The flanges and clamping arms may be chamfered so that pressing the arms against the flanges results into compression of ends of the metal and composite portions which form the gas-tight metal-composite interface. The collar may be secured by welding, or by using threaded connections. Such gas-tight metal-composite interfaces are particularly suitable to marine CNG applications.

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Citation (search report)
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