

FM Zulassung

Lindapter M10 Swiftgrip Beam Clamp

gültig für

**Trägerklammer mit Gelenk Typ FLS
M10**

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APPROVAL REPORT

**MODEL: M10 SWIFTGRIP BEAM CLAMP
PIPE HANGER COMPONENT**

Prepared For:

**Lindapter International
Lindsay House, Brackenbeck Road
Bradford, West Yorkshire BD7 2NF
England**

Project Identifier: 3017684

Class: 1951

Date of Approval: May 27, 2004

Authorized by:

A handwritten signature in black ink, appearing to read "Roger L. Allard", written over a horizontal line.

Roger L. Allard, Assistant Vice President

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USA

**MODEL: M10 SWIFTGRIP BEAM CLAMP
PIPE HANGER COMPONENT**

from

**LINDAPTER INTERNATIONAL
LINDSAY HOUSE, BRACKENBECK ROAD
BRADFORD, WEST YORKSHIRE BD7 2NF
ENGLAND**

I INTRODUCTION

1.1 Lindapter International requested an examination for possible FM Approval of their Model M10 Swiftgrip Beam Clamp in nominal size M10 (3/8 in.).

1.2 This Report may be freely reproduced only in its entirety and without modification.

1.3 **Standards:**

Title	Class Number	Date
Approval Standard for Pipe Hanger Components for Automatic Sprinkler Systems	1951, 1952 and 1953	September 2003

1.4 **Listings:** The product discussed in this Report will be added to the current listing for Lindapter International in the Automatic Sprinkler Systems' section of the FM Approval Guide under the heading "Pipe Hangers" as follows:

**Lindapter International Lindsay House Brackenbeck Rd Bradford West Yorkshire
BD7 2NF England**

Product Designation	Hanger Rod Size, mm	Component Description	For Nominal Pipe Sizes, in.
10122	10 through 20	Type F3 Flange Clamp	3/4 through 6
10115	10 through 20	"	3/4 through 6
10096	10 through 20	Single Boss Split Pipe Ring	3/4 through 6
FL 2, (Malleable Iron)	10	Type FL Flange Clamp	3/4 through 4
FL 2, (Stainless Steel)	10	Type FL Flange Clamp	3/4 through 4
FL 3	12	"	5 through 8
M10 FLS	10	Swivel Beam Clamp	3/4 through 4
M10 Swiftgrip	10	Beam Clamp	3/4 through 4
3/8 FL S	3/8	Swivel Beam Clamp	3/4 through 4
SH	10	Loop hanger	1 through 4
SH	12	"	5 through 6
SH	16	"	8
TC	10	Toggle Clamp	3/4 through 4
Z	10	Z Beam Clamp	3/4 through 3

II DESCRIPTION

The M10 Swiftgrip beam clamp discussed in this Report is available in Hypress 26 and QSTE 420, both of which are 2.0 mil thick steel with zinc plating. Stainless steel in Grade 316, 2.0 mil thick is also available.

III EXAMINATION AND TESTS

- 3.1 Samples of the beam clamp were tested to determine its holding power. A straight pull was conducted on the beam clamp, which is the conventional method of test on beam clamps. Satisfactory results are indicated in Appendix I.
- 3.2 Based on the design of this beam clamp and the tests conducted for this Approval, no additional tests were deemed necessary. The results are considered satisfactory.
- 3.3 Due to the similarity of the stainless steel and carbon steel beam clamp, testing of the stainless steel was not deemed necessary.

IV MARKING

The following pertinent information is identified on the beam clamp:

LINDAPTER
< FM >
SWIFT 10

V REMARKS

- 5.1 Approval is limited to the specific product described in this Report. Other products listed in the manufacturer's data sheets, drawings, or other information is not covered by this Approval examination.
- 5.2 The manufacturer's recommendations for placement and installation must be followed at all times.

VI FACILITIES AND PROCEDURES AUDIT

- 6.1 The beam clamps discussed in this Report are Approved when manufactured at the following location. This site has been audited, and is included in the FM Approvals Facilities and Procedures Audit program.

Lindapter International
Lindsay House, Brackenbeck Rd
Bradford, West Yorkshire BD7 2NF
England

- 6.2 This manufacturing site is subject to follow-up audit inspections. The facilities and quality control procedures in place have been found to be satisfactory to manufacture product identical to that examined and tested as described in this Report.

VII MANUFACTURER'S RESPONSIBILITIES

- 7.1 Documentation considered critical to this Approval is on file at FM Approvals and listed in the Documentation File, Section VIII of this Report. No changes of any nature shall be implemented unless notice of the proposed change has been given and written authorization obtained from FM Approvals. The Approved Product Revision Report, Form 797, shall be forwarded to FM Approvals as notice of proposed changes.
- 7.2 This beam clamp is Approved when installed according to the manufacturer's installation instructions.

VIII DOCUMENTATION

The following drawings describe the beam clamps and are filed under Project ID: 3017684.

Drawing Number	Revision	Description
LTSD - 2490	10	Swiftgrip Swift 10 Flat Pattern
LSTD - 2491	4	Swiftgrip SWIFT 10 Bend Details
LSTD - 2493	3	Swiftgrip SWIFT 10 Jaw Stiffener
LTSD - 2496	2	Swiftgrip SWIFT 10 Finished Dimensions
LTSD - 2497	2	Swiftgrip – Swift 10 Marking Details
LSTD - 2506	1	Swiftgrip SWIFT 10 Anti-vibration Serrations
LTSD - 2509	1	Swiftgrip SWIFT 10 Assembly of two parts
LSTD - 2510	1	Swiftgrip SWIFT 10 Clamp secured to beam

IX CONCLUSION

The M10 Swiftgrip beam clamp described in Section 1.4 meets FM Approval requirements. Since a duly signed Master Agreement is on file for this manufacturer, Approval is effective the date of this Report.

TESTS AND EXAMINATION BY: Lindapter personnel and J. W. Normington

EXTERNAL TESTS WITNESSED BY: P. J. Conroy

ATTACHED: APPENDIX

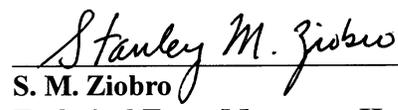
PROJECT DATA RECORD: P.I. 3017684

ORIGINAL TEST DATA: P.I. 3017684

REPORT BY: **REVIEWED BY:**



P. J. Conroy
Engineer - Hydraulics Group



S. M. Ziobro
Technical Team Manager - Hydraulics Group

FM APPROVALS
Project ID: 3017684

APPENDIX
Lindapter International

<u>Test No.</u>	<u>Rod Size (in.)</u>	<u>Maximum Pipe Size (in.)</u>	<u>Minimum Required Load (Test load)</u>		<u>Maximum Attained Load</u>	
			<u>Lbf.</u>	<u>(N)</u>	<u>Lbf</u>	<u>(N)</u>
Test Material: Hypress 26						
1	3/8"	4	1,475	6560	2,840	12,630
2	3/8"	4	1,475	6560	2,240	9,960
3	3/8"	4	1,475	6560	2,885	12,830
4	3/8"	4	1,475	6560	2,200	9,780
5	3/8"	4	1,475	6560	2,530	11,250
Test Material: QSTE 420						
1	3/8"	4	1,475	6560	3,305	14,700
2	3/8"	4	1,475	6560	3,305	14,700
3	3/8"	4	1,475	6560	3,305	14,700