

NAYLER

J.H.NAYLOR LTD. WIGAN

Bifold Safety Lamp 1



Bifold Burner Lamp





Bifold Burner 4



Catalog Safety Lamps and Gas Detectors 17.09.1933

To meet the requirements of the managers, surveyors, inspectors and local requirements, this lamp is made in nine different types. —

1. Hildal Diver Lamp is made with the plated steel shell and steel glasses, rivet lock and ordinary ignition. Weight 25a. Price 15.9
2. The same lamp but with aluminium shell. Weight 25a. Price 19.9
3. As above, but with aluminium shell and roller. Weight 25a. Price 23.9
4. The same lamp as No. 2, but with aluminium bottom roller. Weight 25a. Price 25.
5. As No. 4, but guaranteed non-magnetic. Suitable for surveying purposes. Weight 25a. Price 27.
6. As No. 1, but fitted with magnetic lock instead of rivet lock. Weight 25a. Price 17.
7. As No. 4 with the addition of electric ignition. Weight 25a. Price 38.6
8. A smaller lamp, 5 1/2 in. high instead of 7 1/2 in. taking a glass 3 1/2 x 5 1/2 in. Weight 25a. Price 15.9
9. The same as No. 8, but with aluminium shell and roller. Weight 25a. Price 22.

Unless noted otherwise, the shell is fitted with detector ring.

The Hildal Safety Lamp (in all types) is approved by the Board of Trade Marine Department.

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36. As No. 15, but tested and guaranteed to be non-magnetic. Suitable for surveying.

Weight 55a. Price 35.

Any of the above lamps can be supplied with the addition of electric ignition 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 3 1/2" high instead of 5 1/2" and taking a glass 3 1/2 x 4 1/2 in. and correspondingly lighter in weight.

A lamp similar to No. 15 is this smaller type only weighs 11 1/2 lbs.

All the above lamps can be supplied with or without detector ring riveted to the shell.

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The system of flame regulation in the Hildal 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 re-adjustment whatever. As water has small flame is wanted, the lamp will burn steadily. This applies even when a non-business flame is required.

In ordinary use, the Patent Hildal Safety 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 user is quickly repaid by the extra safety.

The two burners are placed side by side in such a position that, when raised to the full flame size, the two flames join together and give one good, broad, level flame. Throughout the shift the lamp gives one steady power and is particularly free from smoke.

This lamp has been tested in very high altitudes 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 detector shell in the plated steel or aluminium with cast brass or aluminium top, steel glasses 20 x 25 mm or 2 1/2 x 2 1/2 inch, fitted with special brass screws of such design as to make it impossible to assemble the lamp without both glasses being in position. Approved quality glass, 20 x 40 mm. Cast brass or aluminium roller.

The control can either be that of our Hildal Diver Lamp, the Marsaut "A" or Marsaut "K" lamps. The two last named can be supplied in brass or aluminium.

The window roller in this lamp is fitted with a steel 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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MARSAULT "A" & "B" APPROVED FLAME SAFETY LAMPS.

Description, Marsault "A" :
Blue painted steel shield, steel gauze 28 x 28 mesh or 20 x 20 mesh, fitted with special lamp of such design as to make it impossible to assemble the lamp without both gauzes being in position.

Approved quality glass 28 x 40 mm. Cast brass middle collar with vertical slots, cast brass bottom collar, cast brass vessel fitted with flat burner to take 1/2" wick. Flame regulated by means of pin/ster wire.

The lamp consumes 1/4 lb of oil at the maximum allowed by the rules, gives a good candle power, is very simple to use and gives 40 hours of light from a full pint of oil.

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



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Marsault "A" Lamps are approved by the Board of Trade Mining Department.

Marsault "B" Lamps.
These differ from Marsault "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 velocities.

The shield is of the best type and is held in position by means of a lead strap.

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

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

All Marsault "B" lamps are approved by the Board of Trade Mining Department.



J. H. MARSAULT, LTD., WIGAN.

MARSAULT "N" FLAME SAFETY LAMP.

Description :
Blue painted steel shield, steel gauze 28 x 28 mesh or 20 x 20 mesh, fitted with special lamp of such design as to make it impossible to assemble the lamp without both gauzes being in position.

Approved quality glass 28 x 40 mm. Cast brass middle collar with vertical slots and solid cast brass vessel.

Flame regulated by means of French screw or pin/ster wire.

This lamp incorporates several novel improvements. The burner is completely enclosed. This type of enclosed burner shows a marked improvement in lamps consuming mineral oil. It certainly reduces the tendency to smoke and the flame is not affected at any stage 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 because the candle power.

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 gauzes 28 x 28 or 20 x 20 mesh and can also be supplied with 28 x 20 mesh gauze (double safety). The last improvement is very strongly recommended. It increases the candle power to 1.4.



J. H. MARSAULT, LTD., WIGAN.

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 oil filling valve and can be supplied with electric ignition and magnetic lock. It is available in several types as follows:—

21. Marsault "N" Lamp with blue painted steel shield and steel gauze, iron lock and ordinary ignition. Weight 4 lbs. Price 16/6
22. The same lamp, but with aluminium shield. Weight 2 lbs. 10 oz. Price 20/6
23. As above, but with aluminium middle collar. Weight 2 lbs. 10 oz. Price 22/6
24. The same lamp as No. 22, but with aluminium bottom collar. Weight 2 lbs. 10 oz. Price 23/6
25. As No. 24 but with magnetic ignition and guaranteed non-susceptible. Suitable for non-venting purposes. Price 25/6

Any of the above types can also be supplied with electric ignition at an increase of 1 lb. and with magnetic lock at an increase of 1 lb.

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



J. H. MARSAULT, LTD., WIGAN.

THE PATENT BIPOLO BURNER SAFETY LAMP.

Description :
Blue painted steel shield, steel gauze 28 x 28 mesh, or 20 x 20 mesh, fitted with special lamp of such design as to make it impossible to assemble the lamp without both gauzes being in position.

Approved quality glass 28 x 40 mm. Cast brass middle collar with vertical slots. Cast brass bottom collar, cast brass vessel fitted with patent bipolo burner to take special circular wick.

Flame regulated by means of French screw.

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 Bipolo Safety Lamp is used in all parts of the world and is recommended to use, gives a high candle power and is easily repaired by the colliery (expensive) all parts being interchangeable.



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