

STC Valve Newsletter

STC is Makin' Waves

While one may assume that with the long summer days and the warm weather in these recent months would set us all on lazy days of rest and slumber, nothing could be further from the truth! We at STC are still hard at work and haven't taken vacation from ensuring that you keep receiving the same great service, pricing, and products that you have come to expect from us. Know that while our competitors might be on summer vacation mode, STC is still makin' waves with our continual strive for growth and betterment! But, as it is summer—we still want to keep it light and add some fun!

Do you happen to know of any good valve jokes? If so, we'd love to hear them! Send us an email and let us know what jokes have been tickling your funny bone! A while ago we asked our customers what would be a great punch line to the question below, and here were some of their responses:

Q: What did the normally closed valve say to the normally open valve?

A1: Keep your mouth shut!

A2: Was that you who passed gas?

Have any ideas of what the normally closed valve could or should have said? [Let us know!](#)

The STC Advantage

Here at STC we pride ourselves at the many advantages we and our products can offer our customers. We hope not to only convince you through our words but by our proven history of the advantages listed below and much more! This month we will be focusing on our **Large Selection & Inventory** advantage which you can read about on page 2!

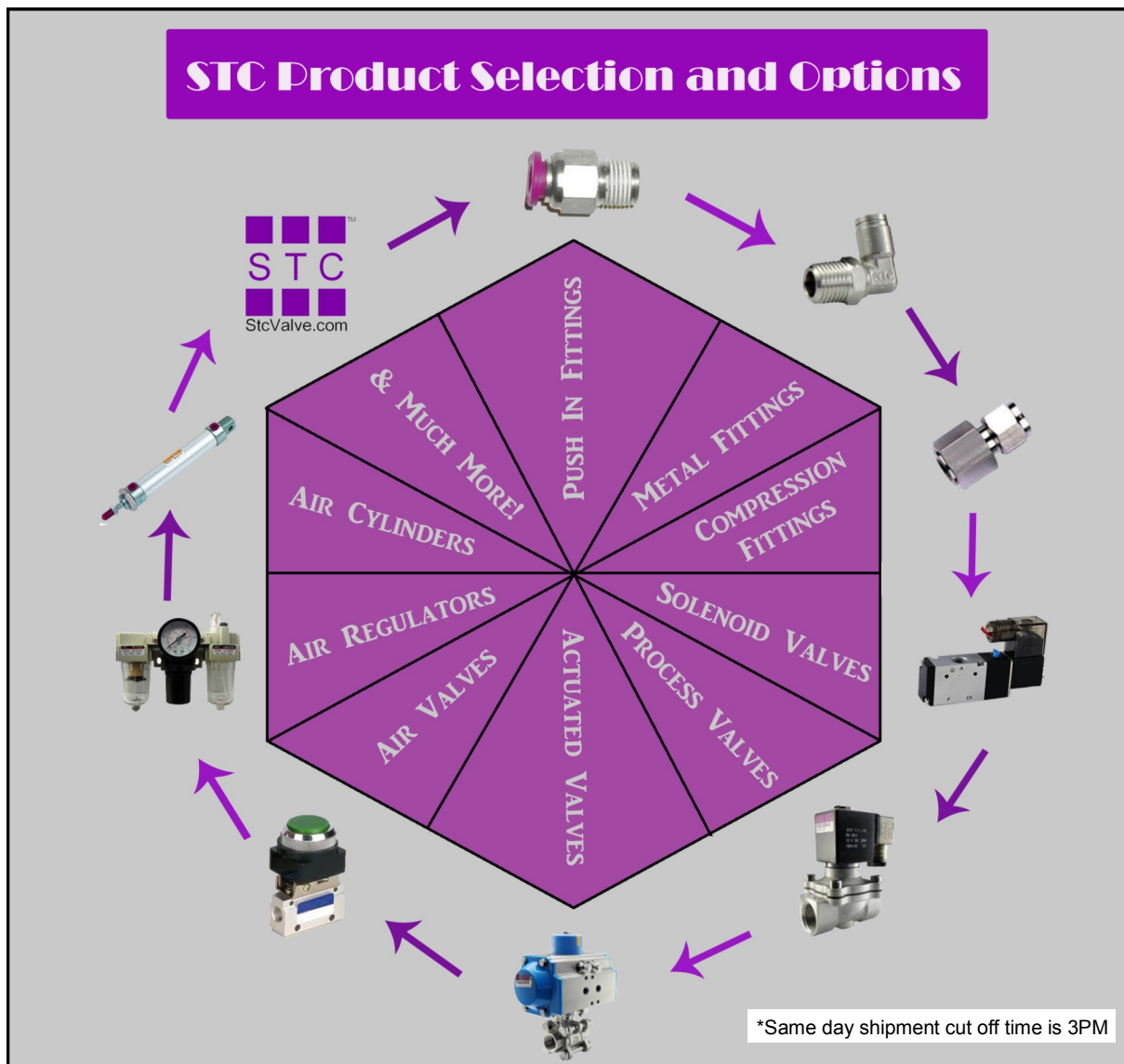
Have any feedback on this month's advantage or any of the others? Or maybe you've thought of an advantage we don't have listed? Let us know! We'd love to hear your story or feedback!

- Fine Quality, Excellent Price & Service
- Live Customer Service & Technical Support
- **Large Selection & Inventory**
- Same Day Shipping (99%)
- Technical Product Information Availability
- Custom Part Availability

STC Advantage: Large Selection & Inventory

With STC, you don't need to have an extensive stock of products on-hand in your own warehouse. Our own extensive inventory in our warehouse in California allows us to provide just-in-time delivery of nearly all of our products, in order for you to **stock only what you need** on a regular day to day basis. Our hope is to eliminate the need for you to keep costly and space-consuming inventories of STC products and to fulfill all your inventory restocking needs from our own well stocked warehouse! In fact, 95% of our products are in stock at all times and can be shipped same day, ensuring that you have the latest and greatest that STC has to offer at your fingertips.

Below you can view just how many types of items we have, and remember... 95% of them are **in stock**! So give us a call and give it a try, ask if "we have ____ in stock?" Most likely our answer will be "Yes we do and we can ship today!"





FAQ: Product & Equipment Questions

Our mission at STC is not only to provide our customers with the best customer and technical service as possible, but to also empower you to troubleshoot and work through any issues that may come up while using our products. In this issue of the STC newsletter, we are featuring the product and equipment portion of the FAQ. You can find the complete FAQ on our StcValve.com website [here!](#)

Are STC solenoid valves suitable for vacuum use?

☐ Yes. All of our direct acting and direct lift process valves are suitable for vacuum use. Note that we have an extensive line of *stainless steel valves* in this usage category for you to choose from!

Can I get STC valves that are suitable for seawater?

☐ Yes. However, the amount of salt, oxygen concentration, and temperature of sea water varies greatly which will affect the corrosiveness of the water. Sea water is naturally corrosive and should not be used with brass valve bodies. Stainless steel or aluminum is a good choice for the valve body, although both will be affected by the corrosive nature of seawater over time. An isolated valve, such as the STC 2T Series, would be the best choice because the sea water does not come into contact with the armature.

Can I use STC solenoid valves with chlorine?

☐ Because of the extremely corrosive nature of chlorine, we recommend using a plastic valve for chlorine applications. The 2T Series valve is compatible with chlorine, although for most applications we would recommend using PVC.

Can I use STC solenoid valves for steam applications?

☐ Yes, the 2L, 2LS and 2MS series valves are compatible with steam at temperatures up to 180°C. We also offer several valves with an optional Viton seal that allows for use with lower temperature steam (up to 120°C).

Can STC solenoid valves operate by themselves, or do I need to buy additional equipment?

☐ All solenoid valves require electrical coils to function. Unless specified, STC solenoid valves are shipped with the appropriate coils installed. We offer many different coil options (12VDC, 24VDC, 24VAC, 110VAC, 220VAC) to meet specific application needs. Special explosion proof coils can also be provided (at additional cost) for several of our solenoid valve models.

- ☐ Other recommended additional equipment may include:
- o Wiring cable to connect the coil to a power source.
 - o Check valve if the solenoid will experience back pressure.

Can STC supply a solenoid valve with the coil mounted?

☐ Unless otherwise noted, all STC solenoid valves come fully assembled with the specified coil.

Can I use the EPDM seal material for air?

☐ Yes, if you can assure that the air is free of oil and grease. Most air compressors are lubricated with grease, which will mix with the compressed air and damage the EPDM seal. In this case, STC recommends using an NBR or Viton seal.



FAQ: Product & Equipment Questions cont.

Does STC offer a timer for solenoid valves?

- ☐ Yes. STC offers several timers for different applications:
 - o The 2W200C-T is designed to be used with air compressors. It can be programmed for an ON duration of 0.5-10 seconds and an OFF duration of 0.5-45 minutes.
 - o The 2W200C-T-D can be used with the 2W200C & 2W350C coils and can be programmed for an ON duration of 0.5-10 seconds and an OFF duration of 0.5-45 minutes.
 - o The 2W200C-T-(DH or DL) can be programmed for an ON duration of 1 second-99hours and an OFF duration of 1 second-99 hours.

Do you have solenoid valves for air compressors?

- ☐ Yes. With the proper seal, you can use any of our solenoid valves for air applications as long as they meet the needed specifications.

Do you offer steam valves?

- ☐ Yes, the 2L, 2LS and 2MS series valves are compatible with steam at temperatures up to 180°C. We also offer several valves with an optional Viton seal that allows for use with lower temperature steam (up to 120°C).

If I already have a coil, what STC valves can I use it with?

- ☐ We do not recommend using coils other than STC coils that are specifically rated for the particular valve that is being used. Some other coils may function with our valves, but we do not recommend nor do we guarantee the performance of STC valves with non-STC coils.
- ☐ If the coil you have is an STC coil, you can use it for any STC valve which is rated for that particular coil. Please see our catalogue or the individual product specifications on our website to ensure the proper compatibility between a coil and a valve.

If I am using a solenoid valve for steam applications, and I need a higher flow rate, what should I choose?

- ☐ Our 2KS & 2KD angle seat valves would be a good choice for this application. These valves have high operating temperatures and pressures and a high flow rate. You will need to make sure your system has 65-120 psi compressed air to control the 2KS or 2KD valve.

If my system has back pressure should I take any additional precautions?

- ☐ If your system has back pressure, we would advise that you install a check valve on the output side of the valve to ensure you will not have any problems. We do offer bi-directional valves, but the majority of STC valves are uni-directional and would require the installation of a check valve.

I need a solenoid valve for a machine for use in North America, do you have any?

- ☐ Yes. We have many valves with NPT connections and coils listed by both UL and CE.

I would like to install a valve in a closed system with Argon gas, which valve should I use?

- ☐ Depending on the flow and differential characteristics of the system, many STC valves will work for this application. Please consult the chemical compatibility chart on our website (under the Download section) to choose the proper seal.



FAQ: Product & Equipment Questions cont.

What do I need to know to select the right product?

☐ The following information covers the basics of selecting the right product:

- o Application
- o Pressure
- o Temperature
- o Medium
- o Power source/connection

What type of seal material is appropriate for certain types of chemicals?

- ☐ STC offers a chemical reliability chart that can be found under the [Download](#) section of the website.
- ☐ Be sure to check the chemical compatibility of every wetted surface in the valve to ensure proper function of the valve.

Where can I find your data sheets?

- ☐ Our data sheets are located on our website under each particular product. Installation instructions are also located under the [Download](#) section of our website.

Which coil should I choose to get a Normally Open (NO) or Normally Closed (NC) valve?

- ☐ Whether a valve is NO or NC does not depend on the coil. The configuration is determined solely by the valve, and the correct coil will be included with your choice of valve.

Which media are STC solenoid valves suited for?

- ☐ STC manufactures valves with several combinations of body materials and seal types to suit most media. Please refer to our catalogue or the individual product specifications on our website to ensure the particular valve you are interested in is appropriate for the media you will be using it for.
- o STC produces valves which can be used for a range of media including air, gas, liquid, steam, water, and in very particular cases corrosive fluids.

Which solenoid valve should I choose if I am not sure about the differential pressure of the application?

- ☐ If you are not sure about the differential pressure of your particular application, you should choose either a direct acting or a direct lift diaphragm valve, since both of these valves can operate with a differential pressure of 0.

Which valves should I choose for an aggressive or corrosive fluid?

- ☐ The 2T series valve is a Teflon isolated diaphragm valve with a Viton seal that is appropriate for many aggressive or corrosive fluids. Depending on the fluid, several STC stainless steel valves may be appropriate as well.
- ☐ Please refer to the [Chemical Compatibility chart](#) on our website (under the [Downloads](#) section) to ensure that the valve material and seal material are compatible with the particular fluid you are interested in using.

Customer Survey/Feedback

As we continue to grow and evolve as a company, we want to reach out to you as one of our valued customers to make sure we are serving you as best we can. Our goal is to meet or exceed your expectations for high quality products and support, and your feedback & intimate knowledge of how our products are working in the field is an invaluable part of achieving that.

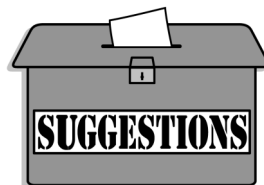
We know you are busy (because we are too), but if you could spare a few moments to provide us with a bit of feedback, we'd greatly appreciate it. There are a few helpful questions that will help us provide you with even better service in the future. Feel free to answer or comment in any way you'd like.

If there is a more appropriate email contact, or if you would prefer a phone call, please let us know and we will adjust accordingly. Thanks in advance!

Survey:

As part of our goal, we'd like to find out how our products are working for you.

1. How do you use our products? (Feel free to send us pictures, videos, or YouTube links and let us know if you'd like to be featured in our newsletter!)
2. Have you run into any recurring issues with any of our products?
3. Are there any specific areas of improvement we should address?
4. Do you have any specific applications for which STC does not currently have a product? (i.e. are there any new products you would like to see from us?)



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STC is headquartered in Silicon Valley, USA, and has ISO certified design and manufacturing facilities and an extensive network of quality partners and suppliers in China. With the design technology, engineering and quality management from the USA, coupled with advanced manufacturing technology and efficiency from China, STC is well positioned to deliver products with advanced design, precision engineered, and fine quality at excellent prices. STC is equipped to provide custom made products with the most stringent requirements in quality, pricing, support and service.



connects *fluid* power to industrial automation™