



Transitional Reliability Packages

If there is a field failure of a Versa valve, our Engineering Laboratory does an in depth analysis of the issue. Over the years, our team found that the majority of failures are due to ingress of debris and moisture. To combat these issues, Versa developed Transitional Reliability Packages: a selection of features and products designed to prepare our valves for the most demanding applications. Filtration, dust exclusion solenoid protection, valve body reliability, and power shift packages provide the levels of protection to match the application needs.

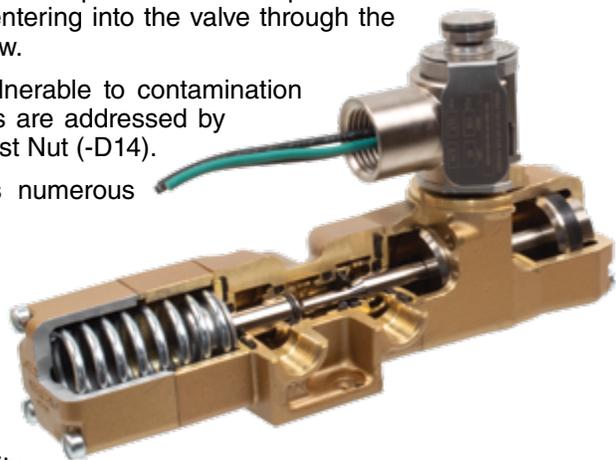
Filtration Dust Exclusion: The first line of protection is filtration to keep debris from entering your valves. Our AR-316 stainless steel filter/regulators are designed to stand up to the harshest environments while providing pressure regulation.

Dust Exclusion: The second line of defense is the valve exhaust. The simplest addition for protection is our Versa Dust Excluder (-DE). The dust excluder prevents dirt and moisture from entering into the valve through the exhaust ports and our flapper design allows for maximum exhaust flow.

Solenoid Protection Packages: The solenoid operator is also vulnerable to contamination through the exhaust vent and into the coil housing. These problems are addressed by using our moisture protected coil and a solenoid Exhaust Water & Dust Nut (-D14).

Valve Reliability Packages: Inside the valve body, Versa offers numerous upgrade options for application-specific requirements:

- Seal options for chemical compatibility or temperature ratings
- U-cup seals for reduced friction
- Internal plating
- Upgraded lubrication
- Stronger return springs
- -NGS, -NGST, -B894, -B895



Power Shift Package: The ultimate feature of our Transitional Reliability Packages is our Power Shift Package (PWR). The Powershift Package combines our strongest return force option with a special double piston to negate increases in minimum actuation pressure. This creates a robust solution to the build-up problem seen in rarely cycled valves. In any application which sees stiction, the Power Shift Package provides an interchangeable option with the power to blast through obstacles on its way to closure.

Ultimately, these Transitional Reliability Packages can be combined into an Optimized Power Shift Package that offers the best of Versa's ingress protection and reliability packages. A valve that is this well configured can be trusted in the world's most critical applications.

General Specifications V-Brass

Description:	¼-1" NPT Brass Solenoid valve
Function:	3 & 4-Way
Actuator:	Solenoid/Spring
Pressure:	Based on Option selected
Flow:	1.8 - 11.1 Cv
Temperature:	-40°F to 122°F (-40°C to 50°C) (-44 Suffix)
Ports:	¼ - 1" npt
Media:	Air, Inert Gas, Natural Gas & Hydraulic
Materials;	
Body:	Forged Brass
Actuators:	Brass
Seals:	Buna
Options:	
Low temp Buna:	Suffix -44

General Specifications V-316

Description:	¼-½" 316 Stainless Steel Solenoid valve
Function:	3 & 4-Way
Actuator:	Solenoid/Spring
Pressure:	Based on Option selected
Flow: Cv	1.8 - 5.5 Cv
Temperature:	-40°F to 149°F (-40°C to 65°C) (-44 Suffix)
Ports:	¼ - ½" npt
Media:	Air, Inert Gas, Natural Gas & Hydraulic
Materials;	
Body:	316 Stainless Steel
Actuators:	316 Stainless Steel
Seals:	FKM
Options:	
Low temp Buna:	Suffix -44





Real World Reliability Matrix

V SG - 3 5 2 1 - 316 - PWR - XXN4 - Voltage

V = V Series brass or stainless steel.

SG = Solenoid Spring Return
AA = RAK
SA = PWR

3 = Three-way
4 = Four-way

3 = 1/4" NPT Series V or V-316
4 = 3/8" NPT Series V or V-316
5 = 1/2" NPT Series V or V-316
6 = 3/4" NPT Series V or V-316
7 = 1" NPT Series V or V-316

2 = Threaded sideports Inpilot solenoid

1 = 3-Way NC
2 = 4-Way/2-Position

Add "316" for stainless steel valves. Leave blank for brass valves

Valve Reliability Packages

-NGS: -S, -10, -31, -55M, -155
-NGST: -S, -10, -31, -55M, -155, -44
-B894: -S, -10, -31, -55C, -155,
-B895: -10, -31, -55C, -155

Temperature

-44 Low Temp -40°F
-PLR Extreme Low Temp -67°F

Diagnostic

-20 Remote sensor port
-407 Spring cap proximity switch port

Power Shift

-PWR:
-SS Super strong spring
-DP Double pilot piston on solenoid actuator

Dust Proof

-DD Plunger, drilled end to end, (protective seals between body/caps)
-DG Plunger, drilled end to end

XXN4:

-XX Explosion-proof solenoid operator
-D14 Water & dust excluder / silencer Assembly
-LB 1.8 Watt
-PC NEMA 4X

Additional solenoid packages available; consult factory.