NEM, founded in 1995, is a valve manufacturer specialising in the development of hydraulic solutions for mobile, agricultural and industrial applications.

Our goal is to be a reliable partner, providing our customers a state of the art service, delivered by highly qualified technical staff, to achieve customized solutions.

At NEM we are aware that the future of the hydraulic industry is in system engineering. Therefore we are developing and manufacturing top quality products, which can be fully integrated into many different applications. NEM components ensure the highest level of performance and safety in any application; this, together with our focus on innovation, has gained us the trust and appreciation of leading machine manufacturers worldwide.

NEM’s products can count on a wide range of options, from cartridge valves and hydraulic integrated circuits to Parts-In-Body counterbalance valves and flow control valves.

All our products can be selected from our catalogues or customised by NEM’s application engineers to develop a selection of valves specifically designed for different applications in order to respond to any of our customer needs.

Last but not least, NEM can also provide its own range of compact directional control valves, rated for metered flows up to 70 L/min.

All these products, together with our innovative solutions for load and flow sensing control valves demonstrate our attitude towards engineering fluid power solutions.

Products to fit any of your needs
Ideas to enhance your performance

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Solutions from NEM ... ... for Agriculture Applications
Outrigger cylinders; 6D series: 60 L/min / 350 bar
Pilot operated check valves
Lifting, extension, jib cylinders, slewing motor

Counterbalance valves
H30 / H50 series: 40-70 L/min / 350 bar
Installation: Flanged / In-line
Boom cylinder; Damped/piloting; quick response time (VIP2 patented)

P pilot operated check valves
6D series: 60 L/min / 350 bar
Installation: Flanged / In-line
Outrigger and crossbar cylinders; single and double acting hardened seats on request

Tracked aerial platforms

Counterbalance valves
H30 / H50 series: 40-70 L/min / 350 bar
Installation: Flanged / In-line
Lifting, extension, jib cylinders, slewing motor

Hydraulic integrated circuits
VX series: 90 L/min / 350 bar
Installation: Customizable
Pumps control; safety functions; levelling closed loop isolation

Counterbalance valves
H30 / H50 series: 40-70 L/min / 350 bar
Installation: Flanged / In-line
Lifting, extension, jib cylinders, slewing motors

Directional control valves
NVE3 / NVE4 series: 70 L/min / 250 bar
Installation: In-line
Electro-proportional control; Load Sensing comp; simultaneous movements; local compensation in each section
Controlled functions: aerial actuators

Counterbalance valves
H50 / H10 series: 70-110 L/min / 350-410 bar
Installation: In-line
Ann and extension cylinders; with and without back-pressure relief compensation

Timber cranes

Directional control valves
NVE2 series: up to 50 L/min / 350 bar
Electro-proportional control, multifunctional operation;
Flow Sensing concept
Controlled functions: boom; arm; extension; slew

Counterbalance valves
H2 / H3 series: 60-110 L/min / 350-410 bar
Installation: In-line
A1B1

Piloted operated check valves
6D series: 60 L/min / 350 bar
Installation: Flanged / In-line
Outrigger and extension cylinders; with back-pressure compensation; damped piloting; quick response time (VIP2 patented)

Truck mounted aerial platforms

Counterbalance valves
H30 / H50 series: 40-70 L/min / 350 bar
Installation: Flanged / In-line
Lifting, extension, jib cylinders, slewing motors

Directional control valves
NVE3 / NVE4 series: 70 L/min / 250 bar
Installation: In-line
Electro-proportional control; Load Sensing comp; simultaneous movements; local compensation in each section
Controlled functions: Outriggers; crossbar and levelling of the platform

Counterbalance valves
H30 / H50 series: 40-70 L/min / 350 bar
Installation: Flanged / In-line
Boom cylinder; with back-pressure compensation; damped piloting; quick response time (VIP2 patented)

Overhead cranes

Directional control valves
NVE3 / NVE4 series: 70 L/min / 250 bar
Installation: In-line
Slew control; over/under protection

Counterbalance valves
H50 / H10 / H15 series: 70-110-180 L/min / 350-410 bar
Installation: In-line
Counterbalance valves
H52 / H10 series: 60 - 110 L/min / 350-410 bar
Installation: In-line

Outrigger and crossbar cylinders; Installation:

Pilot operated check valves
6D series: 60 L/min / 350 bar
Installation: Flanged / In-line
Outrigger and crossbar cylinders; single and double acting hardened seats on request

Directional control valves
NVE3 / NVE4 series: 70 L/min / 250 bar
Installation: Customizable
Electro-proportional control; Load Sensing comp;
simultaneous movements; local compensation in each section
Controlled functions: Outriggers, crossbar and leveling of the platform

NVD2 series: up to 50 L/min / 350 bar
Installation: In-line

Solutions for Agriculture Applications

Counterbalance valves
H50 series: 70 L/min / 350 bar
Installation: In-line
Counterbalance valves
H50 series: 70-110 L/min / 350-410 bar
Installation: In-line

Controlled functions: aerial actuators
Inlet electro-proportional control; On-Off function

Regenerative extension; damped piloting
Remote controlled cutters

- **Directional control valves**
  - NV02 series: 50 L/min / 250 bar
  - NV03 series: 70 L/min / 250 bar
  - NV04 series: 140 L/min / 250 bar
  - Functions: On-Off type, Energy-saving for low flow applications, Proportional control

- **Hydraulic integrated circuits**
  - KA series: 80 L/min / 210 bar

- **Bale splitters**
  - Installation: Customizable
  - XA series: 60 L/min / 350 bar

- **Counterbalance valves**
  - HD0 series: 70 L/min / 350 bar

Sprayers and trailing shoes

- **Directional control valves**
  - NV02 series: 50 L/min / 250 bar
  - NV03 series: 70 L/min / 250 bar
  - NV04 series: 140 L/min / 250 bar
  - Functions: On-Off type, Energy-saving for low flow applications, Proportional control

- **Flow Sensing concept**
  - NV02: 50 L/min / 250 bar
  - NV03: 70 L/min / 250 bar

- **Sprayers and trailing shoes**
  - Installation: Flanged / In-line
  - H50 series: 70 L/min / 350 bar

New developments and special features

- **VIP-02**
  - Valve to Intercept Pilot signals
  - European patent - EP2342253
  - Function with high flow

- **U-valves concept**
  - Energy saving & electrification from NEM motion control valves
  - Energy saving and electronics Vs reliability, a challenge that NEM engineers are ready to play by the U-valves program
  - The U-valves program promotes functional principles that bring the gravity to drive load lowering operations.
  - Through the U-valves program NEM’s engineers support our customers in developing innovative energy saving solutions and the machines electrification.

- **NVD2**
  - New: flow sensing control valve
  - With on-off actuation
  - NVD2 is a highly innovative directional control valve.
  - Its technology (patented) impressively joins constructive simplicity and high functional performance.
  - The flow sensing working principle which characterizes the NVD2 valves makes the flow control independent from simultaneous loads with a great stability.
  - In addition to the typical electro-proportional controls, is now available an On/Off actuated version, which allows to simplify the electric control without compromising the Flow Sensing multifunctional working feature.

- **NVE4**
  - Full options, modular, pre-compensated control valve
  - The new series NVE empower the range of directional control valves with a pre-compensated load sensing electro-proportional valve.
  - NVE series is the natural evolution of NVE3 line.
  - NVE4 is the most equipped and advanced version, which offers features like A/B closed center spools and modular valves to be installed direct on the working ports, e.g. pilot operated check valves, counterbalance valves and many other safety options.

Balers

- **Directional control valves**
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