

All new and the latest offering from robart, the “VR” Valve promises to be the hottest selling product in air control technology. Although this latest offering from robart is red in color, the VR means “VARIABLE RATE”. That’s right! A variable rate, fully adjustable air control valve, with separate speed adjustments for both gear up and gear down. So what makes robart’s new valve different from the others? Glad you asked. First it’s the way the speed is controlled. This new valve from robart controls the exhaust air, not the pressurized air going into the cylinders like other popular valves. What difference does that make? All air cylinders have what is called a breakaway force, and all retract systems have frictional and spring forces to overcome to start the gear moving. Air is considered a compressible fluid (all gases are compressible), and when you restrict the air going to the cylinders, the pressure builds very slowly until enough pressure is built up to move the gear. When that point is reached the gear moves quickly and unevenly because the exhaust air on the other side of the cylinder is unrestricted. Air line restrictors placed on both sides of the cylinders help somewhat, but because the restrictions are the same, movement is again uneven and hard to control. By controlling the exhaust air only, you get full tank pressure and volume going to the cylinders. With full pressure the gear starts to move right away, but because the air that was already in the cylinder has to leave, and you can now control now fast that happens, you can precisely control how fast the gear moves. You get extremely smooth movement and very positive control, remember you have the full system pressure to move the retract mechanism. The second difference? Its the most compact adjustable valve made and the easiest to install. It’s just like our standard valve but longer by about 1/4". This means you can replace your existing robart valve and not have to change the mounting or servo location. You can also replace other brands and gain some room. Get scale like speed and control from your retracts. Get the right stuff. Get robart’s #167VRV air control valve.