

PHOENIX



PVIM

Streamer Stretch Sections





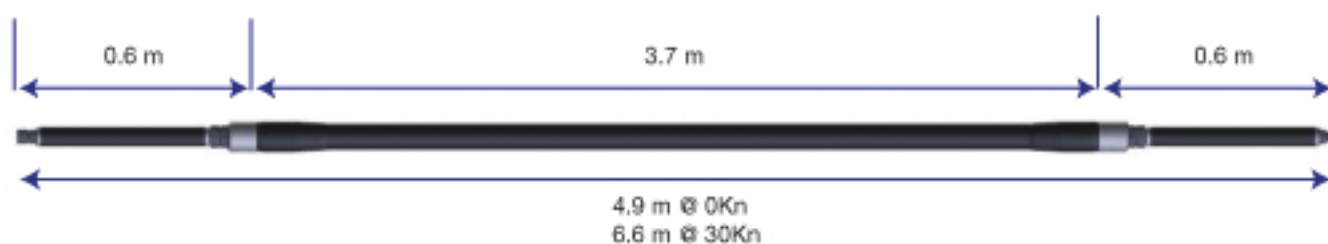
PVIM

Streamer Stretch Sections

PVIM Standard



PVIM Mini Streamer



Product Overview

Details

PVIM is a family of vibration isolation modules for use at the head end of streamers. They have been designed to offer maximum vibration isolation in the 4 Hz to 15 Hz frequency range and have now been in operation for over two years with a number of customers.

PVIM can be manufactured to suit any recording system and Phoenix Engineering Systems has the engineering expertise to design interfaces to suit your system.

PVIM offers very significant advantages over current technologies in terms of operational efficiency, durability and HSE whilst achieving equivalent or better levels of isolation.

Operational Efficiency

- » **Low weight in air, small diameter and short length**, all of which enhance the ease of handling on the back deck thereby reducing downtime during streamer configuration and deployment.
- » On recovery, the PVIM will go through standard streamer handling equipment and **is recoverable directly onto the streamer storage drum**.
- » As PVIM can be recovered onto the drum, there is no need remove it from the streamer on recovery.
- » Low weight in water means that PVIM will not have adverse effects on the streamer depth during deployment.
- » PVIM's **short length** with the same performance as other stretches enables shorter offsets to be achieved.

Reliability and Durability

- » PVIM's patented internal structure does not rely on a trapped volume of fluid. Products that do rely on a trapped volume of fluid often fail due to leakage of the fluid.

- » PVIM is of a **very rugged construction capable** of surviving the aggressive environment of repeated deployment and recovery under load.

- » PVIM is **damage tolerant and will survive extreme abrasion** to the outer jacket and even minor penetration of the jacket without reducing performance.

- » Should a repair be required, the major parts of PVIM can be disassembled and replaced on board without the need for special tools or processes.

Although PVIM contains no oil based fluids, its construction is very tolerant to attack by isopar and similar fluids commonly found in streamers.

HSE

- » PVIM is **free flooding** so there is no risk to personnel from potential high pressure leaks or any environmental impact normally associated with leaking fluids.

Manual handling risks are significantly lower using PVIM due to low weight, small size and the significantly reduced amount of handling required.

Specifications

Head Stretch Standard

Std Section Length 0 KN	3.9 m
Std Section Length 30 KN	5.6 m
Section Diameter	12 cm
Working Load	10 to 30 KN
Snub Load	30 KN
Breaking Load	90 KN
Max Recovery Load	20 KN
Min bend radius	15 cm at 20° wrap angle
Weight in air	50 Kg
Weight in water	25 Kg
Ballast	Sea Water free flooding
Acoustic Isolation	-15 dB @ 8 to 15 Hz
Operation Depth	0 to 30 m
Survival Depth	200 m
Min storage Drum Radius	60 cm
Jacket Type	Neoprene Rubber (reinforced)
Connector housings	Titanium
Operating Temperature	-10 C to 40 C
Storage Temperature	-35 C to 70 C

Head Stretch Mini Streamer

Std Section Length 0 KN	4.9 m
Std Section Length 30 KN	6.6 m
Section Diameter	12 cm
Working Load	10 to 30 KN
Snub Load	30 KN
Breaking Load	90 KN
Max Recovery Load	20 KN
Min bend radius at Snub Load	15 cm at 20° wrap angle
Weight in air	60 Kg
Weight in 1020kg/m ³ water	27 Kg
Ballast	Sea Water free flooding
Acoustic Isolation	-15 dB @8 to 15 Hz
Operation Depth	0 to 30 m
Survival Depth	200 m
Min storage Drum Radius	60 cm
Jacket Type	Neoprene Rubber (reinforced)
Connector housings	Titanium
Operating Temperature	-10 C to 40 C
Storage Temperature	-35 C to 70 C