June 01, 2009

This Issue Features:

- Introducing ROSS’ Modular L-O-X® Valve Air Entry Combination
- Tech Tips: Are Your Cylinders Falling for You?
- Total Machine Safety - A Holistic Approach to Safety

Register Now:
Total Machine Safety Course

Upcoming dates:
6/09/09 - Atlanta, GA
7/14/09 - Philadelphia, PA

Learn how to resolve safety issues, address machine safeguarding, and improve profits at the same time! For more information, visit Total Machine Safety.

Subscribe

Not yet subscribed to ROSS e-Pneus?

Please click here to subscribe.

Introducing ROSS' Modular L-O-X® Valve Air Entry Combination

ROSS is proud to announce the introduction of its latest product, the Modular L-O-X® valve Air Entry combination. Combining three elemental products into one (filter, regulator and industry-leading lockout valve), this pre-engineered modular design offers many benefits.

Created with packaging, conveyor panels, and material handling applications in mind, the ROSS Modular L-O-X valve Air Entry combination conforms to the ANSI/PMMI B.155.1 – 2006 standard for packaging-related converting machinery. Also suitable for air entry applications, the Modular L-O-X unit consolidates multiple functions into one space-saving assembly and offers easy servicing.

Because many options are available with this product, it can be easily customized. While a reverse-flow, self-relieving piston-type regulator is standard in this design, a non-relieving option is also available. The included filter has an internal automatic drain, but manual or float drains are also options. Additionally, MUFFL-AIR® silencers and EEZ-ON® valves (for gradual start up) are also available accessories.

Conforming to OSHA lockout standards, the L-O-X is easy to operate and is lockable only in the off position. Additionally, the L-O-X valve meets ANSI/PMMI B.155.1-2006 and ANSI B11. GSR standards with a full size...
E-mail ROSS e-Pneus

Have a fluid power story you would like to share or a question you would like to ask?

Please send an e-mail to: epneus@rosscontrols.com

Customer and Technical Services

ROSS Customer Service
1-800-GET-ROSS
E-mail: custsvc@rosscontrols.com

ROSS Technical Services
1-888-TEK-ROSS
E-mail: techsvc@rosscontrols.com

Exhaust port and a verification point for visible pressure release indication (pop up or pressure switches are optional).

Beyond this new L-O-X/filter/regulator assembly, ROSS is also offering air entry packages for Cat-2, -3, and -4 applications for design flexibility. The Cat-2 design utilizes a sensing valve, while the Cat-3 and -4 designs utilize a DM\textsuperscript{1} Series E double valve and DM\textsuperscript{2} Series E double valve (respectively) for control reliability.

Multiple functions in a flexible, space-saving modular design – another way ROSS helps you achieve a safer and more efficient workflow. For more information on the ROSS Modular L-O-X valve Air Entry combination, download our flyer or contact your local ROSS distributor.

Tech Tips: Are Your Cylinders Falling for You?

As promised, we are devoting this month’s Tech Tip to vertical cylinder safety. Last month we discussed creep in horizontal cylinder applications. However, in some applications, the cylinder is mounted vertically. Such applications might include pressing, lifting, clamping, drilling, coining, riveting, squeezing or even forming. It could be a small tabletop punching operation or a large mechanical stamping press.

All of these applications have one thing in common: there is a point where the cylinder comes in contact with the work material or another part of the machine (known as a pinch point). If the air supply is removed from the circuit during machine operation such as LOTO or an emergency stop, the cylinder could drop and possibly injure a worker. This is also a concern during tooling changes or other operations that require the operator to place his hands within the hazard area.

Because of this potential hazard, load holding valves should be incorporated to hold the cylinder in place. They can be either Category-2 single valves (non-critical), such as the ROSS SV27 P.O. Check valve with sensing, or a redundant series valve, like the Category-3
(higher injury risks) SV27 P.O. Check valve with sensing. Both are available in solenoid or air pilot versions (see Bulletin 510). In either case, a risk assessment must be performed to determine what the implications of trapped pressure will be for the machine and personnel before choosing the appropriate product.

In the circuit below, a control reliable DM² Series D valve is used to extend the cylinder and open the 2/2 redundant P. O. Check valve. If, at any time, air is removed from the circuit or the DM series valve is de-energized, the checks will close. This will stop the cylinder from dropping, thus enhancing worker safety.

Note: Keep in mind that air is now trapped between the check and the cylinder. If your risk assessment requires you to release the air before maintenance or tool change, an additional 2/2 valve may be required to exhaust the air.

For more information on load holding and control reliable valves, download Bulletin 510 or contact your local ROSS distributor.

Total Machine Safety - A Holistic Approach to Safety

Thorough machine safeguarding requires attention to both fluid and electrical power issues, but often safety training covers only one of these topics. That is why ROSS is partnering with LJB, Inc. to offer Total Machine Safety (TMS) – the first fully-integrated electrical and fluid power safety training addressing machine safeguarding.

In the past, multiple courses would have been necessary to gain the same knowledge provided in this one holistic course. The additional class and travel fees might have been prohibitive to some companies. But with this combination of electrical, fluid power and machine guarding curriculum, TMS can provide excellent training at a considerable value. To ensure the best quality instruction and up-to-date knowledge of pertinent standards, the course is taught by noted professionals who have years of engineering experience.
expertise and sit on relevant ANSI committees.

Register now for upcoming courses that are scheduled for Atlanta, Georgia and Philadelphia, Pennsylvania. Or, for added convenience, Total Machine Safety can be taught on-site at your company's plant or office. Visit totalmachinesafety.com for further information on how ROSS and LJB, Inc. can help you enhance your safety practices.

© 2009 ROSS CONTROLS ®. All Rights Reserved.

Unsubscribe or update your email address.

1250 Stephenson Highway | Troy, MI 48083