

TEST REPORT

TYPE TEST (TT)

REPORT NO.:
909311



**DANISH
TECHNOLOGICAL
INSTITUTE**

Teknologiparken
Kongsvang Allé 29
DK-8000 Aarhus C
+45 72 20 20 00

Info@teknologisk.dk
www.teknologisk.dk

Page: 1 of 4
Date: 30 April 2020
Init.: ARP/JOFR/MRI
Appendices: 1

Applicant: August Klewen ApS
Fynsvej 59
5500 Middelfart
Denmark
Contact person: Steen Kjølbj
Email: sk@august-kleven.dk

Product: Pipe in tube system. Test of a new compression adaptor for wall box.
Dimension of protection pipe OD/ID: 25/20 mm

Manufacturing and sampling site: -
Manufacturing site: -
Sampling site: August Klewen ApS
Fynsvej 59
5500 Middelfart
Denmark

Samples: The samples were received by DTI on 4 November 2019.

Test period: 9 – 10 January and 9 March 2020

Test site: Danish Technological Institute, VA Testing and Inspection (DTI)
Kongsvang Allé 29
DK-8000 Aarhus C, Denmark

Test method: Nordtest, NT VVS 129 approved 2002-09

Results: The mechanical requirements of the test methods mentioned above were met.
Only the new adaptor for connection of the outer protection pipe is tested.
Documentation proving that the sealing material in accordance with EN 681 or DIN 4060 according to Nordtest, NT VVS 129 was not provided.

Remarks: -

Terms: Accredited testing was carried out in compliance with international requirements (EN/ISO/IEC 17025:2015) and in compliance with Danish Technological Institute's General Terms and Conditions regarding Commissioned Work Accepted by Danish Technological Institute.
The test results apply to the tested products only. This test report may be reproduced in extract only if the Laboratory has approved the extract in writing.

Signature: 
Allan R. Pedersen
Metrology engineer

Jørgen Frandsen
Technical consultant



Test Reg. No. 300

Test methods and requirements in accordance with: Nordtest, NT VVS 129 approved 2002-09	Test site	Table No./ Appendix No.	Requirements met		Accredited		Sub-contractor Accreditation No.
			Yes	No	Yes	No	
Identification of the tested products and general information	DTI	Table 1					
6.4.0 Marking/photos	DTI	Table 2	X		X		
6.4.7 Water tightness of wall box and connection between box and protection pipe	DTI	Table 3	X		X		
6.4.8 Resistance to pull-out of the protection pipe	DTI	Table 4	X		X		
Drawing		Appendix 1					

Table 1

Identification of the tested components and general information


Item id.	Photo	Model	Intended for pipe	Connection size	Pipe in tube
1	 <p>Compression adaptor for Smartbox wall box</p>	Smartbox Wall box	15 x 2.5 mm	1/2" Push-fitting	20/25 mm

Table 2

6.4.0 – Marking/Photos



Protection pipe:



Wall box: No marking

Elbow fitting is marked: 15 MM JG

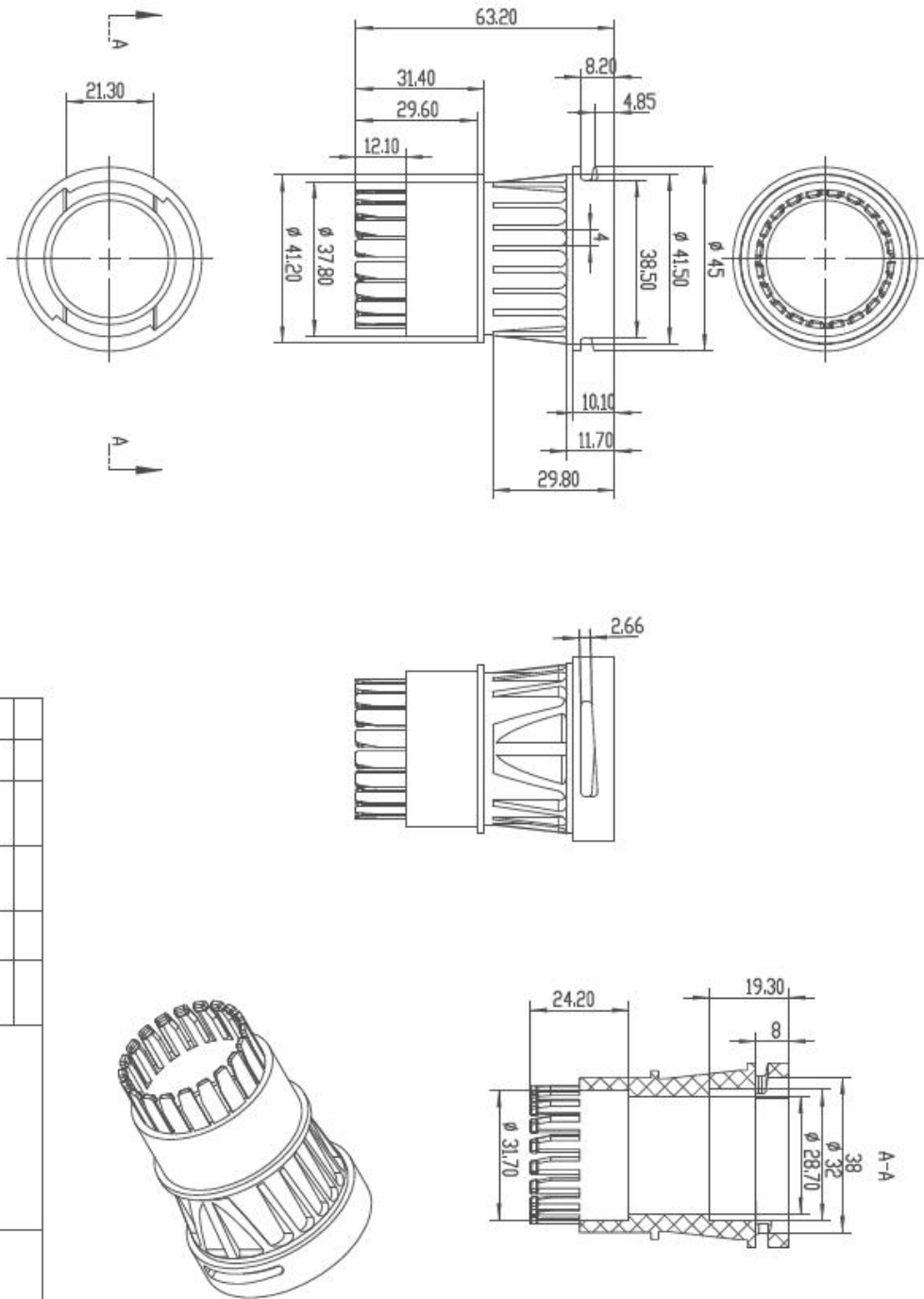
Compression adaptor: No marking

	Protection pipe	Wall box
Material	PP	PE
Dimensions	25/20 mm	-
Colour	Black	See the photo in table 1

Table 3							
6.4.7 – Water tightness of wall box and connection between box and protection pipe							
Sample No.	Length of connected protection pipe mm	Misalignment 250 mm from wall box mm	Test temperature °C	Test pressure kPa	Test duration min	Requirement met	
						Yes	No
1 Item id. 1	3000	80	23	30	5		X
2 Item id. 1	3000	80	23	30	5	X	
3 Item id. 1	3000	80	23	30	5		X
Retest							
1b	3000	80	23	30	5	X	
2b	3000	80	23	30	5	X	
3b	3000	80	23	30	5	X	
<p>Requirement No visible leakage.</p> <p>Test conditions Uncertainty of test results: Temperature ± 2 °C. Geometry $\pm 3\%$. Tightening torque: The nut is fastened by hand until the stop is achieved. Test equipment: 7157</p>							

Table 4						
6.4.8 – Resistance to pull-out						
Item Id.	Sample No.	Test temperature °C	Test duration min	Pulling force N	Requirement met	
					Yes	No
1	4	23	5	100	X	
1	5	23	5	100	X	
1	6	23	5	100	X	
<p>Requirement: The pipe shall not slip or loosen from the box during the testing time.</p> <p>Test conditions Uncertainty of test results: Temperature ± 2 °C Tightening torque: The nut is fastened by hand until the stop is achieved. Test equipment: 101997, 270-A-2500-5</p>						

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设计	校核	审核	批准	日期	设计	校核	审核	批准	日期	共张	第张	版本	替代
标准号				年月日	更改文件号				年月日	数量			
标准名称				年月日	更改内容				年月日	比例			
工艺					工艺					1:1			
主管设计					审核					1:1			
批准					批准					1:1			