



Testing the tightness of GK feedthroughs for cables or pipes

Application: "Back to Back" (BTB) version of GK packing frames only

TESTING RECOMMENDATION

The BTB frame is installed in accordance with current certification and the corresponding installation instructions prior to a tightness check under onboard conditions. (see: www.roxtec.com/de/produkte/gk-marine/montageanweisungen/)

A BTB frame consists of two packing systems A + B, arranged one behind the other in the frame which implemented as gas and watertight seals (when pressure is required) in accordance with the assembly instructions. The resulting cavity is referred to as a pressure chamber. The GK test connection provides access to this pressure chamber to allow the tightness of the BTB frame to be tested.

Recommended procedure:

1. Assembly of the two packing systems, A+B; the GK test connection can be installed at any point in one of the two systems; the Schrader valve faces outwards. Make sure the GK test connection is easily accessible!
2. Carrying out a visual inspection of both systems A+B according to the installation instructions (check packing height "H").
3. After the A+B systems to be tested have been fully assembled (after a 24 hour waiting period), it is also possible to check the seal for tightness.
4. Connect the test valve to the test fitting (e.g. test connection, compressed air source, pressure reducer, pressure gauge, check valve and drain valve).
5. Build up a test pressure of approx. 0.3 bar in the pressure chamber (for the duration of the test).
6. Test tightness: Carefully wet both systems with a suitable leak detection spray or soapy water. If no bubbles appear, the systems can be considered tight. If leaks occur, the cause must be located and correctly eliminated, if necessary repeat the test.
7. After a successful tightness test, the test pressure applied under point 5 is released again; the test connection can remain in the system and should be closed with a protective cap.

The tightness test described is solely the responsibility of the person carrying out the test. Roxtec GmbH expressly draws attention to the following disclaimer of liability:

DISCLAIMER (For GK Packing System Mounting Instruction)

The GK cable and pipe entry sealing system ("the GK Packing System") is manufactured by Roxtec. This GK Packing System is a modular based system of sealing products consisting of different components. Each and every one of the components is necessary for the best performance of the GK Packing System. It has been certified to resist a number of different hazards. Any such certification, and the ability of the GK Packing System to resist such hazards, is dependent on all components that are installed as a part of the GK Packing System. Thus, the certification is not valid and does not apply unless all components installed as part of the GK Packing System are manufactured by or under license from Roxtec ("authorized manufacturer"). Roxtec gives no performance guarantee with respect to the GK Packing System, unless (I) all components installed as part of the GK Packing System are manufactured by an authorized manufacturer and (II) the purchaser is in compliance with (a) and (b) below. (a) During storage, the GK Packing System or part thereof shall be kept indoors in its original packaging at room temperature. (b) Installation shall be carried out in accordance with latest GK Packing System Mounting instructions. The product information provided by Roxtec does not release the purchaser of the GK Packing System, or part thereof, from the obligation to independently determine the suitability of the products for the intended process, installation and/or use. Roxtec gives no guarantee for the GK Packing System or any part thereof and assumes no liability for any loss or damage whatsoever, whether direct, indirect, consequential, loss of profit or otherwise, occurred or caused by the GK Packing System or installations containing components not manufactured by an authorized manufacturer. Roxtec expressly excludes any implied warranties of merchantability and fitness for a particular purpose and all other express or implied representations and warranties provided by statute or common law. User determines suitability of the GK Packing System for intended use and assumes all risk and liability in connection therewith. In no event shall Roxtec be liable for consequential, punitive, special, exemplary or incidental damages.

B	Test Valve Diameter-Measurement Removed	07.12.2023	de-thohey
Rev	Type of revision	Date	Sign

General tolerances used for manufacturing shown in document DOC-002180	Designed by/date de-thohey 14.11.2023	Latest save date 2023.11.14	Format A3	Scale	Sheet no 1 / 1	Total weight 9.3 kg
Title GK-TEST_RECOMMENDATION_SPK-BTB_NOV2023						Projection method
Restricted due to www.roxtec.com			Drawing number GK20231114001		Rev B	