

## C-316 Series Stainless Steel 3-Way and 4-Way Manual, Latching & Key Valves

The Versa C-316 Series stainless steel body-ported valve is a high flow, 3 or 5 port, solenoid valve. The seal design is that of Versa's proven elastomer packed plunger producing long life bubble-tight performance. This seal design also yields the highest flow available in the smallest package.

The C-316 Series utilizes stainless steel bodies, actuating caps and internal parts making this series of valves ideal for use in the most aggressive environments. Seals are FKM (fluorocarbon). Solenoid materials are a function of area classification rating. See options for details.

The C-316 Series is available as either a 4-way, for double acting devices or a 3-way, for spring return devices. The 3-way function can be specified as either normally closed or opened.

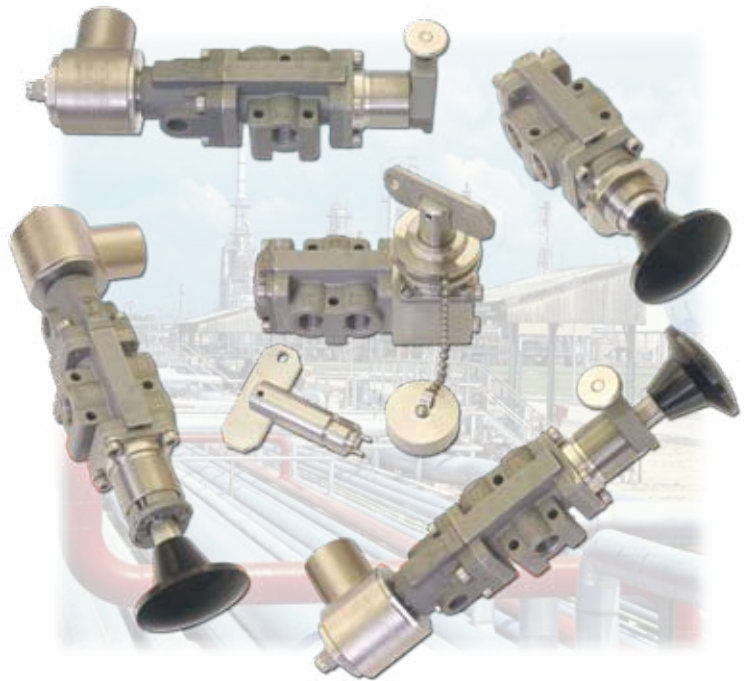
Manual actuators for the C-316 include, Palm Button, Latching Resets and the New Key actuator. Manual valves are available either spring return, pilot return, solenoid return or detented. Palm buttons are standard in black. Red or green buttons are available by adding a simple suffix option to the part number.

Solenoid return products are offered with a complete selection of electrical connections, power requirements and area classifications, makes Versa's C-316 the valve of choice for demanding applications. A manual override is available as an option.

Latching resets are manual valves that upon a loss of the control signal, pneumatic or electric the valve shifts closed and can only be re-actuated manually. An optional button can also be added as a manual override. For a pneumatic control system, Versa proven pilot actuator would be specified. For electric control signal, a solenoid option would be selected.

Key actuator valves are manual valves which require a coded key to actuate the valve. This allows an added level of control for a particular control system. The key allows a very distinct action to shift valve therefore no accidental actuation as may be the case with standard buttons. Two keys are supplied with each -314E valve as standard.

The C-316 Series of control valves offers more choices for the control engineer project in the smallest of packages.



**Flow Rate:** Cv = 2.0 (Kv = 29.3)  
**Port Size:** Inlet, cylinder and exhaust: 1/4" NPT  
**Media:** Pneumatic only Lubricator not required  
**Expilot Solenoid:** Consult Factory

**Pressure:**  
Spring, detent, key return 0 - 150 psi (0 to 10.3 bar)  
Solenoid in/pilot return 25 - 150 psi (1.8 to 10.3 bar)  
Pilot return (main body) 0 - 150 psi (0 to 10.3 bar)  
(pilot signal) 25 - 150 psi (1.8 to 10.3 bar)  
For application above 125 psi (8.6 bar), exhaust flow controls or mufflers are recommended.  
**Temperature:** -5 to 200° F (-20 to 93° C), Media and ambient

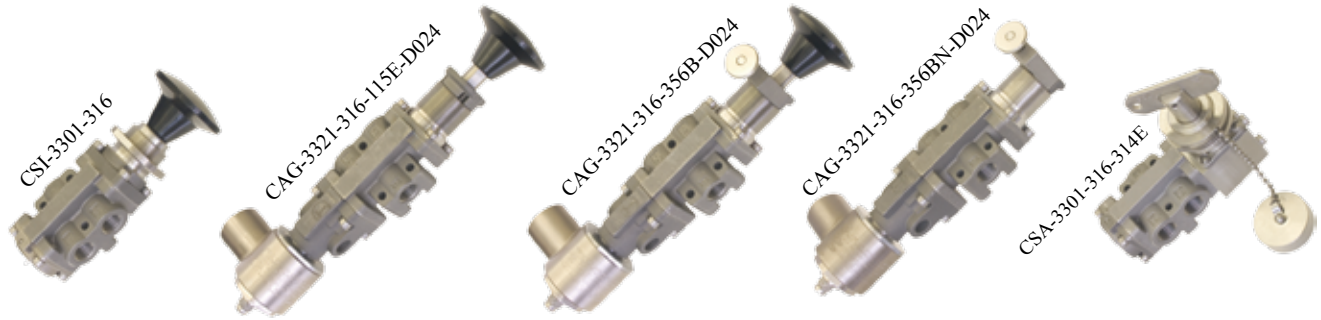
**Materials:**  
Valve body and internal parts: 316L stainless steel  
Actuator caps: 316L stainless steel  
Valve seals: FKM (fluorocarbon)  
Screws: Stainless steel  
Solenoid internal parts: 304, 430F and 302 stainless steel per solenoid option selected. See option section.  
Coil/solenoid housing

# C-316 Stainless Steel CSI Ordering Information

Basic Valve Number		Function			
Actuator Type	Return	3-Way, NC	3-Way, NO	4-Way	
<b>Palm Button</b>	Spring Return	CSI-3301-316	CIS-3302-316	CSI-4302-316	
	Detent	CZI-3301-316	CIZ-3302-316	CZI-4302-316	
	Pilot with Spring Return	CAP-3301-316-136PE	CPA-3302-316-136PE	CAP-4302-316-136PE	
	Pilot with Detent	CAI-3301-316-150E	CIA-3302-316-150E	CAI-4302-316-150E	
	Solenoid with Spring Return	CAG-3321-316-136PE+-Voltage	CGA-3322-316-136PE+-Voltage	CAG-4322-316-136PE+-Voltage	
	Solenoid with Detent	CAG-3321-316-115E+-Voltage	CGA-3322-316-115E+-Voltage	CAG-4322-316-115E+-Voltage	
<b>Latch Reset</b>	With palm Button	Pilot with Spring Return	CAP-3301-316-356B	CPA-3302-316-356B	CAP-4302-316-356B
		Solenoid with Spring Return	CAG-3321-316-356B+-Voltage	CGA-3322-316-356B+-Voltage	CAG-4322-316-356B+-Voltage
	With out palm Button	Pilot with Spring Return	CAP-3301-316-356BN	CPA-3302-316-356BN	CAP-4302-316-356BN
		Solenoid with Spring Return	CAG-3321-316-356BN+-Voltage	CGA-3322-316-356BN+-Voltage	CAG-4322-316-356BN+-Voltage
<b>Key Operator</b>	Spring Return	CSA-3301-314E	CAS-3302-314E	CSA-4302-314E	
	Detent	CZA-3301-316-314E	CAZ-3302-316-314E	CZA-4302-316-314E	
	Pilot with Detent	CAA-3301-316-150E-314E	CAA-3302-316-150E-314E	CAA-4302-316-150E-314E	

+ Indicates position for additional suffix details.

## Typical valves and part numbers



Electrical Options		Suffix Detail	Solenoid Housing Material	Voltages (Coil Codes) All options available in all voltages, except where noted. Consult factory for other voltages.	Nominal Coil Power AC/DC (watts)
<b>GENERAL</b>	<b>General Purpose</b>	None -PC -HC -HCC	Carbon Steel, Painted Carbon Steel, Chromate Coated Engineered polymer Engineered polymer		6.0/7.0 6.0/7.0 6.5/10.5 6.5/10.5
	<b>Explosion Proof</b>	-XX -LB-XX -PC-XX -ST-XX	Carbon Steel, Chromate Coated Carbon Steel, Chromate Coated Carbon Steel, Chromate Coated Stainless Steel	12VDC (D012) 24VDC (D024) 48VDC (D048)	5.6/7.2 1.8/1/8 5.6/7.2 5.6/7.2
	<b>Flameproof (d)</b>	-XN -LB-XN -PC-XN -ST-XN XDAS XDAT	Carbon Steel, Chromate Coated Carbon Steel, Chromate Coated Carbon Steel, Chromate Coated Stainless Steel Stainless Steel w/ Junction Box Stainless Steel w/ Junction Box	120V60 (A120) 110V50 (E110) 220V50 (E220) 240V60 (A240)	5.6/7.2 1.8/1/8 5.6/7.2 5.6/7.2 10.0/4.0 -10.0 10.0/4.0 -10.0
<b>HAZARDOUS LOCATIONS</b>	<b>Encapsulated (m), Increased Safety (e)†</b>	-XMAA -XMAF	Engineered polymer Engineered polymer		NA/4.0 NA/4.0
	<b>Intrinsically Safe (ia)**</b>	-XISC XISX† -XIFA† XIFF†	Engineered polymer Engineered polymer Engineered polymer Engineered polymer		NA/1.6 NA/1.6 NA/0.8 NA/0.8
	<b>Intrinsically Safe (i)††</b>				
<b>MANUAL OVERRIDE</b>	Manual override, un-guarded push and hold (not available with all solenoid operators.)	-ME	NA		
	Solenoid exhaust adapter ½" NPT For expilot consult factory	-H2	NA		

**Notes**  
\* For high temperature coil add , -HT (included in XMA\_, XIF\_)  
\*\* 24 Volt DC Only  
† Contact factory for other options in this series  
†† 115 psi maximum

While due care is exercised in preparing this document, Versa Products Company, Inc., shall not be liable for any inaccuracies or omissions. Specification subject to change without notice.

\* For warranty information and/or any additional information with regards to installation, operation and service warnings please consult factory