

Contact person RISE  
Henrik Nylén  
Energy and circular economy  
+46 10 516 58 09  
henrik.nylen@ri.se

Date  
2017-09-18

Reference  
7F018324

Page  
1 (3)

Repiper AB  
Möbelgatan 1  
431 33 Mölndal

## Tightness testing of metal banded flexible coupling, intended for relined pipes

### Test object

A metal banded flexible coupling of EPDM rubber and a plastic detail intended for relined pipes were tested.

### Delivery date

2017-09-08

### Dimensions and marking

The following test object was delivered to RISE:

Dimension	Marking
70-75/70-75 mm	8028 EPDM ISO 681-1 17 06

Hose clamp marking: 1702 ABA acidproof S50 77-95 Size-52

The purpose of the coupling is to make a smooth transition between a relined pipe and an existing pipe. One plastic detail was also delivered which should be mounted on the relined pipe.

### Tests

The following tests were performed:

Requirement described in EN 16397-1 clause	Test method described in EN 16397-1 clause	Characteristics
5.4.2	6.1.2	Internal pressure
5.4.2	6.1.3	Vacuum
5.4.3	6.1.4	Deflection test

RISE Pipe Centre is not accredited for the tightness testing described in EN 16397-1:2014 clause 6. However, the testing is very similar to the testing described in EN 1053:1995 and EN 1054:1995 for which RISE Pipe Centre is accredited.

The plastic detail was mounted by RISE on a relined plastic pipe and sealed with *Sikaflex*. The hose clamps was tightened to the prescribed tightening torque 5.5 Nm.

### RISE Research Institutes of Sweden AB

Postal address  
Box 24036  
SE-400 22  
GÖTEBORG  
Sweden

Office location  
Gibraltargatan 35  
SE-412 79  
GÖTEBORG

Phone / Fax / E-mail  
+46 10 516 50 00  
+46 33 13 55 02  
info@ri.se

This document may not be reproduced other than in full, except with the prior written approval of RISE. The results apply only to the tested objects.

## TEST RESULTS

### Internal pressure

Dimension	Medium	Internal pressure requirement bar	Testing time minutes	Pipes used for testing
70-75/70-75 mm	Water	1.0	15	Relined plastic Ø 75 mm Plastic Ø 75 mm

No leakage was observed during the test.

Test method: EN 16397-1:2014, clause 6.1.2

Test temperature:  $23 \pm 5$  °C

Date of test: 2017-09-15

### Vacuum

Dimension	Medium	Internal pressure requirement bar	Testing time minutes	Pipes used for testing
70-75/70-75 mm	Water	-0.25	15	Relined plastic Ø 75 mm Plastic Ø 75 mm

No leakage was observed during the test.

Test method: EN 16397-1:2014, clause 6.1.3

Test temperature:  $23 \pm 5$  °C

Date of test: 2017-09-15

**Deflection**

Dimension	Medium	Internal pressure requirement bar	Deflection degrees	Pipes used for testing
70-75/70-75 mm	Water	1.0	4.6	Relined plastic Ø 75 mm Plastic Ø 75 mm

No leakage was observed during the test.

*Test method:* EN 16397-1:2014, clause 6.1.4

*Test temperature:*  $23 \pm 5$  °C

*Date of test:* 2017-09-15

**Conclusion**

The results fulfil the requirements of the tested characteristics in EN 16397-1:2014, *Flexible couplings-Performance requirements*.

**RISE Research Institutes of Sweden AB**  
**Energy and circular economy - Pipe Centre**

Performed by

Examined by

Henrik Nylén

Olle Persson