



Top view of the packer showing the tightening screws.

Bottom view of packer showing rubber gland and instrument port.

	PRODUCT CATEGORY:
	BOREHOLE PACKERS + ACCESSORIES

Sub-Frost Artesian Environmental Packer

Artesian environmental well casings in cold regions pose a number of problems:

1. Icing around the well head may pose safety concerns.
2. The true head cannot be measured without plugging the casing.
3. If the casing is plugged on the surface, freezing action may rupture the casing even if it is steel, almost certainly if it is PVC.

The Sub-Frost Artesian Environmental Packer has features which address these problems and others. It is a mechanical packer which seals at depth (typically 3 m) by tightening screws on the surface. A top cable seal and through-pipe permit a piezometer located below the packer to be monitored with the packer in place.

A flange prevents the packer from accidental loss down the casing. The annulus above the seal may be purged to prevent freezing in that area using antifreeze or compressed air via a notch in the flange. The entire assembly is made of stainless steel and nitrile rubber, so corrosive effects of brines are minimized.

> APPLICATIONS

Sealing of artesian well casing - especially in cold regions where freezing can occur around the well head.

> FEATURES

Accommodates other instrumentation or downhole equipment which can be used in conjunction with the packer apparatus itself.

Custom Options Include:

- Standard cable gland for 1/4 in. OD cable.
- Sampler & valve on packer for groundwater sampling.
- Gland for sealing around small diameter cable with larger (3/4 in. – 1 in. OD) connector.
- Lengths other than 3 m (shorter or longer) - as requested by customer.
- Hanger for a downhole sensor.
- (Please contact RST for details on other custom options).



Contact RST for Details

> BENEFITS

- ✓ Custom Options
- ✓ Simple Operation
- ✓ High Reliability

ORDERING

Custom lengths available, contact RST (sales@rstinstruments.com) for more info.

ITEM	PART #
Sub-Frost Artesian Environmental Packer - for 2 in. wells	BPMECH-2
Sub-Frost Artesian Environmental Packer - for 3 in. wells	BPMECH-3
Sub-Frost Artesian Environmental Packer - for 4 in. wells	BPMECH-4
Sub-Frost Artesian Environmental Packer - for 4.5 in. wells	BPMECH-4.5
Sub-Frost Artesian Environmental Packer - for 5 in. wells	BPMECH-5
Sub-Frost Artesian Environmental Packer - for 6 in. wells	BPMECH-6