

83354 Butane/Propane Extraction Pumps

Positive-Displacement Piston Pumps

Model 83354

Model 83354 positive-displacement piston pumps are safe, proven, reliable, and energy saving butane / propane extraction pumps. The pumps offer a totally variable cycling speed to enable flow from zero up to the maximum (lbs/min). No need for unloaders or bypass valves, simply add gauges and hoses to suit your application.

Applications

Designed for 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 10 CFM at 1-100 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

Specifications

- Single stage
- Ratio: 4:1
- Displacement: 20 cubic inches
- Maximum pressure: 1,250 psi
- 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 psi (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)

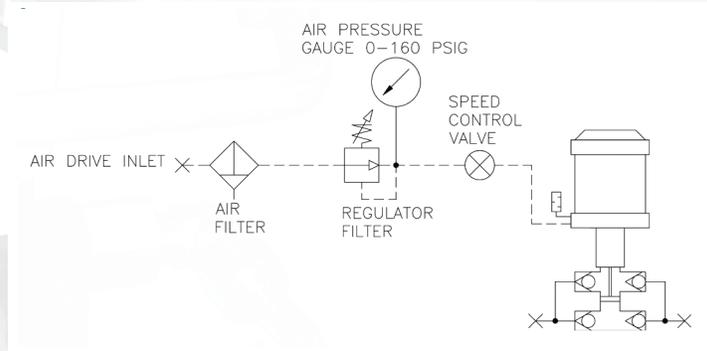
Operation

Proper operation of the Haskel Model 83354 pumps will require the following additional equipment:

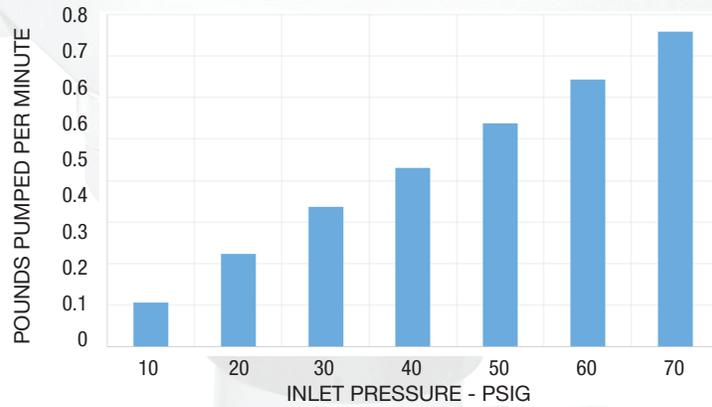
- Compressed air source capable of providing approximately 10 CFM of air at 90 psi (6.2 bar) or higher (Compressor must be located in an area away from the LPG gasses)
- Compressed air filter filtering to 40 microns or better
- Drive air pressure regulator - Normally set between 25-40 psi
- Drive air speed control valve - such as a gate valve or a globe valve (not a ball valve)



Operation Schematic



Single Stage Flow Rate



Dimensions

