ROSS Controls Fluid Power Systems

GLOBAL Reach with a LOCAL Touch™

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www.rosscontrols.com

Eric Cummings - Ross Controls
Safety Business Development Manager - Americas
eric.cummings@rosscontrols.com
803-622-1161

The Global Leader in Pneumatic Safety Solutions
ROSS Controls
Pneumatic Lockout

• Requirements (OSHA)
  – A manually operated valve
  – Not be used for any other function
  – Located outside of hazardous areas
  – Easily identified and operated
  – Tamper resistant

• Best Practice (ANSI B11.0)
  – Full diameter exhaust (rapid release of stored energy)
  – Should only be able to be locked off
  – “Positive action” which would indicate only two positions (ON and OFF)
  – A method for the employee to verify that the energy has dissipated after initiating lock out
The ROSS story

- Founded in 1921 by Charlie Ross
- Design, manufacture and sale of pneumatic valves and systems for industrial equipment
- 1954 – First double valve ever developed by ROSS
- 1962 – Developed first pneumatic energy isolation device
- 2005 – DM²™
- 2017 – Externally Monitored Safety Valves
ROSS – Your Partner for Pneumatic Safety Solutions

Safety Valve Systems

- Manual Lockout Valves
- Safety Exhaust Valves
- Safe Cylinder Return Valves
- Load Holding Safety Valves

Safety Expertise and Global Support
Safety valve evolution

Where we were
(Internal monitoring)

- DM2
- MDM2
- CM2

Safety Exhaust Valve

Safety Exhaust Valve with Soft Start

Cylinder Return

DM2

SV27

Where we are
(External Monitoring)

- M35
- M35S, MCS
- RSE
- CC4

Cylinder Load Holding

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M35 – Safe Exhaust

- **Modular 3573 – Safe Exhaust**
  - Block and Bleed (dump) functions
  - Optional soft-start
  - Part of Safety air entry system
RSE – Safe Cylinder Return

• RSe –
  – 4/2 Spring Return Valve
  – Cylinder moves to safe position
  – Two hand operations
  – Gate/door operations
  – Cutting/slicing

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CC4 – Safe Cylinder Stop

- CC4 – CROSSCHECK
  - 4/3 Closed Center Valve
  - All ports blocked
  - Jog and load holding function
Hydraulic Safety Valve Images

M12 Solid State Position Sensors

Standard DIN style solenoid connectors

Notice the change from global pneumatics to global fluid power

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Superior Value in Pneumatic Safety

- Brodest safety valve portfolio
- Superior pneumatic safety technology
- Pneumatic safety education and support
- ROSS safety valves can reduce costs over the full lifecycle of your equipment