



UNDERWATER DEFENCE

PIOVRA

LIMPET MINE FOR COMBAT DIVERS

PIOVRA is a smart limpet mine for combat divers, designed to meet the latest operational requirements and the most stringent safety standards.

Each PIOVRA is supplied with a wide variety of attachment mechanisms, including magnets, suction plugs, rope with hooks, and a silent nail shooter. These options enable easy attachment to steel, GRP, and wooden targets. The diver has the flexibility to select the ideal combination of attachment mechanisms during mission preparation.

The arming delay is factory pre-set, whilst the fire delay is selected by the combat diver. The fire delay can be modified at any time until the operator initiates the arming sequence. PIOVRA can be operated in water or in air.

The omni-directional explosive main charge has been successfully tested against double-hull targets. To enhance the damage, up to 6 PIOVRA limpet mines can be linked underwater and detonated simultaneously.

Anti tampering features strengthen PIOVRA's resilience against countermeasures.

PIOVRA is maintenance free for 5 or 10 years, depending on the version.

MAIN FEATURES

- In service with many Naval Force
- Neutrally buoyant in water
- Safe in any operational conditions
- Effective against a wide range of targets
- Fully operative in air and water
- Insensitive munition
- Wide range of attachment mechanisms
- Maintenance free for 10 years

INTEGRATED LOGISTIC SUPPORT

- User technical manuals
- Training
- Technical assistance
- Spare parts

VERSIONS: LIVE / EXERCISE / PRACTICE / TIMER TRAINING



PIOVRA live variant



PIOVRA packaging configuration



Practice variant during a sea trial



Main charge effect against 20mm steel target

SAFETY STANDARD

PIOVRA is designed in accordance with STANAG 4439 standards for Insensitive Munitions (IM), ensuring safe handling, transportation and storage. The design of PIOVRA’s electronic time fuze complies with STANAG 4497 requirements.

VERSIONS

- Piovra Type 1: short fire delay (48 hours)
- Piovra Type 2: long fire delay (10 days)

TECHNICAL CHARACTERISTICS		
Dimensions		
Width		470 mm
Length		295 mm
Height		160 mm
Gross Weight		
In air		15 kg
In water		0 kg (adjustable by the operator)
Explosive		
Type		PBXN-109(MIL-E-82886)
NEQ		6 kg

The information may be subject to modification without prior notice.

Hazard Classification		UN 0056; 1.1D
Operational Characteristics		
Operational depth		0 m (min) 50 m (max)
Arming delay		30 min (min)
Fire delay (programmable)	Type 1	48 hours (max)
	Type 2	10 days (max)
Temperature		-10° C to 49° C
Shelf Life		> 30 years
		10 years maintenance free