

FIT TEST ADAPTER KIT

TSI MODEL 8025-34

INSTALLATION INSTRUCTIONS

Kit Contents

Qty.	Description
1	MSA G1 APR Adaptor Assembly
1	40-mm Threaded Adapter Assembly
50 ft	3/16-in OD x 1/8-in ID PVC Tubing*
200	Suction Cups*
200	Clips*
20	Replacement O-rings
1	Scissor
1	Measuring Scale
1	High Efficiency Filter with 40-mm Thread
1	Storage Case
1	Instructions (this document)



Figure 1. PortaCount® Pro Plus Model 8038

*Reorder TSI Refill Kit part no. 800553 for additional Clips (200), Suction Cups (200) and Tubing (50-ft).

The TSI Model 8025-34 Fit Test Adapter is a combination of devices that allows a PortaCount® Pro/Pro+ Respirator Fit Tester to quantitatively fit test the MSA G1® full face masks.



Figure 2. MSA G1 APR Adaptor



Figure 3. 40-mm Threaded Adapter Assembly

Note

Positive-pressure masks must be fit tested in negative-pressure mode as if they were a negative-pressure mask. This is in accordance with all fit testing regulations throughout the world including OSHA, ANSI, CSA, HSE, etc.

1. Cut approximately 10 inches (25.4 cm) of tubing.
2. Thread tubing up into mask through opening where regulator would connect. Leave approximately 5 inches (13 cm) inside the mask, and 4 inches (10 cm) outside the mask (Figure 4).
3. Thread the 5 inches (13 cm) of tubing inside the face piece through one of the nose cup inhalation valves and into the inside of the nose cup. This tubing will collect air samples in the breathing zone of the mask near the nose and mouth.
4. Press and click MSA APR Adaptor into place, leaving tubing coming out through opening (Figure 5).



Figure 4



Figure 5

5. Connect tubing to fitting inside the threaded end of the 40-mm threaded adaptor assembly (Figure 6).



Figure 6

6. Screw the 40-mm Threaded adapter onto the APR Adapter by spinning the outer ring (Figure 7).

DO NOT allow the adapter body to rotate and twist the flexible tubing.



Figure 7

7. Pull excess tubing into nose cup of mask to remove unnecessary slack (Figure 8).
8. Trim tubing inside nose cup to about 2 inches (5 cm).

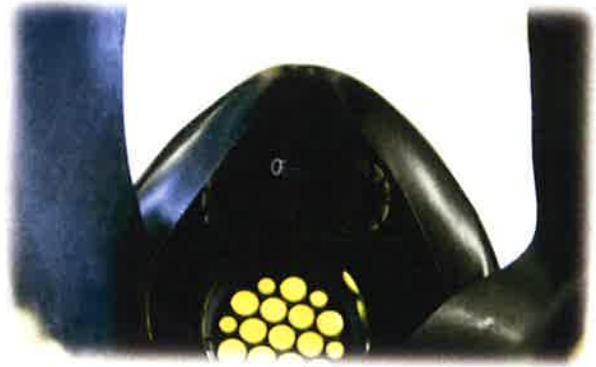


Figure 8. Simulated view looking into nose cup of face mask. Your specific mask may differ slightly.

9. Attach a clip and a suction cup to the end of the tube that is inside the mask (or nose cup). The neck of the clip is hollow so that air may pass through it.

The purpose of the clip and suction cup is to anchor the end of the tube so that it cannot be inadvertently blocked due to contact with the skin, lips, or nose.

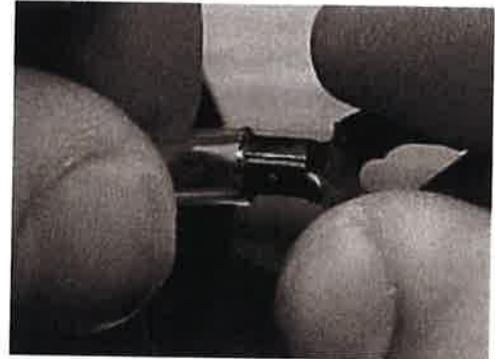


Figure 9

The suction cup, clip, and tube will be contaminated by the breath of the person being fit tested. These parts should be discarded and replaced with new (clean) parts for each person. The kit includes 200 clips, 200 suction cups, and sufficient tubing for about 200 fit tests.

Reorder TSI Refill Kit part no. 800553 for additional Clips (200), Suction Cups (200), and Tubing (50-ft).

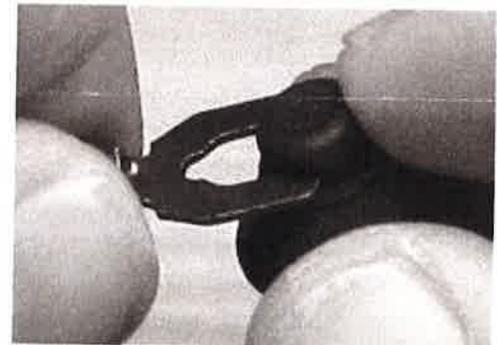


Figure 10

10. Attach the suction cup to a smooth surface inside the mask near the nose and mouth. Make sure the tubing inlet cannot be accidentally blocked. The suction cup may stick better if the mating surfaces are wetted or wiped with an alcohol swab first.



Figure 11

11. Screw a filter canister into the 40-mm Threaded fit test adapter. Make certain that the filter is a high-efficiency type filter (HEPA, P100, P3, etc.) with a 40-mm thread.

This kit includes a 40-mm P100 filter. Any brand of high-efficiency HEPA, P100, or P3 filter canister can be used as long as it has a standard 40-mm thread.

Combination cartridges are not recommended because they sometimes shed carbon particles that will be interpreted as face seal leakage by the PortaCount fit tester.



Figure 12

12. Attach the clear PortaCount mask sample tube to the fitting on the side of the fit test adapter and proceed with the fit test.



Figure 13

PRECAUTIONS

- ◆ **Make certain that a tube is used inside the mask. This ensures that air is sampled from the breathing zone near the nose and mouth.**
If there is no tube used to draw air from the breathing zone, only clean filtered air will be sampled and all fit tests will result in extremely high (over 100,000) fit factor values. These fit factors will not be correct.
- ◆ **Make certain that the flexible tube inside the mask is not blocked, twisted, or pinched.**
A blocked tube will result in high fit factors that are not correct.
- ◆ **Make certain that the filter canister is a high efficiency type filter (HEPA, P100, P3, etc.).**
Using the wrong type of filter will result in very low fit factors because ambient air particles can pass through it.
Combination HEPA/Gas filters are not recommended because they sometimes shed carbon particles. This will result in low fit factors because the shed particles will be interpreted as face seal leakage by the PortaCount fit tester.
- ◆ **The flexible tubing used inside the mask should be 1/8 inch (3 mm) inside diameter × 3/16 inch (4.5 mm) outside diameter PVC tubing. DO NOT use Teflon® or silicone tubing because particles do not pass through them properly due to static charge issues.**
- ◆ **To test the fit test adapter, create a large leak by placing an object like a pencil in between the test subject's face and the mask. The resulting fit factor should be very low.**



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