SWANSON INDUSTRIES

Global Leader In Engineered Hydraulics

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PIPELINE SYSTEMS WITH WE-ER®

High-Pressure Screwed Pipe Coupling - Ls Design

SPECIFICATIONS:

- High Leak-Proofness During The Whole Period Of Operation, No Re-Adjustment Required
- Quick And Simple Connection Of Pipeline Systems
- Easy Disassembly, Also After Longer Periods Of Operation So That Trouble-Free Reuse Of The Pipes Is Possible

WEINHOLD
High-Pressure Pipe And Connectors

ISO-9001:2015

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Pipeline systems with WE-ER® high-pressure screwed pipe coupling -LS design

The WE-ER® high-pressure screwed pipe coupling -LS design serves to connect high pressure pipes. Basically, it consists of 3 components, i. e. - the sealing head, the threaded piece and the union nut. Connecting the pipes is quick and requires no further tools. It is effected as follows: push the sealing head into the threaded piece, then screw the union nut onto the threaded piece. Since the sealing head is equipped with a sealing ring located radially the connection is already leak-proof when pushed together. In contrast to connections with front-end sealing ring no contact pressure is required to produce a leakproof connection. The union nut only prevents the connection from getting loose when pressurized. The threaded piece and the union nut are provided with a conical thread with cylindrical runout so that they can be easily screwed and unscrewed manually. The union nut can be easily opened and closed with an adequate spanner. Thus, the use of power tools is unnecessary so that noise emissions which are harmful to health are avoided.

The union nut is to be unscrewed in a way that the pin can be introduced through the provided boreholes. This is to secure the connection against unintentional unscrewing and to make sure that the nut is completely screwed on. Two additional sealing rings protect the complete threaded area against external contamination. As a result, the connection can easily be unscrewed manually even after an extended period of operation. It is not necessary for this type of coupling to be retensioned after a certain period of operation since it is completely tight from the moment of its initial assembly.

The WE-ER® high-pressure screwed pipe coupling - LS design has a longer, extra tapered run out on both the union nut and the threaded piece, thus preventing to get stuck on any drags or obstacles when the pipes are moving.

The pipes are made of hot-dip galvanized steel, the WE-ER® high pressure screw pipe coupling parts are galvanized. The sealing rings used are made of Perbunan.

Also available with the pipes are various fittings and adaptors such as elbows, branch pieces, caps, Y-branches, reducing pieces and many more, which are also equipped with the WE-ER® high-pressurescrewed pipe coupling -LS design.

After welding is finalized, the pipes and fittings are pressure tested to 1.5 times the operating pressure. These pipe systems are suitable for the transport of face hydraulics and pastes. They are available for pressures up to 5800-6500 psi (400-450 bar), if requested up to 7200 psi (500 bar). Dimensioning of coupling parts and pipe wall thickness is consequently adapted to operating pressure.

A slight bending in the connection is possible and thus provides the WE-ER® high-pressure screwed pipe coupling -LS design with the flexibility required in the mining industry so that they can easily be installed also over longer distances. The connection can easily be undone by hand even in a bent state.

As a consequence, substantial economies can be achieved during the whole period of operation. Since the pipes can easily be disassembled they can always be reused.

Furthermore, it is also possible to use the WE-ER® high-pressure screwed pipe coupling -LS design for return pipes in a low pressure range of usually 600-1000 psi (40-70 bar). The design of the coupling, as well as of the pipes, is then adapted according to this pressure range.

Subject to modifications in design and technical changes. Dating from: 09/2012

Additional products for the mining industry:



Photo descriptions Left to Right: WE-ER• hose fittings for the mining industry / WE-ER• high pressure combi-coupling / WE-ER• pipe-in-pipe coupling

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