

WATER SYSTEM OIL FREE AIR COMPRESSORS

150 - 575 psig

5 - 40 scfm

**Industrial Duty
Design**

Factory Tested

**Clean & Oil Free
Air Stream**

**Continuous Water
System Protection**

**Endless Tech
Support**

**Engineered For
Your Application**

Made in USA



Model: 3AN44V

Gas: Air

Suction Pressure: Ambient at 5682 ft. ASL

Discharge Pressure: 520 psig

Flow: 20 scfm

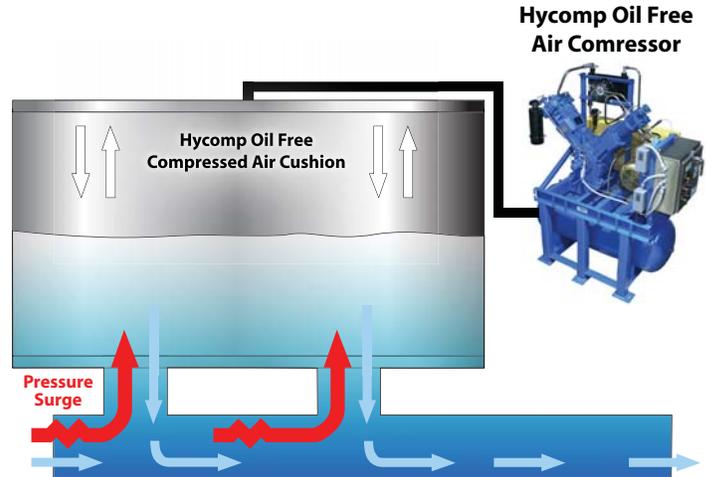
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HYDROPNEUMATIC TANK PROTECTION

Hydropneumatic tanks contain pressurized air and water. The compressed air is in direct contact with the water and acts as a cushion exerting or absorbing pressure.

Water hammer damage is caused when the flow of water is suddenly stopped while the mass of water is still moving forward, creating high pressure shock waves. Utilizing a Hycomp compressor provides the high pressure and oil free air needed to cushion these high pressure spikes while the water remains free from oil contamination.



Above figure is not to scale

CASE STUDY

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A water conservancy company was installing a pump station in Lost Canyon, Utah and needed to protect the station against water hammer damage. Similar to a surge protector for electronic devices, a hydropneumatic tank provides the cushioning needed to protect a large water system. It was paramount to have an oil free air compressor that would not contaminate the culinary water. They also needed to create 520 psig continuously, at 5862 ft. above sea level (ASL), to provide the required cushioning.

Hycomp's 3AN44V air compressor system was chosen to meet their process needs. A custom support frame system to mount the compressor on top of a 120 gallon storage tank was also designed to reduce the installation footprint of the equipment. A pair of identical compressor systems were installed to provide guaranteed redundancy of equipment.

Once installed, the customer reported that the Hycomp air compressors ran smoother, quieter and cooler than they had anticipated. More importantly, the water system is protected from water hammer and surge damage with no additional contamination exposure.