

NAYLER

J.H.NAYLOR LTD. WIGAN

Bifold Safety Lamp 1



Bifold Burner Lamp





Bifold Burner 4



Spiralarm



THE SPIRALARM

An Automatic Detector
of Combustible Gases in
any atmosphere

ROBUST, SIMPLE AND
ECONOMICAL

For the protection of life
wherever inflammable gases
are present the Spiralarm fills
a long felt need. It is com-
posed of a Mined Flame Safety
Lamp of approved design. The
steel gas and gas-tight
joints ensure that no ignition
of explosive gases can be
caused by the presence of the
sensing flame. The Spiralarm is
designed to meet the require-
ments of Local Authorities,
Petrol Companies, Collieries,
works, where inflammable
gases are present, and for any
undertakings where life is
endangered by the presence
of inflammable gases.

Full particulars obtainable from
J. H. NAYLOR LTD.
CENTRAL BRASS WORKS
WIGAN

Telephone: Wigan 5616
Telegrams: "Naylor Wigan"



A Spiralarm „TYPE M“ was used for detecting explosive gas in the mine. The „TYPE S“ used in sewers. In der Lampe befand sich ein Bimetallkontakt. Dieser schloss, wenn er sich der Bimetallkontakt zu stark erhitzte (Gas) einen elektrischen Stromkreis. Dann leuchtete eine Batteriebetriebene Glühlampe im unteren Bereich der Lampe. Merkmal: kleines rotes Glas > M (mine) großes rotes Glas > S (sewers / Sanitär / Abwasserkanal)

Catalog Safety Lamps and Gas Detectors 17.09.1933

To meet the requirements of the managers, surveyors, dispatch and local requirements, this lamp is made in the following types:—

1. **Hibbel Thermo Lamp** in form with blue-plated steel shield and steel frame, rivet lock and safety system. Weight 28 lbs. Price 18.9
2. The same lamp but with aluminum shield. Weight 26 lbs. Price 19.9
3. As above, but with aluminum shield collar. Weight 26 lbs. Price 23.9
4. The same lamp as No. 2, but with aluminum bottom collar. Weight 26 lbs. Price 23.
5. As No. 4, but guaranteed non-magnetic. Suitable for surveying purposes. Weight 26 lbs. Price 27.
6. As No. 1, but fitted with magnetic lock instead of rivet lock. Weight 26 lbs. Price 17.
7. As No. 6 with the addition of electric light. Weight 26 lbs. Price 38.6
8. A smaller lamp, 5 1/2 in. high instead of 9 1/2 in., taking a glass 3 1/2 x 3 1/2 in. Weight 24 lbs. Price 18.9
9. The same as No. 8, but with aluminum shield and collar. Weight 24 lbs. Price 23.

Unless noted otherwise, the shield is fitted with deflector ring.

The Hibbel Safety Lamp in all types is approved by the Board of Trade Mines Department.

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36. As No. 15, but tested and guaranteed to be non-magnetic. Suitable for surveying. Weight 18 lbs. Price 16.

Any of the above lamps can be supplied with the addition of electric light at an extra charge of 1/3 per lamp. The substitution of a magnetic lock instead of a rivet lock can be done at an extra charge of 1/3 per lamp.

37. A smaller lamp made in any of the above styles at the same prices. Only 9 1/2" high instead of 9 1/2" and taking a glass 3 1/2 x 3 1/2 in. and corresponding light in weight.

A lamp similar to No. 15 in this smaller type only weighs 11 lb. 10 oz.

All the above lamps can be supplied with or without deflector ring riveted to the shield.

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The system of flame regulation in the Hibbel Safety Lamp is most accurate. Actually the wicks do not move, but the burner tubes slide up and down. The height of the flame can be regulated with positive accuracy and will remain the same for 14 to 16 hours without any readjustment whatever. No matter how small a flame is wanted, the lamp will burn steadily. This applies even when a non-luminous flame is required.

In ordinary use, the Hibbel Thermo Lamp gives a good steady light, and only consumes one halfpint of fuel in 40 hours. The lamp is a little more expensive than most safety lamps, but it is so economical in use that the user is quickly repaid for the extra outlay.

The two burners are placed side by side in such a position that, when tilted to the left flame size, the two flames join together and give one good, broad, luminous flame. Throughout the shift the lamp goes on evenly power and is particularly free from noise.

This lamp has been tested in very high altitudes and is efficient when the air is vitiated. It is a coal lamp, and the reports from users in various parts of the world are extremely good.

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MARSAUT "E" (SHUT-OFF) LAMP

Description:

A specially designed deflector shield in blue-plated steel or aluminum with rivet frame or aluminum top and frame 20 x 20 inch or 20 x 25 inch, fitted with open frame hoops of such design as to make it impossible to assemble the lamp without both gases being in position. Approved quality glass, 30 x 40 in. Cast frame or aluminum collar.

The vessel can either be that of our Hibbel Thermo Lamp, the Marsaut "A" or Marsaut "B" lamps. The two last named can be supplied to frame or aluminum.

The middle collar in this lamp is fitted with a shut-off ring to close the air inlet holes. This ring is held in position by a spring and is closed by a slight movement in a clockwise direction. When this takes place the only air inlet is through the top of the burner and gas can be detected within 1/2 in. of the roof.

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MARSAUT "A" & "B" APPROVED FLAME SAFETY LAMPS.

Description, Marsaut "A":

Blue-plated steel shield, steel frame 28 x 28 inch or 28 x 31 inch, fitted with open frame hoops of such design as to make it impossible to assemble the lamp without both gases being in position.

Approved quality glass 26 x 30 in. Cast frame middle collar with vertical slots and side cast frame rivets.

Flame regulation by means of thread move or pinlock wire.

This lamp incorporates several novel improvements. The burner is completely enclosed. This type of enclosed burner shows a marked improvement in lamps consuming several cubic feet of gas. It certainly reduces the tendency to smoke and the flame is not tilted at any angle due to expansion of oil in the lamp.

The burner tube is slightly movable. The wick assumes the same shape after a few hours as well because the candle point.

A special grade of mineral oil with the addition of paraffin to the extent of one part to seven is the most suitable fuel for this lamp.

The lamp is supplied with standard glass 28 x 28 or 31 x 20 inch and can also be supplied with 28 x 20 inch glass slightly taller. This last improvement is very strongly recommended. It increases the candle power to 1.4.

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MARSAUT "B" LAMP.

These differ from Marsaut "A" lamps in the arrangement of the middle collar, deflector and shield.

The middle collar carries a deflector ring of suitable depth.

The lamp is suitable for the highest reflectors.

The shield is of the lower type and is held in position by means of a lead rivet.

The vessel, burner, gases, etc., are the same as in the Marsaut "A" lamp and prices are 6d. higher for each corresponding type.

Marsaut "B" lamps are not made in the smaller size as No. 12.

All Marsaut "B" lamps are approved by the Board of Trade Mines Department.

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MARSAUT "N" FLAME SAFETY LAMP

Description:

Blue-plated steel shield, steel frame, 28 x 28 inch or 28 x 31 inch, fitted with open frame hoops of such design as to make it impossible to assemble the lamp without both gases being in position.

Approved quality glass 26 x 30 in. Cast frame middle collar with vertical slots and side cast frame rivets.

Flame regulation by means of thread move or pinlock wire.

This lamp incorporates several novel improvements. The burner is completely enclosed. This type of enclosed burner shows a marked improvement in lamps consuming several cubic feet of gas. It certainly reduces the tendency to smoke and the flame is not tilted at any angle due to expansion of oil in the lamp.

The burner tube is slightly movable. The wick assumes the same shape after a few hours as well because the candle point.

A special grade of mineral oil with the addition of paraffin to the extent of one part to seven is the most suitable fuel for this lamp.

The lamp is supplied with standard glass 28 x 28 or 31 x 20 inch and can also be supplied with 28 x 20 inch glass slightly taller. This last improvement is very strongly recommended. It increases the candle power to 1.4.

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https://www.karl-heupel.de/dokuwiki/

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MARSAULT "N" FLAME SAFETY LAMP—Continued.

The Marsault "N" Lamp is a good lamp for the detection of gas. It gives a very good light and only consumes one half pint of fuel in 40 hours. It is particularly free from smoke. It is fitted with an filling valve and can be supplied with electric ignition and emergency lock. It is available in several types as follows:—

21. Marsault "N" Lamp with blue plated steel shell and steel glass, steel lock and ordinary ignition. Weight 4lb. Price 16/6

22. The same lamp, but with chromium shell. Weight 3lb. 10oz. Price 20/6

23. As above, but with chromium inside cover. Weight 3lb. 10oz. Price 22/6

24. The same lamp as No. 22, but with chromium bottom cover. Weight 3lb. 10oz. Price 23/6

25. As No. 24 but with copper glass and guaranteed non-explosive. Suitable for saving purposes. Price 22/6

Any of the above types can also be supplied with electric ignition at an increase of 1/6 and with emergency lock at an increase of 1/6.

The Marsault "N" Lamp in all types is approved by the Board of Trade Mining Department.

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THE PATENT BIFOLD BURNER SAFETY LAMP.

Description:

Blue plated steel shell, steel glass, 20 x 20 mesh, or 20 x 20 mesh, fitted with special lamp of such design as to make it impossible to assemble the lamp without both glasses being in position.

Approved quality glass 20 x 40 mesh. Cast brass inside cover with vertical slots. Cast brass bottom cover, cast brass cover fitted with patent double burner to take special chimney which.

Flame regulated by means of standard wire.

This lamp consumes paraffin, a very economical fuel easily obtained in all parts of the world at a low price. It never varies in quality and possesses all the qualities of a natural product.

The Bifold Safety Lamp is used in all parts of the world and is recommended in use, gives a high candle power and is really required by the officers in charge of all parts being interchangeable.

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[Back to Mining lamps UK](#)

[Wetterlampen](#)

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Last update: **2020/03/26 11:36**

