

Martindale

Before using the headpiece it is important that you read these instructions and those supplied with the Power Unit or ConnectAir Adapter.

It is important that only the approved combinations of headpieces are used. Please refer to the Table below for approved combinations

Head Pieces	Additional Approvals	Head Protection?	Eye Protection?	Proteus	Magnum 1000	Magnum 2000	Magnum 8500	Connect Air
				EN 146	EN 146	EN 12941	EN 12941/2	EN 1835
M23RVSN	EN 166 1B	No	Yes	THP2	THP2	TH2P	TH2P	LDH2
M23FUVN	EN 166 1B	No	Yes	THP2	THP2	TH2P	TH2P	LDH2
M23HFUV	EN 166 1B/ EN 397	Yes	Yes		THP2	TH2P	TH2P	LDH2
M23HFUVHTT	EN 166 1F/ EN 397	Yes	Yes		THP2	TH2P	TH2P	LDH2
M23AWSN	EN 175	No	Welding		THP2	TH2P	TH2P	LDH2
M23FSWVN	EN 166 1F / EN 175	No	Welding	THP2	THP2	TH2P	TH2P	LDH2
M23LHF		No	No		THP2	TH2P*	TH3P*	LDH3
M23FF	EN 136	No	Yes				TM3P	
M23HS/8		No	No				TH3P	LDH3
M23FH/8		No	No				TH3P	LDH3

*Note : When M23LHF and Magnum 2000/8500 is fitted with a P2 filter the device classification is TH2P, when fitted with a P3 filter classification is TH3P

WARNING

Respiratory protection will be reduced unless the headpiece/mask is correctly fitted and properly maintained. No respiratory protection is given with a flip up visor / helmet flip up visor of welding visor when the visor is in the up position. The respiratory protection offered by visors and hoods may be reduced where high wind velocities exist.

It is essential that the assembly and fitting of any protective equipment be done in a “clean air” area. The wearer should also leave the contaminated area and have all contamination removed from their person and clothes before removing the respiratory protection.

The following Protection Factors are given by the head piece, first figure is the Nominal Protection Factor derived from the products standard the second figure in brackets is the assigned protection factor from BS 4275. For specific application information refer to the instructions supplied with the power unit or airforce system.

Head Pieces	See Page No :	Proteus	Magnum1000	Magnum2000	Magnum8500	ConnectAir
		EN 146	EN 146	EN 12941	EN 12941/2	EN 1835
M23RVSN	1/2	20/(20)	20/(20)	50/(20)	50/(20)	50/(20)
M23FUVN	2	20/(20)	20/(20)	50/(20)	50/(20)	50/(20)
M23HFUV	2/3		20/(20)	50/(20)	50/(20)	50/(20)
M23HFUVHTT	2/3		20/(20)	50/(20)	50/(20)	50/(20)
M23AWSN	3/4		20/(20)	50/(20)	50/(20)	50/(20)
M23FSWVN	4/5	20/(20)	20/(20)	50/(20)	50/(20)	50/(20)
M23LHF	5		20/(20)	50/(20)*	500/(40)*	200/(40)
M23FF	5/6				2000/(40)	
M23HS/8	6				500/(40)	200/(40)
M23FH/8	6				500/(40)	200/(40)

*Note : When M23LHF and Magnum 2000/8500 is fitted with a P2 filter protection factor is 50/(20) , when fitted with a P3 protection factor is 500/(40)

M23RVSN Rigid Polycarbonate Visor with Saronex Hood

The Hood is made of Saronex, incorporating a polycarbonate visor attached to a brow guard. Filtered air is ducted from the Power Unit / regulator up a spiral reinforced PVC hose into an air channel and is discharged at the top of the visor directed into the breathing zone.

Although the hood is supplied fully assembled it may be necessary to remove the protective cover from the outside of the visor prior to use. It is also necessary to inspect that there is no visible damage to the hood, visor, browguard, and hose. The hose connects between the Power Unit, Regulator and air channel by a bayonet fitting.

Fitting

Attach hose to the Power unit or Regulator and turn on. Fit the waistbelt around the body with the buckle at the front, whilst supporting the headpiece.

Adjust the crown strap to achieve a comfortable fit with the headband above the ears. Don the visor and adjust the head harness to the correct size using the rear ratchet knob.

USER INSTRUCTIONS FOR : HEADPIECES FOR MAGNUM / PROTEUS / AIRFORCE CONNECTAIR

Maintenance

The visor should be replaced when it becomes scratched, damaged or pitted.

To remove the old visor, firstly remove the two front white studs by pushing them out from the inside. Then press the visor to deflect the sides away from the browguard and then remove.

To fit the screen to the browguard, locate the holes at both ends of the visor in the browguard. Feed the screen into the slot in the browguard and apply gentle pressure at the front of the visor to deflect it over the central carrier peg until it is located in the central visor hole. Ensure that all carrier pegs are fully located into the visor holes. Then re-fit the two white studs into the front of the browguard so that they go through both the browguard and the visor.

Hood, air hose or channel should be replaced if damaged.

Cleaning

The visor, browguard and hose should be swabbed with a soft cloth soaked in warm soapy water. Wipe with a dry soft cloth. Do not allow water to enter the air channel.

M23FUVN Flip-up Polycarbonate Visor

Filtered air is ducted from the Power Unit or Regulator up a spiral reinforced PVC hose, and into an air channel. The air is discharged into the top of the visor area maximising anti misting and directed to the breathing zone.

Although the Flip-up-Visor is supplied fully assembled it may be necessary to remove the protective cover from the outside of the visor prior to use. It is also necessary to inspect that there is no visible damage to the visor, browguard, headcover, face seal or hose.

The hose connects between the Power Unit, Regulator and air channel by a bayonet fitting.

Fitting

Attach hose to the Power Unit or Regulator and turn on. Fit the waistbelt around the body with the buckle at the front, whilst supporting the headpiece.

Adjust the crown strap to achieve a comfortable fit with the headband above the ears. Don the visor and adjust the head harness to the correct size using the rear ratchet knob.

Lower the visor and ensure that the face seal is pulled under the chin and fitted snugly around the face. Pull down the headcover so that it overlaps the edges of the browguard along the join with the visor. Tuck the head seal under rear edge of the browguard by the pivot point to achieve as close as fit as possible between the headcover and face seal.

Maintenance

The visor should be replaced when it becomes scratched or pitted.

To remove the old visor firstly remove the two front white studs by pushing them out from the inside. Then press the visor to deflect the sides away from the browguard and then remove.

To fit the screen to the browguard, locate the holes at both ends of the visor in the browguard. Feed the screen into the slot in the browguard and apply gentle pressure at the front of the visor to deflect it over the central carrier peg until it is located in the central visor hole. Ensure that all carrier pegs are fully located into the visor holes. Then re-fit the two white studs into the front of the browguard so that they go through both the browguard and the visor.

The headcover, face seal, air hose or channel should be replaced if damaged.

Cleaning

The visor, browguard and hose should be swabbed with a soft cloth soaked in warm soapy water. Wipe with a dry soft cloth. Do not allow water to enter the air channel.

The face seal and headcover may be washed at 40°C using domestic washing powder.

M23HFUV Helmet with Flip up Polycarbonate Visor,

M23HFUVHTT High Temperature Helmet with Clear Triacetate Flip Up Visor,

The **M23HFUV & M23HFUVHTT** is a helmet with a flip up visor which is fed with air from the waist mounted power unit or regulator via a spiral reinforced PVC hose and lightweight air channel.

Fitting

Before donning the helmet connect the hose to the power unit or regulator and fit the waist belt with the buckle at the front.

Check that air is coming out of the front of the inner air channel in the helmet and adjust the head harness strap as required to comfortably position the head harness on the head.

Don the helmet and tighten the headband. Note: For adequate head protection this helmet must fit or be adjusted to the size of the user's head. Adjust the helmet by means of the headband found at the rear of the helmet for a secure and comfortable fit. This helmet is made to absorb the energy of a blow by partial destruction or damage to the shell and the harness or protective padding and even though such damage may not be readily apparent any helmet subjected to severe impact should be replaced. Flip the visor down and pull the face seal under the chin ensuring a snug fit around the face.

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Maintenance

Check before use that all parts are operational and undamaged. If in any doubt contact the manufacturer.

Replace visor covers frequently and visor when scratched or damaged.

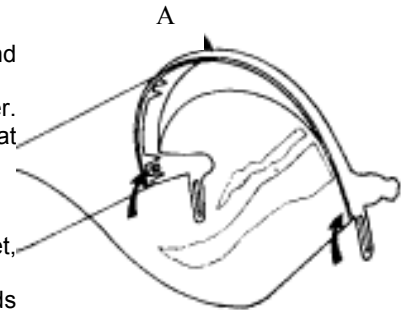
Other routine maintenance is limited to cleaning of the shell, hose and air channel, and replacement of the face seal as necessary.

Do not modify or remove any of the original component parts of the helmet or other respiratory parts other than those recommended by the Manufacturer. Do not apply paint or solvents or adhesives, or self-adhesive labels.

FITTING A NEW VISOR

To remove old visor, firstly remove the white stud located in the centre of the visor carrier (A) and remove visor.

To fit new visor, firstly locate the holes at both ends of the screen onto pegs in the screen carrier. Apply gentle pressure at the front of the screen to push it in place. Then refit the white stud so that it goes through both the visor carrier and the visor central hole.



Cleaning

Wiping with a damp (not wet) soft cloth soaked with warm soapy water may clean the helmet, hose and air channel. Dry by wiping with a soft dry cloth.

Care must be taken to avoid scratching. Cleaning with commercial solvents or organic compounds is not recommended as they cause surface compounds and stress leaving with a loss of physical properties.

The face seal may be washed at 40C with domestic washing powder.

M23AWSN Automatic Welding Visor

The Magnum Automatic Welding visor is a state-of-the-art Auto-change Welding Helmet that is fed with air from the waist mounted power unit or regulator via a spiral reinforced PVC hose and lightweight air channel.

The Welding Visor can be used for all welding processes except for laser and gas welding

Technical Data

Viewing area is: 98 x 38mm.

Light transmittance: Range of shade levels Din 10-12. Ultra violet protection and Infrared protection.

Switching time: From light to dark: 0.1 milliseconds at room temperature (as per EN379)

From dark to light: 0.2-0.3 seconds

Weight: approximately 470 grams (excluding air channel and hose)

Before Use

It is necessary to inspect that there is no visible damage to the welding visor, faceseal, air channel and hose.

The hose connects between the Power Unit or Regulator and air channel by a bayonet fitting.

Carry out the following checks before initial use:

1. Eccentric knob - at side of welding visor - turn knob to adjust the angle of the visor to suit your requirements.
2. Headband - to adjust headband set upper adjusting strap provisionally in position (as low as possible) and then push in knob (at back of headband) and turn. It will then click into the required position.
3. Locking nuts - loosen the locking-nuts and adjust the distance from the eyes. Adjust both sides at the same time and make sure the visor remains straight.
4. Sweatband - the sweatband for the forehead should be removed and washed as necessary.
5. Adjust cartridge slide inside shell to adjust shade levels as required.
6. Ensure that the outer welding lens cover is in place and not damaged.

Fitting

Attach hose to the Power unit or Regulator and turn on. Fit the waistbelt around the body with the buckle at the front, whilst supporting the headpiece. Check that air is coming out of the front of the air channel in the welding visor and adjust the crown strap as required to comfortably position the height of the head harness on the head.

Don the welding visor and tighten the headband using the rear ratchet knob.

The welding visor should be worn as close to face as possible.

Firstly loosen the two plastic nuts on the outside of the welding visor, which the shell pivots on, and push the welding visor shell back towards the face as far as it will go.

If the welding visor is touching the face, adjust by either rotating the tilt knob or by sliding the shell away from the face.

Flip the shell down and pull the face seal under the chin ensuring a snug fit around the face.

USER INSTRUCTIONS FOR : HEADPIECES FOR MAGNUM / PROTEUS / AIRFORCE CONNECTAIR

Maintenance

The welding visor requires practically no maintenance, as it is solar cell operated. No changing of batteries is necessary.

Replace front cover lens when dirty or damaged.

Other routine maintenance is limited to cleaning of the shell, hose and air-channel, and replacement of the foam and face seal as necessary.

To remove and replace the necessary parts as required:

1. Inner welding lens cover - insert into frame. Only use original inner welding lens covers.
2. Shade cartridge - to replace push shade cartridge outwards from the upper inside rim - to put back, reverse process.
3. Outer welding lens cover - to replace, place fingernail in groove and pull out lens.

FITTING REPLACEMENT SEALS

Fitting face seal

1. Locate face seal to the inside of the Welding visor by offering up the centre of the Velcro on the Face seal to the Velcro piece which is situated under the centre of the lens cartridge.
2. Working outwards from the centre, mate the entire length of the Velcro of the face seal to the welding visor. Push the foam pads of the face seal through the top slot in the section of the head harness where it attaches to the welding visor shell.

Fitting foam head seal

1. Push the centre of the foam head seal into the shell of the welding visor, so that the Velcro of the foam head seal mates with the Velcro in the welding visor.
2. Working outwards from the centre of Velcro piece in the welding visor mate the Velcro of the head seal. Ensure that an overlap exists between the top of the face seal and the bottom of the head seal on both sides.

Cleaning

Keep sensors and solar cells clean with a damp (not wet) cloth dipped in soapy water.

The welding visor (excluding the lens cartridge), and hose should be swabbed with a soft cloth soaked in warm soapy water. Wipe with a dry soft cloth.

Do not allow water to enter the air channel.

Troubleshooting

- * Uneven darkening: Protective-welding visor is not on straight, causing the distance between your eyes and the shade cartridge to vary. If necessary, decrease distance to shade cartridge.
- * The shade cartridge does not darken or flicker:
 - Sensors or sensor-bar are dirty
 - Sensor-bar is not straight
 - Front cover lens is dirty or damaged
 - Welding power is too low - remove sensor-bar
- * Slow switching times: Room temperature is too low (should not be below -5C)
- * Poor visibility:
 - Shade levels are set incorrectly
 - Front and rear cover lenses are dirty
 - Room lighting is insufficient
- * Welding visor slips: Headband is badly adjusted - set lower

If these faults cannot be corrected do not use shade cartridge anymore.

M23FSWVN Fixed Shade Welding Visor

The fixed shade welding visor is fed with air from the waist mounted power unit or Regulator via a spiral reinforced PVC hose and lightweight air channel.

Usage

The welding visor offers the face and eyes optimum protection against optical and thermal radiation and flying particles, which are emitted in welding operations and torch cutting.

Ultraviolet and Infrared radiation which can damage the eye is emitted in welding and cutting. Always look into the flame arc or the welding pool through a welding lens (of the correct shade).

Improper use of this product or failure to follow any of the instructions and warnings on the use of this product may endanger the wearer's health.

Before Use

A DIN approved welding filter that filters UV, Visible and IR radiation must be used. A splash lens must be fitted to protect the welding lens. A chipping lens is fitted in the fixed part of the window. Lenses (90 x 110 mm) should be obtained from a specialist-welding supplier who can advise on the correct shade of lens for your particular application. A shade 10 lens is provided with the system.

It is necessary to inspect that there is no visible damage to the welding visor, facesal, air channel and hose.

The hose connects between the Power Unit or Regulator and air channel by a bayonet fitting.

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Fitting

Attach hose to the Power unit or Regulator and turn on. Fit the waist belt around the body with the buckle at the front, whilst supporting the headpiece. Check that air is coming out of the front of the air channel in the welding visor and adjust the crown strap as required to comfortably position the height of the head harness on the head.

Don the welding visor and tighten the headband using the rear ratchet knob.

Flip the shell down and pull the face seal under the chin ensuring a snug fit around the face.

Maintenance

If the welding visor is broken or cracked do not use it. New lenses of the same type should replace damaged lenses.

Replace front cover lens when dirty or damaged.

Other routine maintenance is limited to cleaning of the shell, hose and air channel, and replacement of the face seal as necessary.

Fitting Replacement face seals

Firstly remove old face seal by removing small black plastic studs on the side of the weld shield by pulling from the outside. Then remove the complete face seal (detaching the elastic, which attaches to the head harness).

Fit new face seal in the same way as the old one and then replace the black studs.

Cleaning

The welding visor, air channel and hose should be swabbed with a soft cloth soaked in warm soapy water. Wipe with a dry soft cloth.

Do not allow water to enter the air channel.

M23LHF Light Weight Hood

The lightweight Hood with Semi Rigid Visor is made of Tyvek-F incorporating Acetate visor and a 2-point adjustable head harness, it is designed to be a short life disposable product.

Filtered air is supplied from a power unit or compressed air fed belt regulator via a reinforced PVC hose to the rear of the hood where it is fed to the breathing zone via an the integral air channel. An exhalation valve is fitted as standard to prevent excess pressure build up and to reduce CO₂ (Carbon dioxide) to a minimum.

The hood is supplied ready for use and only requires connection to the power unit/Compress air fed regulator.

PRE-USE INSPECTION

It is necessary to inspect the Hood for the following: -

- That there is no visible damage to the hood. Splits Tears etc.
- The hose and bayonet couplings are firmly attached and are undamaged.
- The o-rings of the bayonet ends are in situ and undamaged.
- The hood inlet spacing ring is in place (see diagram B).
- The diaphragm of the valve assembly is in place and laying flat.

BEFORE USE

Ensure hose bayonet end is securely connected to the hoods inlet (see diagram B).

Ensure that the free end of the hose is connected to the power unit or Compressed air regulator via an adapter (See instructions for use of the appropriate equipment)

Donning the hood

Open the neck seal cord to its fullest extent. Support the hood and fasten the power unit/Compressed air regulator belt around waist.

Turn on the power unit/ Connect to compressed air regulator to compressed air supply.

Pull the hood over the head and adjust head harness straps for position and comfort ensuring that the head harness sweatband is positioned on the forehead.

Tighten the neck seal cord by sliding the toggle up the cord until a tight but comfortable neck seal is achieved. It is very important that the neck seal is done up tightly.

Maintenance

Maintenance is limited to the replacement of a complete hood or hose assembly.

To replace the hose

Disconnect the hose from the fitting at the rear of the hood by holding the internal part of the air inlet and rotating the bayonet to disengage. (When reconnecting hose ensure that the inlet connector spacing ring is in situ')

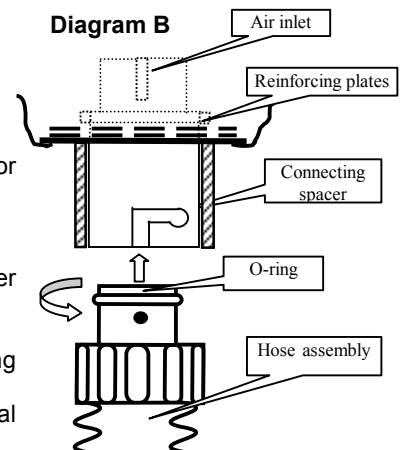
To replace Hood

Disconnect hose as above; remove the spacing ring and air inlet connection (complete with two reinforcement plates).

Locate air inlet and spacing ring in replacement hood, and then connect hose.

Cleaning

The exterior of the hood and hose should be swabbed with a soft cloth soaked in warm soapy water. Remove dirty suds with a soft damp cloth. Wipe with a dry soft cloth.



M23FF Blue Silicone Full Face Mask with Twin Air Hose,

Fitting

Screw the threaded connector on the twin air hose assembly into the front of the mask. Tightening by hand will obtain a suitable seal. *Do not use tools to tighten this thread.*

For the twin air hose, place the twin hose over the head so that one hose passes over each shoulder. If necessary adjust the position of the tie which holds the two hoses together, to prevent them from slipping off the shoulder.

For the single air hose M23FFSH, the hose should pass underneath the arm.

Fit the mask as detailed on the facemask instruction leaflet.

To test the fit of the mask, place the palm of your hand over the hose connector at the base of the air hose, inhale and hold your breath for a few seconds. If the mask fits properly it should cling to your face.

If the mask does not cling to your face, adjust the straps and check the security of the connection between the hose and the mask, then repeat the test. Assumed levels of protection are unlikely to be achieved with a poorly fitting mask.

Reach behind you and pull the free hose end under your arm. Push the hose connector into the outlet of the power unit and lock in place. Pass the power unit back under your arm and fit the waist belt for comfort.

Maintenance & Cleaning

Maintenance & cleaning information for the Face Mask is detailed on the separate instruction leaflet enclosed with the mask.

M23FH/8 PVC Full Hood

Before Use

If the full hood or half suit has been stored at a temperature below 15°C it must be allowed to warm to a minimum temperature of 15°C, for at least half an hour; do NOT use direct heat or a warm air stream in an attempt to accelerate this process.

Fitting

Open the neck seal to its fullest extent and place the hood over the head with the corrugated tube at the back.

Tighten the neck cape by sliding the toggle over the neck cord until a reasonably comfortable fit is achieved. It is important that the neck is not over-tightened, as this will trigger the low flow alarm (M23FH/8 only with Magnum 8500 only). As a guide it is recommended that the neck seal is adjusted to leave a gap between the neck seal and chin, at least large enough to insert three fingers; this enables a positive pressure to be maintained inside the hood while allowing some air to escape through the neck.

Take the tapes fitted to the back of the shoulder cape, pass them under the arms and through the eyelets in the front of the cape, crossed around the back and the tapes tied together. The tapes should be tight enough to stabilise the hood.

Warning: Over-tightening the neck seal will reduce the flow of air through the hood.

Fit the belt around the waist and position the power unit / regulator for comfort.

Maintenance

The exhale valve should be replaced every 24 months or earlier if any deterioration is noticed during routine pre-use inspection.

Cleaning

To clean all external components wipe with damp cloth dipped in warm soapy water. Dry with a soft, clean cloth.

M23HS/8 PVC Half Suit

Before Use

If the full hood or half suit has been stored at a temperature below 15°C it must be allowed to warm to a minimum temperature of 15°C, for at least half an hour; do NOT use direct heat or a warm air stream in an attempt to accelerate this process.

Fitting

Half suit M23HS/8

With the power unit or regulator supported, pull the half suit over the head and arms, as though it was a jumper; the hose must lie behind the head. Fasten the buttons on the waist straps so that they are comfortable but allow some air to escape by leaving a gap large enough to insert your fingers. Fasten the buttons at the wrists so that they are comfortable but allow some air to escape by leaving a gap large enough to insert three fingertips.

Note: Over-tightening the cuff and waist seals will reduce the flow of air through the hood and may cause the low flow alarm to activate (when fitted to a Magnum 8500 only). If this happens try loosening the sleeves and waist.

Fit the belt around the waist and position the power unit / regulator for comfort.

Maintenance

The exhale valve should be replaced every 24 months or earlier if any deterioration is noticed during pre-use inspection.

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Cleaning

To clean all external components wipe with a damp cloth dipped in warm soapy water. Dry with a soft, clean cloth.

WARNING

WHEN CLEANING DO NOT USE MATERIALS THAT ARE LIKELY TO DAMAGE THE HEADPIECE OR HOSE e.g. PETROL. ORGANIC SOLVENTS OR ABRASIVE CLEANERS TO CLEAN THE HEADPIECE.

Storage

The headpiece must be stored in a clean dry atmosphere within the temperature range -5°C to +55°C at RH<90% in its original packaging. Ideal storage conditions are 5°C to 35° R.H. < 60%. Transport in original packaging. If stored in correct conditions the product has a 5-year shelf life.

Spares Part Numbers

Description	Code
Hose assembly (Heavy Duty) For : M23RVSN,FUVN,HFUV,AWS,FSWVN	M23HAHD
Hose Assembly for Silicone FFM (Twin air Hose)	M23FFTH
Spare Saronex Hood for Saronex Hood (M23RVSN)	M20S1
Face Seals for Flip up visor (M23FUVN)	M23FN
Face Seals for Helmet (M23HFUV)	M23HFUVF
Head Seal for Auto-change Welding Visor (M23AWSN)	M23AWSHC
Face Seal for Auto-change Welding Visor (M23AWSN)	M23AWSF
Face Seal for Fixed Shade Welding Visor (M23FSWVN)	M20H4FN
Spare Visor for M23FUVN & M23RVSN	M23VN
Spare Visor covers for M23FUVN, M23RVSN, M23HFUV	M23VC50N
Spare Polycarbonate Visor for M23HFUV	M23HFUVVP
Spare Clear Triacetate Visor for M23HFUVHTT	M23HFUVVT
Spare Green Triacetate Visor for M23HFUVHTGT	M23HFUVVGT
Inner & Outer Welding Lens Cover for M23AWSN	M23IOLC
Cradle/Headband for Helmet (M23HFUV)	M23HFUVC

Explanation of marking on Visors

- 1B - EN166 optical class 1 Medium Energy Impact (B)
- 1F - EN166 optical class 1 Low Energy Impact (F)
- 5 1F – EN 169 Shade 5, EN166 optical class 1 Low Energy Impact (F)

Note. If protection against high speed particles at extremes of temperature is required then the selected eye-protector should be marked with the letter T immediately after the impact letter. If the impact letter is not followed by the letter T then the eye protector shall only be used against high speed particles at room temperature. No visors used with this equipment are marked T and as such are intended for room temperature use only.

Spectacles

Ophthalmic spectacles worn under equipment which seals around the face (as opposed to the neck) may affect the face seal and reduce the product performance/protection and hence are not recommended. In addition spectacles may transmit any impact from the visor thus creating a hazard for the wearer.

Guarantee

All Martindale Head Pieces are guaranteed free from any faults in materials or workmanship. Should any such faults develop within 12 months of purchase then Centurion Safety Products Ltd will, at their discretion, repair or replace the unit without charge.

EC Type-examination by : BSI Product Services, Maylands Avenue, Hemel Hempstead, Herts. HP2 4SQ
(Notified Body No 0086)