



2:1 HIGH PRESSURE PUMPS



The Yamada 2:1 High Pressure pump was specifically designed for applications where 100 PSI maximum pump operating pressure is not enough to overcome system requirements. The flow rate is roughly half of the same size pump output, though a discharge pressure of 200PSI can be achieved with only 100 PSI air inlet pressure supplied. The 2:1 discharge pressure ratio is achieved by utilizing twice the surface area (driving both diaphragms) to double the output.

Key advantages:

- No bypass, relief valves, or complex controls required
- Great pressure retention (Ability to hold pressure)
- Port sizes: 3/4" to 3"
- Available wetted materials: aluminum, cast iron, 316 stainless steel
- Diaphragms: CR, NBR, EPDM, FPM
- Capacity from 1 - 380 liter per minute
- Discharge pressure till max 13bar
- Solid handling up till 10mm

Discharge at 2 times
Compressed air

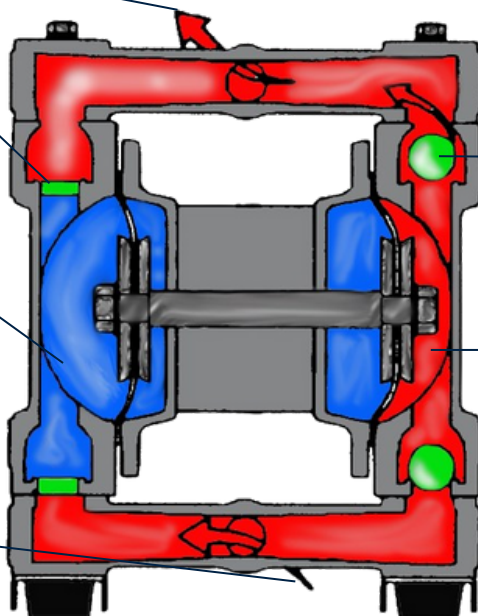
Blind seat

Compressed
air

Suction

Ball checks

Pumped
media



Applications

- Charging filter press
- High head requirements
- Pumping high viscous fluids
- Pumping solids laden slurries



2:1 HIGH PRESSURE PUMP PERFORMANCE CURVES



Performance Data:

Performance curves are based on normal temperature (20°C), fresh water. The discharge volume and discharge head vary according to viscosity, specific gravity, etc. of the material to be transferred.

Note: 2:1 High Pressure pumps are considered simplex pumps which will increase pulsation during operation. Consult Yamada for proper pulsation dampener selection.

