

# Introducing Venta, the next generation

## Venta VB-7000 Bronze Globe Valves

Tighter close-off for greater energy savings



Make the most of your Energy

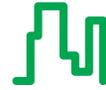
**Schneider**  
Electric

Only Venta gives  
you climate control  
you can trust



## Venta, a blend of reliability and innovation

Since its introduction in 1996, the VB-7000 Series has been and continues to be, the most popular bronze valve in its class. For more than a decade, the VB-7000 line has undergone a continuous series of enhancements that have helped the HVAC industry meet its most challenging application requirements. Once again, Schneider Electric has raised the bar on globe valve performance – this time with the next generation VB-7000 line called Venta. Designed to deliver greater control and energy savings even in the most demanding environments, the Venta series of globe valves gives you all the features and benefits you already know and expect – and a number of revolutionary new design enhancements simply unavailable before now.



Schneider Electric's comprehensive HVAC Control product portfolio is proven in thousands of installations worldwide. These powerful and reliable devices make building management systems operate more efficiently, save energy and provide optimal comfort for occupants.

### New innovations:

- Tighter close-off for greater energy savings
- Double the differential pressure rating to take on the most demanding applications
- 100:1 rangeability for higher performance, more precise temperature control
- RoHS compliance; one less thing to worry about

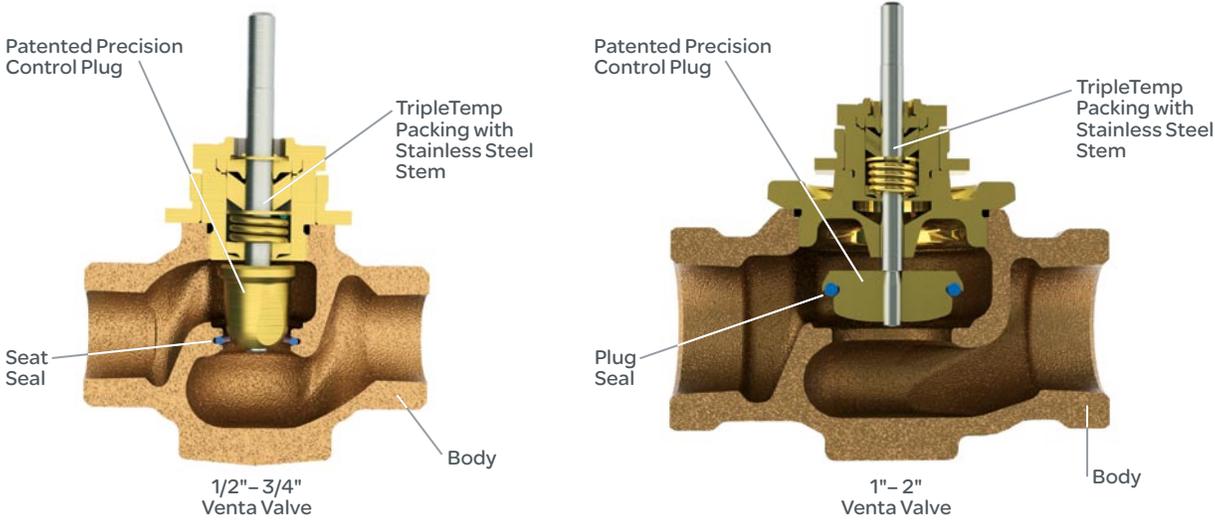
### Key performance characteristics:

- TripleTemp valve packing; fewer replacements regardless of application
- Pre-assembled replacement packing cartridges for fast and easy servicing
- Compact valve body design saves space and weight
- Stronger stem design than competitor units
- Trim options to meet a variety of applications
- 100% tested tough and under pressure

### Familiar features:

- Same part numbers
- Same Cv flow ratings
- Same external dimensions
- Same actuator mounting
- Same TripleTemp packing
- Same stroke distance eliminates actuator compatibility problems
- Same dependable plug/stem connection

# Innovations simply unavailable until now



### 100:1 Rangeability

Higher rangeability (the ratio between the maximum flow and lowest controllable flow) enables Venta valves, across the complete range of flows and sizes, to more precisely regulate flow at the lower ends of their throttling range, ultimately delivering greater temperature control and highly desirable energy savings. This higher rangeability results from a new patented precision control plug design. The benefits are particularly noticeable in the smaller size valves with low Cv's, where rangeability on competitive models can be as low as 5:1, and when valves are oversized.

### Double the differential pressure rating

The new 1/2" to 3/4" seat seal and 1" to 2" encapsulated plug seal designs have more than doubled Venta's operating differential pressure rating up to 87 psi. Now Venta is twice as tolerant of the high differential pressures commonly found in uncontrolled pumping systems and can take the wear and tear that can result when poor differential pressure control exists across the supply and return lines.

### Tighter close-off

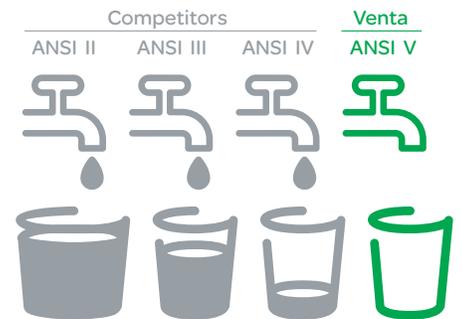
An ultra-tight seal design reduces seat leakage from typical ANSI IV (0.01%) to an amazing ANSI V (0.0005% ml per minute of water per inch of port diameter per psi differential). This rating applies to all two-way valves in the Venta family and on the three-way models (A port only) as well.



### ANSI V Rated

Ultra-tight seal design ANSI V rated: Overtime, the savings in wasted energy, particularly in hot water applications can be truly significant.

Ultra-tight seal design ANSI V + 100:1 Rangeability = Energy Efficiency



## Familiar VB-7000 features you know and love



Even though we are changing the name from VB-7000 to Venta, you can breathe easy knowing many of the features you have become familiar with as VB-7000 are included in the new Venta. You'll find it easy to order and retrofit to any new Venta valve. Why? Because Venta has the same part numbers, same external dimensions, same actuator mountings – even the same Cv flow ratings. What does this mean for you? Better performance with the same fit, resulting in fewer mistakes and far fewer call-backs to the jobsite.

### Same stroke distance

All ½" to 2" sized valves are designed with the same stroke distance, so the same actuator/linkage fits all valves. This makes actuator selection much easier with fewer mistakes in ordering parts and reducing inventory requirements to accommodate various stroke lengths.

### Same dependable plug/stem connection

Venta is designed for extreme reliability and made up to three times stronger than the competition by threading and riveting the plug to the stem. This ensures that the stem won't break inside the valve and come out of the packing, causing catastrophic failure.

### Same TripleTemp valve packing with stainless steel stem

If there's a weak link in most valve design it's in the valve packing or stem design. But like the VB-7000, the Venta valves are unique. They use the same heavy-duty TripleTemp valve packing and stainless steel stem to deliver superior wear resistance and extreme rigid alignment of the valve stem across the complete temperature range of the media.



## Versatile

The new Venta range uses all the same VB-7000 part numbers, Cv flow ratings, external dimensions and actuator mountings. You'll find it easy to order and retrofit any new Venta valve. Better performance with the same fit, resulting in far fewer callbacks to the jobsite.



## Sturdy

TripleTemp packing tests prove it! A study showed that 100 VB-7000 valves required 20 fewer packing replacements vs. competitive valves over a given time period, saving some \$2,400!

## Venta, a combination of high performance and European environmental compliance standards

With the new Venta series, you get greater reliability, longer life, increased energy savings and overall comfort improvement. Moreover, Venta gives you one less thing to worry about – the new low lead valve body and trim materials are not only more corrosion resistant, but are also in full compliance of the Restriction of Hazardous Substances Directive (RoHS).

### RoHS compliance

Why RoHS? Restriction of Hazardous Substances (RoHS), is often referred to as the lead-free directive, but also restricts the use of the following six substances: Lead, Mercury, Cadmium, Hexavalent Chromium, Polybrominated Biphenyls and Polybrominated Diphenyl Ether. Concerns about the environment have manufacturers and end users working hard to comply with all the latest standards for designs, materials and manufacturing. And for good reason – who wants harmful contaminants in the environment? By choosing Venta, you are at the forefront of these efforts.

### 100% tested tough, and under pressure

All Venta VB-7000 globe valve/actuator assemblies are inspected and water-tested to assure trouble-free performance. Ultimately, you can expect fewer call-backs, and longer, trouble-free performance, than with any other valve in its class.

### Trim options

No two applications are alike. That's why, with Venta, you get your choice of standard brass plug and seats, stainless steel seat with PTFE disc, or stainless steel seat and plug (metal to metal), to meet the widest range of applications.



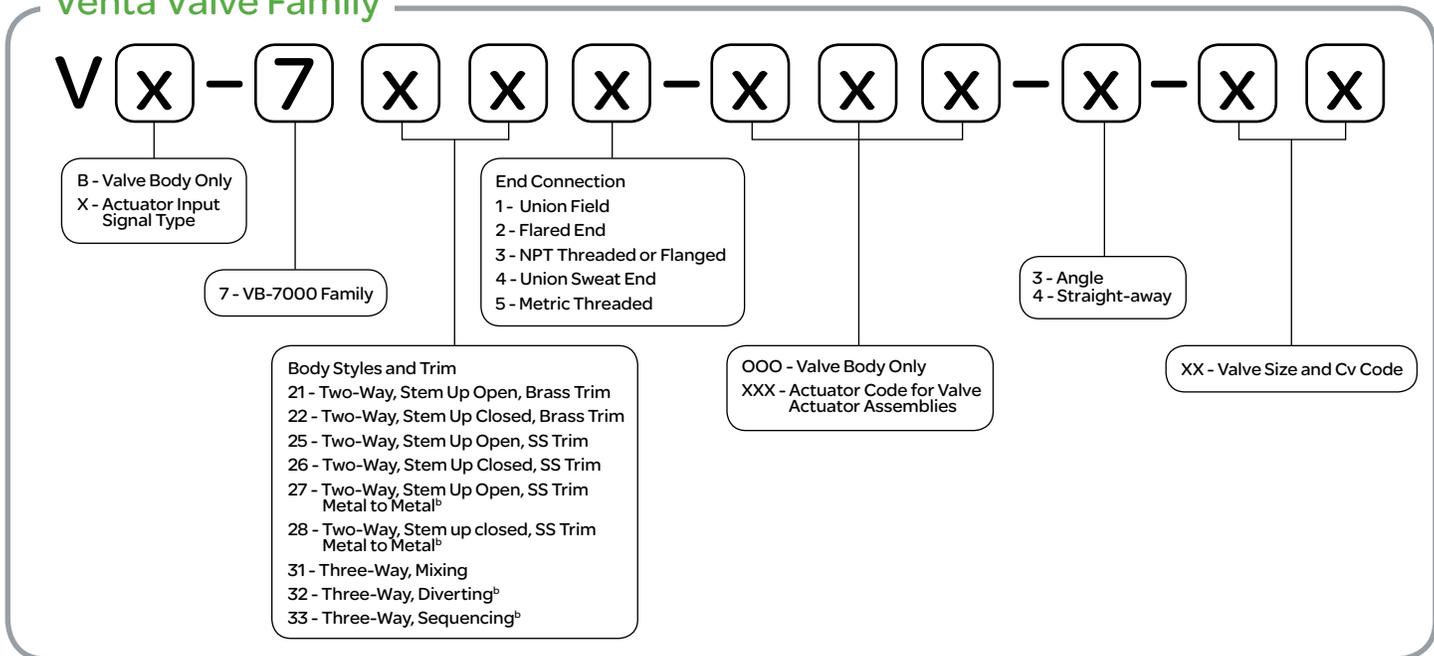
## Environmental

RoHS compliance helps reduce damage to people and the environment. The net result is a cleaner and greener place for everyone.

# Your choice for efficiency, ecology and economy

Of course, in the minds of many end users, the real tests for any globe valve are how easy they are to install – and how well they hold up in the most demanding environments. What do most installers say they like best about Venta? Nothing installs easier and once they are installed, we know we have years of worry-free installation.

## Venta Valve Family



## Two-Way Valves

End Connection	Family <sup>c</sup>	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Union Angle <sup>a,b</sup>	VB-7211-0-3	B	B	B	B		
Union NPT	VB-72x1-0-4	B	B	B	B		
45° SAE Flared <sup>b</sup>	VB-72x2	B					
NPT Threaded	VB-72x3	BSS	BSS	BSS	BSS	BSS	BSS
Union Sweat	VB-72x4	B	B	B	B	B	B
Metric Threaded	VB-72x5	BSS	BSS	BSS	BSS	BSS	BSS

## Three-Way Valves

End Connection	Family <sup>c</sup>	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
45° SAE Flare <sup>b</sup>	VB-73x2	MS					
NPT	VB-73x3	MD	MD	MD	MD	MD	MD
Union Sweat	VB-7314	M	M	M	M	M	M
Rp	VB-73x5	MD	MD	MD	MD	MD	MD

<sup>a</sup> Available Normally open only.  
<sup>b</sup> These units have different rangeability, differential pressure, and seat leakage ratings.  
<sup>c</sup> Complete valve part numbers include actuator code, valve size and Cv code.  
 B = Bronze trim  
 SS = Stainless Steel Trim

M = Mixing  
 D = Diverting  
 S = Sequencing

Note: Valve actuator assembly part numbers are available for the most popular combinations. Other valve and actuator combinations may require field assembly.

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