

POWER SLEEVE

QUICKEST FASTENING SYSTEM

WITHIN SECONDS -
CONNECTED AND TIGHT FOREVER
ANYWHERE, ANYTIME
FOR ANY PIPES, FLUIDS AND GASES

The revolutionary pipe connection system **PowerSleeve**:
Never before, connecting pipes has been so fast, cost-saving,
easy, highly efficient, reliable and universally applicable!



swiss⁺tech
innovation ag

PROF. THEODOR WÜST & JOSEPH ALAIN SCHERRER



POWER SLEEVE®:

Potentially replaces all available
couplers for most of applications

Sophisticated, simple and economic
construction!

EASIEST HANDLING:

- All which is needed is a portable source of compressed air or gas
- A quick pulse activates the connection once and for all
- No need for:
 - other sources of energy
 - additional assembly devices
 - helping hands

UNPARALLELED - THE **POWER SLEEVE®** INNOVATION PACKAGE

NO CONDITIONING OF PIPES

- No measuring
- No cleaning
- No peeling
- No sharpening
- No greasing

SIMPLY USE THE PIPES AS THEY ARE

EASIEST APPLICATION

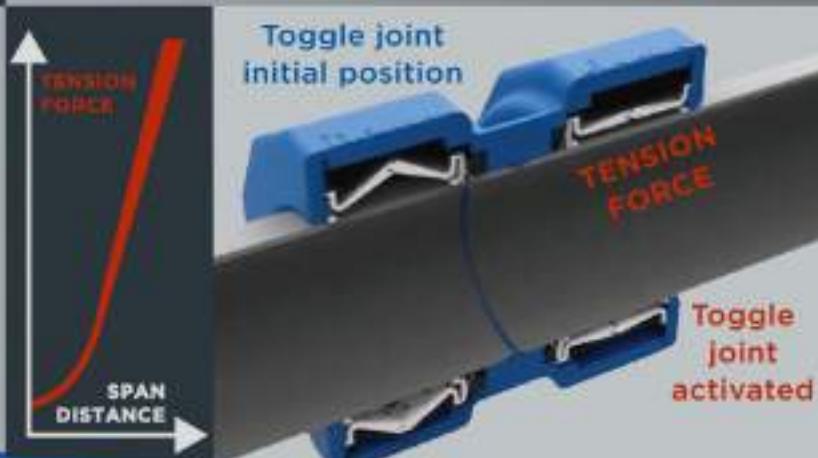
- No force-intensive insertion
- No screwing
- No welding
- No gluing

SIMPLY GIVE A QUICK PULSE WITH COMPRESSED AIR OR GAS

SAFE AND RELIABLE

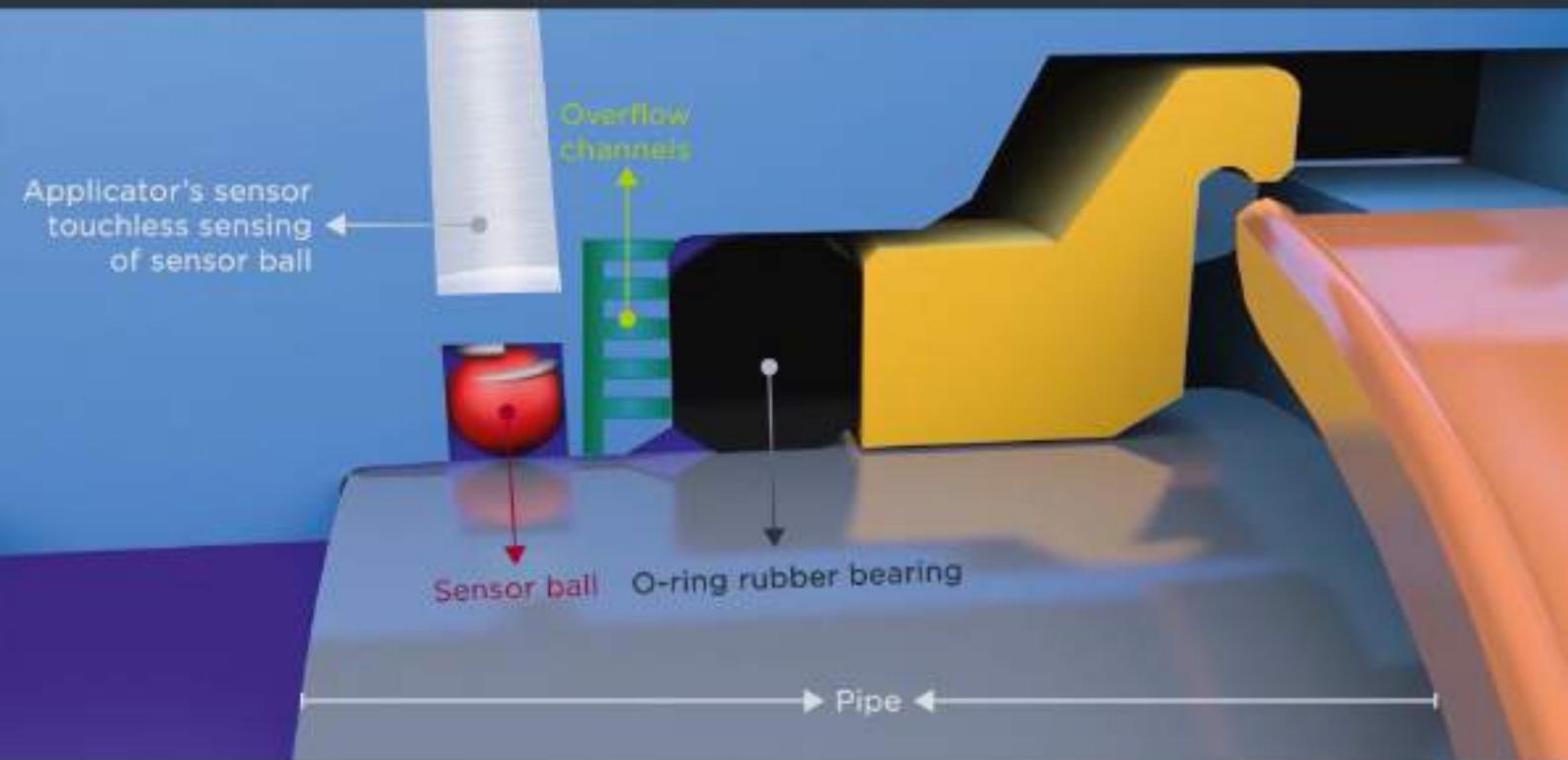
- No mechanical stress on pipes
- Strong, irreversible mechanical connection
- Pressure-tight and high pull-out force

SIMPLY WALK AWAY, KNOWING IT'S GOOD!



ROBUST AND TIGHT SEAL PATENTED FIXTURE GEOMETRY

- Based on the invention's architecture, the sensitive O-ring
 - is fully protected during pipe insertion into PowerSleeve
 - is getting into contact with the pipe not until the clamping mechanism is activated
- The dead volume is neglectable
- Two designs for different pressure ranges



PATENTED FIXTURE GEOMETRY:

This invention of a sealing protection can be applied to many more O-ring bearing products than just PowerSleeve!

This patent, on its own, may chart territory for many more developments of tight seals since it describes a fundamental solution to a persistent technical problem!

APPLICATOR AS THE INTERFACE TO BUILDING INFORMATION MODELING (BIM)

Activation	<input checked="" type="checkbox"/>
Quality Assurance	<input checked="" type="checkbox"/>
Execution	<input checked="" type="checkbox"/>



CONTROL IN REAL-TIME:

- Immediate data capture and data sharing
- Simultaneous check of the correctness of the connection
- Full traceability for creating value, reducing risk and to ensure compliance

AS KEY FOR THE FUTURE: POWER APPLICATOR WITH INTEGRATED SENSORS

THE ONE IN ALL TOOL SERVING BOTH:
CONNECTION AND INTERFACE TO BIM
CAPTURING DATA ON:

- Identification of the PowerSleeve connector
- Identification of the pipes
- Person performing the pipe connection
- Exact geographic position
- Correct alignment of pipe & socket
- Time of activation
- Correct and safe execution of the connection



UNIQUE ADVANTAGES

THE UNIVERSAL ANSWER TO CURRENT AND FUTURE REQUIREMENTS IN PIPELINE CONSTRUCTION

- Pipes made of any material and diameter can be connected – also intermixed
- Assembly under any climatic conditions
- Minimal space required for work on the joint
- Extremely simple handling: Only a source of compressed air but no other assembly equipment or energy sources needed
- To build a PowerSleeve joint
 - it needs hardly any preparation
 - the pipe ends are fitted together without lubricant force
 - just needs a few seconds
- Can be loaded immediately
- No forces act onto the pipes outside PowerSleeve during the assembly process
- PowerSleeve provides a non-positive and highly reliable connection
- High pressure and pull-out resistance

POWERSLEEVE® TECHNOLOGY APPLIED IN A CLEVER WAY

- Consistent product range across all pipe diameters
- PowerSleeve can also be designed as slip-on sleeve





POWER SLEEVE

QUICKEST FASTENING SYSTEM

CONTACT

swiss 
innovation-field
JOSEPH ALAIN SCHERRER

CONTACT ADDRESS

Swiss Innovation-Field AG • Leberngasse 21 • CH-4600 Olten
Tel. +41 62 791 40 41 • Mobil +41 79 622 30 40
scherrer@swissinnovation-field.com • www.swissinnovation-field.com

LEGAL MATTERS & PATENT SUPPORT

Homburger

Nathalie Scherrer | Lawyer
Homburger AG • Prime Tower
Hardstrasse 201 • 8005 Zürich
Mobil +41 79 672 47 31
nathalie.scherrer@homburger.ch

PATENT FAMILY - PROTECTION IN 26 MAJOR COUNTRIES

«Plug-type sleeve»

EP 3 120 064 B1

granted 12.09.2018

«Seal assembly and joint bushing»

WO 2022/148671A1

published 14.07.2022

«Pipe joint applicator»

submitted 14.06.2019