Larger 8mm spool, so 77% more of the input goes to modulation

Integrated plunger dampening for smooth pedal actuation

More durable, two X-ring seal construction for durability

Flat-top plunger ensures no side loads and no seal wear

QP Hydraulics is a division of Prince Industries, Inc. – and we put Prince’s six decades of experience in manufacturing into everything we make for OEMs. This can help you design and precision-build mobile equipment that’s easier for operators to use. We make it possible to manufacture equipment that delivers high response and requires less effort.

QP Hydraulics USA
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Carol Stream, IL 60188
1-630-510-5737

QP Hydraulics
No. 485 Xinrun Rd., Xinqiao Tn.
Songjiang District
201612 Shanghai China
+86-21-5108-2600

CUSTOM SOLUTIONS THAT MAKE THE JOB EASIER

Give users the feel and flexibility of the hydraulic joysticks they’re used to, along with programmable response curves, CANBUS connectivity and analog output (0-5V). JSE Electronic Joysticks are the only ones on the market to offer multiple operator-selectable performance curves on the joystick itself. And they have a great price point as well.

JSE ELECTRONIC JOYSTICKS

Design more efficient systems with the future of check valves. CV-D allows you the flexibility to insert them anywhere in the system, including within a hose or manifold cavity. They also allow for one of the lowest pressure drops you can get in a check valve – and at a much lower price, too.

CV-D CHECK VALVES

Provide a better user experience – for every user

QP HYDRAULICS JOYSTICKS, FOOT PEDALS AND VALVES
QPHYDRAULICS.COM

Up to 30 lpm of low-requiring up to 50% less effort than competitors’ joysticks – while maintaining precision hysterisis with quick response

ELECTRONIC

Maintains the look and efforts of our hydraulic joysticks only without the hoses. Available with analog (0-5V) and digital (CANBUS) outputs.

HERE IS WHAT OUR PRODUCTS CAN DO FOR YOU:

JOYSTICKS

FOOT PEDALS

LOW-MASS CHECK VALVES

Provides 5-10 times the flow of comparable valves

HIGH-FLOW PROPORTIONAL CARTRIDGE VALVES

Designed for greater stability that is shock-free

Reduces parasitic losses

Available in standard poppet style or our patented disc style, the CV-D Check Valve

LOW-MASS CHECK VALVES

PROVIDE A BETTER USER EXPERIENCE – FOR EVERY USER

TALK TO OUR ENGINEERS ABOUT WHAT QP HYDRAULICS CAN CUSTOM BUILD FOR YOU.
SEND AN EMAIL TO SALES@QPHYDRAULICS.COM OR CALL 1-630-510-5737.
**JP Hydraulics** is a division of Prince Industries, Inc. – and we put Prince’s six decades of experience in manufacturing into everything we make for OEMs. This can help you design and precision-build mobile equipment that’s easier for operators to use. We make it possible to manufacture equipment that delivers high response and requires less effort.

---

**HERE IS WHAT OUR PRODUCTS CAN DO FOR YOU:**

**JOYSTICKS**
- Variable, up to 30 lpm of flow – requiring up to 50% less effort than competitors!
- Accuracy – while maintaining precision response with quick response.
- Foot Pedals
  - Larger than quad, 77% more of the input goes to modulation
  - Integrated plunger dampening for smooth pedal actuation
  - More durable, two X-ring seal construction for durability
  - Flat-topped plunger ensures no side loads and no seal wear

**LOW-MASS CHECK VALVES**
- Designed for greater stability that is shock-free
- Reduces parasitic losses
- Available in standard poppet style or valve protected in a style, the CV-D Shock Valve

**HIGH-FLOW PROPORTIONAL CARTRIDGE VALVES**
- Provides 5-10 times the flow of comparable valves
- The patented design and Step-Bore Technology™ means no other product is comparable

---

GIVE GREATER CONTROL TO YOUR CUSTOMERS

JP Hydraulics is a division of Prince Industries, Inc. – and we put Prince’s six decades of experience in manufacturing into everything we make for OEMs. This can help you design and precision-build mobile equipment that’s easier for operators to use. We make it possible to manufacture equipment that delivers high response and requires less effort.

---

TALK TO OUR ENGINEERS ABOUT WHAT JP HYDRAULICS CAN CUSTOM BUILD FOR YOU.

SEND AN EMAIL TO SALES@QPHYDRAULICS.COM OR CALL 1-830-510-0727.
Larger 8mm spool, so 77% more of the input goes to modulation

Integrated plunger dampening for smooth pedal actuation

More durable, two X-ring seal construction for durability

Flat-top plunger ensures no side loads and no seal wear

JSE ELECTRONIC JOYSTICKS

Give users the feel and flexibility of the hydraulic joystick they’re used to, along with programmable response curves, CANBUS connectivity and analog output (0-5V). JSE Electronic Joysticks are the only ones on the market to offer multiple operator-selectable performance curves on the joystick itself. And they have a great price point as well.

CV-D CHECK VALVES

Design more efficient systems with the future of check valves. CV-D allows you the flexibility to insert them anywhere in the system, including within a hose or manifold cavity. They also allow for one of the lowest pressure drops you can get in a check valve – and at a much lower price, too.

HERE IS WHAT OUR PRODUCTS CAN DO FOR YOU:

- **JOYSTICKS**
  - Designed for greater stability that is shock-free
  - Reduces parasitic losses

- **FOOT PEDALS**
  - Available in standard poppet style or our patented disc style, the CV-D Check Valve

- **LOW-MASS CHECK VALVES**
  - Provides 5-10 times the flow of comparable valves

- **HIGH-FLOW PROPORTIONAL CARTRIDGE VALVES**
  - Our patented design and Steep Bore Technology™ means no other product is comparable

TALK TO OUR ENGINEERS ABOUT WHAT QP HYDRAULICS CAN CUSTOM BUILD FOR YOU.

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CRANE AND ROTARY DRILL APPLICATIONS

Until now, crane and rotary drill operators have had to accept that their machines could provide either a higher level of response or require less effort — but not both. We can help you make both possible. Our crane and rotary drill applications deliver:

- 40% smaller than its predecessor
- Multiple handle lengths
- Customizable curves
- Extra dampened spool, so boom and stick lowering are more stable
- Fewer pilot line orifices, increasing the response of each function.
- Flat-top plunger eliminating side loading
- Dust and debris-proof boot design
- Sturdy pedal with all-steel and ductile pivot parts
- 8mm spool, so 77% more of the input goes to modulation
- Integrated plunger dampening
- Two X-ring seal construction
- The thinnest single-lever (22mm) with a cartridge
- Flat-top plunger – eliminating side loading
- Extruded aluminum body
- Available in a wide variety of curves and configurations
- Cost-effective

EXCAVATOR APPLICATIONS

Regardless of your size constraints, QP Hydraulics' Excavator Set has a solution that fits with — and is configurable to — your equipment. Here is what the set is comprised of:

- Low mass response eliminates instability and second order spikes
- Available in -12, -16, -20 and -32 sizes
- Available in standard configurations (SAE, ISO)
- Standard cracking pressures
- High- and low-pressure custom settings available

LOW-MASS CHECK VALVES

It doesn't matter what you need your valves to do, we have the product that allows you to do it. QP Hydraulics low-mass check valves reduce costs and simplify your designs. And because our valve design is patented, you can't get them anywhere else.

WHEEL LOADER APPLICATIONS

For more than 15 years, QP Hydraulics has perfected hydraulic joysticks to give wheel loader operators greater control and stability. Trust in our products so you can deliver the versatility and functionality customers want.

- Low efforts and precision control
- Cartridges with steel cages and spools
- Bias spring and plunger dampening, providing greater stability
- Flat-top plunger – eliminating side loading
- Dust and debris-proof boot design
- Low weight
- Easy installation
- Multiple options of handles, buttons and switches
- Flexible design for different configurations

JSC446

JS446 CRANE/RD SET

SL25

FP48

Low efforts and precision control

- Cartridges with steel cages and spools
- Bias spring and plunger dampening, providing greater stability
- Flat-top plunger – eliminating side loading
- Dust and debris-proof boot design
- Low weight
- Easy installation
- Multiple options of handles, buttons and switches
- Flexible design for different configurations

WHEEL LOADER SL246-WL SET

Patented Hi/Lo Bumper design that provides higher initial loading, more forewarning feel and better hold coil latching. Not available from any other manufacturer.

Aggressive loader timing

- Bias spring on spool – spool and plunger dampening for greater stability and quieter operation
- Flat-top plunger – eliminating side loading
- Dust- and debris-proof boot design
- Compact and low weight
- Mechanical detents available
- Easily configurable mounting plates
- Extruded aluminum body (steel bodies available)
- Available in a wide variety of curves and configurations

WHEEL LOADER JS446-WL SET
**EXCAVATOR APPLICATIONS**

Regardless of your size constraints, QP Hydraulics’ Excavator Set has a solution that fits with—and is configurable to—your equipment. Here is what the set is comprised of:

- **JS446**
  - 40% smaller than its predecessor
  - Multiple handle lengths
  - Customizable curves
  - Extra dampered spool, so boom and stick lowering are more stable
  - Power glide free surface, increasing the response of each function.
  - Flat-top plunger—eliminating side loading
  - Dust and debris-proof boot design

- **FP48**
  - Sturdy pedal with all-steel and ductile pivot parts
  - 8mm spool, so 77% more of the input goes to modulation
  - Integrated plunger dampening
  - Two X-ring seal construction

- **SL25**
  - The thinnest single-lever (22mm) with a cartridge
  - Flat-top plunger—eliminating side loading
  - Dust and debris-proof boot design

**LOW-MASS CHECKValVES**

It doesn’t matter what you need your valves to do, we have the product that allows you to do it. QP Hydraulics low-mass check valves reduce costs and simplify your designs. And because our valve design is patented, you can’t get them anywhere else.

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- **HIGH-FLOW PROPORTIONAL CARTRIDGE VALVES**
  - JSC446
  - JS446 CRANE/RD SET
  - SL25
  - FP48
  - Low efforts and precision control
  - Cartridges with steel cages and spools
  - Bias spring and plunger dampening, providing greater stability
  - Flat-top plunger—eliminating side loading
  - Dust and debris-proof boot design
  - Low weight
  - Easy installation
  - Multiple options of handles, buttons and switches
  - Flexible design for different configurations

- **SL246-WL SET**
  - Patented Hi/Lo Bumper design that provides higher initial loading, more forewarning feel and better hold coil latching.
  - Not available from any other manufacturer.
  - Aggressive loader timing
  - Bias spring on spool—spool and plunger dampening for greater stability and quieter operation
  - Flat-top plunger—eliminating side loading
  - Dust- and debris-proof boot design
  - Compact and low weight
  - Mechanical detents available
  - Easily configurable mounting plates
  - Extruded aluminum body (steel bodies available)
  - Available in a wide variety of curves and configurations

- **JS446-WL SET**
  - Single-lever version of the JS446-WL above
  - Stackable, with single supply and return connections
  - High-pressure float sequence valve
  - Sequence valves available with 2- or 3-way logic
  - Easily configurable mounting plates
  - Extruded aluminum body (steel bodies available)
  - Available in a wide variety of curves and configurations
WHEEL LOADER APPLICATIONS

For more than 15 years, QP Hydraulics has perfomed hydraulic joysticks to give wheel loader operators greater control and stability. Trust in our products to help you deliver the versatility and functionality customers want.

- **Low mass response eliminates instability and second order spikes**
- **Available in -12, -16, -20 and -32 sizes**
- **Available in standard configurations (SAE, ISO)**
- **Standard cracking pressures**
- **High- and low-pressure custom settings available**

LOW-MASS CHECK VALVES

It doesn’t matter what you need your valves to do, we have the product that allows you to do it. QP Hydraulics low-mass check valves reduce costs and simplify your designs. And because our valve design is patented, you can’t get them anywhere else.

- **Patented Hi/Lo Bumper design that provides higher initial loading, more lowering feel and better hold on latching**
- **Not available from any other manufacturer**
- **Aggressive lever shaping**
- **Flat spring on spool – spool and plunger damping for greater stability and quieter operation**
- **Flat-top plungers – eliminating side loading**
- **Two- and triple-rod boot design**
- **Compact and low weight**
- **Mechanical detents available**
- **Stackable, with single supply and return connections**
- **High-pressure float sequence valve**
- **Sequence valves available with 2- or 3-way logic**
- **Ductile cast iron available**
- **Available in a wide variety of curves and configurations**

WHEEL LOADER JS446-WL SET

- Single-lever version of the JS446-WL above
- Stackable, with single supply and return connections
- High-pressure float sequence valve
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- Available in a wide variety of curves and configurations

- **Extruded aluminum body (steel bodies available)**
- **Easily configurable mounting plates**
- **Patented Hi/Lo Bumper design that provides higher initial loading, more lowering feel and better hold on latching**
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- **Two- and triple-rod boot design**
- **Compact and low weight**
- **Mechanical detents available**
- **Stackable, with single supply and return connections**
- **High-pressure float sequence valve**
- **Sequence valves available with 2- or 3-way logic**
- **Ductile cast iron available**
- **Available in a wide variety of curves and configurations**
40% smaller than its predecessor
Multiple handle lengths
Customizable curves
Extra dampened spool, so boom and stick lowering are more stable
Fewer pilot line orifices, increasing the response of each function.
Flat-top plunger eliminating side loading
Dust and debris-proof boot design
Sturdy pedal with all-steel and ductile pivot parts
8mm spool, so 77% more of the input goes to modulation
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Two X-ring seal construction
The thinnest single-lever (22mm) with a cartridge
Flat-top plunger – eliminating side loading
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HIGH-FLOW PROPORTIONAL CARTRIDGE VALVES
JSC446JS446 CRANE/RD SET
- Low efforts and precision control
- Cartridges with steel cages and spools
- Bias spring and plunger dampening, providing greater stability
- Flat-top plunger – eliminating side loading
- Dust and debris-proof boot design
- Low weight
- Easy installation
- Multiple options of handles, buttons and switches
- Flexible design for different configurations
- Single-lever version of the JS446-WL above
- Stackable, with single supply and return connections
- High-pressure float sequence valve
- Sequence valves available with 2- or 3-way logic
- Easily configurable mounting plates
- Extruded aluminum body (steel bodies available)
- Available in a wide variety of curves and configurations

WHEEL LOADER SL246-WL SET
- Patented Hi/Lo Bumper design that provides higher initial loading, more forewarning feel and better hold coil latching. Not available from any other manufacturer.
- Aggressive loader timing
- Bias spring on spool – spool and plunger dampening for greater stability and quieter operation
- Flat-top plunger – eliminating side loading
- Dust- and debris-proof boot design
- Compact and low weight
- Mechanical detents available
- Easily configurable mounting plates
- Extruded aluminum body (steel bodies available)
- Available in a wide variety of curves and configurations
Larger 8mm spool, so 77% more of the input goes to modulation

Integrated plunger dampening for smooth pedal actuation

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BUILD GREAT THINGS WITH THE BEST PRODUCTS

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HIGH-FLOW PROPORTIONAL CARTRIDGE VALVES

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Sales@QPHYDRAULICS.com