

VARIATIONS & SPECIALS

Most of the time, you can find what you need and what you want in a standard catalog. Most of the time you can even get these items at a short delivery time and within your budget.

What do you do when it is NOT in the CATALOG?

What do you do when you NEED decent DELIVERY?

What do you do when you DO NOT KNOW what to do?

CONTACT US! 214-357-3851 or info@aaaproducts.com

A catalog can only be so big and detailed. If we put all of our products and knowledge in this catalog, you would have already set it down.

Our goal is to show you the standards and hope you will call us if you don't see it here.

We specialize in rugged designs, rapid prototypes, harsh environments, internal standardization for custom applications and great service.

SPECIAL VARIATIONS AND MODIFICATIONS

AAA valves are versatile; they lend themselves to many possible modifications to suit special valving requirements. Most modifications are standard, but some modifications may require special tooling or assembly, so they are only available in production quantities. If you have a special requirement, consult the factory to see if one of the standard modifications, not involving special tooling, would be satisfactory. Contact us, you will be amazed at what we can do!

SPECIAL COATINGS AND PLATINGS

TUFRAM®:

A special surface process called TUFRAM® can be applied to all aluminum and aluminum alloy parts giving them enhanced surface properties. These properties include improved corrosion resistance, abrasion resistance, chemical resistance, moisture resistance, increased hardness, USDA-approved and FDA-approved. This process is ideal for AAA valves that are used in very harsh environments. For example, wash down areas in food processing plants that use caustic solutions for clean-up, off shore oil platforms that are subject to salt water spray, chemical processing plants or valves that must mount outdoors. Please contact us for more information on the use of TUFRAM® on your application.

Electroless Nickel Plate:

Some steel or steel alloy parts used in the construction of AAA valves can be nickel plated to enhance corrosion resistance, chemical resistance and moisture resistance. Contact us about your application and we will help determine if nickel plating would be cost effective and beneficial.

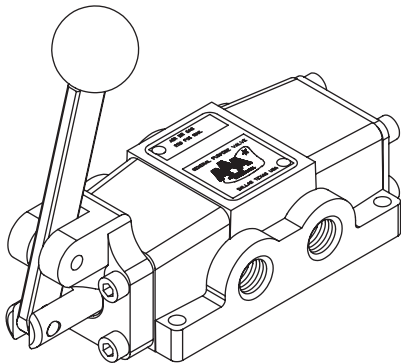
Stainless Steel:

Some parts used in the construction of AAA valves can be replaced with stainless steel to enhance corrosion resistance, chemical resistance and moisture resistance. Contact us about your application and we will help determine if this would be cost effective and beneficial.

EXAMPLES OF SPECIAL VALVES MANUFACTURED TO MEET OUR CUSTOMERS NEEDS

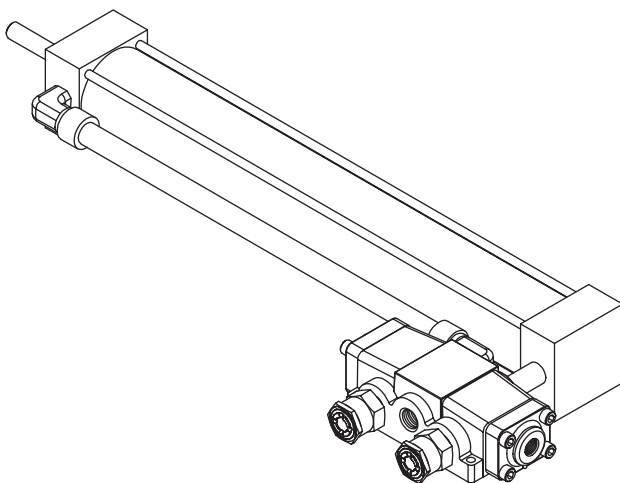
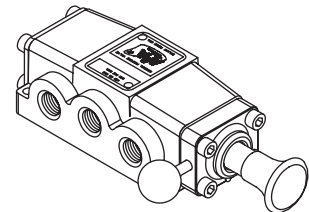


We have supplied valves in many applications where we have changed from a standard NPTF port to a SAE O-ring port. We have supplied valves with special O-rings, special solenoid override mechanisms, special solenoid coil voltages and coil leads. We have supplied more special valves than standard valves listed in this catalog. We have placed in our catalog the standard valve configurations in hopes that you will ask “Yes, but can you do-?” Consult the factory to find out.



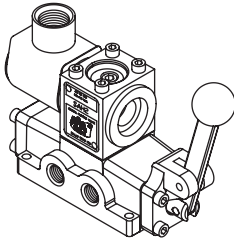
Example 1: Customer wanted a valve that was manual lever, 3 positions and would spring to center when the handle was released from position “A”, but would remain in position “C” when released from position “C”. We manufactured a special stud that allowed the spool to be detented in position “C” and used a spring to return to center when released in position “A”. This function is available on the 1/4”, 3/8”, 1/2”, 3/4”, 1”, 1-1/2” and 2” valve sizes.

Example 2: Customer wanted a palm valve with a smaller knob, 2 position, friction position and with a pin-lock in position “C”. This valve was also going to be used in a “Highway” application where the valve was going to be subjected to fine dust, rain and salt. We recommended the customer use a standard KO2E with a smaller knob and replace some internal parts that are steel to stainless steel. Also, we added internal wipers and plugs to reduce dust contamination and moisture seepage. Consult the factory or your distributor on special applications and especially where the valve must endure harsh conditions.



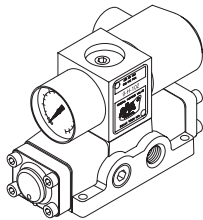
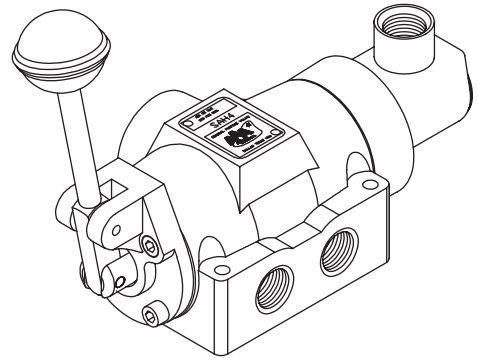
Example 3: Customer needed a solution that was compact and easily serviced with simple plumbing and mounting. We provided a cylinder valve combination that fit their application. This assembly is used in a saw mill for clamping lumber. It is a simple 2 position, spring return, pilot operated valve. When the valve receives a low pressure signal, the clamp is activated. The clamp is deactivated when the pilot signal is removed. We provide for them the entire assembly or just the valve, depending upon their needs at the time. The assembly can also use a solenoid valve when the signal needs to be electrical rather than low pressure air.

ADDITIONAL CUSTOMER VARIATIONS



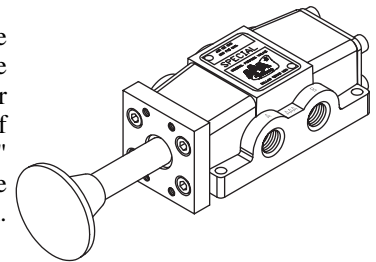
Example 4: Customer wanted the “Classic” solenoid operator, 2 position valve with a manual lever override. We provided a modified SO2 and added a lever to allow the customer to override the operation of the solenoid or to shift the valve without the solenoid. This handle override is available on certain models and sizes.

Example 5: A typical trucking application is called a “Belly Dump”. This is an application where the driver in the cab can initiate the opening of a bottom clam shell trailer by pushing a button. The operator can also regulate the opening manually by using a lever on the valve. This valve is a 2 position, spring return, solenoid operated valve with an alternate manual lever. This valve is rugged and reliable for trucking operations.



Example 6: In the designing and manufacturing of a rod threading machine, we needed to have a pressure gauge mounted in-line. We found the best solution was to mount it directly to the valve. If you have similar design problems, let us help you solve them.

Example 8: Customer was having a problem with both quality and delivery of a valve used in a machine they used through out their manufacturing facility. The original valve was an O.E.M (Original Equipment Manufacture) product and was designed to fit their machine. We overcame their quality and delivery problems with this almost standard, off the shelf valve. We designed and manufactured a mounting plate so a standard KO2 (1/4" palm actuated, spring return) with an extended palm knob valve would match the old valve mounting and operational envelope. They no longer have a quality nor a delivery problem. Plus, they don't need as many replacement valves on the shelf.



TRANSITION PLATES

Another area where we can help you is in the converting of one sub plate valve mount pattern to another. We have designed and built many transition plates to accommodate either outdated valves or when the customer was not pleased with the current valve manufacturer. Below are some examples of mounting patterns that we have accommodated. We can also custom design manifolds or group assemblies.

