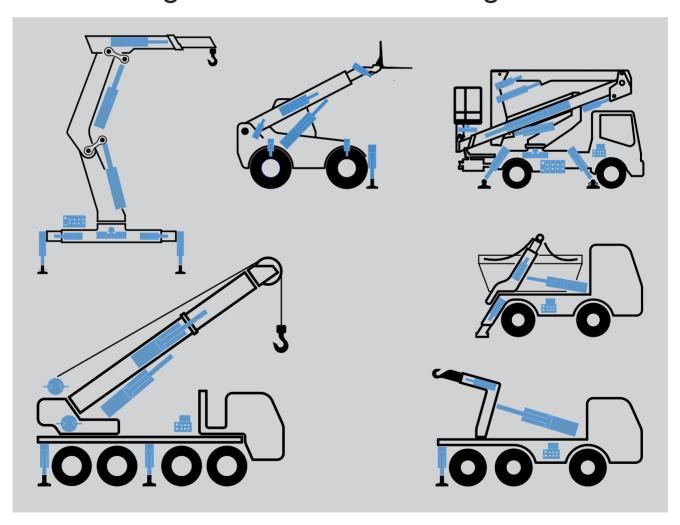


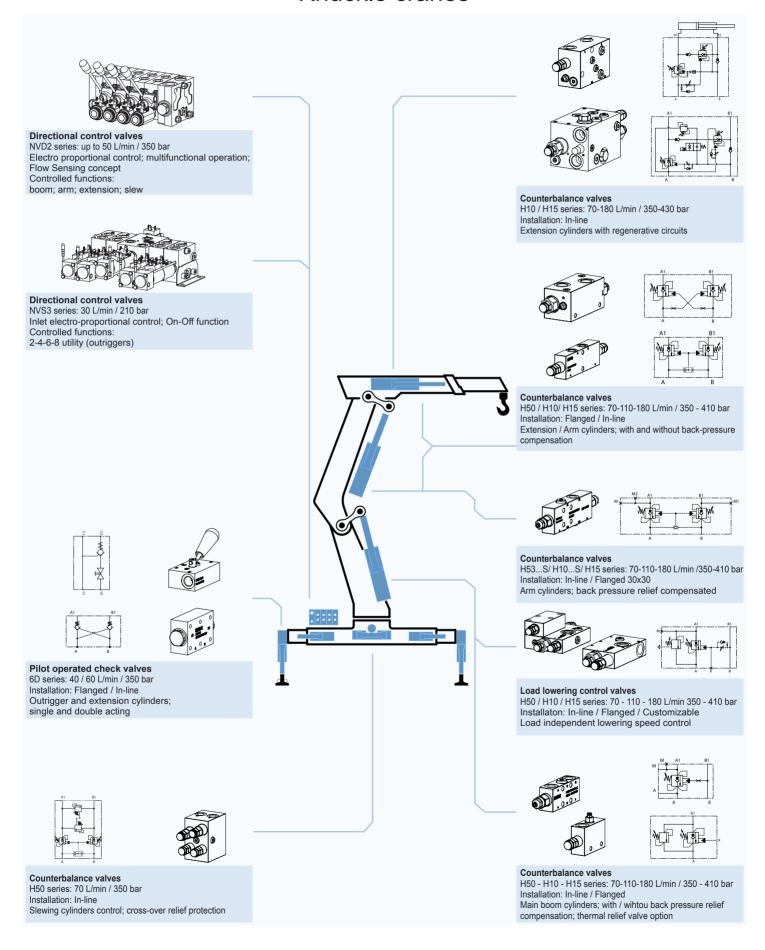
Solutions from NEM ...

... for Lifting and Material Handling



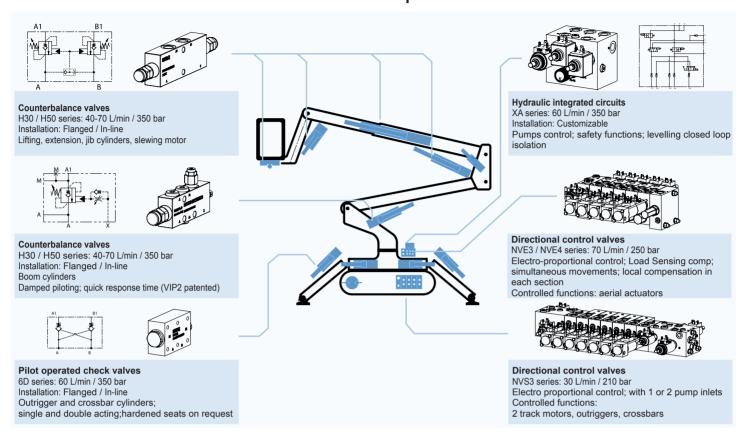


Knuckle cranes

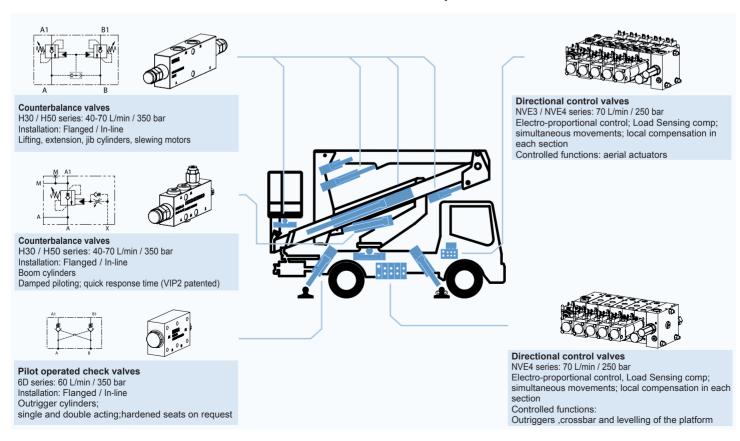


Solutions for Lifting and Material Handling

Tracked aerial platforms

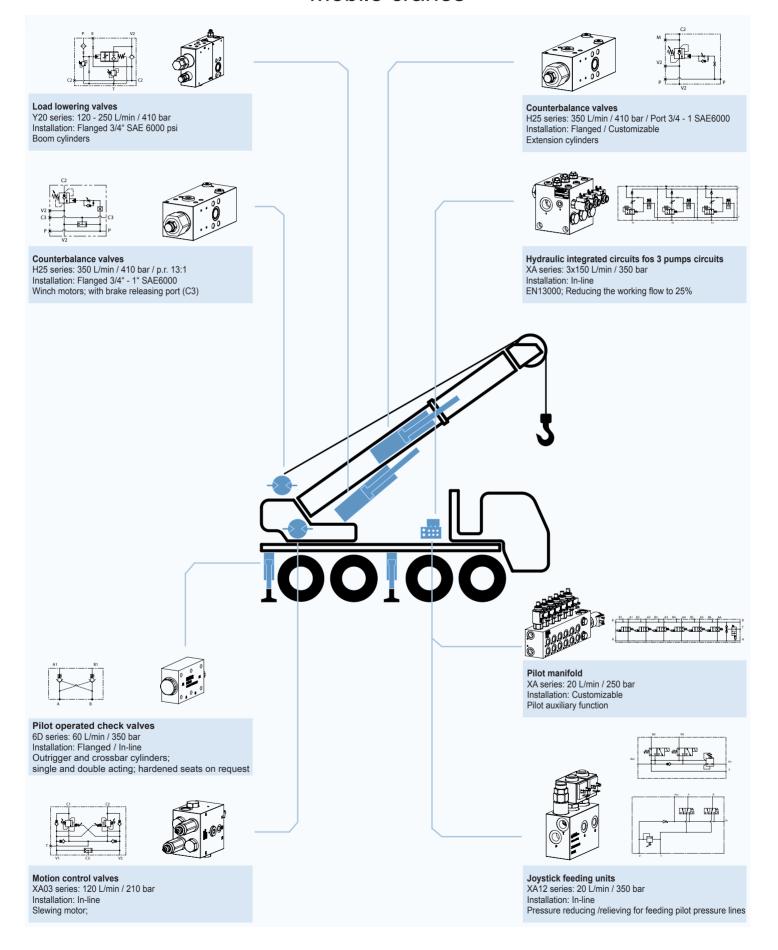


Truck mounted aerial platforms



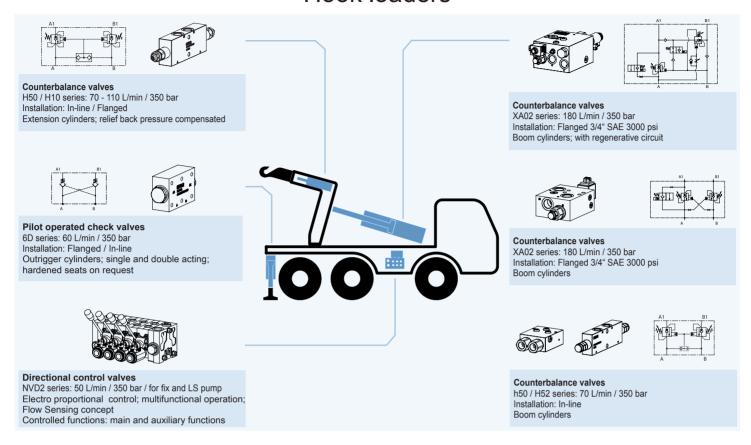


Mobile cranes

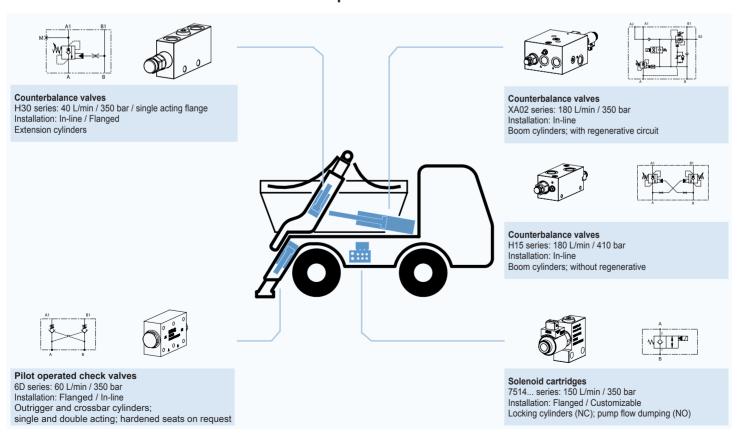


Solutions for Lifting and Material Handling

Hook loaders

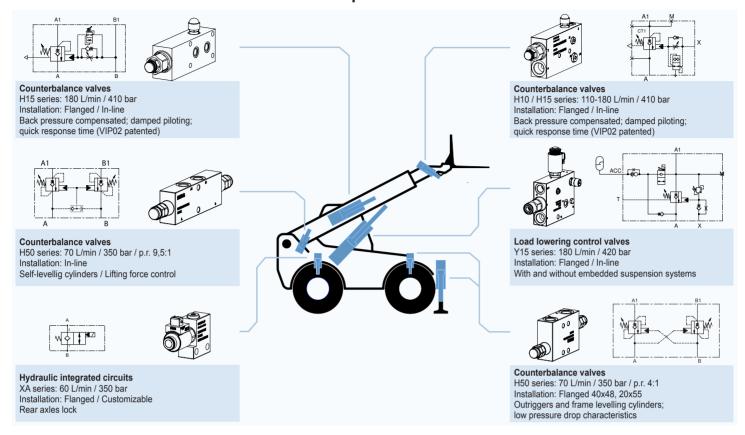


Skip loaders

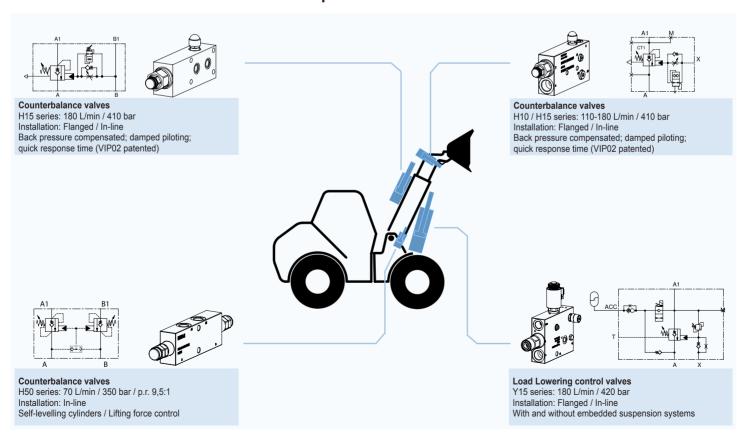




Telescopic handlers



Telescopic wheel loaders



Solutions for Lifting and Material Handling

A range of high performance counterbalance valves

NEM's range of counterbalance valves is quite unique, thanks to their original design NEM products are able to reach the highest working pressure and flow range of the market without any compromise.

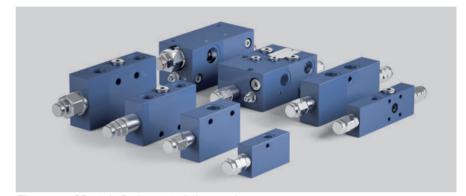
Starting from the smaller size LHD03X series rated for 40 L/min up to LHD25X rated for 350 L/min, all the ranges are designed to perform bet-

ter than the the benchmark; in particular the series LHD03X and LHD05X are the best in class for their pressure drop characteristics, while the other series LHD10X, LHD15X and LHD25X are definitely a step ahead thanks to their robust design, extended opening strokes and setting range up to 410 bar as standard.

Alongside conventional counterbalance valves characterized by a given pilot ratio (eg. 4:1),

NEM application engineers are available to support customers to develop innovative energy saving solutions. NEM's U-valves program is an engineering service that aims to promote functional principles solutions that bring the gravity force to drive load lowering operations.

Туре	Q _{max} (L/min)	p _{max} (bar)	Pilot ratio
LHD03	40	350	4:1
LHD05	70	350	4:1; 9,5:1; 1:0
LHD10	110	410	4:1; 9,5:1; 1:0
LHD15	180	410	4:1; 8:1; 1:0
LHD25	350	410	4:1; 6:1



The range of Parts-in-Body counterbalance valves

New developments and special features



VIP-02

Valve to Intercept Pilot signals European patent - EP2342253

When the machine's boom lowering stability is an issue, NEM can provide a patented pilot dampening device that ensures the stability of hydraulic lifting equipment during lowering manoeuvres, especially on those applications characterized by load sensing flow control systems or by variable displacement pumps.

This device (VIP-02) allows a stable piloting and quick opening in order to reach a stable performance and a fast response time regardless of oil viscosity.



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 and the motion control valves electrification.

Through the U-valves program NEM's engineers support our customers in developing innovative energy saving solutions.



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 electroproportional controls, is now available an On/Off actuated version, which allows to simplify the electric control without compromising the Flow Sensing multifunctional working features.



NVE4

Full optional, modular, pre-compensated control valve

The new series NVE empower the range of directional control valves with a new set of pre-compensated load sensing electro-proportional valve. NVE series is the natural evolution of NVS3 line.

NVE4 is the most equipped and advanced version, which offers features like A/B closed centre 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.

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

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.

Mechanical and Electrical Cartridge Valves

Pressure control valves p_{\max} 350 bar Counterbalance valves Q_{\max} 300 L/min Directional control valves Cavity up to SAE 20

Flow control valves



Parts-in-Body Valves

Load holding / Motion control valves
Boom lowering control valves

PO check valves
Pressure control valves
Flow control valves

 p_{max} 420 bar Q_{max} 500 L/min

Ports up to 1¹/₄ SAE6000



Hydraulic Integrated Circuits

Weight lifting $p_{\rm max}$ 350 bar Earth moving $Q_{\rm max}$ 200 L/min

Agricultural vehicles Industrial vehicles



Directional Control Valves

Flow sensing $p_{\rm max}$ 350 bar Load sensing $Q_{\rm max}$ 70 L/min Load independent Ports BSP 3/8"



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