

# 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  
whenever inflammable gases  
are present the Spiralarm fills  
a long felt need. It is com-  
posed of a Miner's Flame Safety  
Lamp of approved design. The  
steel gas-in and gas-out  
joints ensure that no ignition  
of explosive gases can be  
caused by the presence of the  
tuning 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  
undertaking where life is  
endangered by the presence  
of inflammable gases.

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

Wigan Works  
Wigan Works



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 Bimetalkontakt. Dieser schloss, wenn er sich der Bimetalkontakt 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 manager, foreman, deputies and head requirements, this lamp is made in the following types:—

1. 10444 Miner Lamp in form with blue-plated steel shield and steel gasses, rivet lock and safety ignition. Weight 28 oz. Price 18.9
2. The same lamp but with aluminum shield. Weight 26 oz. Price 17.9
3. As above, but with aluminum middle collar. Weight 26 oz. Price 22.9
4. The same lamp as No. 1, but with aluminum bottom collar. Weight 26 oz. Price 23.
5. As No. 4, but guaranteed non-magnetic. Suitable for surveying purposes. Weight 26 oz. Price 27.
6. As No. 1, but fitted with magnetic lock instead of rivet lock. Weight 26 oz. Price 17.
7. As No. 6 with the addition of electric ignition. Weight 26 oz. Price 28.6
8. A smaller lamp, 9 1/2 in. high instead of 10 in., taking a glass 23 x 24 oz. Weight 24 oz. Price 18.9
9. The same as No. 8, but with aluminum shield and collar. Weight 24 oz. Price 23.

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

The 10444 Safety Lamp in all types is approved by the Board of Trade Mines Department.

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10. As No. 13, but tested and guaranteed to be non-magnetic. Suitable for surveying. Weight 28 oz. Price 26.

Any of the above lamps can be supplied with the addition of electric ignition at an extra charge of 12 per lamp.

11. A smaller lamp made in any of the above styles of the same price. Only 9 1/2" high instead of 10" and taking a glass 23 x 24 oz. and corresponding light in weight.

A lamp similar to No. 15 is this smaller type only weighs 18 oz.

All the above lamps can be supplied with or without deflector ring rivet in the shield.

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The system of flame regulation in the 10444 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 16 to 18 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 Patent 10444 Miner Lamp gives a good steady light, and only consumes one half-pint of fuel in 40 hours. The lamp is a little more expensive than most safety lamps, but it is so constructed in use that the same is quickly repaired by the mine worker.

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 gives one steady power and is particularly free from smoke.

This lamp has been tested in every high altitude and in conditions where 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 burner or aluminum top, steel gasses 20 x 20 mesh or 28 x 25 mesh, fitted with open flame lamps of such design as to make it impossible to assemble the lamp without having gasses being in position. Approved quality glass, 20 x 24 oz. Cast brass or aluminum collar.

The vessel can either be that of our 10444 Miner Lamp, the Marsaut "A" or Marsaut "N" lamps. The two last named can be supplied in brass 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 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 gasses 28 x 28 mesh or 20 x 21 mesh, fitted with open flame lamps of such design as to make it impossible to assemble the lamp without having gasses being in position.

Approved quality glass 26 x 30 oz. Cast brass middle collar, with vertical slots, cast brass bottom collar, with one brass rivet fitted with the burner to take 7" mesh. Flame regulation by means of parallel wire.

The lamp consumes 1 pint of oil in the miners allowed by the trade, gives a good steady power, is very strong in use, and gives the burner full flame to every full pint of oil.

All parts are interchangeable and repairs are easily carried out at the colliery.

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Marsaut "A" Lamps are approved by the Board of Trade Mines Department.

**Marsaut "B" Lamps.**

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 altitudes.

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

The vessel, burner, gasses, 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 gasses, 28 x 28 mesh or 20 x 21 mesh, fitted with open flame lamps of such design as to make it impossible to assemble the lamp without having gasses being in position.

Approved quality glass 26 x 30 oz. Cast brass middle collar with vertical slots and rivet cast brass rivet.

Flame regulation by means of brass wire or parallel wire.

The lamp incorporates several novel improvements. The burner is completely enclosed. This type of enclosed burner affords a marked improvement in lamps consuming mineral rock oil. It certainly reduces the tendency to smoke and the flame is not affected by any draught due to expansion of oil in the lamp.

The burner tube is slightly conical. The wick contains the same shape after a few hours, and will burn because the candle paper.

A special grade of mineral rock 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 gasses 28 x 28 or 21 x 20 mesh and can also be supplied with 28 x 20 mesh gasses slightly taller. This last improvement is very strongly recommended. It increases the candle power to 1.4.

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HAZARD "N" FLAME SAFETY LAMP—Continued.

The Hazard "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 magnetic lock. It is available in several types as follows:—

21. Hazard "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 aluminium shell. Weight 3lb. 10oz. Price 20/6
23. An electric lamp with aluminium shell and electric ignition. Weight 3lb. 10oz. Price 22/6
24. The same lamp as No. 22, but with aluminium brass shell. Weight 3lb. 10oz. Price 23/6
25. An No. 24 but with copper glass and guaranteed non-susceptible to any amount of L.L. Price 25/6

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

The Hazard "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:**  
This plated steel shell, steel glass, 20 x 20 inch, or 20 x 22 inch, fitted with open flame burner of such design as to make it impossible to assemble the lamp without both glasses being in position.

Approved quality glass 20 x 40 inch. Cast brass visible collar with vertical slots. Cast brass bottom collar, cast brass screw fitted with patent double burner to take special circular wick.

Flame regulated by means of standard screw.

This lamp consumes practically 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 mineral product.

The Hazard Safety Lamp is used in all parts of the world and is considered in fact, gives a high candle power and is easily repaired by the officer in command, all parts being interchangeable.



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