

Parts and Products

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Gas Regulators

If the customer does not know what they need or, you need to start from scratch, you can ask the below questions to get on the right track to get what they require.

1. What Type of Gas? (Natural or Propane)?
2. What is Inlet Pressure? (Min and Max if it varies)
3. What is Outlet Pressure? (set point and or range)
4. What is Connected Load? (in BTU or CuFt)
5. Is Regulator Located Inside or Outside?
6. If Inside, do you want it "ventless"?
7. What is Line Size? water
8. Is Connected Load a Single Appliance or Multiple & are any high efficiency?
9. If Inlet Pressure is above 2 PSIG do you need an overpressure protection device (OPD)?
In door or out door?

Regulators come in all shapes and sizes.





New Burner or replacement

When quoting a new burner, you will need to know if they are planning on replacing an existing one or if its for a new build.

Replacing the burner:

If they are replacing one, you will want to start by getting the make, model, and BOM of that burner. Then find out what they want to change. You can also use the below questioner to find out more of what their plans are.

New burner:

If they plan on purchasing a new burner, you will need to find out as much as you can about the application and what it will be used for. The below will also help with that.

Questions for customer to answer

- What is the maximum BTU/HR input required from the burner. ____ BTU/HR.
- What is the minimum BTU/HR required from the burner. ____ BTU/HR.
- What is the gas pressure at the inlet to the burner fuel train?
- What is the static pressure in the combustion chamber that the burner will be firing into? ____ "WC, ____ positive pressure or ____ negative pressure.
- What the shape and the dimensions of the combustion chamber that the burner will be firing into? ____ Round ____, square __ x __ x ____, Rectangle.
- Is there any emission limitations on NOx or CO? yes ____ No ____
 - o If yes, what is the permitted limit for NOx ____ PPM corrected to 3% O2.
 - o If Yes, what is the permitted limit for CO ____ PPM corrected to 3% O2.
- What is the area classification where the burner will be installed.
- What is the site elevation above sea level? ____ FT. EASL
- What is the temperature range at the burner site, minimum __ Fahrenheit, maximum ____ Fahrenheit
- Will the burner ever operate longer than 24 hours without shutting down?
- What voltage is the available three phase power for the combustion blower.
- Is there 120V 1 PH 60 Hz control power available for the combustion controls.

Thermocouples specs

How to find Thermocouple specs (from scratch)

When looking for a thermocouple, you need to verify some specs before you will know what kind they are looking for.

The below questions help to find what is required:

Head material: Cast aluminum, Cast Iron,

Dimensions: Shaft diameter, Length, threading Diameter

Probe Length:

Type: J,K,S or RTD (heat range)

Wires 1: Is there a head?

Wires 2: How many wires? How long? Grounded?

Probe Material: Stainless steel, Coper,?

Media: Oil, Water,?

****Probe Only****

Type: J,K,S or RTD (heat range)

Probe Length:

Probe Material: Stainless steel, Coper,?.

Wire coat Material: Fiberglass?

How long is the lead wire:

Media: Oil, Water,?

Gas Valve Specs

When you are looking for a gas valve from scratch, you will need to have the below info before you can find a quote.

1. Coil voltage, AC or DC?
 2. Pipe size?
 3. Operating Pressure?
 4. Media? Natural gas, Propane...
 5. Always Open or Closed?
 6. In door or out door?
- 2, 3 or 4 way?

Valve Actuators Specs from scratch

When you are looking for a valve/actuator from scratch, you will need to have the below info before you can find a quote.

1. Media?
2. Line size?
3. 2-way, 3-way, 4-way?
 - a. 3-way = Normally open, closed or Universal?
 - b. 4 way = 1 or 2-position?
 - i. Single or dual solenoid?
4. Normally Open or Closed?
5. What inlet\Outlet Pressure?
6. Indoor or outdoor?
7. Voltage?
AC or DC?

ControlLinks Replacement | CLR

ControlLinks by Honeywell is obsolete and they offer no support for it at all. We have an out-of-the-box solution called ControlLinks Replacement AKA CLR

If the customer has a ControlLinks system that they would like to replace, you will have to know how many actuators they have to properly quote a new CLR system.

Question 1:

- How many actuators are currently on your existing Controllinks system?
 - Their options are 2, 3, or 4 actuators. This is to determine which version of the CLR they will require

Question 2:

- Do you have room in your existing panel for the retrofit CLR?
 - Needed space: 21"W x 16-15/16"H x 6-3/4"D for back panel to mount inside their cabinet.
 - 13-3/4"W x 12-1/4"H on the panel door to mount HMI.

Question 3:

- What is the model number of your existing flame safeguard?
 - We will have crossover wiring diagrams for the most common FSG, RM7800, Burnerlogix

etc.

§ If they have an older obsolete flame safeguard, we will need to add additional time to create that diagram.

Note- You will still quote without this (crossover) information

Make sure to:

Get images of the system they have along with the brackets and/or mounting of their actuators.

We have brackets but they are not a "one size fits all" thing so, we will need to know this before hand.

Transmitters specs from scratch

When looking for a transmitters, you need to verify some specs before you will know what kind they are looking for.

What is application? Media?

Whats the ranged of operation?

What is the accuracy needed?

Factory calibration needed (not ranged).

Calibration will make sure that the accuracy is correct and customer gets printed proof of that

Tagging?

Need to fail on high or low? Can change it in the field