

Contact HydraForce for
application engineering assistance.

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INTEGR8

ENGINEERED HYDRAULIC CONTROL SOLUTIONS

The fastest way to arrive at efficient,
reliable hydraulic solutions.



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A new age.

The mobile hydraulics market is evolving at a record pace and new technology has opened the door for more efficient, reliable, productive, lightweight hydraulic controls.

As an industry leader, HydraForce now offers a unique series of innovative engineered hydraulic control solutions — INTEGR8.

These solutions are designed to save engineering time, maximize efficiency and power your operation forward.

 **HYDRAFORCE**
POWER FORWARD



INNOVATIVE SYSTEM EFFICIENCY SERVICEABLE CUSTOMIZABLE FLEXIBLE DURABLE OPTIMAL PERFORMANCE LEAK PREVENTION

8 Advantages

INNOVATIVE

Expand your creative options with the largest range of performance-optimized cartridge valves in the industry.

SYSTEM EFFICIENCY

Cartridge valves can be combined and uniquely packaged to optimize machine efficiency, improve operator control, and integrate multiple functions into a common control scheme.

SERVICEABLE

Significantly reduce machine downtime and cost for repair or maintenance with a screw-in manifold valve solution that is easily, quickly and economically serviced.

CUSTOMIZABLE

No fixed configuration castings. Manifold housings can be configured in a variety of sizes, shapes and materials to fit tight spaces.

FLEXIBLE

Using base circuit configurations as a starting point, manifold systems can be customized to fit any mounting, shape or size constraint.

DURABLE

Every manifold is 100% function-tested at the factory, and every valve comes with the HydraForce five-year warranty.

OPTIMAL PERFORMANCE

Cartridge valves offer precise, application-coordinated performance and unmatched tune-ability.

FEWER LEAK POINTS

A single manifold block with fewer connections presents less opportunity for hydraulic leakage.



Introducing INTEGR8.

We know that selecting the best valve configuration to get the job done can be a challenge. To make it easier, we've taken the guesswork out of specifying the most common hydraulic control functions.

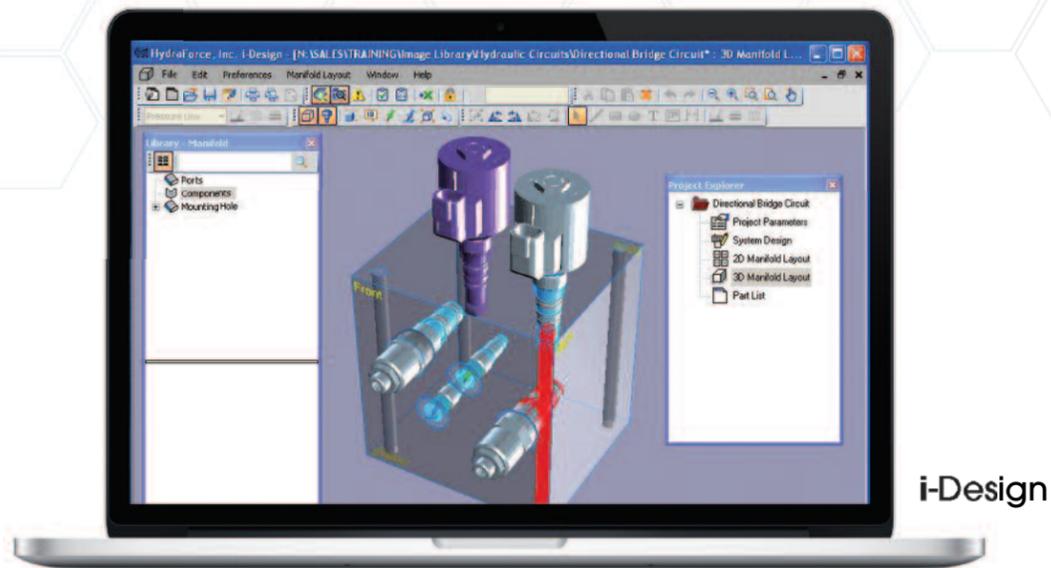
A totally new approach to designing a manifold for cylinder and motor control, INTEGR8 provides engineered circuits featuring optimal flow and directional control valve combinations.

A natural extension of our existing hydraulic cartridge valve and electro-hydraulic control product line, the INTEGR8 system features more than 40 directional and flow control options. Each option provides optimally paired hydraulic cartridge valves packaged in a common hydraulic control scheme.

The valves are compatibly sized and configured to handle a range of flow rates up to 140 gpm/530 lpm and operating pressures up to 6090 psi/420 bar. By way of our manifold design software, i-Design, each option can then be easily integrated into a hydraulic circuit, which accelerates the design process.

INTEGR8 is suitable for application in a large range of equipment serving the agriculture and off-highway mobile machinery market, enabling you to arrive at a proven, more reliable hydraulic control solution faster.





Get a head start.

Getting started with the INTEGR8 system is easy and intuitive because i-Design now features a built-in library of INTEGR8 schematics to accelerate the design process.

i-Design comes pre-loaded with everything you need to design a hydraulic schematic. In 4 quick steps, you can INTEGR8 your system.

- 1. Start with the function:** Choose flow control or directional control, direct-acting or pilot-operated at hydraforce.com/Integr8.
- 2. Choose the INTEGR8 component:** In the i-Design system, select the INTEGR8 component from the library menu.
- 3. Select your flow rate:** Each INTEGR8 solution is available in multiple flow rates and can be adjusted within a range for the application.
- 4. Fine-tune your circuit:** Customize it by adjusting or adding cartridge valves, specifying seals, and more.

Specifying an INTEGR8 control solution gives you flexibility to choose the flow rate, pressure rating, and control parameters you need for an application.

Begin with the solution at hydraforce.com/Integr8

Initiating your design couldn't be easier with our optimally configured line of control solutions. Ready for download, each INTEGR8 control option has been fully tested to verify functionality. Additionally, all HydraForce cartridge valves are backed by a five-year warranty.



SUGGESTED APPLICATIONS: WHEEL LOADERS, AERIAL LIFTS, BACKHOES, EXCAVATORS, TELEHANDLERS, SKIDSTEERS, HARVESTERS AND OTHER OFF-HIGHWAY EQUIPMENT

