

<https://www.mcmaster.com/>

(1) Compact Compressed Air Regulator Relieving with Gauge, Zinc Housing, 1/4 NPT Female

Mcmaster # 9892K12 @ \$33.09

-This is a small step-down regulator. We order the 0-10 PSI model for careful control. Be sure to specify the pressure range you want when ordering.

(1) Mounting Bracket for 1/8 and 1/4 NPT Regulator

Mcmaster # 9891K66 @ \$5.84

(1) Air Directional Control Valve Single Solenoid, 1/4 NPT, 0.12 Cv, 24V DC

Mcmaster # 61975K412 @ \$30.09

-This solenoid is nice because it's very small and when de-energized, vents all pressure from the blowpipe/blowhose immediately. You can but this in other control voltages in case you don't want a 24 VDC system.

(1) DIN-Rail Power Supply Single Phase, 24V DC, 1.25A

Mcmaster # 3718N116 @ \$30.75

-We are running the system at 24 VDC for safety. This will clip into a piece of DIN rail and must be carefully positioned in the small control box specified below. It must sit in the middle of the box between the on/off switch and the clasp of the cover.

(1) Indoor Enclosure with Hinged Cover and Knockouts, 6" x 6" x 4"

Mcmaster # 75065K52 @ \$19.09

(1 meter) Steel DIN 3 Rail, 7.5mm Deep, 1m Long

Mcmaster # 8961K15 @ \$5.27 – 1 meter length

-A small piece of this allows the DIN rail mounted transformer and fuse holder to snap into place

(1) Power Cord NEMA 5-15 Plug, 9-1/2 Feet Long, 0.25" OD, SVT

Mcmaster # 70355K81 @ \$5.40

-Runs from the control box to the wall outlet

(1) Brass Barbed Hose Fitting for Air and Water, Straight Adapter for 1/4" Hose ID, 1/4 NPTF Male

Mcmaster # 5346K14 @ \$13.17 / pack of 10

-We use this to connect from the solenoid to the blowpipe adapter. We will be replacing it with a male and female quick connect pair so we can swap out different blowhose options quickly

(10') Super-Soft Latex Rubber Tubing for Air and Water, 3/16" ID, 5/16" OD, BLACK OR AMBER

McMaster # 5234K42 @ \$1.23 / ft. - ONLY available at 10' or 25' lengths

(2') Super-Soft Latex Rubber Tubing for Air and Water, 1/2" ID, 3/4" OD, BLACK OR AMBER

McMaster # 5234K55 @ \$3.79 / ft. – 2 foot length

(2') Abrasion-Resistant Gum Rubber Tubing for Air and Water, Soft, 3/16" ID, 9/16" OD, Opaque Beige

McMaster # 5543K42 @ \$4.29 / ft. – 2 foot length

(1) Glass-Tube Fuses - Fast-Acting, Manufacturer Equiv: 235, GGM and GMA, 1AMP

McMaster # 6978K712 @ \$6.19 / pack of 10

-This is a 1 amp fuse for the fuse holders from Automation Direct.

(10') Cable, SJOOW, Black Outer Insulation, 18 Gauge, 3 Wires

McMaster # 7422K21 @ \$0.72 / ft. - Only Available in 10' and 25' lengths

-This runs from the control box to the pedal, and will also run from the solenoid to the control box

(1 or more) Set Screw Shaft Collar for 5/8" Diameter, Zinc-Plated 1215 Carbon Steel

McMaster # 6432K18 @ \$1.82 - BUY TO FIT your blowpipe shaft diameter if using magnetic system

(12) Neodymium Magnet, Magnetized Through Thickness, 3/8" Thick, 1/8" OD

McMaster # 5862K122 @ \$30.86 - Used for Magnetic Blowpipe Adapter

(1) Foot Switch with Iron Housing, 3A @ 28V DC Switching Current

McMaster# 7024K11 @ \$44.00

-The part number is for the single pedal option.

(3) Cord Grip, Aluminum, for 0.25"-0.31" Cord OD, 1/2 Knockout Size

McMaster #7529K302 @ \$9.50

(1) High-Temperature Expandable Fiberglass Sleeving 1/4" ID

McMaster # 8994T11 @ \$8.23 / 10 feet

-This is a protective cover for the foot pedal cord in case of hot glass contact

2 Pedal System Additional Parts:

(1) Additional foot pedal

(1) Additional length of wire

(1) Additional length of high-temp sleeving

(1) Additional regulator and bracket

(1) Additional solenoid

(1) Plastic Barbed Tube Fitting for Air and Water, Tee Connector, for 1/4" Tube ID

McMaster # 5372K613 @ \$7.99/bag of 10

-This is what we bought because we were doing several systems. anything similar will work fine to rejoin the tubing from the 2 solenoids.

(1) Nylon Plastic Check Valve with Barbed Fittings for 1/4" Tube ID, with Spring-Loaded Ball

McMaster # 6079T56 @ \$4.37ea

-Attach this to the "hard blow" line after the solenoid. This allows the "soft blow" side not to vent out the solenoid vent port when pressures are low. When pressure is high, you lose a little air through the "soft blow" solenoid vent port but is un-noticeable because of the higher pressures.

<https://www.waleapparatus.com/>

(1) Brass Swivel, Angle – 1/4"Wale Apparatus # 16-1136 @ \$22.50

<https://www.automationdirect.com/adc/home/home>

(1) Screw terminal fuse block, DIN mount, Pack of 10 –

Automation Direct # KN-F10L110AC-10 @ \$23.00

-There are other alternatives, any fuse holder will do. We are fusing at 1 amp on the incoming 120 volt line.

(1) 22mm Selector switch, illuminated green LED 120VAC

Automation Direct # GCX3252-120L @ \$19.00

-This switch is wired to illuminate when turned "on", but dark when "off".