#define valvePin 9

void setup() {
  // put your setup code here, to run once:
  pinMode(valvePin, OUTPUT);

}

void loop() {

  // put your main code here, to run repeatedly:
  analogWrite(valvePin, 170);
  delay(15);

}

transistor

B C E

microcontroller Arduino

proportional valve

air in

air out

diode

24V +

resistor

24V -