EXT-420 Butane/Propane Extraction Pumps

High-Pressure Positive-Displacement Piston Pumps

Models EXT-420 and EXT-420-2

EXT-420 high-pressure, positive-displacement two-stage piston pumps are safe, proven, reliable, and energy saving butane / propane extraction pumps. The high-pressure pumps offer the flexibility to speed completely variable from zero to maximum lbs/minute. No need for unloaders or bypass valves, simply add gauges and hoses to suit your application.

Applications

· Designed for supercritical extraction of essential botanical oils

Features and Benefits

- Safe for handling propane and butane (Vent port must be connected to an exhaust line that vents leaked gas outdoors)
- Viton and PTFE seals
- Stainless steel and aluminum wetted components
- High butane transfer rates
- No electrical components
- Stall against load start against load or run dry
- Requires compressed air to drive the pump approximately 30 CFM at 100 psi (7 bar) to run the pump at maximum speed (about 60 cycles per minute)
- Clean No lubrication required in the gas section Nothing is added to the gas

Model Number Configuration

- EXT Extraction Pump
 - 4 Pump has a ratio of 4:1
- 20 Pump displacement of 20 cubic inches

EXT-420 Specifications

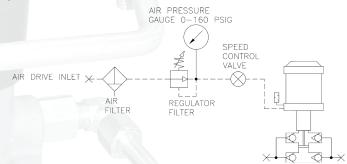
- Single stage
- Ideal when inlet pressures are 25 to 50 psi (1.7 to 3.4 bar) and outlet pressures are 125 to 150 psi (8.6 to 10.3 bar)
- Pump will transfer approximately ½ lb/ min with an inlet pressure of 50 psi (3.4 bar) and an outlet pressure of 150 psl (10.3 bar) at maximum speed
- Will draw pressure down to 15 psi (1 bar) with an outlet pressure of 150 psi (10.3 bar)

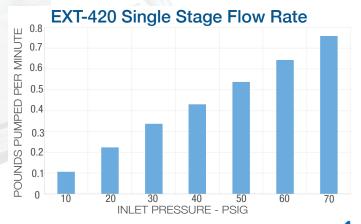
Operation

Proper operation of the Haskel EXT420 pumps will require the following additional equipment:

- Compressed air source capable of providing approximately 25 CFM of air at 90 psi (6.2 bar) or higher (Compressor must be located in an area away from the LPG gasses)
- Compressed air filter filtering to 40 microns or better
- Drive Air Pressure Regulator
- Drive Air Speed Control Valve such as a Gate Valve or a Globe Valve (not a Ball Valve)

Operation Schematic

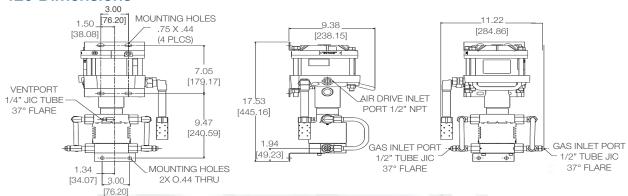






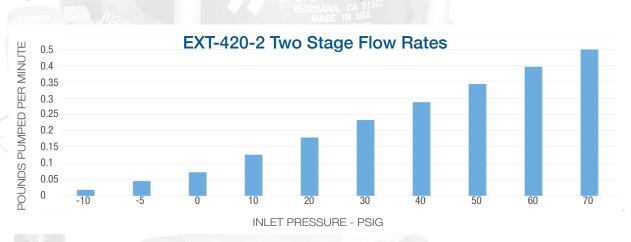


EXT-420 Dimensions



EXT-420-2 Specifications

- Switchable between single and two-stage mode by turning a valve
- Use single stage mode for most of the transfer when the inlet pressure starts to drop switch to two-stage mode to pull vacuum as your process requires
- In single stage mode the pump has identical performance to EXT420
- Two stage mode allows the pump to draw vacuum down to 23" Hg



EXT-420-2 Dimensions

