

The Eaton logo is displayed in white text on a blue background. It consists of the word "EATON" in a bold, sans-serif font, with a white dot above the letter "O".

EATON

The word "Hydraulics" is written in a large, white, sans-serif font against a background of a hydraulic valve assembly.

Hydraulics

The text "Mobile Valves" is written in white, sans-serif font on a solid blue rectangular background.

Mobile Valves





Eaton Mobile Valves

Eaton is a worldwide leader in the hydraulic industry. We design, manufacture, and market a comprehensive line of reliable, high-efficiency hydraulic systems and components. Our major markets include agriculture, construction, material handling, forestry, utilities, and lawn and garden.

Hydraulic products from Eaton are known for quality. They are designed by experienced system engineers, manufactured in ISO 9001-certified sites, and backed by

the most extensive distributor network in the business: more than 100 distributors in 50 different countries.

In addition to our better known hydraulic components, we make a full range of mobile valve products. This brochure is intended as an introduction to some of our products and systems for mobile applications. There's much more than we can show here, so take a look — then call us to find out what else we can do for you.

1. Inline Load Sensing Priority Valves: VLC/VLE/VLH

Eaton load sensing priority valves provide dependable flow on demand for load sensing steering, braking, or other priority functions. Excess flow is available for other machine functions. The valves can be applied in systems with fixed or variable displacement pumps, and with open center or closed center valves in the excess flow portion of the circuit.

Eaton offers a choice of control pressure differentials and signal systems. Static signal systems offer no loss of signal flow, while dynamic signal systems improve response time and operating characteristics at cold temperatures. Applications include ag tractors, motor graders, lift trucks, and backhoe/loaders.





2. Hydraulic Remote Controls

A hydraulic remote control (HRC) provides operator selectable pilot pressure for use in remotely controlling a larger valve or a pump. It reduces operator effort and fatigue, as compared to a manual control. HRCs are available in various modules, and with numerous input options such as hand lever, foot pedal, joystick, ergonomic handle with switches, and others.

Applications include mini-excavators, skid steer loaders, wheel loaders, and rough terrain lift trucks.



3. Proportional Flow Controls: EPV

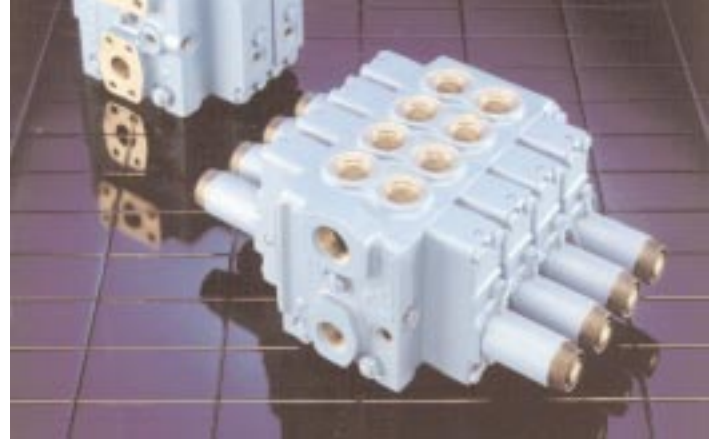
EPV proportional flow control cartridges provide infinitely variable control of flow in proportion to the electrical input to the solenoid. They are compensated for variations in pressure differential, and have very low internal leakage in the closed position. Applications include agricultural planters, lift trucks, harvesters, and forestry equipment.





4. Load Sensing Directional Valve: CMX Sectional

The CMX sectional valve is a stackable, load sensing, proportional directional control valve. It can be operated by either hydraulic remote control (HRC) or electric remote control (ERC) signals. Applications for the CMX section valve include forestry equipment, wheel loaders, rough terrain lift trucks, and boom man lifts.



5. Open Center Priority Flow Dividers

Operating within an open center circuit, a priority flow divider routes a fixed amount of the available flow to a priority port, usually a steering circuit.

Applications include golf course maintenance equipment and lift trucks.





6. Single & Dual Self Level Valves

Eaton self leveling valves are line mounted flow dividing units that provide automatic movement of a bucket function in response to movement of the boom cylinder to keep the bucket attitude constant as the boom is re-positioned.

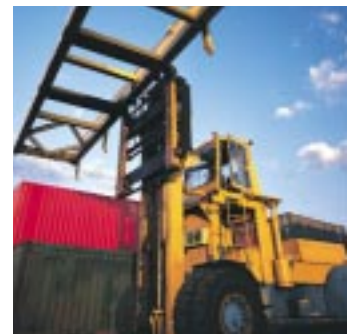
In a typical application, the single self level valve levels in the upward movement and the dual self level valve levels both the upward and downward movements. Self level valves are commonly used in skid steer loaders and ag tractor loaders.



Dual Self Level Valve

7. Manual Directional Control Valve: CM11 30 GPM Sectional

A manual control valve allows an operator to control direction of hydraulic flow manually. Because of its stackable design and high maximum flow rate, this sectional valve can be used in applications from lift trucks to sugar cane harvesters.





8. Manual Directional Control Valves: 5 and 15 GPM Monoblock

The 5 and 15 GPM manual directional control valves are available in one, two, and three spool configurations with options such as system relief valves, pilot operated work port checks, handles, detents, and different spool configurations. The monoblock is used in applications such as lift trucks, sweepers, scrubbers, trenchers, lawn and garden equipment, and golf course maintenance equipment.



5 GPM Monoblock



15 GPM Monoblock



Eaton
14615 Lone Oak Road
Eden Prairie, MN 55344
USA
Telephone: 952 937-7254
Fax: 952 974-7130
www.hydraulics.eaton.com

Eaton
20 Rosamond Road
Footscray
Victoria 3011
Australia
Tel: (61) 3 9319 8222
Fax: (61) 3 9318 5714

Eaton
46 New Lane, Havant
Hampshire PO9 2NB
England
Tel: (44) 23 92 486 451
Fax: (44) 23 92 487 110



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Printed in USA
Document No. E-VLOV-MR001-E
September 2002