

**3M** Science.  
Applied to Life.™



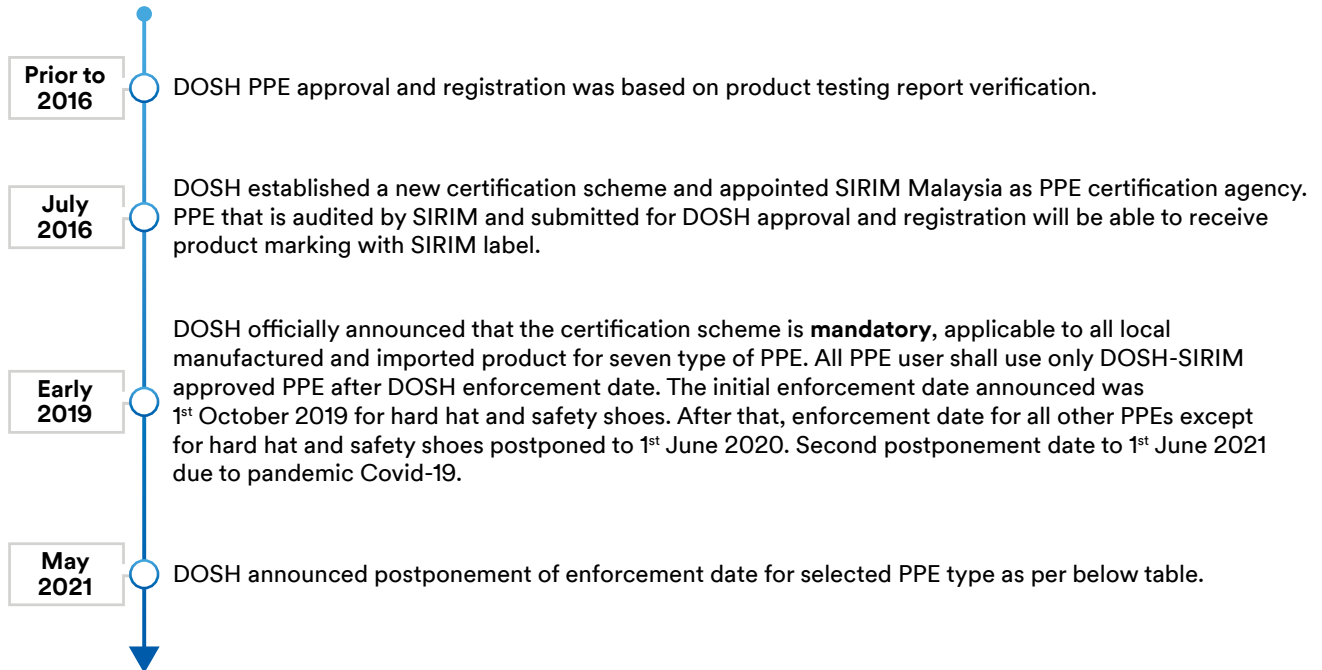
DOSH SIRM Approved

# 3M™ Reusable Respirators



## What is DOSH-SIRIM PPE Approval?

Department of Occupational Safety and Health (DOSH) Malaysia has announced new requirement of using DOSH-SIRIM approved Personal Protective Equipment (PPE).



| Enforcement Date for Selected PPE Type           |                           |
|--------------------------------------------------|---------------------------|
| Type of PPE                                      | Enforcement Date          |
| Head Protection                                  | 1 <sup>st</sup> June 2020 |
| Feet Protection                                  | 1 <sup>st</sup> June 2020 |
| Body Protection (Safety harness and accessories) | 1 <sup>st</sup> June 2021 |
| Respirator Protection (*Particulate respirator)  | 1 <sup>st</sup> June 2021 |
| Eye/ Sight Protection                            | 1 <sup>st</sup> June 2022 |
| Hearing Protection                               | 1 <sup>st</sup> June 2022 |
| Hand Protection                                  | 1 <sup>st</sup> June 2022 |

\* Note: Particulate respirator refers to filter material that protect against particulate hazards. This include disposable and reusable respirator.

The SIRIM label has been changed from Figure A to Figure B, which added SIRIM-DOSH:



Figure A: SIRIM Label



Figure B: SIRIM-DOSH Label

## Why DOSH-SIRIM PPE approval?

The DOSH-SIRIM PPE certification scheme is important to ensure industrial users are using DOSH approved PPE to achieve risk reduction in the workplace and enable PPE user to obtain optimum protection, preventing of dynamic workplace accident and reduce risk of potential long term illness and diseases.

3M Malaysia is **committed to comply with DOSH-SIRIM** requirements (*including the DOSH-SIRIM enforcement*). 3M PPE that is certified by SIRIM and approved by DOSH is published in DOSH PPE approval list ([here](#)).

## How to identify PPE with DOSH-SIRIM approval?

You can identify DOSH-SIRIM approved product by looking for the new DOSH-SIRIM label on the product or the packaging. Example of 3M™ Aura™ Disposable Respirator, FFP3/P3, Valved, 9332+ with DOSH-SIRIM label:



## Can I still use PPE purchased before the enforcement date?

DOSH clarified in its website ([here](#)), that existing personal protective equipment (“PPE”) without SIRIM certification, DOSH approval and SIRIM-DOSH label is allowed to be used until the DOSH approved PPE expires. Thereafter, the next purchase must be PPE with SIRIM-DOSH sticker. If you have further questions, please consult with DOSH.

If you have further inquiry regarding DOSH-SIRIM PPE approval, you may visit DOSH SIRIM PPE Approval FAQ ([here](#)).

## Follow the basic 3M four-step method to select the right DOSH SIRIM approved respiratory protection equipment for you and your workers:

### Step 1



**Identify the hazards**  
– dust, metal fume,  
gas, vapor etc.

### Step 2



**Assess the risk** – assess  
the hazard levels against  
safety standards and  
consider other protection  
– skin, eye and body.

### Step 3



**Select the right  
respirator** – disposable,  
reusable, half face mask,  
full face mask, powered  
supplied air etc.

### Step 4






**Train in fitting  
and use** – to optimise  
respiratory protection.

### Warning

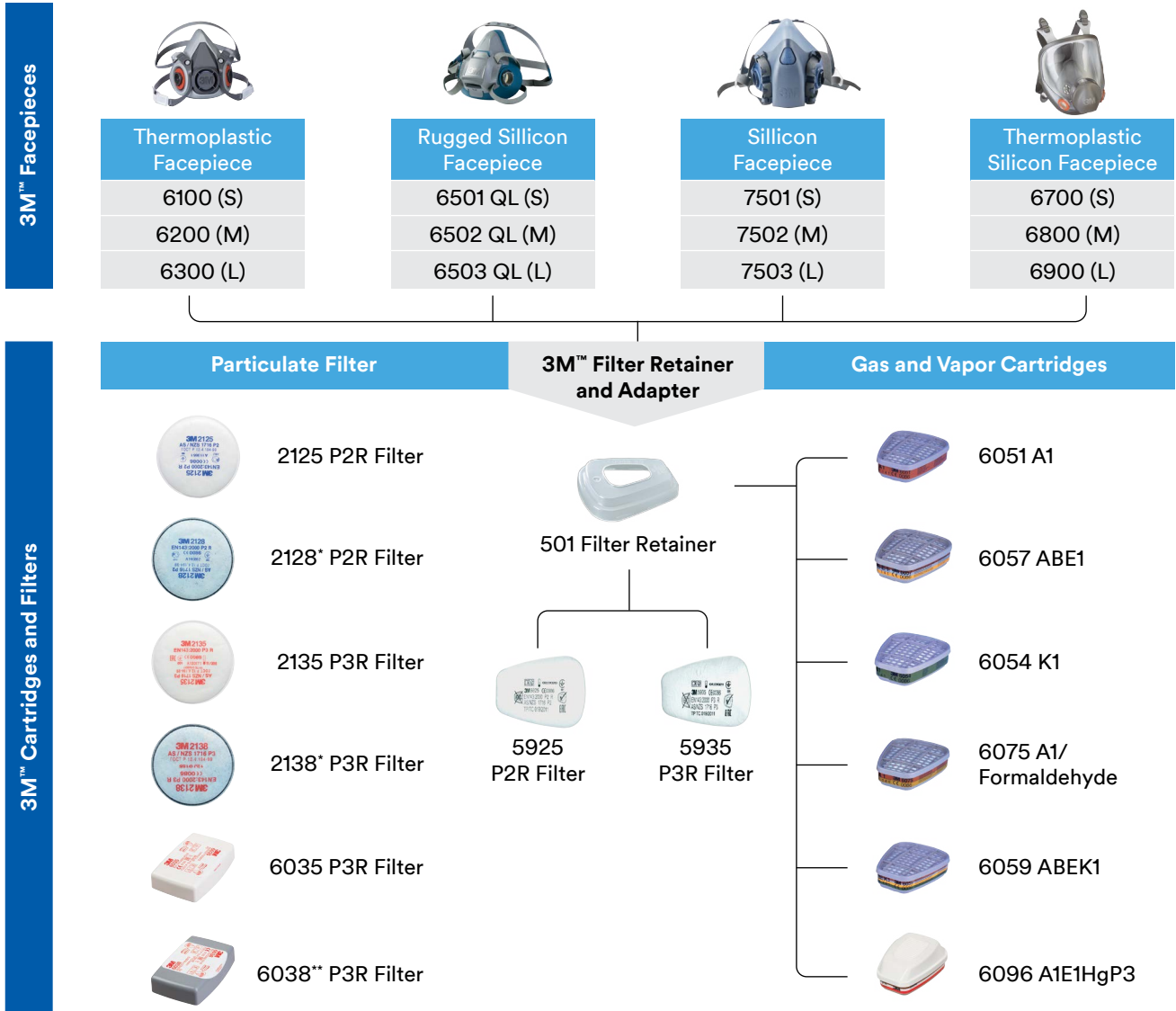
- Reusable respirators help reduce exposures to certain airborne contaminants.
- Before use, wearer must read and understand the User Instructions provided as part of the product packaging.
- Guidelines on The Use of Personal Protective Equipment Against Chemical Hazards under the Occupational Safety and Health (Use and Standard of Exposure of Chemicals Hazardous to Health) Regulations 2000 (Malaysia) require respirator fit testing.
- Reusable respirators cannot be used in environments with unknown contaminants or at/exceed Immediately Dangerous to Life and Health (IDLH) levels.
- Misuse may result in sickness or death.
- For proper use, see package instructions, your supervisor or call 3M Personal Safety Division at 603-7884 2990.

## Select the Right Facepiece

|                                                         |                                                                                                                                      |                                                                                                                                            |                                                                                                                                        |                                                                                                                                                    |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3M™ Half Facepiece<br/>Dual Cartridge Respirator</b> | <br>6100 (small)<br>6200 (medium)<br>6300 (large) | <br>6501QL (small)<br>6502QL (medium)<br>6503QL (large) | <br>7501 (small)<br>7502 (medium)<br>7503 (large) | <br>HF-801SD (small)<br>HF-802SD (medium)<br>HF-803SD (large) |
| <b>3M™ Full Facepiece<br/>Dual Cartridge Respirator</b> | <br>6700 (small)<br>6800 (medium)<br>6900 (large) |                                                                                                                                            |                                                                                                                                        |                                                                                                                                                    |

| Respirator models                                           | 3M™ Half Facepiece<br>Dual Cartridge Respirator                                                    |                                                                                                       |                                                                                                     |                                                                                                          | 3M™ Full Facepiece<br>Dual Cartridge<br>Respirator                                                   |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                                                             | <br>6200 series | <br>6500 QL series | <br>7500 series | <br>HF-800SD series | <br>6800 series |
| 3M™ Cool Flow™ Exhalation Valve                             |                                                                                                    | •                                                                                                     | •                                                                                                   | •                                                                                                        | •                                                                                                    |
| Compatible with 3M™ Supplied Air System                     | •                                                                                                  | •                                                                                                     | •                                                                                                   |                                                                                                          | •                                                                                                    |
| Compatible with 3M™ Powered Air<br>Purifying Respirators    |                                                                                                    |                                                                                                       |                                                                                                     |                                                                                                          | •                                                                                                    |
| Speaking diaphragm                                          |                                                                                                    |                                                                                                       |                                                                                                     | •                                                                                                        |                                                                                                      |
| Thermoplastic (TP) / Silicone(s) Faceseal                   | TP                                                                                                 | S                                                                                                     | S                                                                                                   | S                                                                                                        | TP/S                                                                                                 |
| Compatible with 3M™ Secure Click™<br>Cartridges and Filters |                                                                                                    |                                                                                                       |                                                                                                     | •                                                                                                        |                                                                                                      |

# Product Matrix Selection: 3M™ Dual Cartridge Facepiece Reusable Respirators



**Type A** For use against certain organic gases and vapors with boiling point higher than 65°C.

**Type B** For use against certain inorganic gases and vapors.

**Type E** For use against sulphur dioxide and other acidic gases and vapors.

**Type K** For use against ammonia and organic ammonia derivatives.




**Type Hg-P3** For use against mercury. Incorporates a particulate filter.

\* Filter with nuisance level organic vapor / acid gas relief. 3M recommends for relief against nuisance levels less than OSHA PEL or applicable government exposure limits, whichever is lower. Do not use for respiratory protection against gases or vapors.

\*\* Cartridge filter with hydrogen fluoride and nuisance level organic vapor / acid gas relief. 3M recommends for relief against nuisance levels less than OSHA PEL or applicable government exposure limits, whichever is lower. Do not use for respiratory protection against gases or vapors.

# 3M™ Particulate Filters and 3M™ Gas / Vapor Cartridges

All 3M™ Particulate Filters and 3M™ Gas / Vapor Cartridges can be used interchangeably with 3M™ Reusable Respirators 6000, 6500QL and 7000 Series.

| 3M™ Particulate Filters 2000 Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Part Number | Description                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------|
|  <ul style="list-style-type: none"> <li>• Lightweight and easy to breathe through.</li> <li>• Assortment of filters available for a wide range of applications.</li> <li>• Easier breathing through new 3-layer advanced Electret Filter Media.</li> </ul>                                                                                                                                                                                                                                            | 2125        | 3M™ Particulate Filter, P2R                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2128        | 3M™ Particulate Filter, P2R with Nuisance Level Organic Vapor / Acid Gas Relief*                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2135        | 3M™ Particulate Filter, P3R                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2138        | 3M™ Particulate Filter, P3R with Nuisance Level Organic Vapor / Acid Gas Relief*                                |
| 3M™ Particulate Filter 6000 Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Part Number | Description                                                                                                     |
|  <ul style="list-style-type: none"> <li>• Unique, spring-loaded filter cover design simplifies negative pressure user seal checks.</li> <li>• Swept-back design provides enhanced field of view and greater comfort.</li> <li>• 6038 offers a lightweight, low profile design that combines P3R filtration with carbon-loaded features found in heavier combination cartridge products.</li> <li>• Channelled airflow protects filter for enhanced breathability and longer service life.</li> </ul> | 6035        | 3M™ Particulate Filter, P3R                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6038        | 3M™ Cartridge / Particulate Filter, Hydrogen Fluoride, P3R with Nuisance Level Organic Vapor / Acid Gas Relief* |
| 3M™ Gas / Vapor Cartridges 6000 Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Part Number | Description                                                                                                     |
|  <ul style="list-style-type: none"> <li>• Swept-back design helps maintain good field of vision and comfort.</li> <li>• Full range of cartridges to meet your needs</li> <li>• Simple installation and usage requirements reduce training needs.</li> </ul>                                                                                                                                                                                                                                         | 6051        | 3M™ A1 Organic Vapor Cartridge                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6057        | 3M™ ABE1 Organic Vapor / Inorganic Vapor / Acid Gas Cartridge                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6054        | 3M™ K1 Ammonia Cartridge                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6075        | 3M™ A1 Organic Vapor / Formaldehyde Cartridge                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6059        | 3M™ ABEK1 Multi Gas Cartridge / Vapor Cartridge                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6096        | 3M™ A1E1HgP3 Organic Vapor / Acid Gas / Mercury Cartridge with P3 Particulate Filter                            |



Scan here or click [here](#) to download our 3M™ Respirator Selection Guideline.

\* 3M recommends for relief against nuisance levels of organic vapors and acid gases. Nuisance level organic vapor and acid gas refers to concentrations not exceeding OSHA PEL or applicable government occupational exposure limits, whichever is lower. Do not use for respiratory protection against acid gases or organic vapors (except hydrogen fluoride).






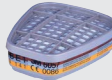



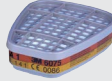







Note: Please refer to local regulation if PEL/OEL/WEL exists, whichever is lower.

# NIOSH to CE Certified Bayonet Cartridge and Filter Change Guide
















With the implementation of the Malaysia DOSH-SIRIM PPE Certification, all 3M™ Reusable Respirators that are NIOSH US CFR approved will be transitioned to European Standard (EN) – CE Certified. Below are the EN standards related to reusable respirators:

- EN 140 Half Masks & Quarter Masks
- EN 136 Full Face Masks
- EN 14387 Gas Filters & Combined Filters
- EN 143 Particulate Filters

If you're currently using 3M NIOSH certified reusable respirators, please refer to the table below for the CE certified equivalent models.<sup>3</sup>

| 6000 Series Gas and Vapor Cartridges                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NIOSH Certified                                                                                                                                                                                                                                                                                           | CE Certified                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|   6001 OV                                                                                                                            |   6051 A1                                                                                                                                                                                                                                                                              |
|   6002 AG<br> 6003 OV + AG                       |    6057 ABE1<br>                                                                                            |
|   6004 Ammonia                                                                                                                      |   6054 K1                                                                                                                                                                                                                                                                             |
|   6005 OV + Formaldehyde                                                                                                            |    6075 A1 + Formaldehyde                                                                                                                                                                        |
|   6006 Multi-Gas                                                                                                                    |    6059 ABEK1<br>      |
|   6007 Mercury + OV<br> 6009S Mercury + Chlorine |    6096 A1E1HGP3*<br>  |

## 2000 &amp; 7000 Series Particulate Filters

|  2071 (P95)                                                                                                   |  2125 (P2R)                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|  2078<br>(P95 with nuisance level OV/AG) <sup>1</sup>                                                         |  2128<br>(P2R with nuisance level OV/AG) <sup>1</sup>   |
|  2091 (P100) <sup>2</sup>                                                                                     |  2135 (P3R) <sup>2</sup>                                |
|  2096<br>(P100 with nuisance level AG) <sup>1,2</sup><br>2097<br>(P100 with nuisance level OV) <sup>1,2</sup> |  2138<br>(P3R with nuisance level OV/AG) <sup>1,2</sup> |
|  7093 <sup>2</sup>                                                                                           |  6035 <sup>2</sup>                                      |
|  7093C <sup>1,2</sup>                                                                                       |  6038 <sup>1,2</sup>                                  |
| Replaceable Filters (Used with 501 & 6000 Series Cartridges)                                                                                                                                   |                                                                                                                                          |
|  5N11 (N95)<br>5P71 (P95)                                                                                   |  5925 P2R                                             |
| Combination of 6000 series cartridges with 2000 series particulate filters and 502 filter adapters                                                                                             |  5935 P3R                                             |

The facepiece models below will remain the same for EN standard but contains CE markings. Please ensure markings are available on facepiece before use.

- ▶ 6000 Series Half & Full Facepiece
- ▶ 6500QL Series Half Facepiece
- ▶ 7500 Series Half Facepiece

Note: FF-400 Series Full Facepiece has no CE certification available.

\* Comes with P3 filter, without End of Service Life Indicator, ESLI

<sup>1</sup> 3M recommends for odor relief against nuisance level acid gas or organic vapors. Nuisance odor levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower. Do not use for respiratory protection against gases or vapors.

<sup>2</sup> HEPA filters under NIOSH has magenta colour code. CE certified filters have no requirement for colour code.

<sup>3</sup> The table is intended as a general guide only. Actual applications may differ based on actual workplace hazard. Please contact your supervisor or 3M immediately when in doubt.



# 3M™ Half Facepiece Reusable Respirator 6500QL Series

This series of respirator is designed with tough and dirty worksites in mind. Stay productive and protected this series delivers comfort, durability and stability with a firm, lightly textured silicone face seal and strong body construction.



## Adjustable Head Harness Assembly

- Optimum fit and comfort with three-size adjustable head cradle.
- Long-lasting polyester/ spandex straps.

## Low-Profile Design for Compatibility

- Compatible with most welding/grinding shields.
- Advanced half facepiece design for a wide field of view.

## Comfortable, Durable Silicone Face Seal

- 3M's lightest silicone facepiece, the 6500QL Respirator Series provides comfort and stability with a soft, stable face seal.
- Resilient silicone material keeps its shape in high-heat environments, which can help extend product life.

## 3M™ Cool Flow™ Exhalation Valve with Unique Cover Design




- Enhanced comfort by reducing heat and moisture.
- Directs exhaled breath and moisture downward.
- Easy positive pressure seal check.



## Quick Latch - Drop-down Mechanism

- Easy on and off as you move in and out of contaminated areas.
- No need to remove your hardhat or faceshield when lowering or raising your respirator.

## Ordering Information - Replacement Parts

| Product No. | Product                                                                             | Description                           | Packaging  |
|-------------|-------------------------------------------------------------------------------------|---------------------------------------|------------|
| 6582        |  | 3M™ Quick Latch Head Harness Assembly | 20ea/case  |
| 6583        |  | 3M™ Inhalation Valve                  | 10ea/case  |
| 6893        |  | 3M™ Exhalation Valve                  | 200ea/case |

# 3M™ Secure Click™ Half Facepiece Reusable Respirator HF-800SD Series

Designed with smart and intuitive features, the 3M™ Secure Click™ Half Facepiece Reusable Respirator HF-800SD Series helps protect workers from particulates and a wide variety of gases and vapours when used with approved 3M™ Secure Click™ filters and cartridges.

## 3M™ Secure Click™ Half Facepiece Reusable Respirator with Speaking Diaphragm

HF-801SD -Small

HF-802SD -Medium

HF-803SD -Large

New

### Speaking Diaphragm

Designed to help provide easier communication while working.

New

### Proprietary Silicone Flex-Joint Face Seal

Provides a softer feel for more comfort on the wearer's face.

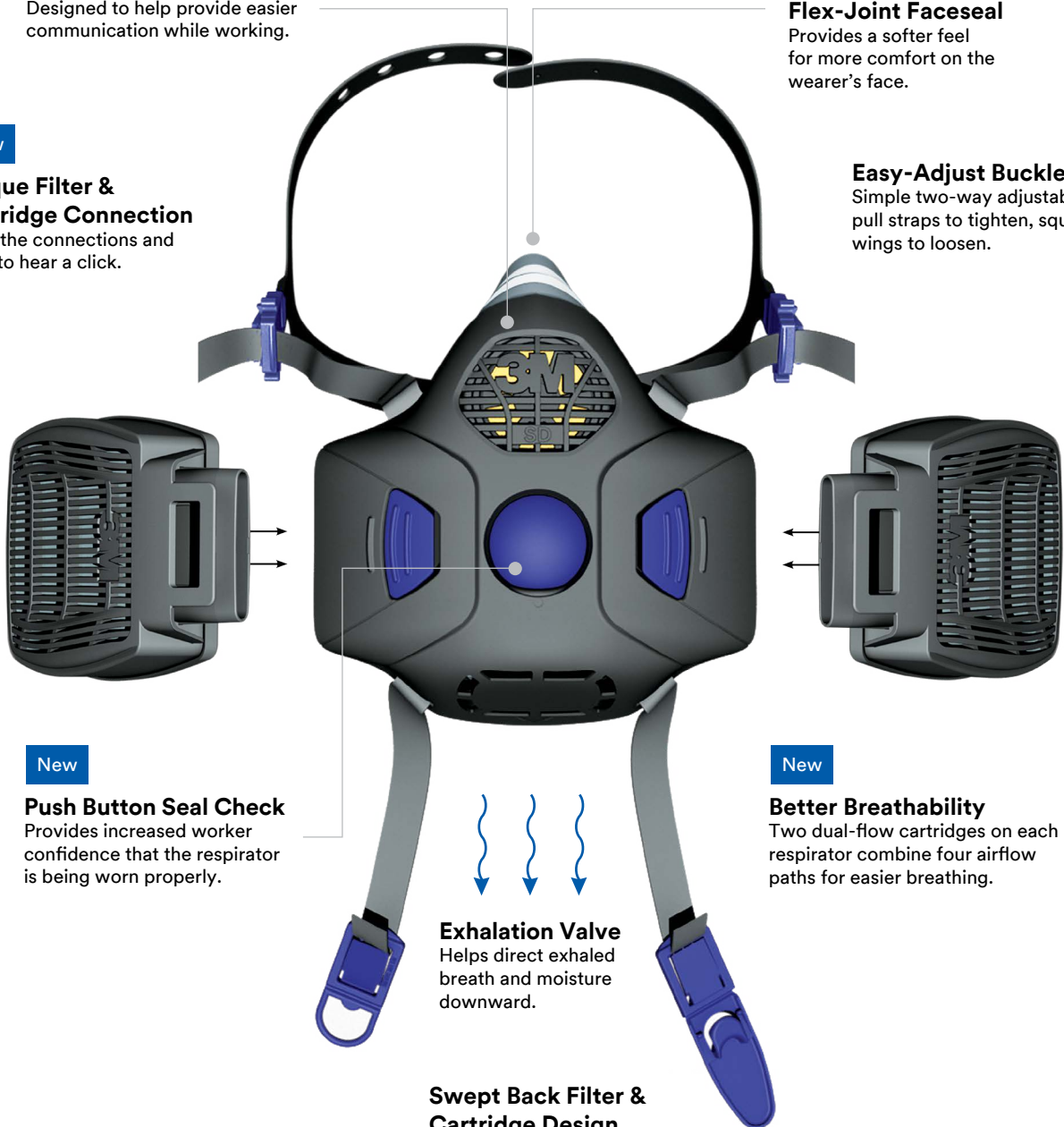
New

### Unique Filter & Cartridge Connection

Align the connections and push to hear a click.

### Easy-Adjust Buckle

Simple two-way adjustability: pull straps to tighten, squeeze wings to loosen.



New

### Push Button Seal Check

Provides increased worker confidence that the respirator is being worn properly.

New

### Better Breathability

Two dual-flow cartridges on each respirator combine four airflow paths for easier breathing.

### Exhalation Valve

Helps direct exhaled breath and moisture downward.

### Swept Back Filter & Cartridge Design

For compatibility with certain welding and grinding shields.

# 3M™ Secure Click™ Half Facepiece Reusable Respirator HF-800SD Series



## Hear it:

Work with the confidence provided by the all new 3M™ Secure Click™ connection, that filters/cartridges are installed properly. Simply align the connections and push to hear a click.



## Check it:

Increase worker confidence that the respirator is being worn properly with the easy, one-touch, user seal check.



## Feel it:

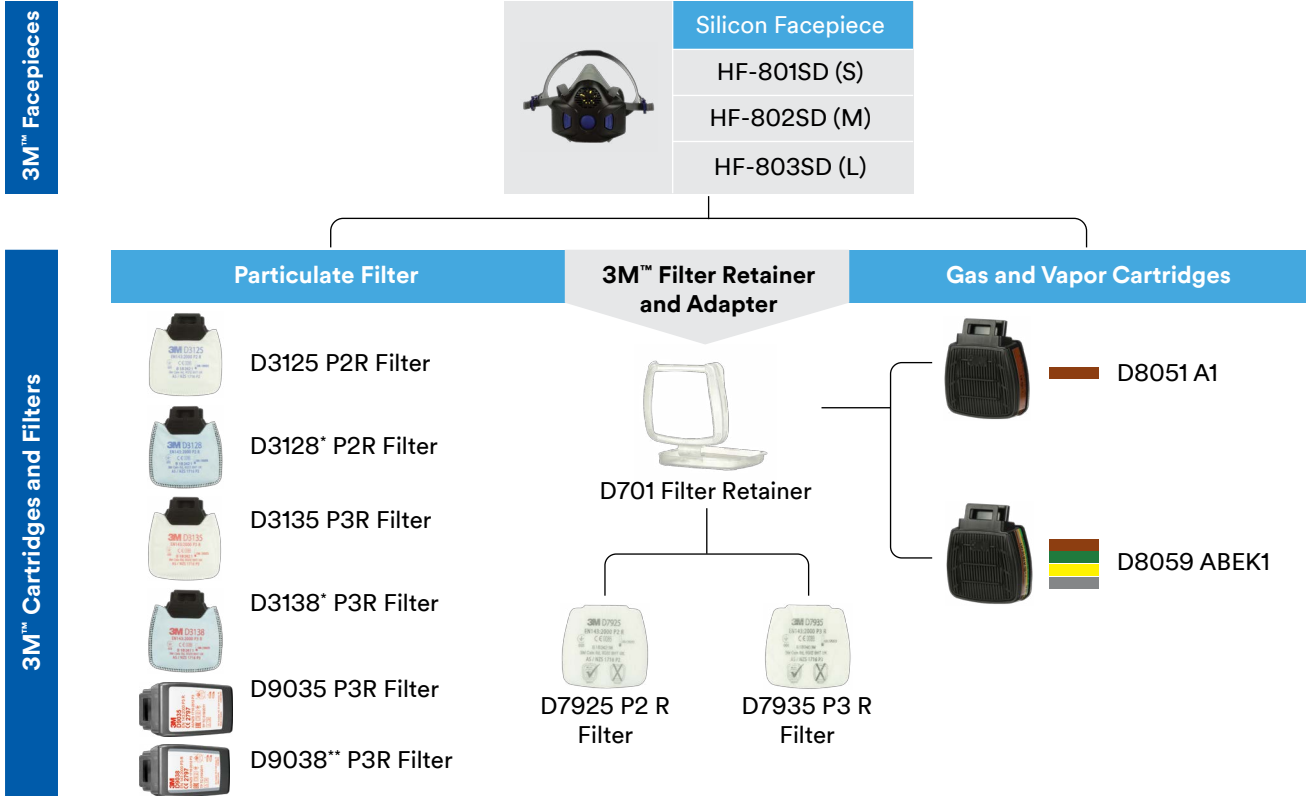
Experience the greater breathability and comfort provided by the world's first quad-flow gas and vapour filter/combination filter system.



## Say it:

Utilise the speaking diaphragm designed to help provide easier communication while working.

# Product Matrix Selection: 3M™ Secure Click™ Dual Cartridge Facepiece Reusable Respirator



- Type A** For use against certain organic gases and vapors with boiling point higher than 65°C.
- Type B** For use against certain inorganic gases and vapors.
- Type E** For use against sulphur dioxide and other acidic gases and vapors.
- Type K** For use against ammonia and organic ammonia derivatives.

\* Filter with nuisance level organic vapor / acid gas relief. 3M recommends for relief against nuisance levels less than OSHA PEL or applicable government exposure limits, whichever is lower. Do not use for respiratory protection against gases or vapors.

\*\* Cartridge filter with hydrogen fluoride and nuisance level organic vapor / acid gas relief. 3M recommends for relief against nuisance levels less than OSHA PEL or applicable government exposure limits, whichever is lower. Do not use for respiratory protection against gases or vapors.

| Ordering Information - Replacement Parts |         |                                                     |           |
|------------------------------------------|---------|-----------------------------------------------------|-----------|
| Product No.                              | Product | Description                                         | Packaging |
| HF-800-02                                |         | 3M™ Secure Click™ Inhale & Exhale Valve             | 10ea/case |
| HF-800-03                                |         | 3M™ Secure Click™ Quantitative Fit Test Adapter Kit | 1ea/case  |
| HF-800-04                                |         | 3M™ Secure Click™ Head Harness Assembly             | 5ea/case  |
| HF-800-05                                |         | 3M™ Secure Click™ Speaking Diaphragm Assembly       | 5ea/case  |

# Respirator Select and Service Life Software

3M have designed state of the art software to help make the selection of 3M™ Respirators and filters easier. The user-friendly software also helps users estimate the service life of 3M™ Gas and Vapour Filters.

The 3M™ Select and Service Life Software simplifies and speeds up the selection of 3M™ Respirators through a user-friendly interface that allows the user to enter contaminants and their concentrations.

With the ability to analyse more than 700 different chemicals, and mixtures of chemicals, the software provides a series of prompts to the user to select an appropriate respirator. A record is also provided of the choices made by the user.

Respiratory filters have a limited service life, this is the estimated period of time before breakthrough of a chemical for a specific filter. Respiratory protection standards and/or good practice often require users of chemical filter respirators to implement a filter change schedule based on "objective information or data" to help prevent worker overexposure.

The 3M™ Select and Service Life Software offers the additional capability of estimating the frequency of replacement of 3M™ Gas and Vapour Filters. The software calculates service life based on workplace conditions such as contaminant concentration. This information can then be used to establish a filter change schedule.



## 3M™ Select Software

3M™ Select Software is designed to help you choose the appropriate 3M™ Respirator for your work environment.



## 3M™ Service Life Software

The Service Life calculation is designed to help you estimate the service life of selected 3M™ Gas and Vapour Filters.

To use the software simply visit:  
[www.3M.com/SLS](http://www.3M.com/SLS)





**3M Personal Safety Division**

**3M Malaysia Sdn Bhd** (7251V)

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