



BULLETIN  
MPA-2016

**DELIVERING RELIABILITY UNDER PRESSURE**

# MOBILE APPLICATIONS

**Construction  
Emergency  
Transportation  
Specialty  
Military**

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# The Mobile Industry

## BROAD BASED STANDARD PRODUCT LINE

Founded in 1949, Versa Products Company manufactures high quality pneumatic and hydraulic directional control valves and components. Versa has built a reputation on a continued commitment to quality, backed by a broad breadth of products serving a multitude of markets worldwide.

Versa offers a variety of standard bodies, spools and actuators. Our aluminum, brass, and stainless steel valves can be configured in thousands of different ways to meet a multitude of valve applications. This concept, coupled with Versa's proven "bubble tight" sealing guarantee, offers the benefits of leak free and rugged pneumatic and hydraulic valves with a long, trouble free service life. Versa is dedicated to providing the highest standards in our customer service, ISO 9001:2008 operations, on premises R&D engineering labs with full testing capability, and 10 year warranty.



Asphalt Application Systems

Lube Systems

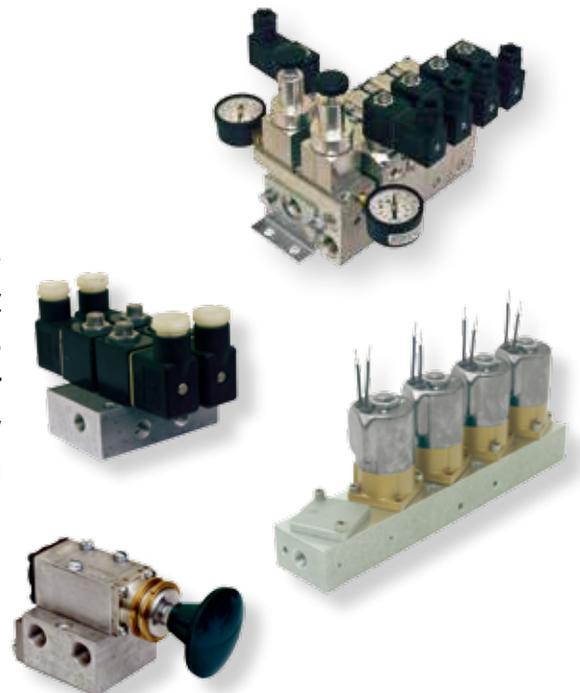
Traction Control

Trash Handling

## VERSA Custom Product Solutions

*If you haven't found the valve you need, you haven't asked us.*

Many of our customers requirements are met with our wide range of standard products. In many cases, however, it becomes necessary to design a valve system with features that are specific to a customer's unique application. Our custom engineering experts are equipped to manage any project that may require a special configuration of existing valves, a new manifold design or both.



## V SERIES

### HOPPER CONTROL VALVES for BOTTOM DUMP TRAILERS

Versa Products Company offers a wide range of valves and components for mobile applications. From our dust proof and weather resistant V-Series valves used as hopper control devices on bottom dump trailers to our low temperature C-Series, we can meet some of the most demanding requirements of the industry.

A necessity in mobile applications, and a basic feature of our valves, is “Bubble Tight” sealing. This sealing eliminates leakage and maintains the integrity of the vehicle's pneumatic system. It also eliminates the need to wait for auxiliary air to build up after idle times.

Through the use of materials, lubrication, seals and electrical operators, Versa can meet your valve requirements in extreme temperatures and environments with dust, dirt, snow or ice.



## V SERIES

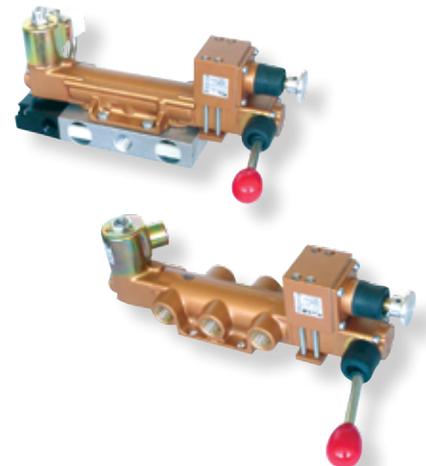
### HOPPER CONTROL VALVES for BOTTOM DUMP TRAILERS

A “Bubble Tight” valve that provides “creep free” hopper control.

The Versa “Bottom Dump” is a ½" NPT full flow valve that provides both 2-position solenoid and 3-position manual control in one valve. A pneumatic reservoir maintains air pressure to the valve in case of vehicle air system failure.

Return actuation has no mechanical spring, therefore the valve is shifted utilizing air pressure (air spring). The use of “solenoid-pilot” and “air spring” assure positive shift every time.

The valve can be manifold mounted or side ported and is sealed to prevent contamination from environmental sources.





# Emergency

## V SERIES

### BODY PORTED & SUBPLATE MOUNTED 3-WAY/4-WAY SOLENOID VALVES

Versa Series V valves are full flow port valves, available in 1/8", 1/4", 3/8", 1/2", 3/4" and 1" NPT port sizes.

Body configurations are 2, 3, 4 and 5-Way. Each is available as a 2-position or 3-position valve. Standard Size O ring seals provide leakfree/bubbletight sealing and ease of repair, if necessary. The V Series is a brass body valve with manual, pilot and electrical actuation.

May be used in hydraulic applications to 500 psi.

A variety of electrical connections, area classifications and power options are available for solenoid equipped valves.



Personnel Lift

Valve Control

Nozzle Control

Stop Sign Control

Safety Gate

## E FAMILY

### BODY PORTED 2 & 3-WAY DIRECT ACTING SOLENOID VALVES

Series E & EZ valves are direct solenoid actuated valves. The E Family is made up of several valve styles in aluminum and stainless steel materials. Ports are from 1/8" to 1/4" NPT in the valve body and are individually mounted.

### MANIFOLD MOUNTED 2 & 3-WAY DIRECT ACTING SOLENOID VALVES

Series E & EZ are direct actuated, 3 port/2 position, aluminum manifold mounted valves. Manifold Mounted valves can have 2 to 10 valve stations. The manifolds are provided with the threaded ports for pipe connections, which allows the valves to be easily and swiftly installed or removed without breaking any pipe connections.

A variety of electrical connections, area classifications and power options are available.



## C SERIES

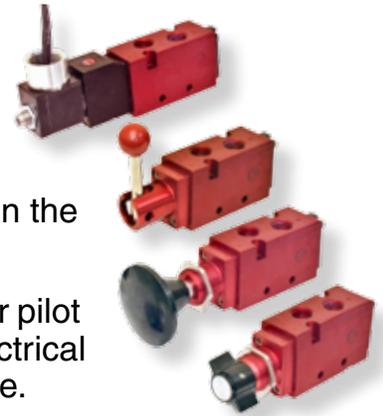
### BODY PORTED 4-WAY SOLENOID VALVES

Versa C5 1/8" C7 1/4" and C9 1/2" NPT valves are 5 port 2-position or 5 port 3-position "Bubble Tight" valves.

Double solenoid/pilot 5/2 models feature detented offset positions. Double solenoid/pilot 5/3 models feature a spring return to the un-actuated center position with all ports blocked or exhaust ports open in the center position or cylinder ports open to inlet.

The body ported valves are of a universal flow design, solenoid, manual or pilot operated and can be mounted individually or side by side. The basic electrical operated valve supplied with DIN style coil, but other options are available.

A variety of electrical connections, area classifications and power options are available for solenoid equipped valves.



Door control

Suspension & Kneeling Systems

Cooling System Control

## B SERIES

### BODY PORTED 2 & 3-WAY MANUAL VALVES

Series B valves are 1/8" NPT ported 2 and 3-Way manual or pilot operated brass valves.

The 2-Way is an on/off valve only.

The 3-Way is generally used to control a larger flow valve where it is advantages to use pneumatic rather than electric signal or to control a cylinder directly.

They can be configured with button, palm button, lever, roller cam, ball cam and pilot operated actuators. The button can be panel mounted.



## C SERIES

### 4-WAY MANIFOLD MOUNTED VALVES

The C-Series manifold mounted valves are two/three position (5/2 5/3) with C5 1/8", C7 1/4" and C9 1/2" NPT ports. The valves are mounted on a stacking style manifold and can be manual, pilot or electrically operated with a variety coil options, as well as a "plug-in" feature. An optional pre-wired sub D connector can support up to 12 valves on a manifold.



A variety of electrical connections, area classifications and power options are available for solenoid equipped valves.



**Trim Tabs**

**Trailer Applications**

**Suspension Controls**

**Storage Compartment Lift**

**Transmission Shifting**

## NAMUR SERIES

### 3 & 4-Way Solenoid Valves

The C5 is a high flow, 5-port, 3-Way/4-Way field convertible, NAMUR mount valve that may be ordered as either 4-Way (for double acting actuators) or 3-way (for spring return or fail safe actuators).

The E5 is 3-Way solenoid, direct-acting NAMUR mount, solenoid valve. It is designed to mount directly to any NAMUR, spring return or fail safe actuator.

A variety of electrical connections, area classifications and power options are available for solenoid equipped valves.



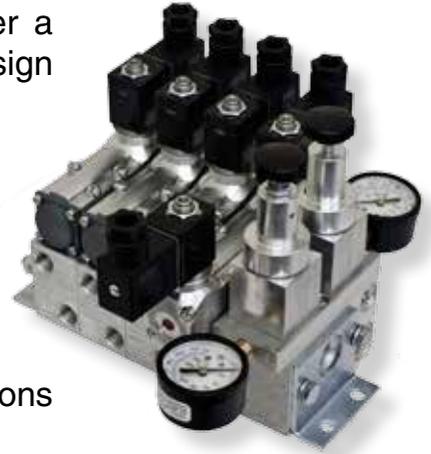
## K SERIES

### 4-WAY 2 AND 3-POSITION MANIFOLD MOUNTED VALVES

Series K Valves are compact air management systems. They offer a simple construction and easy maintenance through a compact design and stacking modular manifold.

There are two valve sizes  $\frac{1}{8}$ " (model K 4.7),  $\frac{1}{4}$ " (model K 6.5). These valves mount interchangeably on the Series K stacking modular manifold. Both valves require the same space, have the same mounting hole size and location, and utilize the same junction boxes. May be used in hydraulic applications to 150 psi.

A variety of electrical connections, area classifications and power options are available for solenoid equipped valves.



## VERSA Mobile Pneumatic/Hydraulic Applications

- Clam shell doors on bottom dump trailers
- Fuel flow on railroad engines
- Engine cooling on locomotives
- Suspension systems on motor homes
- Door safety on subway cars
- Door opening on school buses
- Safety gates on school buses
- Trash can lifting on refuse trucks
- Tailgate lock on dump trucks
- Asphalt spreading on asphalt trucks
- Body transfer systems on "Pup" trailers
- Railroad repair equipment
- Braking systems on aircraft re-fuelers
- Dump gates on grain trailers
- High pressure nozzles on fire engines
- Tire inflating on military vehicles
- Engine braking on AG sprayers
- Suspension systems on "Low Riders"
- Training wheels on motorcycles
- Light masts on emergency vehicles



Versa has been supplying the mobile industry with pneumatic components for over 65 years.

We have built a reputation for quality that is unsurpassed in the market for high performance solenoids, pneumatic relays, resets and pilot valves.



**WARNINGS REGARDING THE DESIGN APPLICATION, INSTALLATION AND SERVICE OF VERSA PRODUCTS**

The warnings below must be read and reviewed before designing a system utilizing, installing, servicing, or removing a Versa product. Improper use, installation or servicing of a Versa product could create a hazard to personnel and property.

**DESIGN APPLICATION WARNINGS**

Versa products are intended for use where compressed air or industrial hydraulic fluids are present. For use with media other than specified or for non-industrial applications or other applications not within published specifications, consult Versa.

Versa products are not inherently dangerous. They are only a component of a larger system. The system in which a Versa product is used must include adequate safeguards to prevent injury or damage in the event of system or product failure, whether this failure be of switches, regulators, cylinders, valves or any other system component. System designers must provide adequate warnings for each system in which a Versa product is utilized. These warnings, including those set forth herein, should be provided by the designer to those who will come in contact with the system.

Where questions exist regarding the applicability of a Versa product to a given use, inquiries should be addressed directly to the manufacturer. Confirmation should be obtained directly from the manufacturer regarding any questioned application prior to proceeding.

**INSTALLATION, OPERATION AND SERVICE WARNINGS**

Do not install or service any Versa product on a system or machine without first depressurizing the system and turning off any air, fluid, or electricity to the system or machine. All applicable electrical, mechanical, and safety codes, as well as applicable governmental regulations and laws must be complied with when installing or servicing a Versa product.

Versa products should only be installed or serviced by qualified, knowledgeable personnel who understand how these specific products are to be installed and operated. The individual must be familiar with the particular specifications, including specifications for temperature, pressure, lubrication, environment and filtration for the Versa product which is being installed or serviced. Specifications may be obtained upon request directly from Versa. If damages should occur to a Versa product, do not Operate the system containing the Versa product. Consult Versa for technical information.

**LIMITED WARRANTY DISCLAIMER AND LIMITATION OF REMEDIES**

Versa's Series products are warranted to be free from defective material and workmanship for a period of ten years from the date of manufacture, provided said products are used in accordance with Versa specifications. Versa's liability pursuant to that warranty is limited to the replacement of the Versa product proved to be defective provided the allegedly defective product is returned to Versa or its authorized distributor. Versa provides no other warranties, expressed or implied, except as stated above. There are no implied warranties of merchantability or fitness for a particular purpose. Versa's liability for breach of warranty as herein stated is the only and exclusive remedy and in no event shall Versa be responsible or liable for incidental or consequential damages.

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