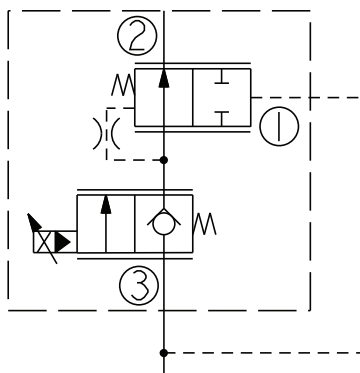


Multi-Function HSPECxx-34 Cartridge Valves Offer Efficient Load-Holding and Gravity-Lowering

The HSPECxx-34 electroproportional flow control valves are the next wave of high-pressure multi-function valves introduced by HydraForce, complementing the HSPECxx-30 models launched just last year.

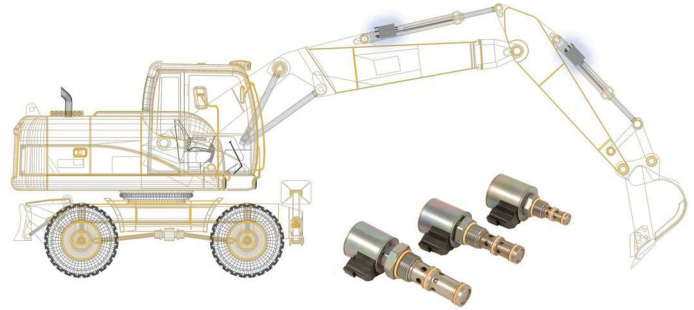
While the HSPECxx-30 valves were designed for flow-sharing applications, the built-in damping of the HSPECxx-34 valves makes them ideal for superior load-holding while allowing for precise and stable flow control. They can also be applied in power-down and gravity-assisted lowering systems.

Available in several sizes and flow ratings, from 36 lpm (9.5 gpm) to 98 lpm (26 gpm) HSPECxx-34 valves are rated to handle high hydraulic pressures of 350 bar (5075 psi).



ISO symbols depict multiple functions of the HSPECxx-34 cartridge valves.

HSPECxx-34 valves are pilot-operated, normally closed valves with a sealed internal compensator and a full-flow pump-blocking check. With inlet at port 3, the HSPECxx-34 regulates flow out of port 2 regard-



HSPECxx-34 multi-function valves can be mounted right on the cylinders for efficient, responsive control.

	HSPEC16-34	HSPEC12-34	HSPEC10-34
FLOW RATING	98 lpm 26 gpm	60.5 lpm 16 gpm	36 lpm 9.5 gpm
PRESSURE RATING	350 bar (5075 psi); 10% cycle life; 420 bar (6090 psi)		

less of load pressure with the flow rate proportional to current applied to the solenoid. When de-energized, the HSPECxx-34 valve blocks flow from port 3 to 2.

Both the HSPECxx-30 and HSPECxx-34 valves provide multiple functions in a single cartridge, allowing the hydraulic manifold to be more compact in size, which results in reduced manifold space claim on a machine and greater flexibility in application.

For a complete listing of efficient and energy-saving multi-function valves available from HydraForce, see the back page of this Bulletin.

For detailed information and specifications, visit www.hydraforce.com or contact your local HydraForce representative at www.hydraforce.com/Distributors/World.htm

HYDRAFORCE, INC.

500 Barclay Blvd. • Lincolnshire, IL 60069 USA
Ph: 847 793 2300 • Fx: 847 793 0086
Web: www.hydraforce.com • E-Mail: sales@hydraforce.com
ISO 9001 & QS 9000 • Member: National Fluid Power Assn.

HYDRAFORCE HYDRAULICS, LTD.

St. Stephens Street • Birmingham B6 4RG England
Ph: 44 121 333 1800 • Fx: 44 121 333 1810
Web: www.hydraforce.com • E-Mail: sales-uk@hydraforce.com
ISO 9001 & ISO 14001 • Member: British Fluid Power Assn.

HYDRAFORCE HYDRAULIC SYSTEMS (CHANGZHOU) CO., LTD.

388 W. Huanghe Road • Building 15A
GDH Changzhou Airport Indl Park
Xinbei District • Changzhou, China 213022
Ph: 86 519 6988 1200 • Fx: 86 519 6988 1205
Web: www.hydraforce.com • E-Mail: sales@hydraforce.com
ISO 9001: 2008

Features/Benefits

The HSPECxx-34 proportional flow control valve is a high pressure, 3-way, normally closed, solenoid-operated cartridge valve designed for post-compensated applications with load-sense systems.

Load Holding

Load-holding is one of the HSPECxx-34 valve's most useful features.

Low Leakage

The sealed compensator of the HSPECxx-34 valve reduces the potential for hydraulic leakage.

Space Savings

A single HSPECxx-34 valve replaces several valves as it combines the functionality of an electro-proportional flow control valve, a pressure compensating logic element and a load-holding valve. This takes up less space in the manifold, allowing it to have a smaller "hydraulic footprint." This translates to savings in multiple areas - reduced size and weight for the machine, lower fuel cost, greater efficiency, parts consolidation, etc.



At the HydraForce Innovation and Technology Center in Vernon Hills, Illinois, flow control valve engineers work with applications engineering to develop customized models of new multi-function valves.

For More Information

If you have questions about the new HSPECxx-34 cartridge valves, contact your HydraForce Regional Sales Manager, or visit www.Hydraforce.com.

Features	Benefits
Sealed compensator and poppet-style configuration.	Low hydraulic leakage.
Built-in damping.	Smooth lowering capability.
Multi-function.	Reduced manifold space claim and improved circuit efficiencies.
Waterproof E-coils rated up to IP69K are standard.	Can be specified in wet, humid, and outdoor applications.
Several flow ratings from 35 to 132 lpm (9 to 35 gpm)	Well-suited for a range of applications.
Operating pressure to 5075 psi/350 bar continuous duty; 420 bar (6090 psi) 10% cycle life	Can be specified for high-pressure, horsepower-efficient applications.
Tested to 1 million cycles at full rated flow and pressure.	Long life; no worries about wear or decreased performance over time.
Designed, inspected and tested to HydraForce Quality standards with 5-year warranty. (See full warranty statement in the catalog.)	Guaranteed use for five years or longer.