MSA
The Safety Company

Operating Manual

G1-H Mask - Positive Pressure

Mask/Helmet Combination G1-H/F1

CE

Order No.: D2058100/01

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1 Safety Regulations

1.1 Correct Use

The G1-H Mask - Positive Pressure - hereafter called mask - is a respiratory interface with positive connection including head protection.
They are not complete respiratory protective devices by themselves, but serve as facepieces [DIN 58610:2014] for use with compressed air breathing apparatus of the G1 series and respiratory filters.

When using a compressed air breathing apparatus, the operating manual for the compressed air breathing apparatus must be read and observed in addition.

If the mask is used as part of a filtering device using the filter adapter, respiratory protective filters equipped with a standardized thread according to EN 148-1 must be used.The type and concentration of contaminants and the oxygen concentration in the ambient air must be known to decide if the use of a filtering device is permissible. The instructions for use of the respiratory filters have to be regarded, including any information regarding the use in potentially explosive atmospheres. When in doubt use a supplied air breathing apparatus. The permitted minimum oxygen concentration of ambient air depends on national regulations.

When used in oxygen or an enriched-oxygen atmosphere, the increased potential hazard of flammability has to be regarded.

The masks can only be used in conjunction with following MSA helmets:

- F1SF [EN 443:2008]
- F1E [EN 443:2008]
- Gallet F1 XF [EN 443:2008]

The instructions for use for the helmets have to be regarded for correct helmet adjustment.

The mask/helmet combination provides the function of head protection and respiratory protection in one system.

WARNING!

According to the European directive 89/656/EC it has to be verified before first use of the mask that a correct size has been chosen (proper tight fit), that the mask can be worn in combination with other protective equipment (for example a protective jacket), that it is a correct choice for the conditions at the particular place of use and that it fulfils the ergonomic requirements.

WARNING!

Read this manual carefully before using the device. The device will perform as designed only if it is used and maintained in accordance with the manufacturer's instructions. Otherwise, it could fail to perform as designed and persons who rely on this device for their safety could sustain serious personal injury or death.

Before use the product operability must be verified. The product must not be used if the function test is unsuccessful, it is damaged, a competent servicing/maintenance has not been made, genuine MSA spare parts have not been used.

1.2 Liability Information

MSA accepts no liability in cases where the product has been used inappropriately or not as intended. The selection and use of the product are the exclusive responsibility of the individual operator.

Product liability claims, warranties also as guarantees made by MSA with respect to the product are voided if it is not used, serviced, or maintained in accordance with the instructions in this manual.

Changes and modifications not expressly approved by the manufacturer will void the user's authority to operate the equipment.

1.3 Safety and Precautionary Measures

- The device may be used in explosive atmospheres according to the class stated in the ATEX certification, see chapter 2.5.
- The ATEX class of any other equipment used together with this device has to be regarded as well. The lowest class sets the limit.
- If the device is used in an explosive atmosphere, dissipative clothes and footwear must be used in conjunction with dissipative grounds.
- If the device is used in an explosive atmosphere, the textile neck strap has to be correctly attached to the metal adapter.

2 Description

The inhalation air flows from the component housing of the mask past the inhalation valve to the inside of the lens (thus keeping the lens fog-free) and then through the inlet valves into the nosecup.

The exhalation air passes through the exhalation valve directly to the ambient air.

Fixed Push-to-Connect component housing only: If in a safe atmosphere no demand valve is attached, ambient air can be inhaled directly through an open port to facilitate breathing and speaking with no resistance.

The faceblank is made of a special soft rubber compound and assures a snug, comfortable fit and a tight seal. The mask and the nosecup are available in 3 sizes (small, medium, large).

The mask is available with different head harnesses and different component housings.

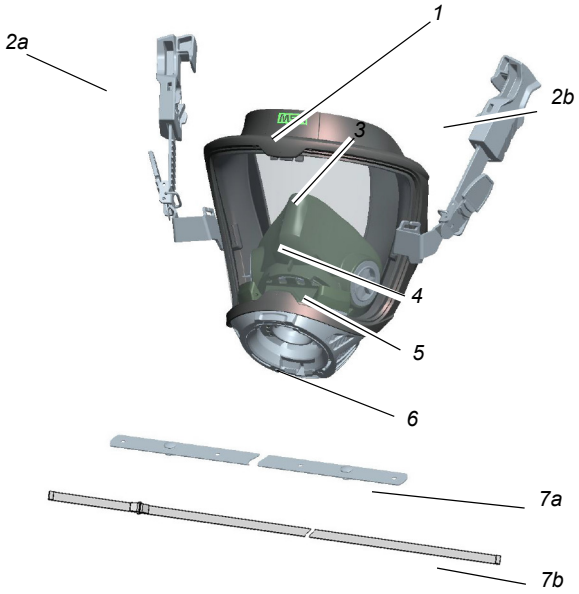

Fig. 1 Overview mask/helmet combination

1	*Faceblank*	*5*	*Inlet valve*
2a	*Helmet adapter, right*	*6*	*Component housing*
2	*Helmet adapter, left*	*7a*	*Nomex (textile) neck strap*
3	*Lens*	*7b*	*Rubber neck strap*
4	*Nosecup*		

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2.1 Mask Versions

Component Housing Versions

The mask is available with different component housings:

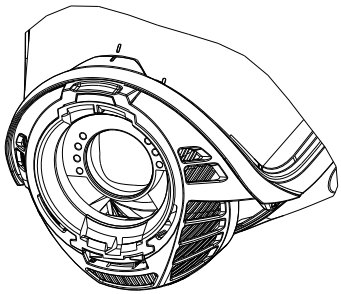

Fig. 2 Fixed Push-To-Connect

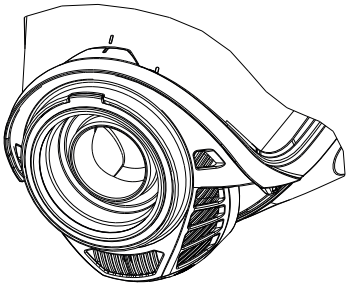

Fig. 3 Push-To-Connect

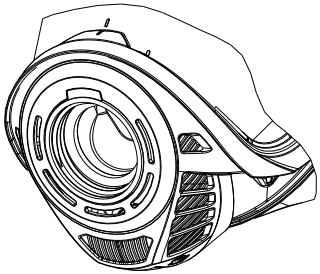

Fig. 4 M45x3

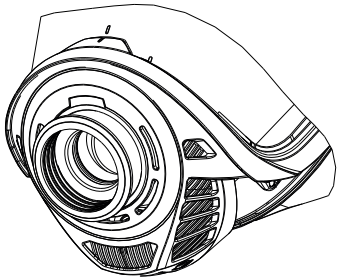

Fig. 5 ESA

2.2 G1 Heads-Up Display (HUD)

When the mask version with the G1 fixed Push-to-Connect component housing is used in connection with a G1 SCBA, the light pipes on the mask are part of the HUD. The HUD is integrated into the demand valve and projects light into the mask.

The HUD provides the pressure and alarm status to the user through light pipes into the mask. The pressure status is on the right side of the user, while the alarm status is on the left side of the user.

For details about the HUD, see G1 SCBA operating manual.

2.3 Filter Adapter

Using the filter adapter with the G1 fixed Push-to-Connect component housing, protective filters equipped with a standardized thread according to EN 148-1 can be attached to the mask. The instructions for use of the respiratory filters have to be regarded, including any information regarding the use in potentially explosive atmospheres.

2.4 Marking

The mask is marked on the outer faceblank as shown in Fig. 6:

Fig. 6 Marking of mask body

1 Part Number

2 CE-marking with notified body number (DEKRA EXAM, Zertifizierungsstelle Dinnendahlstr. 9, 44809 Bochum)

3 For applicable ATEX classification, see operating manual.

4 EN standard, class

The helmet adapters are marked DIN 58610:2014.

2.5 Certification

The masks according to chapter 2.1

comply with the following directives, standards or standardised documents:

Approvals	
CE	0158
DIN 58610:2014 EN 136:1998, class 3+, with the exception of section 7.11 EN 443:2008	
DEKRA	DEKRA EXAM GmbH, Dinnendahlstr. 9, 44809 Bochum,Germany, Notified Body number: 0158

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Atex Categories

The lowest ATEX class of a part sets the limit for the complete device.

G1-H Mask - Positive Pressure		
Harness	Rubber	I M1 II 1 G IIC II 1 D
	Kevlar (Textile)	
Neck strap	Rubber	I M1 II 1 G IIC II 1 D
	Textile	I M1 II 1 G IIB II 2 IIC II 1 D
Filter Adapter	fixed Push-to-Connect only	I M1 II 1 G IIC II 1 D
Lens	Standard Lens	I M1 II 1 G IIC II 1 D
	Anti-fog lens	pending

For a detailed list of ATEX categories for the different helmets, see chapter 8.1 "MSA F1 Helmets"

3 Use

The mask is carried using the neck strap in front of the chest. To ensure protection from dirt and debris, ensure the mask opening is towards the user's body. Choose the mask size according to face size.

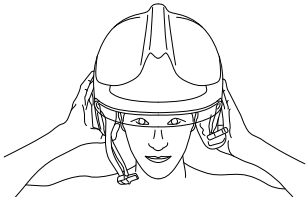
WARNING!

Ensure that the top of the mask seal **only** lies on the user's forehead. Hair or spectacle side arms should not be between the mask's seal and the user's skin.
The mask could otherwise leak. This danger also exists for instance for mask wearers with beards or deep scars in the sealing area.

WARNING!

The tightness of the mask/helmet combination depends on the correct size of mask, the adjustment of the adapter with tightening strap [if possible] and the helmet wearing height.
It is necessary to adjust the helmet's headband accurately to head size.
If the helmet or the headband do not fit the head properly, or if the wrong mask is chosen, there is a risk of leakage.

3.1 Putting on the Helmet



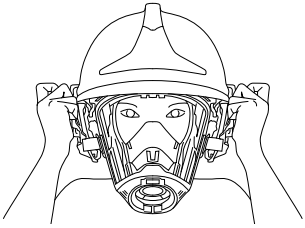
(1) Select a helmet suitable for the user's head size.
(2) Adjust the helmet according to the helmet's operating manual.
(3) Grip the helmet with both hands with the chinstrap open.
(4) Pull the helmet from the forehead over the head.
(5) Close and slightly tighten the chin strap.

3.2 Donning the Mask

WARNING!

In order to guarantee a proper fit for those wearing glasses, the G1-H Mask - Positive Pressure spectacle kit **must** be worn since ordinary glasses **cannot** be worn under the mask.

When fitting the mask in position the chin strap of the helmet must be loose. Remove chin piece if necessary.



(1) Push helmet backwards onto neck so that the forehead area is not covered.
(2) Open buckles and pull tightening straps on the belt tongues until the grip tabs of the tightening straps reach the stop [longest setting].
(3) Attach the helmet adapter to the slots on both sides of the helmet.

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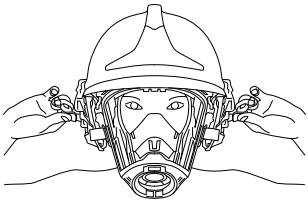


(4) Draw pulling tabs of tightening straps on both sides of the helmet until the mask fits onto the face.
(5) Push the helmet forward again until fitting comfortably.
(6) Tighten chin straps and fix their end with Velcro fastener.
(7) Ensure that the fit of the respiratory mask is checked by a second person.

WARNING!

The chin strap must fit tightly under the chin.
If necessary, remove chin protector.

3.3 Leak Check

In order to check the mask-to-face tightness a leak test must be performed before each use.

(1) Seal the inlet (component housing) with the palm of your hand or by attaching the non-pressurized regulator.
(2) Check tightness.
   a) Inhale and hold breath for a few seconds.
   b) The mask must stay collapsed on face.
   c) Exhale.

✓ The exhalation valve should open and release the pressure inside the mask.

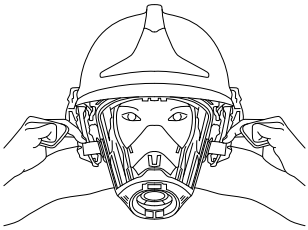
(3) If necessary retighten the straps.

✓ If the leak check fails, re-don the mask.

✓ If the leak test still fails, it is recommended to try a different mask size.

✓ If the leak check still fails, the mask must not be used.

3.4 Removing the Mask



(1) Open buckles on the adapters.
(2) Pull mask until stopped by the straps.
(3) Lift both hooks of the helmet adapter to the side and pull them back out of the helmet slots.
(4) Remove the mask to the front.
(5) Open chin strap and remove the helmet.

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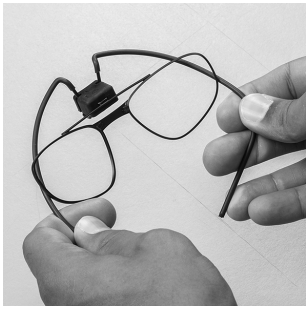
4 Spectacle Kit

WARNING!

Before using a spectacle kit, an optometrist must inspect the spectacle kit and prescribe the correct lenses to fit into the lens frame on the spectacle kit. Failure to follow this warning could result in serious personal injury or death.

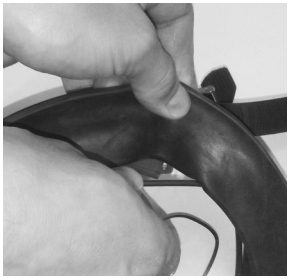


(1) Squeeze in on the wire frame of the spectacle kit at the large bends about 5 cm from the ends.

Do not overbend the wire.

(2) Push the top part of the frame into the lens. The face-blank has three rubber tabs to grab the frame.

a) Place the frame in the middle of the lens with the smaller tabs grabbing the wire frame.



(3) Take one end of the wire frame and push it up into the mask so it follows the edge where the lens and the faceblank meet.

a) The end of the wire frame must be positioned into small pockets in the faceblank on the edge of the lens.

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(4) Repeat step (3) on the opposite side.

(5) The frame for the spectacles can be adjusted up/down and in/out depending on the facial features. Don the mask and adjust to optimize visibility.

5 Cleaning, Disinfection

5.1 Cleaning/Disinfection of the Filter Adapter

The filter adapter can be cleaned with lukewarm water and a mild cleaning agent (like Incidin® Rapid), thoroughly rinse in running water.

5.2 Cleaning/Disinfection of the Helmet

(1) Clean and disinfect the helmet according the helmet operating manual.

5.3 Cleaning/Disinfection of the Mask

The cleaning and disinfection of the masks is performed in accordance with the cleaning intervals → chapter 6.2.

Follow the washing agent's user instructions on this CD/DVD.

The power supply for the HUD (if applicable) is not part of the G1-H Mask - Positive Pressure and is therefore not damaged during cleaning.

WARNING!

Do not use cleaning products containing hydrocarbons or solvents [e.g. nitro-thinner].
Cleaned parts must not be dried in radiant heat [sun, radiators].
When using a drying cabinet, the temperature must not exceed +60°C.
Perform a tightness test (chapter 6.5) after every cleaning, disinfection and maintenance or after every exchange of parts.

5.4 Preparing the Mask for Cleaning or Disinfection

(1) Remove inhalation and exhalation valve discs.
(2) Unbutton the nosecup.
(3) Removed components must be separately cleaned and disinfected.
(4) Dry mask and components and reassemble mask in reverse order.
(5) Perform a tightness test [→ chapter 6.5].

5.5 Suitable Cleaning and Disinfection Procedures

WARNING!

Depending on lens type, only certain cleaning and disinfection procedures are permitted.
Only use the procedures permitted for the lens type, other procedures will damage the lens.

Procedure	Part number washing instruction	Mask with Standard Lens (Marking P)	Mask with Anti-Fog Lens (Marking A)
Cleaning/Disinfection by hand	10127480	**X**	**X**
Cleaning/Disinfection washing machine	10127346	**X**	**---**

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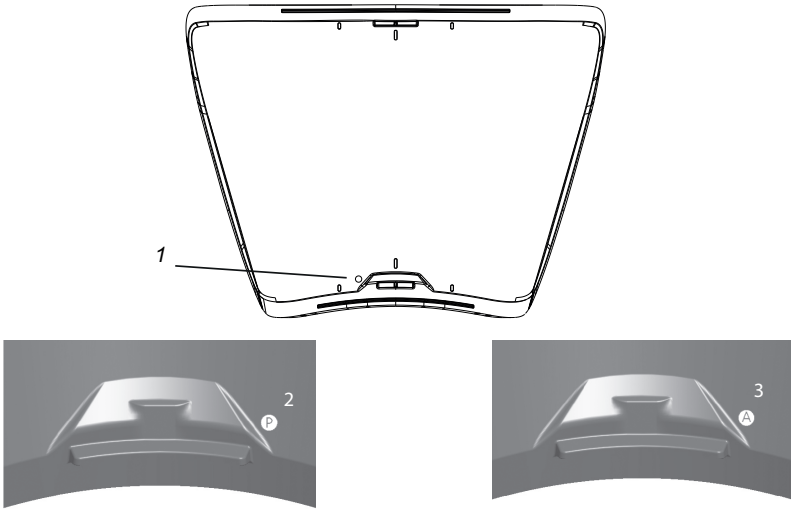
Lens Identification



1 Marking placement

2 Mask with Standard Lens (Marking P)

3 Mask with Anti-Fog Lens (Marking A)

6 Maintenance

6.1 Maintenance Instructions

This product should be regularly checked and serviced by trained specialists. Inspection and service records must be maintained. Always use original parts from MSA.

Repairs and maintenance must be carried out only by authorized service centres or by MSA. Changes to devices or components are not permitted and will result in loss of approval.

MSA is liable only for maintenance and repairs carried out by MSA.

MSA recommends the following maintenance intervals. If necessary considering the usage, tasks may be at even shorter intervals than indicated.

Observe national laws and regulations!

If in any doubt, ask your local MSA contact person.

6.2 Maintenance Intervals

Work to be Performed	Maximal Intervals					
	Before use	After Use	6-monthly	Two years	Four years	Six years
Helmet	See helmet operating manual.					
Masks						
Cleaning and Disinfection*)		X	X*)	X*)		
Visual, Functional and Tightness Check **)		X	X**)			
Replacement of the exhalation valve disc					X	
Replacement of the Speech Diaphragm						X
Replacement of the O-ring for component housing				X		
User check	X					

*) For a 2-year interval cleaned and disinfected masks have to be stored airtight. Otherwise masks should be cleaned and disinfected at least semi-annually. After each cleaning and disinfection the mask must be checked.

**) For airtightly packed face pieces, which are not exposed to increased climatic and mechanical stress [for example transport on vehicles], this interval can be extended to 2 years.

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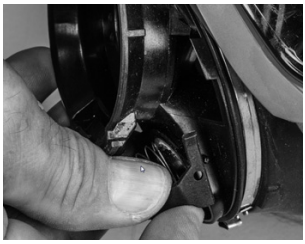
6.3 Maintenance of the Exhalation Valve

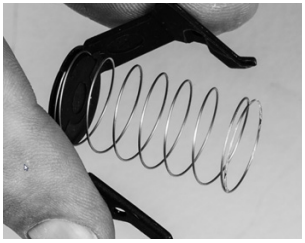
The year of manufacture is located on the valve disc.

In case of a leak remove the exhalation valve disc and replace it with a new one as follows:

Removing the Spring Retainer and Exhalation Valve

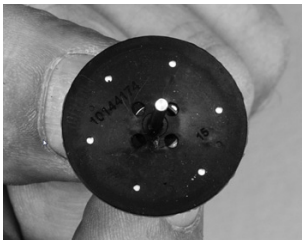


(1) Pull one side of the spring retainer fork off of the locking lug and out of the slot until the spring retainer releases.



(2) Inspect the spring retainer and spring.

Discard if the spring is deformed, the retainer forks are broken, or if the retainer is otherwise damaged.



(3) Remove the exhalation valve.

Discard if the valve is torn, tacky, or otherwise damaged.

NOTE: Be careful not to damage the valve seat. If it is damaged, replace the component housing.

(4) Inspect the valve seat in the component housing.

If any blemishes or damage is present, replace the component housing.

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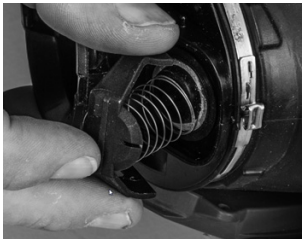
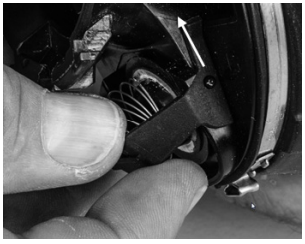
Installing the Spring Retainer and Exhalation Valve

(1) Insert the exhalation valve stem into the housing assembly.

NOTE: Ensure the valve stem is inserted into the center slot.



(2) Fit the retainer spring over the ring of the exhalation valve.



(3) Align the forks on the flat surface of the component housing and slide forward until each fork snaps into place.

6.4 Replacing the Speech Diaphragm

(1) Unbutton the nose cup.
(2) Unscrew the threaded socket from the mask inside with the special tool.
(3) Remove the O-ring and the speech diaphragm.
(4) Insert the new speech diaphragm:
   a) Place the speech diaphragm into the component housing with the yellow side visible.
   b) Reinsert the O-ring.
(5) Screw in the threaded socket with the special tool (Torque: 5 Nm).
(6) Perform a tightness test (→ chapter 6.5).

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6.5 Tightness Test of the Mask

The testing of the masks for tightness is performed using an applicable MSA test device (i. e. SmartCHECK) in accordance with the relevant operating manual.

(1) Fit mask tight onto the test device.

(2) Test mask according to test device operating manual.

The mask including the exhalation valve meets the requirements if for a moistened exhalation valve and a vacuum of 10 mbar generated inside the mask the pressure change does not exceed 1 mbar in a minute.

Leaking masks must not be used.

Opening Pressure Test of the exhalation valve

The opening pressure of the exhalation valve has to be at least 4.2 mbar, otherwise the mask must not be used.

6.6 Visual Test and Function Test

Visual Test

(1) Inspect the mask for possible damages like for example deformations, stickings or cracks. Valve discs, especially exhalation valve discs, are crucial functional elements of the mask.

(2) Defective or damaged parts have to be replaced immediately.

Functional Test

After assembling the mask the mobile parts, especially the valve discs, have to be tested for unrestricted mobility.

(1) Inspect the lens for cracks, scratches, and a tight seal with the mask rubber.

(2) Ensure the exhalation valve is clean and operates easily. The valve must move off the seat and return when released.

(3) Inspect the inlet valve for damage. Ensure the valve disc is in place.

6.7 Helmet Maintenance

For detailed information about helmet maintenance refer to the helmet operating manual.

7 Safekeeping and Storage

WARNING!

In order to avoid damage to or the deformation of the masks keep no additional loose objects in the mask container.

For the safekeeping of the mask the mask container should be used.

MSA rubber products are protected by an anti-ageing agent that can become visible as a light coating. This coating is harmless and can be removed during cleaning.

To ensure a long life of rubber components, follow ISO 2230 by storing them in a cool, dry place protected from ultraviolet radiation.

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8 Applicable Helmets

8.1 MSA F1 Helmets

The lowest ATEX class of a part sets the limit for the complete device.

Helmets F1 XF size M, L		ATEX category
Color of the shell	white, yellow, blue, red, black, grey, green, fluorescent orange, fluorescent yellow, photoluminescent	Ex I M1 Ex II 1D Ex II 1G IIB Ex II 2G IIC
with front plate colors red, yellow, white, metalized, with or without printing		EX I M1, Ex II 1D, Ex II 1G IIC
with front plate colors red, yellow, white, with metal emblem		EX I M1, Ex II 1D, Ex II 1G IIB Ex II 2G IIC
with metalized front plate with metal emblem		EX I M2, Ex II 1D, Ex II 2G IIA Ex II 3G IIC
with or without ocular visor (GA1087A)		Ex I M1, Ex II 1D.Ex II 1G IIB Ex II 2G IIC
with Kitfix F1XF (GA1092A) or Kitfix mobile (GA1092B)		Ex I M1, Ex II 1D, Ex II 1G IIB Ex II 2G IIC
Face shield	Clear (GA1086A), Golden (GA1086B)	Ex I M1, Ex II 1D, Ex II 1G IIB Ex II 2G IIC
Chinstrap	Textile (GA1129A) Leather (GA1129B)	Ex I M1, Ex II 1D, Ex II 1G IIB Ex II 2G IIC
Neck curtain	Integral (GA1116B)	EX I M2, Ex II 1D IIB, Ex II 2G IIC
	Wool/Nomex (GA1116D)	Ex II 1 D
	Nomex (GA1116C)	EX I M2, Ex II 1D IIB, Ex II 2G IIC
	Aluminized (GA 1116A)	Not to be used in areas with explosion risks
Lamp	Integrated light module (GA1484)	Ex ia IIC T4 ..T3 Gb Ex ia IIIC T135 °C .. T200 °C Db
Communication Accessories	• Flexible microphone headset • Bone conductive headset • Headset • Push to talk module	II 2G Ex ib IIC T4 Gb If the colors of the connector are identical, the corresponding combination is ATEX compliant.
Retro-reflective stickers	Yellow, orange, silver	Ex I M1, Ex II 1D, Ex II 1G IIC

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Helmets F1SF 25		ATEX category
Color of the shell	yellow, blue, red, black, grey, green, white with black comb fluorescent orange, fluorescent yellow, photoluminescent	Ex I M2 Ex II 1D Ex II 2G IIA Ex II 3G IIB
Face shield	Gold version (GA1007J) Clear version K&N(GA1007K) Clear version (GA1007I)	Ex I M2 Ex II 1D Ex II 2G IIA Ex II 3G IIB
Neck curtain	Integral (GA1110) Wool/Nomex (GA1111) Wool/Nomex black (GA1114)	EX I M2, Ex II 1D, Ex II 2G IIA
	Aluminized (GA 11009)	Not to be used in areas with explosion risks
Front Plate	with front plate colors red, yellow, white, with or without printing	EX I M1, Ex II 1D, Ex II 1G IIC
	with front plate with metal emblem	No general ATEX category, specific helmet configuration needstobeconsidered
	with metalized front plate with metal emblem	Not to be used in areas with explosion risks
Retro-reflective stickers	Yellow, orange, silver	Ex I M1, Ex II 1D, Ex II 1G IIC

Helmets F1E	No use of mask-helmet combinations with F1E in potentially explosive atmospheres
Color of the shell	yellow blue red black grey green fluorescent orange fluorescent yellow photoluminescent white with black comb
with or without ocular visor (GA1046A)	
Face shield	Gold version (GA1055C) Clear version (GA1055B)
Neck curtain	Aluminized (GA 1106R) Wool/Nomex black (GA1106P)

9 Ordering Information

9.1 Exploded View

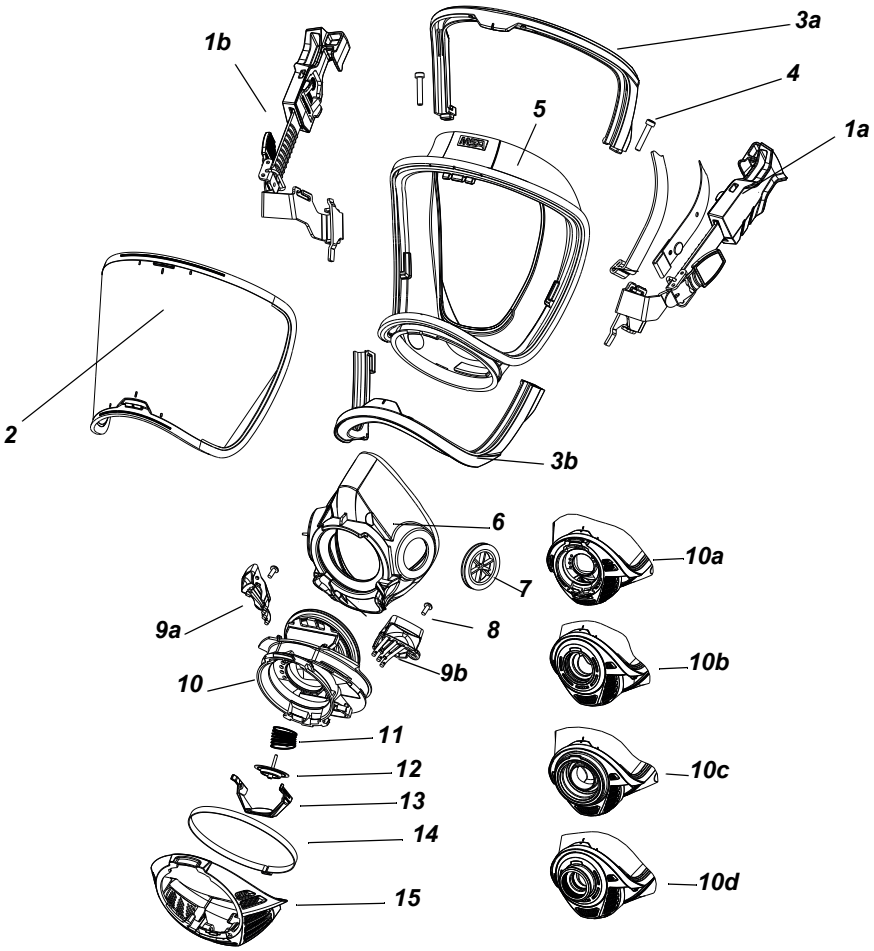

Fig. 7 G1-H Mask - Positive Pressure

1a	*Helmet adapter, left*
1b	*Helmet adapter, right*
2	*Lens*
3a	*Upper lens ring*
3b	*Lower lens ring*
4	*Screw for lens ring*
5	*Faceblank*
6	*Nosecup*
7	*Inlet valve assembly*
8	*Light pipe screw*
9a	*Light pipe assembly, left*
9b	*Light pipe assembly, right*
10	*Component housing*
10a	*Component housing Fixed Push-To-Connect*
10b	*Component housing M45x3*
10c	*Component housing Push-To-Connect*
10d	*Component housing ESA*
11	*Spring*
12	*Exhalation valve*
13	*Retainer*
14	*Clamp*
15	*Cover*

9.2 Accessories

Description	Article No.
Spectacle kit	10144230
Filter Adapter assembly, G1 Facepiece	10144231
Neck strap, assembly, rubber G1 Facepiece	10159699
Neck strap, assembly, textile, G1 Facepiece	10167844
Helmet adapter set (right and left, incl. screw)	10175362
Rubber neck strap (set of 10)	10172363
Textile neck strap (set of 10)	10172364
Screw for lens ring (set of 20)	10172365
Nose cup small	10149572-SP
Nose cup medium	10149573-SP
Nose cup large	10149574-SP
Buckle D-ring	10149551-SP
Buckle	10144217-SP
Neck strap, assembly, textile, G1 Facepiece	10144220-SP
Neck strap, assembly, rubber G1 Facepiece	10159699-SP
Lens, PC 3mm, G1 Facepiece	10168597-SP
Lens, APEC 3mm, G1 Facepiece	10176282-SP
Lens ring, upper	10144195-SP
Lens ring, lower	10144196-SP
Cover, component housing	10144187-SP
Lightpipe assembly, left	10144180-SP
Lightpipe assembly, right	10144204-SP
Screw, coated SS, 30x8, threadforming	10144233-SP
Inlet valve seat	10144192-SP
Inlet valve	10144193-SP
Speaking diaphragm	10144209-SP
O-ring, 46mm id x 2.5mm thick	10144232-SP
Inlet valve assembly	10144191-SP
Screw ring	10144213-SP
Retainer, exhalation valve	10144177-SP
Exhalation valve assembly	10144174-SP
Retainer, inhalation valve	10144208-SP
Inhalation valve	10144207-SP
Spring, exhalation valve	10144179-SP
Speaking diaphragm retaining tool	10169560
Kit, filter adapter assembly, G1 Facepiece	10144231-SP

9.3 ATO Code

For this product, oder numbers have been replaced by an ATO (Assemble To Order) code.

To order a G1-H Mask - Positive Pressurewith a medium sized faceblank, a medium nosecup, rubber neck strap and Push-To-Connect connector piece, the ATO code would be

H-M/I-M-E-R-P:

Application	Faceblank		Nosecup	Head Harness	Neck Strap	Regulator
	Size Face-blank	Faceblank Material				
H - Europe Helmet Mask PC	S/I - 10165563 Small Hycar		S - Small	4 - 4-point Adjustable	0 - None	I - Fixed Push-To-Connect
			M - Medium		C - Cloth	P - Push to Connect
			L - Large	E - Rubber EU with buckles	R - Rubber	M - M45 x 3
						E - ESA ("M"+ ESA-Adapter)
	M/I - 10165564 Medium Hycar		S - Small	4 - 4-point Adjustable	0 - None	I - Fixed Push-To-Connect
			M - Medium		C - Cloth	**P** - Push to Connect
			L - Large	**E** - Rubber EU with buckles	**R** - Rubber	M - M45 x 3
						E - ESA ("M"+ ESA-Adapter)
	L/I - 10165565 Large Hycar		S - Small	4 - 4-point Adjustable	0 - None	I - Fixed Push-To-Connect
			M - Medium		C - Cloth	P - Push to Connect
			L - Large	E - Rubber EU with buckles	R - Rubber	M - M45 x 3
						E - ESA ("M"+ ESA-Adapter)

The following table shows all possible configurations that can be ordered for the G1-H Mask - Positive Pressure

GB

A - Application	Faceblank B - Size Faceblank C - Faceblanks Material	D - Nosecup	E - Head Harness	F - Neck Strap	6 - Regulator connection	Marking / Approval
H - Europe Helmet Mask PC	S/1 - 10165563 Small Hycar Cutted	S - Small - DG7-2773-1 M - Medium - DG7-2774-1 L - Large - DG7-2775-7	H - Helmet Mask Adapter - Mat.-No. 10167842 helmet adapter G1, Right, F1 Helmet + Mat.-No. 10167843 helmet adapter G1, Left, F1 Helmet	0 - None R - Rubber - Mat.-No. 10159699 H - Cloth (HMC) - Mat.-No. 10167844	1 - Fixed Push-To-Connect P - Push to Connect M - M45 x 3 E - ESA ("M"+ ESA-Adapter)	EN only
	M/1 - 10165564 Medium Hycar Cutted	S - Small - DG7-2773-1 M - Medium - DG7-2774-1 L - Large - DG7-2775-8	H - Helmet Mask Adapter - Mat.-No. 10167842 helmet adapter G1, Right, F1 Helmet + Mat.-No. 10167843 helmet adapter G1, Left, F1 Helmet	0 - None R - Rubber - Mat.-No. 10159699 H - Cloth (HMC) - Mat.-No. 10167844	1 - Fixed Push-To-Connect P - Push to Connect M - M45 x 3 E - ESA ("M"+ ESA-Adapter)	EN only
	L/1 - 10165565 Large Hycar Cutted	S - Small - DG7-2773-1 M - Medium - DG7-2774-1 L - Large - DG7-2775-9	H - Helmet Mask Adapter - Mat.-No. 10167842 helmet adapter G1, Right, F1 Helmet + Mat.-No. 10167843 helmet adapter G1, Left, F1 Helmet	0 - None R - Rubber - Mat.-No. 10159699 H - Cloth (HMC) - Mat.-No. 10167844	1 - Fixed Push-To-Connect P - Push to Connect M - M45 x 3 E - ESA ("M"+ ESA-Adapter)	EN only
G - Europe Helmet Mask APEC	S/1 - 10165563 Small Hycar Cutted	S - Small - DG7-2773-1 M - Medium - DG7-2774-1 L - Large - DG7-2775-10	H - Helmet Mask Adapter - Mat.-No. 10167842 helmet adapter G1, Right, F1 Helmet + Mat.-No. 10167843 helmet adapter G1, Left, F1 Helmet	0 - None R - Rubber - Mat.-No. 10159699 H - Cloth (HMC) - Mat.-No. 10167844	1 - Fixed Push-To-Connect P - Push to Connect M - M45 x 3 E - ESA ("M"+ ESA-Adapter)	EN only
	M/1 - 10165564 Medium Hycar Cutted	S - Small - DG7-2773-1 M - Medium - DG7-2774-1 L - Large - DG7-2775-11	H - Helmet Mask Adapter - Mat.-No. 10167842 helmet adapter G1, Right, F1 Helmet + Mat.-No. 10167843 helmet adapter G1, Left, F1 Helmet	0 - None R - Rubber - Mat.-No. 10159699 H - Cloth (HMC) - Mat.-No. 10167844	1 - Fixed Push-To-Connect P - Push to Connect M - M45 x 3 E - ESA ("M"+ ESA-Adapter)	EN only
	L/1 - 10165565 Large Hycar Cutted	S - Small - DG7-2773-1 M - Medium - DG7-2774-1 L - Large - DG7-2775-12	H - Helmet Mask Adapter - Mat.-No. 10167842 helmet adapter G1, Right, F1 Helmet + Mat.-No. 10167843 helmet adapter G1, Left, F1 Helmet	0 - None R - Rubber - Mat.-No. 10159699 H - Cloth (HMC) - Mat.-No. 10167844	1 - Fixed Push-To-Connect P - Push to Connect M - M45 x 3 E - ESA ("M"+ ESA-Adapter)	EN only

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