NON-ROCKING MANHOLE COVERS

Manufactured Under U. S. Patent No. 1839739

NO NOISE—NO DISPLACED LIDS—NO EXTRA COST

Developed in 1927 and introduced to the trade in 1930. Now a recognized standard.

A recent survey by a leading trade publication relative to noisy manhole frames and covers, received comments from engineers in all sections of the country, many stating that even when castings were straight and true when placed in service, subsequent internal casting warpage or pavement pressure on the sides of the casting resulted in distortion and noisy manhole covers. The NON-ROCKING feature makes this easy to eliminate because further adjustment can be made at any time needed due to the variations of diameter in the tooth rack.

Simplicity of design and construction are features in themselves—they add no cost nor do they make the manhole cover complicated to adjust. Any one man can make a manhole frame and lid a silent unit in a few seconds. The NON-ROCKING MANHOLE COVER is strong and durable—lugs of lid and slots in the frame are integral cast and will not break nor wear.

To adjust, the lid is placed in a loose position in the frame and then by means of an ordinary hook, placed in the pick hole, is made snug by rotating the lid in relation to the frame until pointed lug “A” is selectively engaged with the appropriate slot in the rack cast in the frame. The teeth in this rack are graduated, each changing the diameter ½ inches, so it is simple to fit the lid snug in the frame to prevent any movement. The lid always remains in its proper seating position in the manhole frame and is never suspended on lugs A, B, and C.

Removal is effected with ease. Neither varying temperatures nor other factors make the lid difficult to remove. In addition, the necessity of placing asphalt or other filling around a manhole cover is eliminated.

NO LOCKS—NO KEYS—NO GASKETS—NO FILLING

SPECIFY NON-ROCKING MANHOLE COVERS

Page 7
MANHOLE COVERS

STANDARD MANHOLE FRAMES AND LIDS

Manhole anchors cast on any frame when specified. See page 21 for details of standard anchors.

TYPE "A" LID
KNOWBS 1" DIA. X 3/4" HIGH

TYPE "B" LID
INDENTED TOP DESIGN

TYPE "C" LID
CHECKERED TOP DESIGN

TYPE "D" LID
KNOWBS 1 1/4" DIA. X 3/4" HIGH

TYPE "E" LID
3/4" DIA. HOLES CORED THRU

STANDARD - LID
SHOWING BOTTOM REINFORCING

SEE CHART FOR SIZES

Any type lid furnished in non-rocking style. If holes are wanted in lids for ventilation, state number required. Bearing surfaces of manhole frames and lids machined when specified.

ALL CASTINGS ASPHALT COATED

Page 8
MANHOLE COVERS

STANDARD AND SPECIAL MANHOLE FRAMES AND LIDS

COMPLETE TABLE OF ALL SIZES AND DESIGNS
Dimensions in inches. Complete weights in pounds.

<table>
<thead>
<tr>
<th>No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Wt.</th>
<th>Type Lid</th>
<th>Notes</th>
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<td>N-101</td>
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SPECIAL MANHOLE COVERS

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<td>See N-174, p. 12.</td>
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USE CAST IRON MANHOLE STEPS

See page 20 for types and sizes.

* Has base flange.

USE NON-ROCKING MANHOLE COVERS

Page 9
MANHOLE COVERS

No. N-166
Milwaukee Standard
Diameter of base .................................. 38 inches
Diameter of base opening ........................... 25 1/2 inches
Diameter of lid ..................................... 28 inches
Height overall ..................................... 10 inches
Total weight ........................................ 350 pounds

No. N-167
Diameter of base .................................. 35 inches
Diameter of base opening ........................... 25 1/2 inches
Diameter of lid ..................................... 24 inches
Height overall ..................................... 7 1/2 inches
Total weight ........................................ 350 pounds

Also furnished with grate.

No. N-168
Diameter of base .................................. 34 inches
Diameter of base opening ........................... 23 3/4 inches
Diameter of lid ..................................... 23 3/4 inches
Height overall ..................................... 7 1/2 inches
Total weight ........................................ 410 pounds

No. N-169
Diameter of base .................................. 28 inches
Diameter of base opening ........................... 23 inches
Diameter of lid ..................................... 22 inches
Height overall ..................................... 4 inches
Total weight ........................................ 150 pounds

No. N-169-A
For Heavy Traffic
Total weight ........................................ 200 pounds

Cemetery or Park Manhole Cover
Fits in bell of 24-inch sewer pipe.
Also furnished with grate. See No. N-251, page 24.

ALL CASTINGS ASPHALT COATED
Page 10
## MANHOLE COVERS

**No. N-170**

Diameter of base: 30 inches  
Diameter of base opening: 24½ inches  
Diameter of lid: 22 inches  
Height overall: 63½ inches  
Total weight: 350 pounds


**No. N-171**

Diameter of base: 35 inches  
Diameter of base opening: 24½ inches  
Diameter of lid: 22 inches  
Height overall: 9 inches  
Total weight: 300 pounds


### No. N-172

**COMBINATION MANHOLE COVER AND VENTILATOR**

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<th>Ventilator</th>
<th>Height overall</th>
<th>Total weight</th>
<th>Cover cast in two parts</th>
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<tr>
<td>Top opening</td>
<td>25 inches</td>
<td>16x22 inches</td>
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<td>Base opening</td>
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<td>17x23 inches</td>
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### No. N-173

**COMBINATION MANHOLE COVER AND VENTILATOR**

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<td>7 inches</td>
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<tr>
<td>Base opening</td>
<td>16x31 inches</td>
<td>17x23½ inches</td>
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**SPECIFY NON-ROCKING MANHOLE COVERS**

Page 11
LARGE SIZE MANHOLE COVERS
No. N-174 SERIES

Table
Dimensions in inches. Total weight in pounds.

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<th>E</th>
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<td>25$\frac{1}{4}$</td>
<td>27</td>
<td>27$\frac{1}{2}$</td>
<td>46</td>
<td>10$\frac{1}{2}$</td>
<td>1$\frac{1}{2}$</td>
<td>675</td>
<td>Standard manhole covers.</td>
</tr>
<tr>
<td>N-175-C</td>
<td>31$\frac{1}{4}$</td>
<td>30</td>
<td>30$\frac{1}{2}$</td>
<td>49</td>
<td>10$\frac{1}{2}$</td>
<td>1$\frac{1}{2}$</td>
<td>800</td>
<td></td>
</tr>
</tbody>
</table>

DOUBLE LID MANHOLE COVERS

INNRE LID
GASKET
"U" IRON
TIGHTENING SCREW

Furnished Only on Manholes—No. 174 Series

ALL CASTINGS ASPHALT COATED

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MANHOLE COVERS

No. N-176
Diameter of base: 38 inches
Diameter of base opening: 27 inches
Diameter of lid: 25 inches
Height overall: 9 inches
Total weight: 435 pounds

Also made without ventilating holes in lid.

No. N-177

38—1/4" ventilating holes in lid.

No. N-178
Diameter of base: 35 inches
Diameter of base opening: 26 1/2 inches
Diameter of lid: 24 inches
Height overall: 7 1/2 inches
Total weight: 360 pounds

Also made with solid lid.

No. N-179
Diameter of base: 37 1/2 inches
Diameter of base opening: 23 1/2 inches
Diameter of lid: 23 1/4 inches
Height overall: 9 1/4 inches
Total weight: 575 pounds


SPECIAL MANHOLES FURNISHED FROM DRAWINGS
FLUSH VALVES

No. N-500 Flush Valve

Inside diameter ................................................. 8 inches
Metal thickness ................................................. 3/4 inch

Illustrating No. N-501-B

No. N-501 Series

No. N-501-A ........................................... 6 inches inside diameter
No. N-501-B ........................................... 8 inches inside diameter
No. N-501-C ........................................... 10 inches inside diameter
No. N-501-D ........................................... 12 inches inside diameter
No. N-501-E ........................................... 18 inches inside diameter

Metal thickness all sizes 3/4 inch.
Laying length 12 to 24 inches.
Galvanized when furnished when specified.

No. N-502 Cleanout Pipe

Outside diameter of pipe ........................................... 8 inches
Metal thickness ................................................. 3/4 inch
Cleanout hole diameter ........................................... 4 inches

AUTOMATIC DRAINAGE GATES

No. N-505 SERIES

AUTOMATIC DRAINAGE GATE TABLE

"A" Dimension Indicates Size
No. N-505-A ........................................... 12 inch
No. N-505-B ........................................... 15 inch
No. N-505-C ........................................... 18 inch
No. N-505-D ........................................... 24 inch
No. N-505-E ........................................... 30 inch
No. N-505-F ........................................... 36 inch

Showing drainage gate on concrete wall.

Used on drainage outlets where automatic stoppage of back water pressure is necessary. Opens and closes automatically.

ALL CASTINGS ASPHALT COATED

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LAMP STANDARDS

We have unexcelled facilities for producing castings to meet practically any specifications. The Lamp Standards illustrated on these pages combine strength and attractiveness as their essential elements.

These standards combine a pressed steel shaft with grey iron castings for the bases and top ornamentations. Our moulders are skilled mechanics and we use the finest grades of pig iron selected for its strength, toughness and even grain, to retain intricate details of the patterns. Each design has been cast to perfection—clean, sharp, and smooth, which enhances the beauty of the standard as a whole, all of which has played an important part in making our Standards so popular.

BEAUTIFUL - SUBSTANTIAL - STRONG - ECONOMICAL
LAMP STANDARDS

SAFETY ISLAND LIGHT
Castings for Safety Island Lights must be sufficiently strong to withstand sudden jars, even the weight of cars occasionally driven over them by accident. At the same time they must have a neat appearance and give greatest possible visibility to the light. Our facilities and experience to produce castings particularly adapted for this use and carrying out the customers' specifications for strength and beauty are unexcelled. Made in one to four lights.

HINGED FLOODLIGHT POLE
For Playgrounds, Pools, Etc.
As an inexpensive yet efficient method of lighting playgrounds, swimming pools, tennis courts, ball fields, gas stations, and similar uses, we offer this Hinged Floodlight Pole which is rapidly replacing stationary poles. The Hinged Pole offers many advantages. It can be lowered within the reach of workman or attendant without hazardous climbing or the use of ladders. It effects low maintenance expense and its flexibility makes for convenient and economical lighting for those places for which this type of light pole is adapted. By permitting frequent cleaning the Reflector and Light are always kept 100% efficient.
ALL CASTINGS MANUFACTURED
ACCORDING TO
A. S. T. M. STANDARDS

THE analysis of metal in all castings is of suitable and sufficient tensile and transverse strength to insure the best service for the purpose required.

Complete testing facilities and equipment enable us to make regular tests that assure uniform high quality castings.