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File Ex6887
Project 04CA15453
Project 04NK28479

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REPORT

on

INDICATOR POSTS, GATE VALVE

Fivalco Co. Ltd.
Beijing, China

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DESCRIPTION

PRODUCT COVERED:

Fig. IP888 vertical, adjustable type indicator post for use with gate valve sizes 4 through 12 in.

Fig. WP999 wall type indicator post for use with gate valve sizes 4 through 12 in.

CONSTRUCTION DETAILS:

The indicator and wall posts utilize heads, upper bodies, wrench nut adaptors, handwheels, and bells of ductile iron. The stem nut and target are bronze or 304 stainless, the target sign is aluminum, and the window is acrylic polymer.

The products have been examined and found to comply with the Standard for Indicator Posts, UL 789, in effect as of the date of this Report.

USE:

The products covered by this Report are for use in accordance with the National Fire Protection Association Standards For Low Expansion Foam, Installation of Sprinklers, Installation of Standpipe and Hose Systems, Water and Installation of Private Fire Service Mains; NFPA 11, NFPA 13, NFPA 14, and NFPA 24, respectively.

TEST RECORD NO. 1

SAMPLES:

Representative samples of Fig. IP888 vertical, adjustable type indicator post for use with gate valve sizes 4 through 12 in. were used for these tests.

GENERAL:

Test results relate only to the items tested.

TEST METHOD REFERENCE:

The following tests were conducted in accordance with the requirements described in UL 789.

1. Examination of Samples
2. Strength of Parts Test

EXAMINATION OF SAMPLES:

METHOD

The samples were examined for conformity with both the manufacturer's drawings and the applicable construction requirements of the Standard for Indicator Posts for Fire Protection Service, UL 789.

RESULTS

The samples were found to be in compliance with both the manufacturer's drawings and the applicable construction requirements of UL 789.

STRENGTH OF PARTS TEST:

METHOD

Each sample indicator post assembly including barrel, cap, operating stem, stem nut, extension rod and wrench was bolted to the gate valve base plate.

The turning force was applied to the underground type using a torque wrench secured to the indicator post wrench. The force applied to the wrench or handwheel was held for 1 min. \

After application of the torque, each sample was examined for any signs of damage or failure.

RESULTS

The sample indicator post withstood the torques as shown in Table I below.

Model Fig.IP888

Handcrank Length, in. 18.1

TABLE I

Sample No.	Test Torque, ft. lb.		Remarks
	Required	Torque Achieved	
(Ground)	650	653	A

A - No failure of any part.

TEST RECORD NO. 2

SAMPLES:

Representative samples of Fig. WP999 wall type indicator post for use with gate valve sizes 4 through 12 in. were used for these tests.

GENERAL:

Test results relate only to the items tested.

TEST METHOD REFERENCE:

The following tests were conducted in accordance with the requirements described in UL 789 (10th. Edition).

1. Examination of Samples
2. Strength of Parts Test

EXAMINATION OF SAMPLES:

METHOD

The samples were examined for conformity with both the manufacturer's drawings and the applicable construction requirements of the Standard for Indicator Posts for Fire Protection Service, UL 789.

RESULTS

The samples were found to be in compliance with both the manufacturer's drawings and the applicable construction requirements of UL 789.

STRENGTH OF PARTS TEST:

METHOD

Each sample wall post assembly including barrel, cap, operating stem, stem nut, extension rod and handwheel.

The turning force was applied to the handwheel using a torque wrench secured to the gripping portion of the handwheel. The force applied to the handwheel was held for 1 min.

After application of the torque, each sample was examined for any signs of damage or failure.

RESULTS

The sample wall post indicator withstood the torque as shown in Table I below.

Model Fig.WP999

Handwheel Diameter, 13.97 in. (355 mm)

TABLE I

Sample No.	Test Torque, ft. lb.		Remarks
	Required	Torque Achieved	
(Wall)	450	450	A

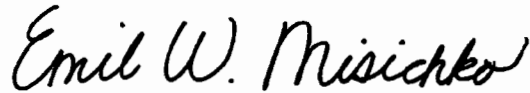
A - No failure of any part.

Test Record Summary:

The results of this investigation indicate that the products evaluated comply with the applicable requirements and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Test Record by:

Reviewed by:



KEVIN KORT

EMIL W. MISICHKO

Lead Engineering Associate

Section Manager

CONCLUSION

Samples of the product covered by this Report have been found to comply with the requirements covering the category and the products are judged to be eligible for Listing and Follow-Up Service. The manufacturer is authorized to use the UL Mark on such products which comply with the Follow-Up Service Procedure and any other applicable requirements of Underwriters Laboratories Inc. Only those products which properly bear the UL Mark are considered as Listed by Underwriters Laboratories Inc.

Report by:



John R. Serpe
Engineering Associate

Reviewed by:



KEN W. ZASTROW
Engineering Group Leader