

High Pressure Syringes

Pressure-Flo™ Syringes

Special integral calibrated needle

- ▶ **Seals at 500 psi** – take high pressure samples from a cylinder or “bomb”
- ▶ **Sample contained in a calibrated needle** – injects directly through the GC septum inlet
- ▶ **Use with cylinder adapter** – lets syringe interface with gas cylinder



The Pressure-Flo high pressure syringe is a tried and true method of taking homogeneous high pressure samples from a cylinder or “bomb”. It contains the sample in a calibrated needle with a wire plunger to displace it and PTFE packing to seal it in, permitting injection of the sample directly through the GC septum inlet for convenience and simplicity.

The body of the syringe is lightweight for easy handling. It houses a special crimped PTFE packing which seals firmly at pressures in excess of 500 psi even under severe operating conditions. Threads allow the syringe to make up on a cylinder via the special adapters listed below. Once the syringe is screwed tight, the cylinder valve is opened and the plunger is depressed, extending the needle into the liquid zone. Once sample is drawn into the syringe, it is stored pressure-tight while the cylinder valve is closed and the syringe is removed from the adapter.

To inject the sample, the nose of the syringe is pressed very firmly against the septum to form a pressure-tight seal. (This requires a minimum 1/8" hole in the septum cap.) As this is done, the pointed tip of the needle punctures the septum. When the large handle is pushed in, the needle containing the sample is inserted into the injection port without any loss of contents.

0.5 µl	1 µl	2 µl	5 µl	10 µl
220005	220011	220012	220021	220022



Bomb Adapters

Fitting (NPT):	1/8" female	1/4" female	1/8" male	1/4" male
	240040	240041	240042	240043