

Frequently Asked Questions

1. **What is a double-piloted check valve?** A double-piloted check valve locks a cylinder in place and prevents any movement due to by-pass (up to 600 PSI) from the valve and will also give you a level of safety if a hose was to fail.
2. **Why does CCM sell hydraulic toplinks with check valves?** Safety first is the main reason. OSHA and the EU require piloted check valves as a safety on agricultural and industrial equipment when an object is lifted with a hydraulic cylinder and has no mechanical safety catch.
3. **What size cylinder bore do I need on a hydraulic topline?** The working hydraulic pressure of most CAT 1 tractors ranges between 2200 – 3000 PSI. If you have a 2” hydraulic cylinder you will have the direct straight force of 5000-7000 LBS. If you use larger hydraulic cylinders then you risk exerting forces beyond the normal designed capacity of the tractor. CAT 1 tractors usually are not designed to lift more than 3000 Lbs with their 3-point lift. We do have larger hydraulic cylinders for CAT 2 applications.
4. **I do not see a cylinder with the exact same stroke as my OEM topline.** You need to get a cylinder that will match the range of motion you normally use. If your OEM topline is 18-32” likely an 18-26.5” hydraulic topline will cover most of your applications. Most operations require use only of the first 60% of the OEM topline.
5. **Do I need both a hydraulic topline & hydraulic sidelink?** NO Customers with both a hydraulic topline and a hydraulic sidelink adjust only the topline 80% of the time and if they adjust the side link do so only once. The sidelink is beneficial to commercial landscapers that use a sidelink to adjust a boxblade for the desired contour.
6. **Can I use 2 hydraulic sidelinks?** We do not recommend use of 2 hydraulic sidelinks. If you are doing this so you can exert down pressure it is not a good idea to do this. Most 3-point systems are **not** designed for the added down pressure force and will prematurely fail and cause unsafe situations with the added down force.
7. **Where can I find other operators using hydraulic toplinks and Top and Tilt systems?** <http://www.tractorbynet.com/forums/> Use the search feature and you will find many people using various systems.

Please call or contact us with any questions you might have.

Carter & Crater Machinery, Inc
1233 Carroll Creek Road
Johnson City, TN 37601
423-282-6969
sales@ccmachinery.com