

Stark Industries Control Panel – Model ACP-04

The Stark air control panel includes a high pressure regulator with gauges to indicate upstream (unregulated) and downstream (regulated) air pressure. Additional gauges and valves allow complete control of any number storage cylinders (either DOT or ASME) and any number of fill whips or can be piped to a containment fill station that includes its own fill whips

The four valves and gauges for the storage system provide complete control of filling to and from the storage and also to the SCBA or SCUBA tanks being filled. The gauges are piped on the storage side of the valves so that they always indicate the pressure in each group of storage cylinders. The panel receives air from the compressor through a check valve and can be operated in any one of three options. **1)** The tanks may be filled from the storage while the compressor is off. **2)** The tanks can be filled from the compressor without using the storage. Or **3)** Tanks can be filled from the storage while the compressor is running. In option three the air from the compressor goes wherever the valves allow it during the filling process. It makes no difference where the air goes because the air volume is getting the benefit of makeup air regardless of which valve is open or closed.



When more than four storage cylinders are used the best arrangement is to bundle them together in four groups of two, three or four to retain the usage of only four control valves and gauges. This arrangement keeps the operation simple while still achieving the benefits of the cascade filling process.

The best way for refilling the storage system is to fill the last (#4) bundle first. This will be the quickest group to fill and also will be required for final topping off tanks when the system is near the end of its capacity.

See pages 105 and 106 of **“Compressors for Dummies”** book for an overview of the cascade filling procedure.

Air inlet check valve

