

NOT to be distributed outside the FACTORY MUTUAL SYSTEM, except by CLIENT.

PIPE HANGER COMPONENTS
FOR
AUTOMATIC SPRINKLER SYSTEMS
"STABIL" PIPE CLAMPS

from

SIKLA GmbH AND CO., KG
POSTFACH 1354
D-7208 SPAICHINGEN
WEST GERMANY

J.I. OM6A7.AH
(1951)

JULY 26, 1985



Factory Mutual Research

1151 Boston-Providence Turnpike
P.O. Box 9102
Norwood, Massachusetts 02062



Factory Mutual Research

1151 Boston-Providence Turnpike
P.O. Box 9102
Norwood, Massachusetts 02062

OM6A7.AH
(1951)

July 26, 1985

PIPE HANGER COMPONENTS
FOR
AUTOMATIC SPRINKLER SYSTEMS
"STABIL" PIPE CLAMPS

from

SIKLA GmbH AND CO., KG
POSTFACH 1354
D-7208 SPAICHINGEN
WEST GERMANY

I INTRODUCTION

1.1 Sikla GmbH and Co., KG requested an approval examination of their "Stabil" pipe clamps Group 1232 and 1233.

1.2 Tabulated below are the Group 1232 and 1233 "Stabil" pipe clamp part numbers, appropriate hanger rod or eye bolt and their nominal pipe size.

TABLE I

<u>Product Designation</u>	<u>Hanger Rod Size</u>		<u>Nominal Pipe Size</u>	
	<u>in.</u>	<u>(mm)</u>	<u>in.</u>	<u>(mm)</u>
Group 1232				
No. 118277	3/8	(10)	3/4	(20)
118286	3/8	(10)	3/4	(20)
118295	3/8	(10)	1	(25)
118301	3/8	(10)	1 1/4	(32)
118310	3/8	(10)	1 1/2	(40)
118329	3/8	(10)	1 1/2	(40)
118338	3/8	(10)	2	(50)
118620	5/8	(16)	2 1/2	(65)
118639	5/8	(16)	2 1/2	(65)
118648	5/8	(16)	3	(80)
118657	5/8	(16)	3 1/2	(90)
118666	5/8	(16)	4	(100)
118675	5/8	(16)	4	(100)
118684	5/8	(16)	4	(100)
118693	5/8	(16)	5	(125)
118709	5/8	(16)	5	(125)
118718	5/8	(16)	6	(150)
118727	5/8	(16)	6	(150)
118736	5/8	(16)	6	(150)
118745	5/8	(16)	6	(150)

118754	5/8	(16)	6	(150)
118763	5/8	(16)	6	(150)
118772	5/8	(16)	8	(200)
118781	5/8	(16)	8	(200)
118790	5/8	(16)	8	(200)
118806	5/8	(16)	8	(204)
118198	5/8	(16)	10	(250)
118204	5/8	(16)	10	(250)

<u>Product Designation</u>	<u>Eye Bolt Size</u>		<u>Nominal Pipe Size</u>	
	<u>in.</u>	<u>(mm)</u>	<u>in.</u>	<u>(mm)</u>
Group 1233				
No. 118833	3/8 x 3/4	(10 x 20)	3/4	(20)
	3/8 x 1 1/2	(10 x 40)		
118842	3/8 x 3/4	(10 x 20)	3/4	(20)
	3/8 x 1 1/2	(10 x 40)		
118851	3/8 x 3/4	(10 x 20)	1	(25)
	3/8 x 1 1/2	(10 x 40)		
118860	3/8 x 3/4	(10 x 20)	1 1/4	(32)
	3/8 x 1 1/2	(10 x 40)		
118879	3/8 x 3/4	(10 x 20)	1 1/2	(40)
	3/8 x 1 1/2	(10 x 40)		
118888	3/8 x 3/4	(10 x 20)	1 1/2	(40)
	3/8 x 1 1/2	(10 x 40)		
118897	1 3/8 x 3/4	(10 x 20)	2	(50)
	3/8 x 1 1/2	(10 x 40)		
118903	3/8 x 3/4	(10 x 20)	2 1/2	(65)
	3/8 x 1 1/2	(10 x 40)		
102612	3/8 x 3/4	(10 x 24)	2 1/2	(65)
	3/8 x 1 1/2	(10 x 40)		
102621	3/8 x 3/4	(10 x 20)	3	(80)
	3/8 x 1 1/2	(10 x 40)		
102630	3/8 x 3/4	(10 x 20)	3 1/2	(90)
	3/8 x 1 1/2	(10 x 40)		
102649	3/8 x 3/4	(10 x 20)	4	(100)
	3/8 x 1 1/2	(10 x 40)		
118912	3/8 x 3/4	(10 x 20)	4	(100)
	3/8 x 1 1/2	(10 x 40)		
118921	3/8 x 3/4	(10 x 20)	4	(100)
	3/8 x 1 1/2	(10 x 40)		
102658	1/2 x 3/4	(12 x 20)	5	(125)
	1/2 x 1 1/2	(12 x 40)		
118930	1/2 x 3/4	(12 x 20)	5	(125)
	1/2 x 1 1/2	(12 x 40)		
102667	1/2 x 3/4	(12 x 20)	6	(150)
	1/2 x 1 1/2	(12 x 40)		

118949	1/2 x 3/4 (12 x 20)	6	(150)
	1/2 x 1 1/2 (12 x 40)		
118958	1/2 x 3/4 (12 x 10)	6	(150)
	1/2 x 1 1/2 (12 x 40)		
118967	1/2 x 3/4 (12 x 20)	6	(150)
	1/2 x 1 1/2 (12 x 40)		
118976	1/2 x 3/4 (12 x 20)	6	(150)
	1/2 x 1 1/2 (12 x 40)		
118985	1/2 x 3/4 (12 x 20)	6	(150)
	1/2 x 1 1/2 (12 x 40)		
102676	5/8 x 1 (16 x 25)	8	(200)
118994	5/8 x 1 (16 x 25)	8	(200)
119001	5/8 x 1 (16 x 25)	8	(200)
119010	5/8 x 1 (16 x 25)	8	(200)
119791	5/8 x 1 (16 x 25)	10	(250)
119807	5/8 x 1 (16 x 25)	10	(250)

1.3 The "Stabil" Group 1232 and 1233 using the appropriate hanger rod and eye bolt in connection with other approved components will support their respective piping as tabulated in Table I.

II DESCRIPTION

2.1 The attached manufacturer's data sheets shows a view of the "Stabil" pipe clamps along with other pertinent information.

III MARKING

3.1 Indented on the pipe clamp is the following information: Manufacturer's name, product designation, appropriate pipe size and the Factory Mutual mark of approval.

IV TESTS AND EXAMINATION

4.1 Representative samples of the Group 1232 and 1233 "Stabil" pipe clamps, assembled with other approved components to form hangers, were tested on a universal tensile testing apparatus to determine their holding power. The applied loads were increased beyond the required minimum in order to determine their ultimate strength. The attached Appendix shows the satisfactory results.

4.2 The samples submitted for this approval examination were found to represent the design adequately. Applicable data is on file at Factory Mutual.

V CONCLUSION

Sikla GmbH and Co., KG pipe hanger components as discussed in this report meet Factory Mutual approval requirements. Approval is effective when the Approval Agreement is signed and returned to Factory Mutual.

TESTS AND EXAMINATION BY:

Fred A. Lague

ORIGINAL DATA:

Notebook No. 85-199

ATTACHED:

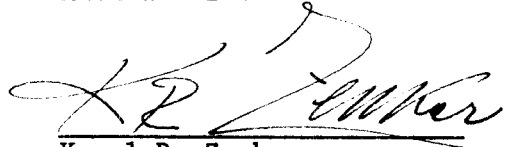
Manufacturer's Data Sheets
APPENDIX

REPORT BY:

REVIEWED BY:



Fred A. Lague
Senior Engineering Assistant
Hydraulics Section



Karol R. Zenker
Manager, Hydraulics Section

FAL/daj