

PUMP SPEED CONTROLLERS

AC MOTOR VECTOR DRIVES AND DC DRIVES

AC Vector Drives are for applications where accuracy is a must. They utilize encoder feedback to allow electric motor shaft speeds to go from full speed down to ZERO rpm and anything in between. Motors specifically designed for Vector Drives are designed to run continuously at very low speeds without damage to the motor. They also can deliver high torque at low speeds, making them ideal for positive displacement pumps that sometimes run at low speeds and are under constant pressure or pumping high viscosities. Their ability to "index" the motor shaft repeatedly also makes them useful for filling machines. DC Drives take in 115v or 230v single phase current and convert it to 90 vdc or 180 vdc in order to run a SCR DC motor. These economical speed controls also deliver constant motor torque at 20:1 rpm turndown. Both AC Vector Drives and DC Drives are for use for positive displacement pumps. These drives can be added to pumps on the preceding pages to make a nice pump package!



Pump With Controller

BALDOR



VS1GV Vector speed controllers

BALDOR VS1GV VECTOR SPEED CONTROLLER

- Fully loaded programmable vector drive with feedback
- Can operate under closed loop vector, sensorless vector or as standard VFD
- Motor Power range - 1 to 250 hp
- Input Voltage range - 115/230 vac, 1ph and 230, 460 or 575 vac, 3ph, 50 or 60 hz
- Output Voltage - 115/230 vac, 1ph and 230, 460 or 575 vac, 3ph
- Speed range - 1000:1
- Operator Interface - various analog or digital inputs
- Signal outputs - various analog or digital outputs
- LCD graphical display
- Enclosures available - NEMA 1 or NEMA 4X

BALDOR



DC3 series

BALDOR - DC3 SERIES

- Lowest cost DC controller
- Available as regenerative (braking) or non-regenerative
- Features - stop/start, forward/reverse, ramp-up/ramp-down
- Motor Power range - 1/8 to 2 hp
- Input Voltage range - 115/230 vac, 1ph
- Output Voltage - 90 or 180 vdc
- Speed range - 60:1
- Operator Interface - Local analog control
- Enclosures available - Chassis mount, NEMA 1, NEMA 4X or NEMA 12

LEESON



SCR Series

LEESON - SCR SERIES

- Available as standard thyristor control, regenerative (braking) or PWM
- Features - stop/start, forward/reverse, ramp-up/ramp-down
- Motor Power range - 1/8 to 2 hp
- Input Voltage range - 115/230 vac, 1ph
- Output Voltage - 90 or 180 vdc
- Speed range - 40:1
- Operator Interface - Local analog control
- Enclosures available - Chassis mount, NEMA 1, NEMA 4 or NEMA 4X

Many other AC and DC motor controllers including low voltage 12,24 or 36 vdc versions available upon request