Performance Through Precision Control

nimco
hydraulic systems

Product Overview
The Nimco Commitment

Nimco has become a leading manufacturer and supplier of directional control valves, remote control units, and system integration software in the mobile industry by our uncompromising commitment to quality, state of the art technology and our strong focus on our customers requirements combined with our prompt and responsive customer service level.

This commitment has been the foundation for our remarkable growth over the last twenty years and provides us with the incentive to actively take on the challenges our industry faces in the future.

For our customers, it means that whether it concerns new product development or the production of a single component, each and every step reflects our employees and our company’s dedication to making every Nimco directional control valve, remote control unit or customized software design for system integration the very best available.

Our commitment to our customers starts with the development and testing that is put in to each and every product to guarantee stable and reliable performance throughout its entire application.

The close interaction with our customers during the entire development process assures that every aspect of each product application is accounted for and gives our research and development staff the feedback to develop the products of the future.

Over the years, this has enabled us to build a broad product range, reaching from traditional open center directional control valves to load sensing pressure compensated control valves which are further optimized by our PC based software integrated in our electrical proportional remote control units.

The foundation of production adapted designs with high performance machine tools and the testing of every product that is delivered assures that every machine equipped with a Nimco directional control valve and remote control unit delivers solid performance.

This is the Nimco Commitment to our customers today and in the future.
**TECHNICAL DATA**

**ZERO LEAKAGE**

Nimco Controls offers the markets lowest leakage rates for Directional Spool Control Valves. With special design concepts and manufacturing methods, which have been constantly improved are we able to offer our customers as low as 1 cc/min at 46 cSt leakage rates for certain products and an average of less than 2 cc/min leakage rates for larger valves.

The advantage of low leakage rates over the spool is that the load does not drift when the spool is in neutral position. Leakage rates as low as 1 cc/min allow customers to avoid using costly over center valves even for applications like support leg functions.

Nimco Controls is synonymous with low leakage directional control valves.

**PRECISION LOAD CONTROL**

One of the key performance factors in any machine is how well the load is controlled. The machine operators can perform more work in a safer way if they are operating a machine with a well designed Directional Control Valve.

A machines quality and reputation is often measured on how well the load is controlled at different stages of the load moving cycle and at different speeds. This requires the valve not only to control the load well when in a single step operation but how well the valve performs when multiple functions are activated at the same time. This holds true for both Open Center and Load Sensing valves.

Nimco Controls offers valves which can be tailored to each machines specific function and through our special spool design software, we can tailor every function to perform at the optimized speed and with a positive influence of all other functions.

Our Open Center valves are designed to take advantage of the full stroke of the valve and to have the same performance of each function even at largely different load weights. Our Post Compensated Load Sensing valves will offer superior load control with its unique design where each spool has two compensators allowing customization of both the pressure and flow.

**PRODUCTIVITY AND ENERGY SAVINGS**

With energy prices continuing to climb and resources becoming more scarce Nimco Controls focuses on offering our customers components which will contribute to lower energy consumption.

Our target is to assist our customers and their customers to save money by consuming less fuel in their daily operation at the same or higher output levels.

Our target is to increase our customer’s productivity.

Nimco Controls Open Center Valves are all designed to minimize pressure drop and to contribute to an overall efficient system performance. Valve designs are optimized to give excellent load control in combination with optimum energy usage.

Our LS Pressure Compensated Valves are designed to only make use of the flow and pressure required to work the machine in an optimal way and to do so in integration with our Electrical Control Units and EasyProg Software.

**PRODUCTIVITY AND RELIABILITY**

Nimco Controls has over the years earned the markets highest reputation for quality and reliability. For many machine builders are Nimco Controls components equal to the highest quality the market has to offer in terms of reliability, service life and maintenance.

Our philosophy of only designing with the best materials and a product that we ourselves would want to use have resulted in rough and tough products that will outlast most products available in the market today.

This makes servicing our customers easy and enjoyable!

**PRODUCTIVITY AND CUSTOMIZATION**

At Nimco we believe that the customer needs should be in the forefront of the work we do. In today’s demanding market a company has to be able to master all technologies available and to offer cost efficient solutions and thereby bring the next generation of machines to a higher level.

At Nimco Controls we combine our knowledge of hydraulic valve design, system and application knowledge and electro mechanics into one system and solution that will achieve the best performance for our customers.
Open Center Technology

Nimco offers open center valves with a flow rate up to 180 Lpm and 48 USGPM. We offer all valves with standard spools which have high resolution metering as well as special tailored spools which are specifically designed to meet any machine specific load control needs.

In addition do we offer all our valves with spools that do not have any metering functions at all, but where spools are designed to allow for maximum flow through the valve at the lowest possible pressure drop.

Most of our open center valves can be equipped with secondary valve functions such as relief and anti-cavitation functions and also with electrical unloading valves in the valve inlets.

We offer a wide range of Spool Controls including Hand Levers, Cable, Pneumatic and Hydraulic Controls, as well as Electro Hydraulic on/off or Proportional Controls.

On Demand Load Sensing

Most of Nimco’s open center valves as designed so that they can be ordered in load sensing version which we call “On Demand Load Sensing”. On demand load sensing valves enable the valve to work in a system where a variable displacement pump is the main source of oil and pressure supply.

The on demand load sensing valves will activate the pump when the spool is shifted from neutral position but does not offer individual pressure compensators for the spools.

Another interesting and useful feature on some of these valves is that it is possible to set the maximum flow of any section which cannot be exceeded during any time of operation.

Open Center Directional Control Valves with Pressure Compensated Flow Control Function.

Nimco also offers directional control valve solutions where a spool control valve is combined with a pressure compensated flow control valve and the flow to a function is always prioritized and maintained independently of the operated load. These valves can be connected in series for multifunctional operation of for instance motors applications and in combination with a simple gear pump.

Load Sensing Technology

Nimco offers post compensated flow sharing load sensing valves which has the unique feature of having two compensators for each spool, thus better load control and welcome cost savings for the machine builder. For application where no flow sharing is needed are uncompensated sections available.

Inlet functions for fixed and variable displacement pumps with electrical off loading valves and HPCO (Power Beyond) functions are available as standard as well as special high flow inlets where a LS compensated spool eliminates the pressure drop between the pump and the valve.

Another unique feature with the Nimco LS valves is that by having two compensators for each spool, it is possible to equip the valves with LS pressure relief valves for each cylinder port and thereby limit the internal pump pressure to be exceeded without consuming any pump flow.

Other standard equipments for the Nimco LS valves are: Manual override hand levers with integrated stroke limiters and secondary relief valves with integrated anti cavitation functions.

Spool controls options range from manual controls to hydraulic and EHP controls.

System Integration Solutions

In order to use these products to its fullest potential does Nimco offer a system integration software named EasyProg which offers a user friendly PC environment and allows the machine builder to program, revise and maintain all components integrated in the system.

Nimco offers a complete range of control units, driver boxes and sensors to make system programming and machine installation fast and easy with the highest accuracy.

Servicing any machine with a Nimco system is easy as remote control GSM units are available as standard to monitor, diagnose and reprogram machines in the field.
This is the Nimco Commitment to our customers today and in the future.

Nimco has become a leading manufacturer and supplier of directional control valves, remote control units and custom software solutions for the mobile industry. Our commitment to quality, state-of-the-art technology and responsive customer service level has been the foundation for our remarkable growth over the last twenty years and continues to provide us with the incentive to actively take on the challenges our industry faces in the future.

Every product that is delivered assures that every machine equipped with a Nimco directional control valve, remote control unit or customized software design for system integration delivers solid performance.

This close interaction with our customers during the entire development process assures that every aspect of the product to guarantee stable and reliable performance throughout its entire application.

For our customers, it means that whether it concerns new product development or the production of a single component, each and every step reflects our employees and our company’s dedication to making every aspect of the product the very best available.

Over the years, this has enabled us to build a broad product range, reaching from traditional open center technology and load sensing technology to electro-hydraulic proportional controls.
The Nimco Commitment

Technical Data

Open Center Technology
Load Sensing Technology
Electro-Hydraulic Proportional Controls

Electro-Hydraulic Proportional Controls
- EPC 700
- EDB 8-64
- EASYPROG
- FCV
- CV691
- CV791

Design
- Joystick 2-Axis
- Driver Box 4+4 PWM output
- Programming software to control our Electro-Hydraulic Systems.
- Directional Control Valve with integrated Pressure Compensated Flow Control Valve

Languages
- English
- German
- Swedish

PC Compatible

Power Supply / Output Signal
- 10-30 VDC / 4-20 mA
- 4.5-5.5 VDC / 0.5-5.5 VDC
- 10-30 VDC / 0.5-4.5 mA

Power Supply / Output Signal
- 10-30 VDC / 4-20 mA
- 4.5-5.5 VDC / 0.5-5.5 mA
- 10-30 VDC / 0.5-4.5 mA

Can Protocol
- 2.0 B

Current Feedback
- 100-1800 mA

Chopper Frequency
- 30/200 Hz

Max Pressure
- 320 bar
- 4600 psi

Flow Range
- 110 or 130 Lpm
- 29 or 34 USGpm

Flow Range
- 110 or 130 Lpm
- 29 or 34 USGpm

Port Sizes
- BSP 3/4”
- SAE 12

Port Sizes
- BSP 3/4”
- SAE 12

Circuits
- Open Center

Circuits
- Open Center

Controls
- Handlever

Controls
- Handlever

Accessories
- HPCO - Power Beyond
- Pressure Cut OFF valve

Accessories
- HPCO - Power Beyond
- Extra Main Relief Valve
- Pressure Cut OFF valve

Left and right version
- 6 Push Buttons

Over the years, this has enabled us to build a broad product range, reaching from traditional open center directional control valves to load sensing pressure compensated control valves which are further optimized by our PC based software integrated in our electrical proportional remote control units. The close interaction with our customers during the entire development process assures that every aspect of the product to guarantee stable and reliable performance throughout its entire application. Nimco directional control valve, remote control unit or customized software design for system integration component, each and every step reflects our employees and our company's dedication to making every product to very best available. This commitment has been the foundation for our remarkable growth over the last twenty years and provides us with the incentive to actively take on the challenges our industry faces in the future. Nimco has become a leading manufacturer and supplier of directional control valves, remote control units and responsive customer service level.
<table>
<thead>
<tr>
<th>Design</th>
<th>Flow Range</th>
<th>Max Pressure</th>
<th>Port Sizes</th>
<th>Circuits</th>
<th>Controls</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monoblock</td>
<td>up to 80 Lpm</td>
<td>320 bar</td>
<td>BSP 3/8&quot;</td>
<td>Open Center</td>
<td>EHP</td>
<td>HPCO - Power Beyond</td>
</tr>
<tr>
<td>Monoblock</td>
<td>up to 50 Lpm</td>
<td>4600 psi</td>
<td>SAE 6</td>
<td>LS on Demand</td>
<td>Pneumatic</td>
<td>Zero Leak Spool</td>
</tr>
</tbody>
</table>

For our customers, it means that whether it concerns new product development or the production of a single component, each and every step reflects our employees and our company's dedication to making every aspect of the art technology and our strong focus on our customers' requirements combined with our prompt and responsive customer service level.

Over the years, this has enabled us to build a broad product range, reaching from traditional open center directional control valves to load sensing pressure compensated control valves which are further optimized by our PC-based software integrated in our electrical proportional remote control units.

The close interaction with our customers during the entire development process assures that every aspect of each product application is accounted for and gives our research and development staff the feedback to provide us with the incentive to actively take on the challenges our industry faces in the future.

Nimco has become a leading manufacturer and supplier of directional control valves, remote control units and system integration software in the mobile industry by our uncompromising commitment to quality, state-of-the-art technology and our strong focus on our customers' requirements combined with our prompt and responsive customer service level.

This is the Nimco Commitment to our customers today and in the future.
<table>
<thead>
<tr>
<th>Design</th>
<th>Manual Pneumatic Control Unit</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Max Pressure</td>
<td>10 bar</td>
<td>145 psi</td>
</tr>
<tr>
<td>Control Pressure</td>
<td>0-7 bar</td>
<td>0-100 psi</td>
</tr>
<tr>
<td>Options</td>
<td>Spring Centering</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Detent in middle position</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Detent in middle and one end position</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Detent in both end positions</td>
<td></td>
</tr>
<tr>
<td>Number of Switch available</td>
<td>2 position electrical switch</td>
<td>3 position electrical switch</td>
</tr>
<tr>
<td></td>
<td>Heater IP67</td>
<td></td>
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</tbody>
</table>

<table>
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<tr>
<th>Design</th>
<th>Stackable 6/2 and 8/2 valve</th>
<th>Stackable up to 3 valve sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Range</td>
<td>up to 90 Lpm</td>
<td>up to 90 Lpm</td>
</tr>
<tr>
<td></td>
<td>up to 24 USGpm</td>
<td>up to 40 USGpm</td>
</tr>
<tr>
<td>Max Pressure</td>
<td>280 bar</td>
<td>270 bar</td>
</tr>
<tr>
<td></td>
<td>4100 psi</td>
<td>3800 psi</td>
</tr>
<tr>
<td>Port Sizes</td>
<td>BSP 3/8” - BSP 1/2”</td>
<td>BSP 1/2”</td>
</tr>
<tr>
<td></td>
<td>SAE 6 SAE 8</td>
<td>SAE 10</td>
</tr>
<tr>
<td>Controls</td>
<td>Direct Acting Solenoid</td>
<td>Hand Lever</td>
</tr>
<tr>
<td></td>
<td>Hand Lever</td>
<td>Pneumatic ON/OFF</td>
</tr>
<tr>
<td></td>
<td>Pneumatic with 12 or 24 VDC</td>
<td>Cam operated</td>
</tr>
<tr>
<td></td>
<td>Tilt Lever</td>
<td></td>
</tr>
<tr>
<td>Accessories</td>
<td>Cross-Over Relief Valves</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Manual or Electrical Activation of the Accumulator</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electrical Tool Locking Valve</td>
<td></td>
</tr>
<tr>
<td>Electrical Activation</td>
<td>12 or 24 VDC</td>
<td></td>
</tr>
<tr>
<td>Connector Options</td>
<td>DIN 43650/ISO4400</td>
<td></td>
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HPCO - Power Beyond
Accessories
Cables
EHP
Mechanical Joystick
Electro Hydraulic

CV112
CV152
CV432 & CV432S
CV452
CV652
EPCV652

Design
Monoblock
2 sections

Flow Range
up to 50 Lpm
up to 13 USGpm

Max Pressure
320 bar
4600 psi

Port Sizes
BSP 3/8”
SAE 6

Circuits
Open Center
LS on Demand

Controls
EHP
Cables
Hand Lever
Mechanical Joystick

Accessories
HPCO - Power Beyond
Quick Coupler Unit

Design
Monoblock
2 sections

Flow Range
up to 70 Lpm
up to 18 USGpm

Max Pressure
320 bar
4600 psi

Port Sizes
BSP 3/8” - BSP 1/2”
SAE 8 - SAE 10

Circuits
Open Center
LS on Demand

Controls
Direct Acting Joystick with Locking Mechanism
Cables
Hand Lever

Accessories
HPCO - Power Beyond
Quick Coupler Unit

Design
Monoblock
2 sections

Flow Range
up to 100 Lpm for O/C version
up to 26 USGpm for O/C version
up to 70 Lpm for Series Version
up to 18 USGpm for Series Version

Max Pressure
320 bar
4600 psi

Port Sizes
BSP 1/2”
SAE 8 - SAE 10

Circuits
Open Center
LS on Demand

Controls
Manual
Cable
Hand Lever
Mechanical Joystick

Accessories
HPCO - Power Beyond
Antichock Valves
Anticavitation Valves
Quick Coupler Unit

Design
Monoblock
2 sections

Flow Range
up to 110 Lpm
up to 29 USGpm

Max Pressure
320 bar
4600 psi

Port Sizes
BSP 1/2”
SAE 8 - SAE 10

Circuits
Open Center
LS on Demand

Controls
Direct Acting Joystick with Locking Mechanism
Cables
Hand Lever

Accessories
HPCO - Power Beyond
Antichock Valves
Anticavitation Valves
Quick Coupler Unit

Design
Monoblock
2 sections

Flow Range
up to 120 Lpm
up to 32 USGpm

Max Pressure
320 bar
4600 psi

Port Sizes
BSP 1/2”
SAE 8 - SAE 10

Circuits
Open Center
LS on Demand

Controls
EHP
Cables
Hand Lever
Mechanical Joystick

Accessories
HPCO - Power Beyond
Antichock Valves
Anticavitation Valves
Quick Coupler Unit

Design
Monoblock
2 sections

Flow Range
up 18 USGpm
up 70 Lpm

Max Pressure
4600 psi

Port Sizes
BSP 3/8”
SAE 8 - SAE 10

Circuits
Open Center
LS on Demand

Controls
Direct Acting Joystick with Locking Mechanism
Cables
Hand Lever

Accessories
HPCO - Power Beyond
Quick Coupler Unit

Design
Monoblock
2 sections

Flow Range
up 32 USGpm
up 120 Lpm

Max Pressure
4600 psi

Port Sizes
BSP 1/2” - BSP 3/4”
SAE 8 - SAE 10

Circuits
Open Center
Series Circuit

Controls
Manual
Cable
Hand Lever
Mechanical Joystick

Accessories
HPCO - Power Beyond
Antichock Valves
Anticavitation Valves
Quick Coupler Unit

Design
Monoblock
2 sections

Flow Range
up 29 USGpm
up 110 Lpm

Max Pressure
4600 psi

Port Sizes
BSP 1/2”
SAE 8 - SAE 10

Circuits
Open Center
Series Circuit

Controls
Direct Acting Joystick with Locking Mechanism
Cables
Hand Lever

Accessories
HPCO - Power Beyond
Antichock Valves
Anticavitation Valves
Quick Coupler Unit
Design
Relief Valve Cartridges in Aluminium or Steel blocks

Flow Range
Up to 150 Lpm
Up to 40 USGpm

Max Pressure
400 bar
5800 psi

Port Size
BSP 1/2" - BSP 3/4" - BSP 1"

Circuits
End - Line
In - Line
Cross-Over

Options
Fixed or Adjustable Pressure Settings

USA
HFI Fluid Power
1210 Washington Ave
Racine, WI 53403
262-634-5554

Hydrotech
10052 Commerce Park Drive
Cincinnati, OH 45246
513-881-7000

IFP - Cedar Rapids
1610 Blairs Ferry Rd, N Cedar Rapids, IA 52402
319-395-7000

IFP - North
9320 Evergreen Blvd
Suite A
Minneapolis, MN 55433
651-252-1181

IFP - Texas
2517 Fairway Park Drive
Houston, TX 77092
800-437-4595

Options
Fixed or Adjustable Pressure Settings

Distributors
HFI Fluid Power
Racine, WI 53403
262-634-5554

Hydrotech
Cincinnati, OH 45246
513-881-7000

IFP - Kansas (West)
Olathe, KS 66062
913-768-7008

IFP - Cedar Rapids (Iowa Fluid Power)
Iowa -319-395-7000

IFP - Minnesota - North
Coon Rapids, MN 763-252-1181

IFP - Texas
Houston, TX 77092
713-360-3600

IFP - West
1900 A West 158th St.
Olathe, KS 66062
913-768-7008

IFP Automation
Fort Wayne, IN 46893
260-489-4575

IFP - Texas
Houston, TX 77092
713-360-3600

IPF - Arizona
Arizona

IPF - California
California

IPF - Iowa
Iowa

IPF - Kansas
Kansas

IPF - Louisiana
Mississippi

IPF - Michigan
Oklahoma

IPF - Missouri
Texas

IPF - North Carolina
Utah

IPF - South Carolina

IPF - Tennessee

IPF - Texas

IPF - West

Integrated Automation
Easley, SC 29640
864-220-9888

Integrated Automation
Easley, SC 29640
864-220-9888

Integrated Automation
Fort Wayne, IN 46898
260-489-4575

LaDuke & Fogle Equipment
635 Hwy. 395 South
Colville, WA 99114
509-684-2575

Oil-Air Products
295 Hwy 55
Hamel, MN 55340
763-478-8744

P.R.C.
337 Perry Road
Bangor, ME 04401
800-840-4411

Standard Source
1 Cody Street
Webster, MA 01570
508-949-0308

LaDuke & Fogle Equipment
Colville, WA 99114
509-684-2575

Idaho

Indiana

New Hampshire

New Jersey

Ohio

Pennsylvania

Rhode Island

Vermont

LaDuke & Fogle Equipment
Colville, WA 99114
509-684-2575

North Dakota

Rhode Island

Texas

U.S.A.

West Virginia

Wyoming

Ifp - Florida

Georgia

Kentucky

North Carolina

South Carolina

Tennessee

Virginia

Arkansas

California

Florida

Georgia

Georgi

Kentucky

North Carolina

South Carolina

Tenessees

Virginia

West Virginia

USA

IFP - Cedar Rapids
1610 Blairs Ferry Rd, N Cedar Rapids, IA 52402
319-395-7000

IFP - North
9320 Evergreen Blvd
Suite A
Minneapolis, MN 55433
763-252-1181

IFP - Texas
2517 Fairway Park Drive
Houston, TX 77092
800-437-4595

Design Type
Direct Acting
Pilot Acting

Options
Fixed or Adjustable Pressure Settings

USA

HFI Fluid Power
1210 Washington Ave
Racine, WI 53403
262-634-5554

Hydrotech
10052 Commerce Park Drive
Cincinnati, OH 45246
513-881-7000

IFP - Cedar Rapids
1610 Blairs Ferry Rd, N Cedar Rapids, IA 52402
319-395-7000

IFP - North
9320 Evergreen Blvd
Suite A
Minneapolis, MN 55433
763-252-1181

IFP - Texas
2517 Fairway Park Drive
Houston, TX 77092
800-437-4595

Design
Relief, Relief-Anticavitation and Pressure Reducing Valves of Cartridge type