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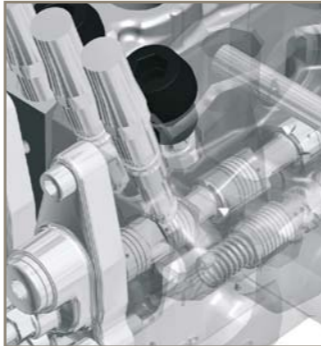
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aerospace  
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pneumatics  
process control  
sealing & shielding



## Flexible Performance

Efficient control in heavy duty applications  
Modular Load Sensing Hydraulic Valves  
Series L90LS / K170LS / K220LS



### European Product Information Centre

Free phone: 00 800 27 27 5374  
(from AT, BE, CH, CZ, DE, EE, ES, FI, FR, IE,  
IL, IS, IT, LU, MT, NL, NO, PT, SE, SK, UK)

### US Product Information Centre

Free phone: 1-800-27 27 537  
www.parker.com

Your local authorized Parker distributor



ENGINEERING YOUR SUCCESS.

# Flow sharing – full control at full throttle!

## Modular design for application-optimised performance

Load sensing systems are the undisputed future of motion control – a future many have not discovered yet. Those who know appreciate all the benefits offered by Parker’s advanced load sensing system designs:

- Lower energy consumption
- Higher productivity
- Better total performance
- More precise control
- Modular design optimises performance
- Expandable & upgradeable
- Long term cost savings

The L- and K-series are primarily designed for use with variable displacement pumps, and can be controlled manually, hydraulically or electro-hydraulically. This gives great flexibility in component location, an important factor where space is at a premium.

A load sensing system with a variable displacement pump minimises power losses and provides far greater efficiency compared to conventional systems. Several functions can run simultaneously, mixing light and heavy loads,

without losing any control precision. At the same time, fuel consumption, heat generation and noise levels are reduced – a perfect combination for heavy duty mobile machines where performance, reliability, compactness and service life are deciding factors. So why wait for the future, when tomorrow is here today!

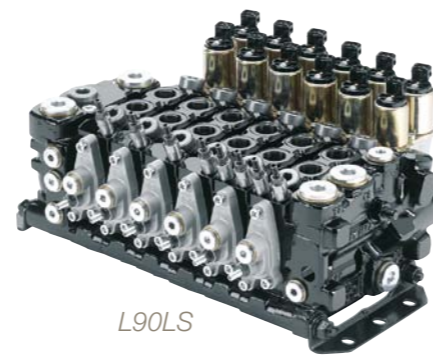
The overall economy of Parker’s L- and K-series valves is further enhanced by the possibility of a partial or total rebuild at any time to add new functionality to an existing machine.

Flow sharing makes it possible to maintain a good simultaneous control of functions in your machine despite pump saturation (pump flow over demand).

Parker’s modular load sensing L90LS, K170LS and K220LS valves are designed to be stacked and combined, a feature that enables maximum performance in a uniquely compact package. You can specify exactly the performance you need, no more and no less. Special function manifolds can be built in combinations of up to 12 sections.



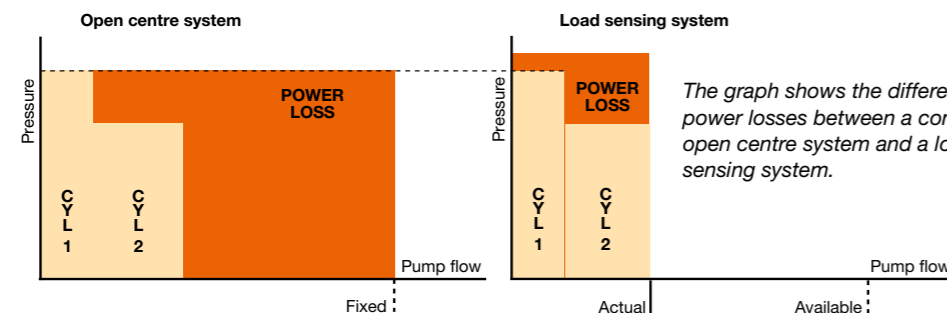
K170LS



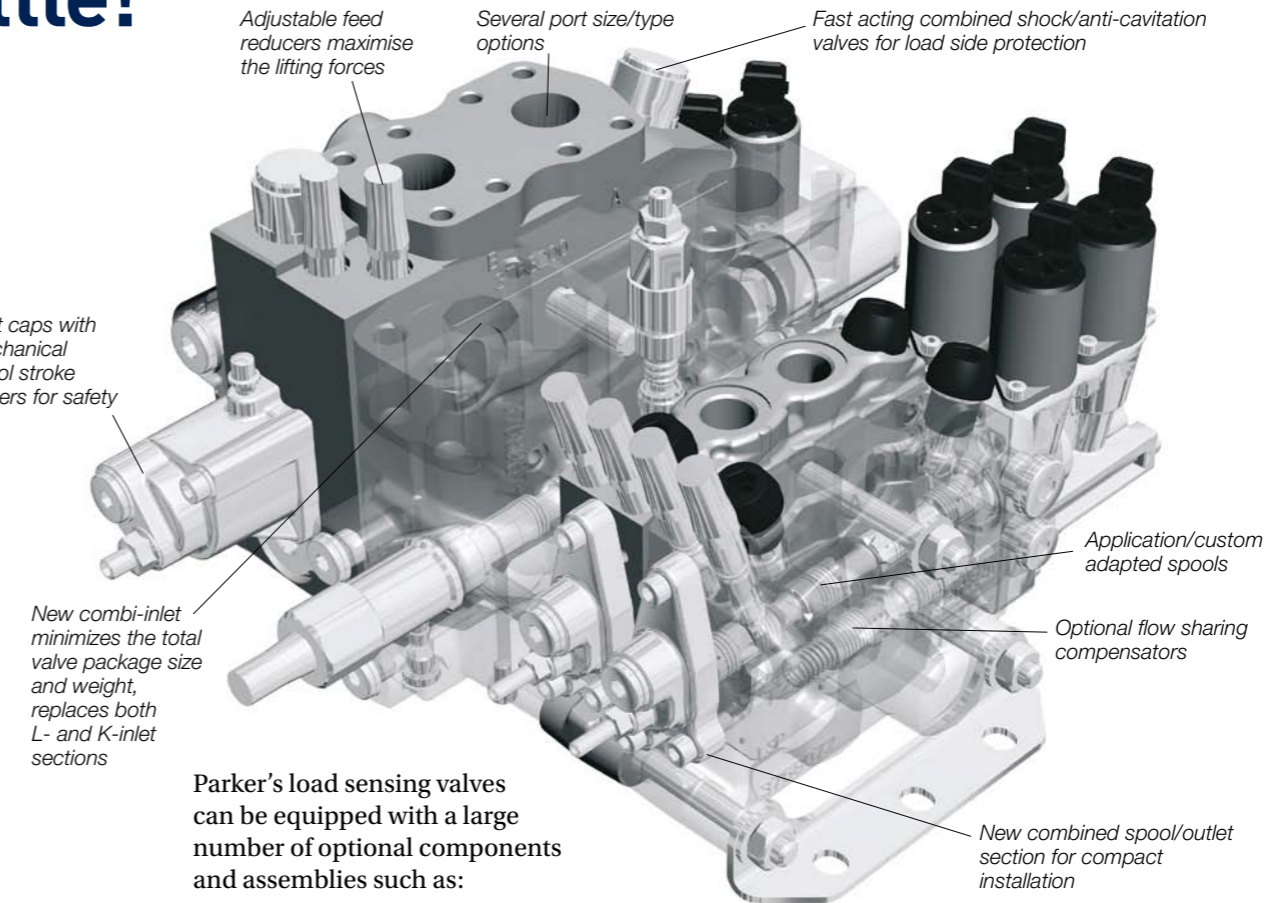
L90LS



K220LS



Save up to **60%** on fuel



Parker’s load sensing valves can be equipped with a large number of optional components and assemblies such as:

- For single or multi-pump operation
- For single or multi-valve operation
- Options for variable or fixed displacement pumps
- Pump unloading with blocked pump channel for emergency stop
- Port specific feed reducers
- Sections with pressure compensators
- Sections with force feed back
- Sections with flow sharing functionality
- Application adapted spools
- Integrated special function manifolds
- Port relief valves with anti-cavitation function
- Counter-pressure valve
- Anti-cavitation valves
- Load hold check valve
- Pressure relief valve

### Typical Applications:

- Wheel Loaders
- Mobile Cranes
- Reach Stackers
- Truck Cranes
- Telehandlers
- Refuse Vehicles
- Forwarders
- Harvesters
- Forest Cranes



### The L- and K-series Load Sensing Valves

Valve	Pump flow l/min	Pressure bar	Operation			
			Manual	Pneumatic	Hydraulic	Electro-hydraulic
L90LS	200	320	•	•	•	•
K170LS	280	330			•	•
K220LS	280	350			•	•

