

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 a
simple and efficient Safety
Lamp of approved design. The
steel frame and gas-tight
joints ensure that no ingress
of explosive gas can be
caused by the presence of the
testing flame. The Spiralarm is
designed to meet the require-
ments of Local Authorities,
Petrol Companies, Collieries,
works where inflammable
gases are present, and for use
underground, where life is
endangered by the presence
of inflammable gases.

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

Telephone : Wigan 3615
Cablegram : "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 miner, surveyor, detector and local requirements, this lamp is made in the following types:—

1. Hildel Hunter Lamp in form with blue-plated steel shield and steel frame, rivet lock and safety system. Weight 25 lb. Price 18.9
2. The same lamp but with aluminium shield. Weight 25 lb. Price 19.9
3. As above, but with aluminium shield collar. Weight 25 lb. Price 20.9
4. The same lamp as No. 1, but with aluminium bottom collar. Weight 25 lb. Price 20.9
5. As No. 1, but guaranteed non-magnetic. Suitable for surveying purposes. Weight 25 lb. Price 27.9
6. As No. 1, but fitted with magnetic lock instead of rivet lock. Weight 25 lb. Price 17.9
7. As No. 1 with the addition of electric system. Weight 25 lb. Price 28.6
8. A smaller lamp, 5 1/2 in. high instead of 9 1/2 in., taking a glass 5 1/2 x 3 1/2 in. Weight 25 lb. Price 18.9
9. The same as No. 1, but with aluminium shield and collar. Weight 25 lb. Price 23.9

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

The Hildel Hunter 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 15 lb. Price 18.9

Any of the above lamps can be supplied with the addition of electric system 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 5 1/2 x 3 1/2 in. and not 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 Hildel Hunter 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 Hildel Hunter Lamp gives a good steady light, and only consumes one halfpenny of fuel for 40 hours. The lamp is a little more expensive than most safety lamps, but it is so constructed 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 aluminium with rivet lock or aluminium top, steel frame 20 x 20 inch or 25 x 25 inch, fitted with open frame lamps of such design as to make it impossible to assemble the lamp without both gases being in position. Approved quality glass, 20 x 40 in. Cast brass or aluminium reflector.

The vessel can either be that of our Hildel Hunter Lamp, the Marssaut "A" or Marssaut "E" lamps. The two last named can be supplied to brass or aluminium.

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, Marssaut "A":

Blue-plated steel shield, steel frame 20 x 20 inch or 25 x 25 inch, fitted with open frame lamps of such design as to make it impossible to assemble the lamp without both gases being in position.

Approved quality glass 20 x 40 in. Cast brass middle collar with vertical slots and rivet lock brass reflector.

Flame regulation by means of friction wire.

The lamp consumes 1/2 lb. of the mixture of gas and air, gives a good steady power, is very simple 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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Marssaut "A" Lamps are approved by the Board of Trade Mines Department.

Marssaut "B" Lamps.

These differ from Marssaut "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 same type and is held in position by means of a lead rivet.

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

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

All Marssaut "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 20 x 20 inch or 25 x 25 inch, fitted with open frame lamps of such design as to make it impossible to assemble the lamp without both gases being in position.

Approved quality glass 20 x 40 in. Cast brass middle collar with vertical slots and rivet lock brass reflector.

Flame regulation by means of friction wire or friction 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 affected by any oxygen due to expansion of oil in the lamp.

The burner tube is slightly conical. The wick assumes the same shape after a few hours' use and becomes 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 gases 20 x 20 or 25 x 25 inch and can also be supplied with 25 x 25 inch gases slightly taller. This last improvement is very strongly recommended. It increases the candle power to 1.4.

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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 aluminium shell. Weight 3lb. 10oz. Price 20/6
23. As above, but with aluminium inside cover. Weight 3lb. 10oz. Price 22/6
24. The same lamp as No. 22, but with aluminium bottom cover. Weight 3lb. 10oz. Price 23/6
25. As No. 24 but with copper glass and guaranteed non-explosive. Suitable for mining purposes. Price 27/6

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 outside collar with vertical slots. Cast brass bottom collar, cast brass cross fitted with patent double burner to take special candles 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 perfect 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 colliery managers all parts being interchangeable.



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