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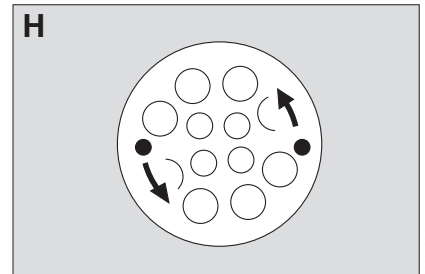
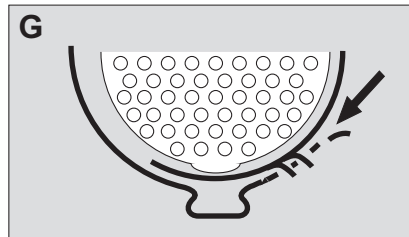
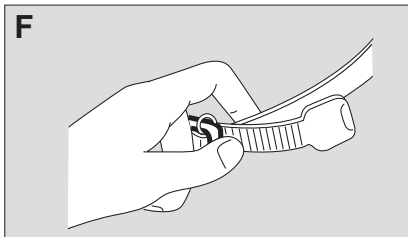
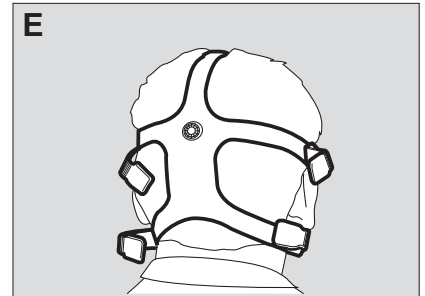
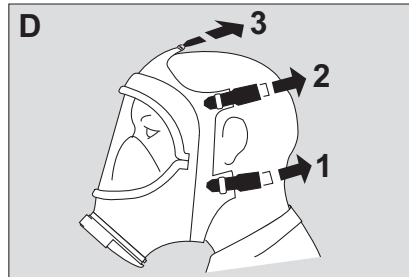
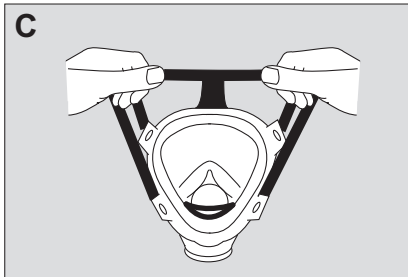
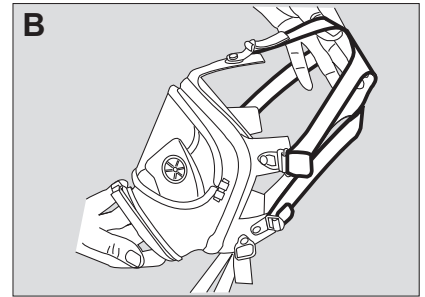
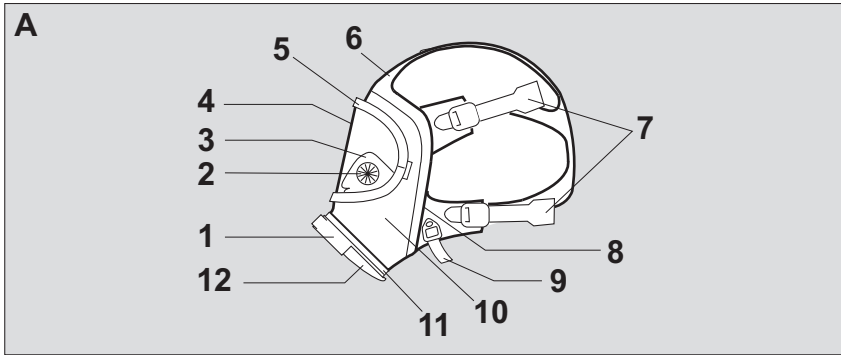
Dräger X-plore 6000



WARNING

Strictly follow the Instructions for Use. The user must fully understand and strictly observe the instructions. Use the product only for the purposes specified in the Intended use section of this document.





1 For your safety

1.1 General safety statements

- Before using this product, carefully read these Instructions for Use and those of the associated products.
- It is extremely important that you read and understand every aspect of these Instructions for Use, in addition to receiving proper training, before attempting to use the facepiece. Should you not thoroughly understand any aspect of the Instructions for Use, call Dräger at 1-800-922-1737.
- Do not dispose of the Instructions for Use. Ensure that they are retained and appropriately used by the product user.
- Only fully trained and competent users are permitted to use this product.
- Comply with all local and national rules and regulations associated with this product.
- Only trained and competent personnel are permitted to inspect, repair, and service the facepiece. Dräger recommends a Dräger service contract for all maintenance activities and that all repairs are carried out by Dräger.
- Use genuine Dräger spare parts and accessories only, or the proper functioning of the product may be impaired.
- Do not use a faulty or incomplete facepiece, and do not modify the facepiece.
- Notify Dräger in the event of any component fault or failure.

1.2 Definitions of alert icons

The following alert icons are used in this document to highlight areas of the associated text that require a greater awareness by the user. A definition of the meaning of each icon is as follows:



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, could result in physical injury, or damage to the product or environment. It may also be used to alert against unsafe practices.



NOTICE

Indicates additional information on how to use the device.

2 Description

2.1 Product overview (see Figure A on page 3)

- | | | | |
|----|---------------------|----|------------------------|
| 1 | Facepiece connector | 2 | Nose cup valve |
| 3 | Nose cup | 4 | Visor |
| 5 | Visor frame | 6 | Front strap |
| 7 | Head strap | 8 | Sealing frame |
| 9 | Neck strap | 10 | Facepiece body |
| 11 | Connector clamp | 12 | Exhalation valve cover |

2.2 Feature description

Special facepiece spectacles are available for users who wear spectacles. A welder's protective visor is available for retrofitting facepieces with metal visor frame.

The standard thread connection conforming to EN 148-1 is designed to fit canisters, powered air-purifying respirators, self-contained breathing apparatus and air line breathing apparatus.

The facepieces can be used within a temperature range between -22 °F to 140 °F (-30 °C to +60 °C).

2.3 Intended use

The facepieces protect the face and eyes against aggressive media.

2.4 Limitations on use

When the facepiece is used with a canister,

- the ambient air must contain at least 19.5 % of oxygen; observe country-specific regulations.
- never enter unventilated tanks, pits, canals, etc.
- the type of pollutants must be known. Select the corresponding canister. If the pollutants are unknown, only use compressed air breathing apparatus or fresh air hose breathing apparatus with the facepiece.

2.5 Approvals

The facepieces in combination with canisters, powered air-purifying respirators, self-contained breathing apparatus and air line breathing apparatus have been certified by NIOSH in compliance with title 42, Code of Federal Regulations, Part 84. Only combinations that are approved by NIOSH may be used (see page 212).

Furthermore, the facepieces are approved according to

- EN 136:1998 CL.3+
- AS/NZS 1716:2012

The facepieces are marked with the CE mark of conformity. They fulfill the flame engulfment requirements of EN 137.

2.6 Explanation of type-identifying markings and symbols

The facepieces have different markings:

Connector	RA
Facepiece body	EPDM or Si, EN 136:1998 CL.2 or 3, CE0158
Visor	L, PC, or PMMA
Visor frame	K/sw or K/bl

3 Use

3.1 Prerequisites for use

In order to make sure that the correct facepiece size is used, perform a quantitative fit test. The fit test is to be conducted in accordance with the requirements outlined in the OSHA Respiratory Protection Standard 29 Code of Federal Regulations, Part 1910.134.



WARNING

Facial hair under the facepiece seal can cause leaks. The facepiece should not be used by people with beards and sideburns. There is danger of poisoning.

The bow of glasses under the facepiece seal also causes leaks. A spectacle kit should be used in such cases.

3.2 Preparation for use

1. Install the facepiece spectacles if necessary.
2. Open the head harness as far as possible (figure B).
3. Lay the carrying strap around the neck and fasten the facepiece in the standby position using the carrying strap.

3.3 Donning the facepiece

1. Check the facepiece to ensure that the head strap is securely fastened, that the nose cup and the exhalation valve cover are positioned correctly and that all other parts are in good condition.
2. Loosen the facepiece from the standby position.
3. Spread the head strap, place chin in recess (figure C), center the head strap on the head. Make sure that the head strap rests flush against the head.
4. Make sure that neither hair nor head strap impair the sealing frame, and that the sealing frame contacts the face evenly and adjusts to its contours.
5. First, tighten both neckbands (figure D, step 1), then tighten the temple straps (figure D, step 2) evenly towards the back of the head so that the middle of the head strap remains on the middle of the head (figure E).
6. Only tighten the front strap (figure D, step 3) if required.
7. Breathe normally.
Spent air should leave the exhalation valve easily.
8. Check for leaks:
 - a. Seal the mask connector with the palm of your hand and breathe in until a vacuum is produced.
 - b. Briefly hold your breath: the vacuum must be maintained. If it is not, the head strap must be tightened further.
 - c. Repeat the leak test twice.
9. Check the exhalation valve: Seal the mask connector and exhale vigorously.
The exhaled air must escape easily, otherwise replace the exhalation valve disc (see chapter 4.3.6 on page 210).
10. Connect either canister, powered air-purifying respirator, self-contained breathing apparatus, or air line breathing apparatus.



WARNING

The facepiece should only be used if perfectly tight, otherwise there is danger of poisoning!

3.4 During use

3.4.1 Low temperatures

Use "klar-pilot" anti-fog agent to prevent fogging of the visor.

3.4.2 High temperatures



WARNING

Leave the danger zone immediately if there are any signs of damage, e.g., bubbles in the visor.

3.4.3 Potentially explosive atmospheres

- Treat the facepiece with antistatic spray or work with a screen of water mist.

3.5 After use



WARNING

Do not doff the facepiece unless you are decontaminated and in a safe environment.

Doff the facepiece as follows:

1. Remove canister, powered air-purifying respirator, self-contained breathing apparatus, or air line breathing apparatus.
2. Pull the adjuster buckles of the neck straps forward with your thumb and loosen the straps (see Figure F on page 3).
3. Pull the facepiece away from your face over the head.
4. Dispose of the canister according to national guidelines.

4 Maintenance

4.1 Maintenance table

The following details are manufacturer recommendations. Observe national guidelines, too.

Type of work to be performed	Before use	After use	Every 6 months	Every 2 years	Every 4 years	Every 6 years
Visually check the facepiece	X					
Clean and disinfect the facepiece		X		X ¹⁾		
Check correct function and leak-tightness		X	X ²⁾			
Replace exhalation valve disc					X	
Replace speech diaphragm and O-ring						X

1) valid for airtight packed facepieces, otherwise every 6 months

2) for airtight packed facepieces every 2 years

4.2 Cleaning and disinfecting

The facepiece must be cleaned after every use so that it is clean before it is used by a different individual or, if individually assigned, as often as necessary to keep in a sanitary condition. Facepieces that are issued to more than one user must be cleaned before being worn by different individuals.

The facepiece must be disinfected after every use to keep it in a sanitary condition. It is fully in the user's responsibility to make sure that the facepiece is totally free of contaminants after this treatment. Never use a facepiece again, that has not been properly disinfected. In case of doubts dispose of the facepiece in accordance with the local regulations and use a new one.



WARNING

The facepiece body must be cleaned thoroughly so that no residues from skin care products remain on it.

Otherwise the elasticity in the sealing area can be lost and the facepiece will no longer fit correctly.

If this warning is not heeded, poisoning or death can result.



CAUTION

Do not use any solvents (e.g. acetone, alcohol) or cleaning agents containing abrasive particles for cleaning and disinfecting. Only use the methods and the approved cleaning and disinfecting agents described in this section. Other methods or agents can cause damage to the product.

Undiluted agents that come into direct contact with eyes or skin are hazardous to health. Always wear suitable protective equipment when working with the cleaning and disinfecting agents described in this section.

**NOTICE**

Since the use of certain cleaning and disinfecting agents is not allowed among all countries, Dräger tested and recommends several cleaning and disinfecting agents. However, Dräger makes no representations that such agents comply with or are approved for use in your specific country's regulations. Make sure to follow the procedure that is suitable for your country. For further information please contact Dräger or your local dealer.

4.2.1 Cleaning and disinfecting procedure

1. Remove any accessories from the facepiece and clean them separately¹⁾.
2. Clean all parts with lukewarm water and 1008 GREEN LIQUID HAND DISH WASH using a soft cloth.
3. Thoroughly rinse all parts under running water.
4. Prepare a disinfectant bath containing water and 800 SPUR-TEX Disinfectant (max. temperature: 86 °F/30 °C, concentration: 2 fl.oz. per 1 gallon/60 ml per 3.79 l).
5. Place the parts to be disinfected into the disinfectant bath (duration: 15 minutes).
6. Thoroughly rinse all parts under running water.
7. Dry all parts in the air or in a drying cabinet (max. temperature: 140 °F/60 °C). Do not expose to direct sunlight. Do not shake the facepiece in order to remove water.
8. Mount the accessories if necessary.

¹⁾ Strictly follow the corresponding Instructions for Use.

4.2.2 Alternative cleaning and disinfecting procedure

1. Remove any accessories from the facepiece and clean them separately²⁾.
2. Prepare a cleaning solution containing water and NEUTRAL DISINFECTANT CLEANER (max. temperature 86 °F/30 °C, concentration: 1 fl. oz. per 2 gallons/30 ml per 7.57 l).
3. Immerse the facepiece in the solution (duration: 10 minutes). Make sure that all parts are wetted.
4. Thoroughly rinse all parts under running water.
5. Dry all parts in the air or in a drying cabinet (max. temperature: 140 °F/60 °C). Do not expose to direct sunlight. Do not shake the facepiece in order to remove water.
6. Mount the accessories if necessary.

4.3 Maintenance work

Leak tests must be repeated after any maintenance work and/or after replacing components.

**NOTICE**

Required tools are listed in chapter 8 on page 211.

4.3.1 Visual inspections

- The speech diaphragm must not show any damages, e.g. deformations, holes, oxidations. Otherwise it must be replaced (see chapter 4.3.5 on page 209).
- To check the exhalation valve, remove the exhalation valve cover from the facepiece connector, and carefully inspect the valve disc. Valve disc and seat must be clean and undamaged. Clean or replace if necessary (see chapter 4.3.6 on page 210).
- Check all parts for deformation and damage and replace them if necessary.

²⁾ Strictly follow the corresponding Instructions for Use.

4.3.2 Replacing the visor (Figures F1 and F2 on page 3)

1. facepiece with metal visor frame: Grip the hexagonal nuts and unscrew the screws.
1. facepiece with plastic visor frame: Unscrew the screws.
2. Pry the visor frame apart with a screwdriver at the connecting points, then pull it off to the top and bottom.
3. Remove the gusset if necessary, see chapter 4.3.3 on page 209.
4. Detach the old visor from its rubber frame.
5. Insert a new visor, first in the upper half and then in the lower half of the rubber frame.
The center marks on the visor must be aligned with the seam on the facepiece.
6. Draw the rubber frame over the edge of the visor on the right and left.
7. Moisten the outside of the rubber frame and the inside of the visor frame with soap solution.
8. Fit first the upper, then the lower visor frame.
9. Fit the gusset if necessary.
10. facepiece with metal visor frame: Screw the clamping screws into the hexagonal nuts and tighten until the gap between the clamp lobes is between 0.12 and 0.02 in (3 and 0.5 mm).
11. facepiece with plastic visor frame: Insert and tighten the screws.

4.3.3 Replacing the facepiece connector

1. Pull the nose cup out of the groove in the screw ring.
2. Pry open the connector clamp using a screwdriver.
3. Remove connector clamp, sliding ring and gusset.
4. Pull the facepiece connector out of the facepiece body.
5. Insert speech diaphragm, exhalation valve, and inhalation valve into the new facepiece connector, and fit the connector so that the center marks of the mask connector and facepiece body match.
6. Mount slide ring and new connector clamp. Attach the hook to ensure the tightest possible fit of the connector clamp.
7. Push support between connector clamp and slide ring, then attach it to the lower visor frame and align it (figure G).

8. Compress the nose on the connector clamp with pliers until the facepiece connector is securely located in the facepiece body.
9. Press the edge of the nose cup into the groove in the screw ring and ensure that it engages all around. The edge of the nose cup must fit all around the full circumference of the screw ring. The center marks on the facepiece connector and on the nose cup must match.

4.3.4 Replacing a nose cup valve disc

1. Pull out the old valve disc towards the inside.
2. Insert the stud of the new disc into the hole from inside, and pull it towards the visor until the undercut of the stud is visible. The valve disc should make even contact with the inside surface.

4.3.5 Replacing the speech diaphragm and O-ring

1. Pull the nose cup out of the groove in the screw ring.
2. Unscrew the screw ring with a spanner.
3. Turn the spanner over and carefully insert it in the holes of the grille, taking care not to damage the foil on the diaphragm.
4. Turn the speech diaphragm to release it and remove it (figure H).
5. Remove the O-ring from the connector with the sealing ring lifter.
6. Check speech diaphragm and O-ring and replace if necessary.
7. Press the edge of the nose cup into the groove in the screw ring and ensure that it engages all around. The edge of the nose cup must fit all around the full circumference of the screw ring. The center marks on the facepiece connector and on the nose cup must match.

4.3.6 Replacing the exhalation valve disc

1. Remove the exhalation valve cover.
2. Grip under the edge of the valve disc and pull the holding stud out of the hole.
3. Clean the valve seat.
4. Moisten the new valve disc with water and press it into the hole until it engages. The valve disc must make even contact all around.
5. Refit the exhalation valve cover so that it clicks into place.

4.3.7 Replacing the inhalation valve disc

1. Pull the inhalation valve out by its tab.
2. Remove the old valve disc and fit new disc.
3. Press the inhalation valve into the mask connector until it makes even contact all-round. The valve disc must not be pinched. The disc must face inwards, and the stems face outwards.

4.4 Leak tests

The leak test should be performed with an appropriate test device (e. g. the Testor or Quaestor series) with test adapter and exhalation valve plug or Test Kit.

(1) Checking leak tightness

1. Moisten the face seal and exhalation valve with water.
2. Mount the facepiece on the test head.
3. Make sure that the face seal fits tightly onto all parts of the test head. Inflate the test head if necessary.
4. Seal the connector with the test adapter and produce a negative pressure of 10 cm H₂O (10 mbar).

The facepiece is considered leak-tight if the pressure drop is less than 1 cm H₂O (1 mbar) per minute. If the facepiece leaks, continue with (2).

(2) Test with sealed exhalation valve

1. Remove the exhalation valve disc.
2. Plug in the exhalation valve plug.
3. Generate a negative pressure of 10 cm H₂O (10 mbar).
4. If the pressure drop is less than 1 cm H₂O (1 mbar) per minute, remove the exhalation valve plug and insert a new valve disc.
5. Repeat the leak test (1). If the facepiece leaks, continue with (3).

(3) Leak test under water

1. Immerse the test head including the facepiece with exhalation valve plug in the water.
2. Produce a positive pressure of approx. 10 cm H₂O (10 mbar).
3. Slowly turn the test head under the water surface. Emerging bubbles indicate leaks.
4. Take the test head with the facepiece out of the water, repair the facepiece, or replace leaking components.
5. Remove the exhalation valve plug.
6. Install the exhalation valve.
7. Repeat leak test (1).

After testing

1. Unscrew the test adapter.
2. Remove the facepiece from the test head and dry if necessary.
3. Fit the exhalation valve cover. It must click into place.

5 Transport

Transport the facepiece in a storage box or in the original packaging.

6 Storage

- Loosen the straps of the head harness as far as possible.
- Wipe the visor with an antistatic cloth.
- Make sure that the facepiece is dry.
- Pack the facepiece in its bag or storage box.
- Store the facepiece in a dry, dust-free place where it will not be deformed.
- Keep the facepiece out of direct sunlight and heat.
- Storage temperature: 5 °F to 77 °F (-15 °C to +25 °C).
Maximum storage temperature temporarily: 140 °F (+60 °C)
- Observe ISO 2230 and national guidelines for storage, maintenance and cleaning of rubber products.

Dräger rubber products are treated with an agent to protect against premature aging which in some cases is visible as a gray-white coating. This coating can be washed off with a brush and soapy water.

7 Disposal



Dispose of the facepiece and used canisters according to local waste disposal regulations.

8 Order list

Designation and description	Order No.
X-plore 6300 - EPDM - PMMA - RA - K/bl	R 55 800
X-plore 6530 - EPDM - PC - RA - K/bl	R 55 795
X-plore 6530 - EPDM - PC - RA	R 51 525
X-plore 6570 - Si/bl - PC - RA - K/sw	R 55 790
X-plore 6570 - Si - PC - RA	R 51 535

Designation and description	Order No.
Accessories	
Spectacle kit (spectacle frame and clamping device)	R 51 548
Spectacle kit PNOVA Trispec	40 57 622
Mask box (Mabox) (for facepiece + 1 filter)	R 53 680
Mask box (Mabox II) (for facepiece)	R 54 610
Mask box (WIKOV V) (for facepiece)	R 51 019
Welder's protective visor	40 53 437
Sealing ring lifter	40 54 983
Pliers	R 53 239
Spanner	R 26 817
Cleaning and disinfecting agents	
1008 GREEN LIQUID HAND DISH WASH	on request
800 SPUR-TEX Disinfectant	on request
NEUTRAL DISINFECTANT CLEANER	on request
klar-pilot FLUID SUPER PLUS	R 52 560
Test equipment	
Dräger Quaestor 5000	R 58 316
Test adapter	R 53 344
Exhalation valve plug	R 53 349
Portacount Fit Test Adaptor	40 56 315
Quantifit OHD Fit Test Adaptor	40 56 718

Approval Label

		Dräger Safety AG&Co KGaA D-23560 LÜBECK, GERMANY Phone : 011 49 451 882 - 0 or USA 1 - 800 - 922 - 1737																							
		These respirators are approved only in the following configurations:																							
TC-	Protection ¹	Respirator Components															Cautions and Limitations ²								
		Alternate Facepiece								Alternate Canister	Alternate Filter	Alternate Visors			Alternate Head Harness			Alternate Inner Masks							
		R51525	R51535	R55790	R55795	R55800	R56502	R56310	R56503	R56844	R56332	R56846	6737360	6737013	R26989	R56288	R56291	R56223	4054930	4057519	R56197	R56472	R56470	R56471	
14G-0247	PH/CS/CN/P100	X	X	X	X	X							X		X				X	X					ABCHJLMNOP
84A-2794	P100	X	X	X	X	X								X	X				X	X					ABCJLMNOP
14G-0313	PH/CS/CN/P100						X	X	X	X	X	X	X			X	X	X			X	X	X	X	ABCHJLMNOP
84A-5629	P100						X	X	X	X	X	X		X		X	X	X			X	X	X	X	ABCJLMNOP

1. Protection
 P100 - Particulate Filter (99.97% filter efficiency level) effective against all particulate aerosols

PH - Phosphine CS - Chlorobenzylidene malononitrile CN - Chloroacetophene

2. Cautions and Limitations

A - Not for use in atmospheres containing less than 19.5% oxygen.
 B - Not for use in atmospheres immediately dangerous to life or health.
 C - Do not exceed maximum use concentrations established by regulatory standards.
 H - Follow established cartridge and canister change schedules or observe ESLI to ensure that cartridges and canisters are replaced before breakthrough occurs.
 J - Failure to properly use and maintain this product could result in injury or death.
 L - Follow the manufacturer's User's Instructions for changing cartridges, canister and/or filters.
 M - All approved respirators shall be selected, fitted, used and maintained in accordance with MSHA, OSHA, and other applicable regulations.
 N - Never substitute, modify, add, or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.
 O - Refer to User's Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
 P - NIOSH does not evaluate respirators for use as surgical masks.

Notified body:
DEKRA EXAM GmbH
Dinnendahlstraße 9
D-44809 Bochum
Germany
Reference number: CE 0158

CE 0158



90 21 664 - GA 1412.545
© Dräger Safety AG & Co. KGaA
Edition 07 - September 2013 (Edition 01 - August 2005)
Subject to alteration

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