

Vyon® Silencers

Pneumatic Equipment Silencing

Vyon® is a porous permeable plastic material made from high density polyethylene by a modern powder sintering process. The Vyon® silencer is a sintered polyethylene body moulded to a high density polyethylene adapter.

The silencer screws directly into the exhaust port of a control valve. The exhausting air escapes to the atmosphere by expanding through the porous body.

The noise from a single unsilenced exhaust port is reduced from about 90 decibels to between 60 and 70 decibels when fitted with a Vyon® silencer. 90 decibels corresponds to the noise produced by a heavy truck or underground train passing at a distance of a few feet and represents the acknowledged danger level to which people should not be exposed for any length of time. By comparison, 60 decibels corresponds to normal conversation at a distance of 3 feet.

Vyon® silencers are available to pneumatic equipment manufacturers in our exclusive grey body/black adaptor colour combination direct from **Porvair Filtration Group**.



Features and Benefits

- **Significant noise reduction**
Up to 30 decibels, the difference between an underground train and normal conversation.
- **Easy installation**
Our silencers are available with BSP thread connections. They screw directly into, and must always match the size of the exhaust port.
- **Operating conditions**
For application on systems with working pressures up to 150psi.
- **Minimal flow loss**
Effectively zero in a vast number of applications.
- **Minimal maintenance costs**
Elements can be cleaned and reused, reducing replacement and maintenance costs.
- **Maintenance free**
Unaffected by water or oil. Silencers should not be allowed to become blocked or blinded with debris.



Specifications and Additional Information

Materials of Manufacture

Body: Vyon® sintered porous HDPE
Adapter: Injection moulded solid HDPE

Cartridge Dimensions

Fitting Size (inches)	Full Height (mm)	Body Height (mm)	Width (mm)
1/8"	34.5 (1.36")	27.8 (1.09")	12.9 (0.51")
1/4"	42.6 (1.68")	35.7 (1.04")	16.6 (0.65")
3/8"	67.5 (2.66")	57.4 (2.26")	24.4 (0.96")
1/2"	78.5 (3.09")	68 (2.68")	24.8 (0.98")
3/4"	139.8 (5.5")	124.8 (4.91")	37.6 (1.48")
1"	154 (6.06")	135.5 (5.33")	47.8 (1.88")
1"	115 (4.53")	95.6 (3.76")	47.8 (1.88")

Standard silencer dimensions are shown in the table above, please contact a Porvair Filtration Group representative for our full product range.

Fitting

BSP (British Standard Pipe).

Maximum Working Pressure

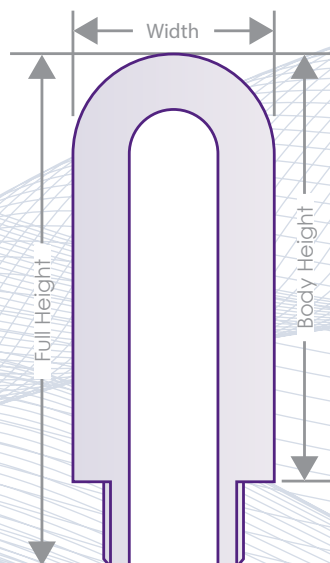
10bar (150psi)

Noise Reduction

Up to 30dB

Operating Temperature

From -70°C (-94°F) to +80°C (176°F)



Quality Assurance

Quality is at the heart of every stage of our operation and a fundamental part of our culture. We are ISO9001 approved at all of our manufacturing facilities and hold many other accreditations for the various industries we serve.

Product Innovation, Manufacturing and Testing

We understand that product development involves building multidisciplinary teams, not only within the company, but often in partnership with our customers, improving project efficiency and ensuring complete customer satisfaction. This continuous development of products and materials is vital, to enable us to offer new and better solutions to applications. **Porvair** has implemented various methodologies to drive out waste and process variance across the company to achieve the ultimate goal of zero defects.

We have a dedicated team of scientists, engineers, production and quality professionals working towards the best possible filtration solutions for our customers. We have a fully equipped test house and laboratory, and our experienced design engineers use the latest AutoCAD® technology, with 3D solid modelling, integrated with a finite element analysis system to give full structural assurance capability.



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