Pipeline Accessories

PSI Wallcollars

General Information • Technical Data • Selection Guide • Installation Instruction
PSI Wallcollars

General Information

An economical and reliable method of hydrostatic sealing

PSI wallcollars are used for the hydrostatic sealing of pipes made of steel, cast iron, copper, plastic, asbestos free cement, concrete and vitrified clay that pass through walls, ceilings, floors, shaft openings, swimming pools and groundwater troughs.

PSI wallcollars are the ideal solution wherever it is not possible to retrofit sleeves or drill holes.

Tight to groundwater and pressurized water for pipe O.D. 32 mm up to O.D. 315 mm certified to 5 bar from pipe O.D. 355 mm certified to 4 bar

Material

- High quality rubber
- Tensile strength: 9.5 N/mm²
- Elongation at break: 500 %
- Hardness Shore A: 45 +/- 5°
- Max. service temperature: 80 °C
- Min. service temperature: -40 °C

Note

PSI wallcollars are not anchor points.

Application examples

Swimming pool

Man hole opening
Installation instructions:

1. Clean the pipe surface to be encased in concrete with a piece of cloth etc.
2. Slide the wallcollar on until it reaches the centre of the concrete or the wall.
3. Attach the fastening straps:
   - Collars up to Ø 315: Fit one band on either side of the flange.
   - Collars from Ø 355: Fit one band on either side of the flanges and one between.
4. Put the fastening strap around the wallcollar and insert the end of the strap into the slot of the winding bolt.
5. Use screw driver or hexagon wrench to turn the winding bolt to the right. Slightly press the locking device until the component fits tightly.
6. To remove the fastening strap turn the winding bolt a little more in the direction of tightening in order to lift the locking device. The bolt can then be turned in the other direction to loosen the fastening strap.

Dimensions in mm. Tolerances possible.
O.D. 32 up to O.D. 315

MFPA Leipzig GmbH
Prof., Überwachungs- und Zertifizierungsstelle nach
Landesbaubauordnung (LBoA 09)

Untersuchungsbericht
Nr. U 2.2 / 04 - 486
vom 01.12.2004, 1. von 4 Ausfertigungen

Gegenstand: Anwendungs-technische Prüfung der „PSI-Ptec Mauerkrampen DN 900“

Auftraggeber: PSI Produkten GmbH
Unternehmstr. 23
D-72116 Mössingen

Bearbeiter: Dipl.-Ing. Jürg

Auftrag: 13.09.2004
Zeichen: F. Holzha
Eingang: 13.09.2004

Dieser Untersuchungsbericht besteht aus 4 Seiten und einer Anlage.

O.D. 355 and larger

MFPA Leipzig GmbH
Prof., Überwachungs- und Zertifizierungsstelle nach
Landesbaubauordnung (LBoA 09)

Untersuchungsbericht
UB 5.1/08-314-1
vom 27.04.2009, 1. von 3 Ausfertigungen

Gegenstand: PSI-Mauerwerk - Prüfung der Dichtigkeit in Einbausitz

Auftraggeber: PSI Produkten GmbH
Unternehmstr. 23
72116 Mössingen

Prüfbeginn: 17.12.2006
Prüfendes Institut: STS
Prüfendes Institut: STS
Prüfbeginn: Januar bis April 2009

Bearbeiter: Dipl.-Ing. Jürg

Dieser Untersuchungsbericht besteht aus 3 Seiten und einer Anlage.
PSI Labyrinth – sealing rings for wall penetrations
PSI Labyrinth sealing rings for wall penetrations are a waterproof barrier against non-pressing water for the through-holes in walls for pipelines. The principal applications are pre-insulated pipe, particularly PE-jacket and flexible pipes for district heating systems. The sealing rings consist of high-quality rubber and are molded from one piece up to size O.D. 200 mm. Thanks to their conical shape, the rings fit tightly on to the pipe, eliminating any need for additional clamping straps.

PSI Labyrinth sealing rings are pushed on to the pipe and cast in the centre of the wall.

PSI Labyrinth sealing rings are tested by the MFPA Leipzig up to a water pressure of 0.5 bar and certified accordingly. If a water pressure of more than 0.1 bar is expected, we recommend using the Compakt-FW seals against pressing water for district heating pipe wall penetration.

A copy of the complete test report is obtainable on request from: vertrieb@psi-products.de
MFPA Leipzig GmbH
Prüf-, Überwachungs- und Zertifizierungsstelle nach Landesbauordnung (SAC 02)

Untersuchungsbericht

Nr. U 2.2 / 05 - 153

vom 30.09.2005, 1. von 3 Ausfertigungen

Gegenstand: PSI-Mauerdichtring 110 mm - Prüfung der Dichtigkeit im Einbauzustand

Auftraggeber: PSI Products GmbH
Ulrichstraße 25
D-72116 Mössingen

Bearbeiter: Dipl.-Ing. Jüling

Auftrag: 14.07.2006
Zeichen: J Biatz
Eingang: 14.07.2006

Dieser Untersuchungsbericht besteht aus 3 Seiten und einer Anlage.


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E-Mail vertrieb@psi-products.de · www.psi-products.de

approved for 0.5 bar
PSI Integra-Pipe / Integra-Pipe 4.0
Stainless Steel Wall Penetrations

MFPA tested 4 bar
Integra-Pipe 4.0 with rubber wall collar
Selection

The PSI Integra Pipe stainless steel wall penetration is cast in the concrete wall. It seals a variety of media. The medium-carrying pipes are flanged directly to the cast-in bushing. The Integra Pipe assembly is carried out flush with the casing for a variety of applications such as clarifiers, high-level tanks, shaft constructions and much more. The flanges can be manufactured as welding neck flanges according to DIN 2632 (PN10) or smooth flanges (turned on all sides with reduced sheet thickness) similar to DIN 2576 (PN10). Other pressure stages available on request. All connecting flanges have cap nuts welded tightly on the back.

The stainless steel pipes correspond to ISO pipe series 1. Integra Pipe is supplied with a centrically welded wall flange, an annular water stop plate that guarantees a safe sealing of the sleeve outer diameter and also serves as a wall anchor. Integra Pipe is manufactured in V2A (1.4301 or 1.4541) or V4A (1.4571), other materials on request. It is welded in inert gas and stained and passivated afterwards. On request Integra Pipe can be supplied sanded, without wall flange or with one flange sheet only (F-piece).

Selection Table

<table>
<thead>
<tr>
<th>dimension ND</th>
<th>pipe dimension mm O.D. x S</th>
<th>wall thickness* mm</th>
<th>flange thickness [mm] welding neck flange DIN 2632 PN10</th>
<th>flange thickness [mm] smooth flanges similar to DIN 2576 PN10</th>
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<tbody>
<tr>
<td>50</td>
<td>60.3 x 2.0</td>
<td>300</td>
<td>18</td>
<td>10</td>
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<td>65</td>
<td>76.1 x 2.0</td>
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<td>500</td>
<td>508.0 x 4.0</td>
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</table>

*Also available for other wall thicknesses

Integra Pipe 4.0 with rubber wall collar, pressure tight up to 5 bar for pipe dimensions 32 to 315 mm O.D. Pressure tight up to 4 bar for pipe dimensions exceeding 355 mm O.D.

High-quality Integra pipes are characterised by long term performance and high resistance owing to selected materials and are particularly appropriate for demanding applications.

PSI-Products is the competent partner for special applications (e.g. waterworks, sewage plants, industrial buildings, etc.)