

Hearing Loss

## Superior & Affordable Hearing Protection

Brought To You by PIP | Jun 16, 2021

Noise-induced hearing loss is a common workplace injury that is 100% preventable. Protective Industrial Products is proud to offer a complete line of hearing protection options to keep workers protected from loud working environments, while achieving all-day comfort and optimal sound attenuation.

### EAR MUFFS

Ear muffs provide a more secure form of hearing protection, especially because they are easier to use and allow the user to gain maximum protection from the product.

### Technology

All hearing protection methods have capability to reduce noise. Devices with only this function are called passive hearing protectors. Electronic styles integrate advanced electronics with the ear muffs to suit multiple work environments.



Passive (left) vs. electronic ear muffs

### Passive Ear Muffs

Noise-blocking muffs attenuate noise using the highest quality insulating and dampening materials and are offered in multiple levels of protection to fit your working environment

- All models are dielectric
- Slim profile increases stability and reduces the risk of snagging in confined areas
- Available in Headband, Cap Mounted and Neckband Styles

## Electronic Ear Muffs

Available Level Dependent System uses microphones mounted on each ear cup that limits all sounds through the speakers to a safe level, allowing for communication while remaining protected against hazardous noise

- Available AM/FM Radio for monotonous and stationary tasks in noisy areas, to increase motivation and efficiency

## Styles

When combining hearing protection with other protective equipment, it is important that the hearing protection attenuation is not impaired due to the combination. For example, the temples of safety eyewear should be of a low-profile type to minimize the reduction of performance. If you are uncertain if your other equipment will affect the attenuation, it may be wise to choose an ear muff with a slightly higher protection level than what the analyze method is stating.



(Left to right) Headband, Cap Mounted and Neckband

## Headband

### *Electronic & Passive*

Light, durable construction with easy size adjustment provides the perfect fit for all head sizes. Unlike other ear muffs on the market, PIP's line is made with a high-performance, thermoplastic material that allows the headband to be stretched without warping or distorting.

## Cap Mounted

### *Electronic & Passive*

Fits most cap-style hard hats with universal slots. They can be worn snapped into place on the ear, slightly off the ear to allow hearing, or pivoted up and away when not needed.

## Neckband

### *Passive Only*

For use in conjunction with bump caps, hard hats without universal slots or head-mounted face protection. Adjustable head support strap ensures that muffs stay in position at all times.



## Materials Basics

Using ear plugs should be comfortable. From traditional to innovative, the materials that make up PIP's plugs are designed for excellent performance during the task at hand, while avoiding discomfort after long periods of use.

- **Polyurethane**

Soft polyurethane foam has a unique cellular structure that allows for slow expansion to perfectly fit the size and form of the ear canal, with a sealed surface that prevents foreign bodies from penetrating. The material provides high and immediate noise reduction.

- **PVC**

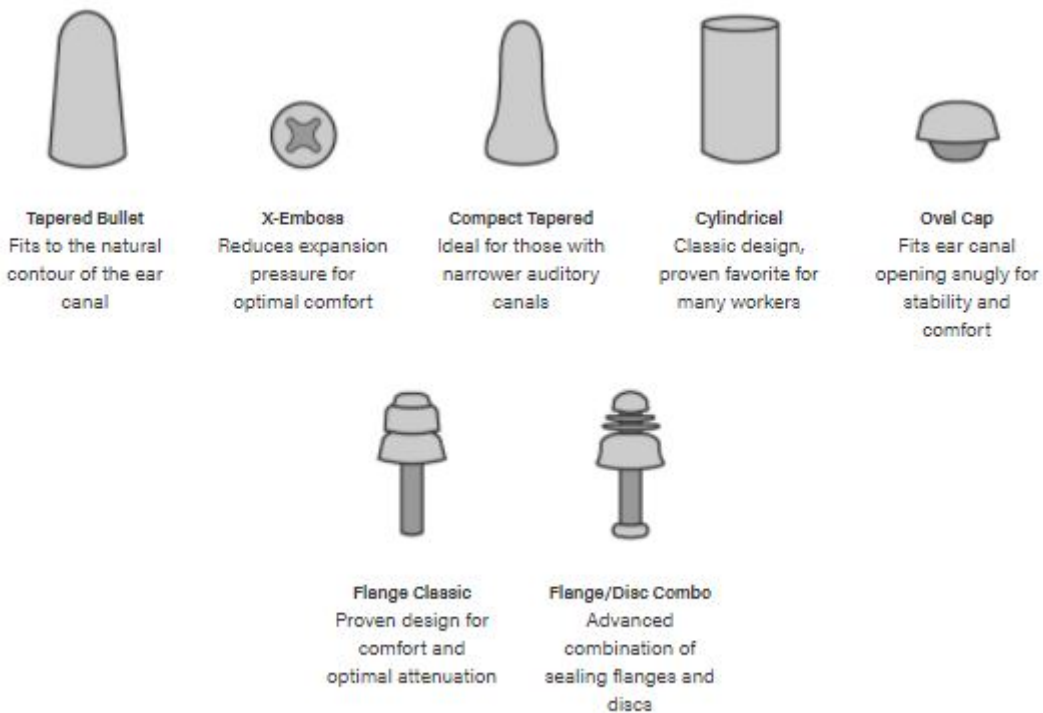
A more traditional material for ear plugs, soft PVC foam provides high and immediate noise reduction.

- **Thermoplastic Elastomer**

The smooth, dirt-repellent surface of TPE plugs can be cleaned using soap and water. This is ideal for dirty working environments, preventing minor injuries and irritation. It is created in a pre-formed shape and requires no rolling, making them easy to put on. Its moderate noise reduction blocks out hazardous noise yet allows warning signals and voices to be clearly understood.

## Shape & Fit

The shape of the ear plug is designed to bring the wearer maximum comfort. They are tailored to best fit the ear canal and deliver optimal attenuation.



## Plug Styles

These features help tailor a product to be safer and more convenient in a specific working environment, whether that means fitting in a dispenser or keeping track of plugs after removing them from the ear.



(L-R) Uncorded, Corded and Banded

### Uncorded

The most economical option, and mainly for one-time use. Also practical in areas where a cord may be hazardous.

### Corded

Easier to keep track of by allowing the user to wear the plugs around their neck while not in use. Can be made with rubber or non-resonating textiles, and certain styles are detachable for added safety.

### Banded

Convenient for intermittent use. Ensures out-of-the-way comfort and limits contact with clothing and resulting sound transmission. Prevents the plugs from contact with dirty surfaces when set down.

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