

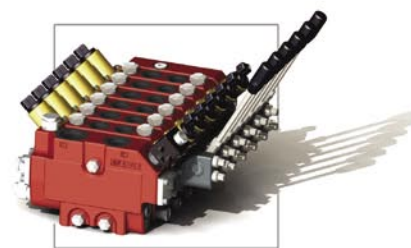
[www.nimco-controls.com](http://www.nimco-controls.com)

# Product Overview



**nimco**  
hydraulic systems

# performance through precision control



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## 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 each and every product to guarantee the 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 product in the future.

Over the years, this has enabled us to build a broad product range, reaching from traditional open center 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 our 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

### 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.

The quality and reputation of a machine 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 also 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 machine 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 valve 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.

### ZERO LEAKAGE

Nimco Controls offers the lowest leakage rates of the market 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 in the neutral position. Leakage rates as low as 1cc/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.

## 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 highest reputation for quality and reliability in the market. For many machine builders Nimco Controls components are 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 has resulted in rough and tough products that will outlast most products 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 our 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 function 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 anticavitation functions and also 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

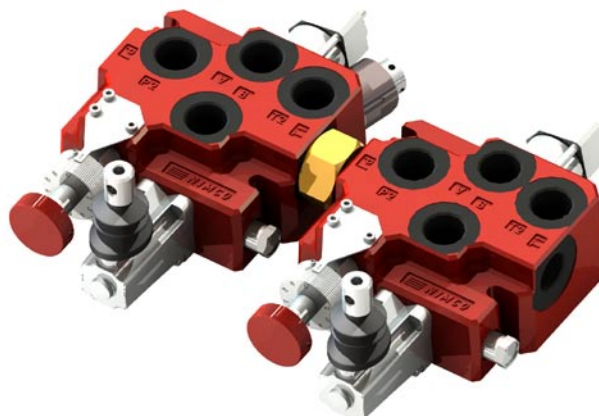
Most of Nimco's open center valves are designed so that they can be ordered in load sensing version which we call "On Demand Load Sensing". On demand load sensing valves enable the valve to work in a system where a variable displacement pump is the main source of oil and pressure supply.

The on demand load sensing valves will activate the pump when the spool is shifted from neutral position but does not offer individual pressure compensator 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 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 applications where no flow sharing is needed uncompensated sections are 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 flows 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.

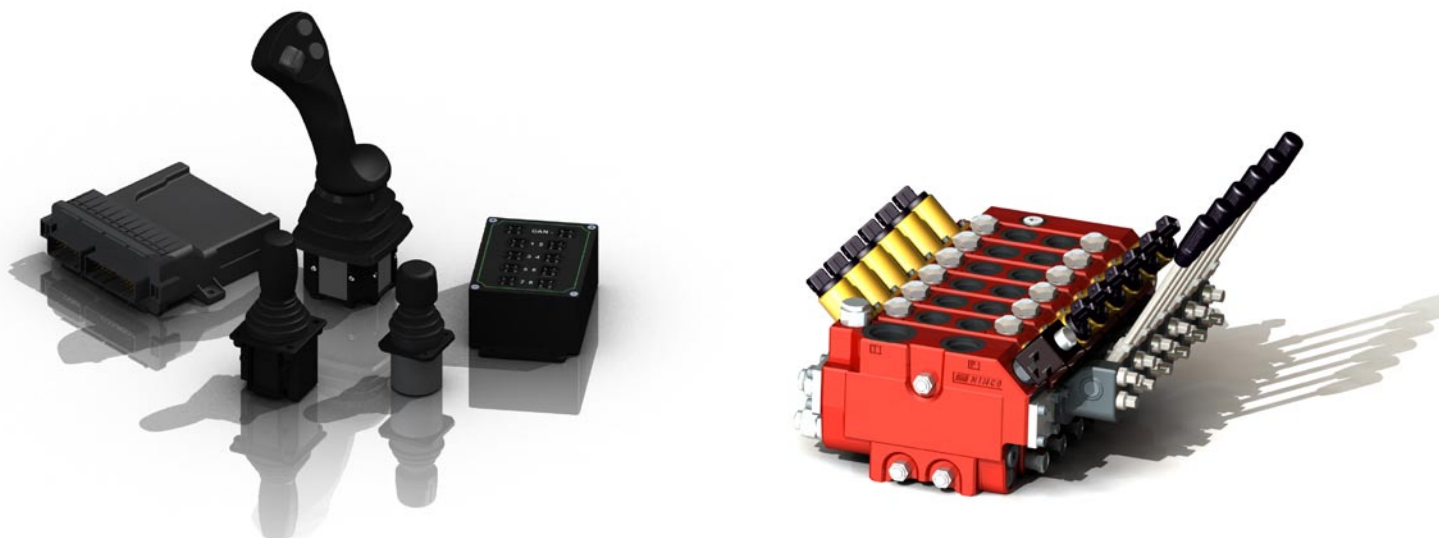
Spool controls options range from manual controls to hydraulic and EHP controls.

## SYSTEM INTEGRATED SOLUTIONS

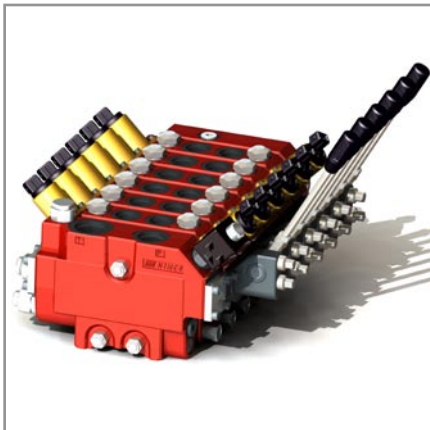
In order to use our products to their fullest potential Nimco offers system integration software named Easyprog. EasyProg offers a user friendly PC environment and allows the machine builder to program, revise and maintain all components integrated in the system.

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.



## CV2000LS

**Design**

Stackable  
Up to 10 sections

**Flow range**

Standard Inlet 140 Lpm  
Standard Inlet 37 USGpm  
Mid Inlet 250 Lpm  
Mid Inlet 66 USGpm  
Section up to 125 Lpm  
Section up to 34 USGpm

**Max Pressure**

350 bar  
5100 psi

**Port sizes**

BSP 1/2"  
SAE 8 - SAE 10

**Circuits**

LS Post Compensated  
Fixed and Variable Pump

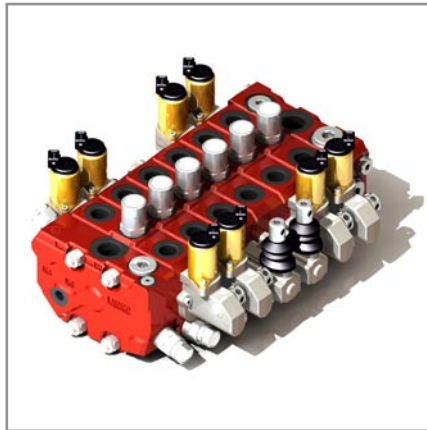
**Controls**

Hand Lever  
Cables  
Hydraulic  
EHP with Manual Override

**Accessories**

Port Pressure Limiters  
Electrical OFF Loading Valve  
Service Port Relief Valves  
Anticavitation Valves  
HPCO – Power Beyond  
Spool Stroke Limiters  
Compensated Unloading Port (CU)

## CV3000

**Design**

Stackable  
Up to 10 sections

**Flow range\***

Up to 80 Lpm (Standard)  
Up to 21 USGpm (Standard)  
Up to 150 Lpm (Bypass Inlet)  
Up to 39 USGpm (Bypass Inlet)

**Max Pressure**

350 bar  
5100 psi

**Port sizes**

BSP 1/2"  
SAE 10 - SAE 12

**Circuits**

Open Center  
Closed Center

**Controls**

Hand Lever  
Mechanical Joystick  
Cables  
Pneumatic  
Hydraulic  
EHP with Manual Override

**Accessories**

HPCO – Power Beyond  
Service Port Relief Valves  
Anticavitation Valves  
Electrical OFF loading valve

\*possibility of setting a fixed flow on each section

## CV110EHP

**Design**

Monoblock  
From 1 to 6 sections

**Flow range**

Up to 50 Lpm  
Up to 13 USGpm

**Max Pressure**

320 bar  
4600 psi

**Port sizes**

BSP 3/8"  
SAE 6 - SAE 8

**Circuits**

Open Center  
Closed Center

**Controls**

Hand Lever  
Mechanical Joystick  
Cables  
Pneumatic  
Hydraulic  
EHP with Manual Override

**Accessories**

HPCO – Power Beyond  
Zero Leak Spools

## EPC 100



### Design

Joystick 1-axis

### Power Supply / Output Signal

10-30 VDC / 4-20 mA  
4,5-5,5 VDC / 0,5-4,5 VDC  
10-30 VDC / 0,5-4,5 VDC

## EPC 300



### Design

Joystick 2-axis

### Power Supply / Output Signal

10-30 VDC / 4-20 mA  
4,5-5,5 VDC / 0,5-4,5 VDC  
10-30 VDC / 0,5-4,5 VDC

### Options

1 or 3 Electrical Push Buttons  
Mechanical Detent

## EPC 350



### Design

Joystick 3-axis

### Power Supply / Output Signal

4,5-5,5 VDC / 0,5-4,5 VDC

## EPC 700

**Design**

Joystick 2-axis  
Heavy Duty

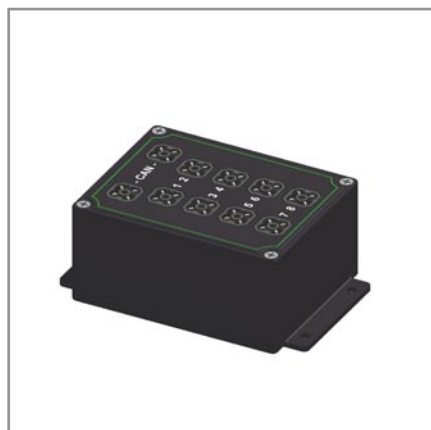
**Power Supply / Output Signal**

10-30 VDC / 4-20 mA  
4,5-5,5 VDC / 0,5-4,5 VDC  
10-30 VDC / 0,5-4,5 VDC

**Handgrip**

Max 3 potentiometers and Max 6  
Push Buttons  
Left and right hand version

## EDB 8-64

**Design**

Driver Box 4+4 PWM output

**Power Supply / Output Signal**

10-30 PWM

**Can Protocol**

2.0 B

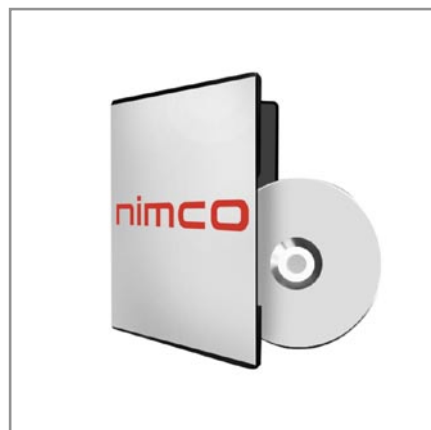
**Current Feedback**

100-1800 mA

**PWM Chopper frequency**

30/200 Hz

## EASYPROG

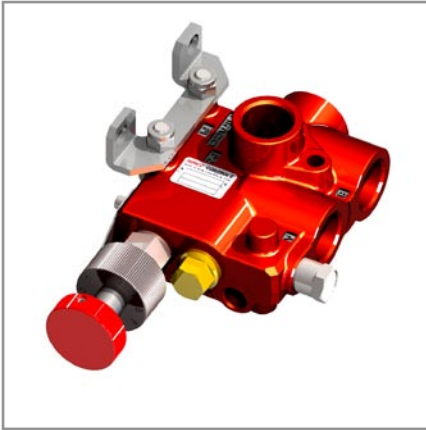
**Design**

Programming software to control  
our Electro-Hydraulic Systems and  
other Systems Components

**Languages**

English  
German  
Swedish

**PC Windows Compatible**



### Design

Pressure Compensated Flow Control Valve

Stackable up to 3 valves

### Flow range

0 to 130 Lpm  
0 to 34 USGpm

### Max Pressure

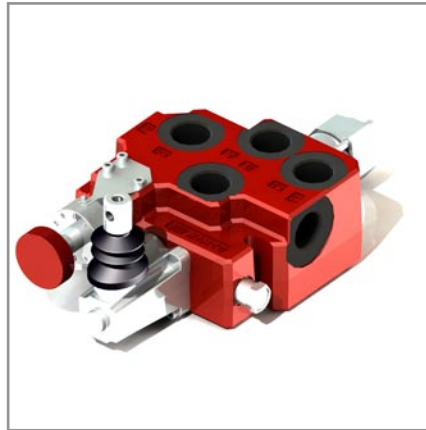
350 bar  
5100 psi

### Port sizes

BSP 1/2" - 3/4"  
SAE 8 - SAE 10 - SAE 12

### Accessories

Electrical Unloading 12/24 VDC  
EHP Control of Flow



### Design

Directional Control Valve with Integrated Pressure Compensated Flow Control Valve

Monoblock version for one spool

### Flow range

0 to 130 Lpm  
0 to 34 USGpm

### Max Pressure

350 bar  
5100 psi

### Port sizes

BSP 3/4"  
SAE 12

### Circuits

Open Center

### Controls

Hand Lever

### Accessories

Pressure Cut OFF valve  
HPCO – Power Beyond



### Design

Directional Control Valve with Integrated Pressure Compensated Flow Control Valve

Monoblock version with HPCO option for two spools

### Flow range

0 to 130 Lpm  
0 to 34 USGpm

### Max Pressure

350 bar  
5100 psi

### Port sizes

BSP 3/4"  
SAE 12

### Circuits

Open Center

### Controls

Hand Lever

### Accessories

Pressure Cut OFF valve  
Extra Main Relief Valve  
HPCO – Power Beyond

## CV110

**Design**

Monoblock  
From 1 to 6 sections with check  
valves in each section

**Flow range**

Up to 50 Lpm  
Up to 13 USGpm

**Max Pressure**

320 bar  
4600 psi

**Port sizes**

BSP 3/8"  
SAE 6 - SAE 8

**Circuits**

Open Center  
Closed Center

**Controls**

Hand Lever  
Mechanical Joystick  
Cables  
Pneumatic  
Hydraulic  
EHP with Manual Override

**Accessories**

Zero Leak Spools  
HPCO – Power Beyond

## CV126

**Design**

Monoblock  
6 sections Special Backhoe Valve

**Flow range**

Up to 50 Lpm  
Up to 13 USGpm

**Max Pressure**

320 bar  
4600 psi

**Port sizes**

BSP 3/8"  
SAE 6 - SAE 8

**Circuits**

Open Center  
Closed Center

**Controls**

Hand Lever  
Mechanical Joystick  
Cables  
Pneumatic  
Hydraulic  
EHP

**Accessories**

Service Port Relief Valves  
Anticavitation Valves  
Zero Leak Spools  
HPCO – Power Beyond

## CV400

**Design**

Monoblock  
From 1 to 4 sections

**Flow range**

Up to 80 Lpm  
Up to 21 USGpm

**Max Pressure**

320 bar  
4600 psi

**Port sizes**

BSP 1/2"  
SAE 8 - SAE 10

**Circuits**

Open Center

**Controls**

Hand Lever  
Mechanical Joystick  
Cables  
Pneumatic  
Hydraulic  
EHP

**Accessories**

Service Port Relief Valves  
Anticavitation Valves  
HPCO – Power Beyond

## CV300



### Design

Monoblock  
Up to 6 sections

### Flow range

Up to 140 Lpm  
Up to 37 USGpm

### Max Pressure

350 bar  
5100 psi

### Port sizes

BSP 3/4"  
SAE 12

### Circuits

Open Center

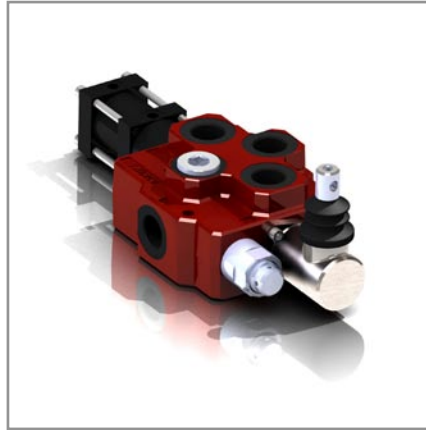
### Controls

Hand Lever  
Mechanical Joystick  
Cables  
Pneumatic  
Hydraulic  
EHP

### Accessories

Service Port Relief Valves  
Anticavitation Valves  
HPCO – Power Beyond

## CV601



### Design

Monoblock  
1 section

### Flow range

Up to 180 Lpm  
Up to 47 USGpm

### Max Pressure

350 bar  
5100 psi

### Port sizes

BSP 3/4"  
SAE 12

### Circuits

Open Center

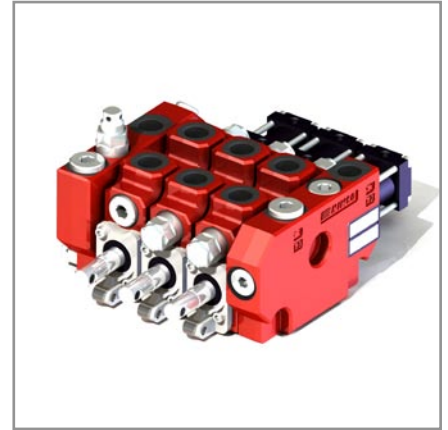
### Controls

Hand Lever  
Mechanical Joystick  
Cables  
Pneumatic  
Hydraulic  
EHP

### Accessories

HPCO – Power Beyond

## CV550



### Design

Stackable  
Up to 10 sections with Mid Inlet sections

### Flow range

Up to 90 Lpm  
Up to 24 USGpm

### Max Pressure

350 bar  
5100 psi

### Port sizes

BSP 1/2"  
SAE 8

### Circuits

Open Center  
Closed Center

### Controls

Hand Lever  
Mechanical Joystick  
Cables  
Pneumatic  
Hydraulic  
EHP

### Accessories

Sections with Load Holding Valves  
Service Port Relief Valves  
Anticavitation Valves  
HPCO – Power Beyond

**WK300****Design**

Mechanical Joystick for Cables  
2-axis or 1-axis  
Mechanical lock

**Max Operating Current of Buttons**

6A

**Options**

Individual Logo

**Number of Switch available**

0-, 1-, 2-, 3- Electrical Push Buttons

**PPC****Design**

Mechanical Pneumatic Control Unit  
Bankable

**Max Pressure**

10 bar

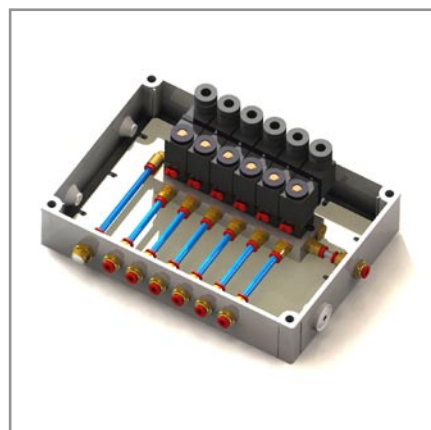
145 psi

**Control Pressure Range**

0-7 bar

**Options**

Spring Centering  
Detent in middle position  
Detent in middle and one end position  
Detent in all 3 positions  
Detent in both end positions  
2 position electrical switch  
3 position electrical switch

**PNEUMATIC BOX****Design**

Electrical Pneumatic box

**No of Solenoid Valves**

2 to 12 valves in each box

**Max Pressure**

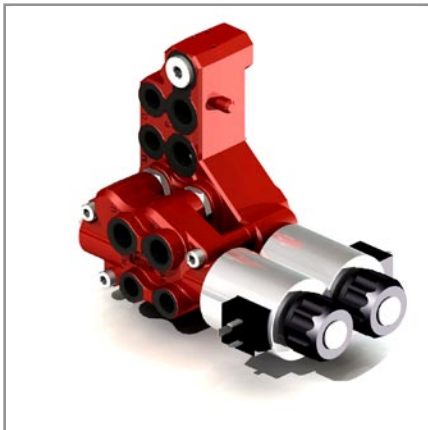
10 bar

145 psi

**Options**

Heater

IP67

**Design**

Stackable 6/2 and 8/2 valve

**Flow range**

Up to 90 Lpm  
Up to 24 USGpm

**Max Pressure**

280 bar  
4100 psi

**Port sizes**

BSP 3/8"  
SAE 6 - SAE 8

**Controls**

Direct Acting Solenoid

**Accessories**

Cross-Over Relief Valves  
Manual or Electrical Activation of Accumulator  
Electrical Tool Locking Valve

**Electrical Activation**

12 VDC or 24 VDC

**Connectors**

DIN 43650/ISO4400

**Design**

2/2 or 3/2 selector valve

**Flow range**

Up to 150 Lpm  
Up to 40 USGpm

**Max Pressure**

320 bar (cast iron version)  
4600 psi (cast iron version)

450 bar (steel body version)  
6500 psi (steel body version)

**Port sizes**

BSP 1/2" - BSP 3/4"  
SAE 10 - SAE 12

**Controls**

Hand Lever  
Pneumatic  
Cam operated  
Tilt lever

**Design**

6/2 Circuit Selector Valve  
Stackable up to 3 valve sections

**Flow range**

Up to 90 Lpm  
Up to 24 USGpm

**Max Pressure**

280 bar  
4100 psi

**Port sizes**

BSP 3/8" - BSP 1/2"  
SAE 8 - SAE 10

**Controls**

Direct Acting Solenoid  
Hand Lever  
Pneumatic

**Electrical Activation**

12 VDC or 24 VDC

**Connectors**

DIN 43650/ISO4400

## CV112

**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 - SAE 8

**Circuits**

Open Center  
Closed Center

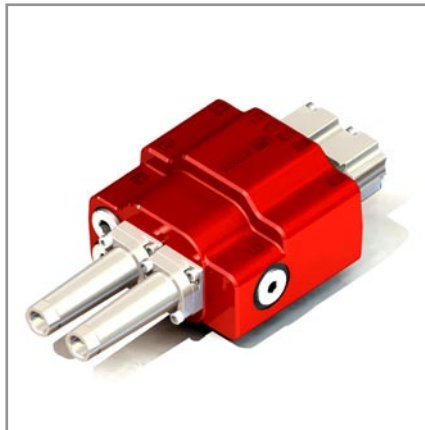
**Controls**

Hand Lever  
Mechanical joystick  
Cables  
EHP

**Accessories**

Locking Mechanism for  
Mechanical Joystick  
HPCO – Power Beyond

## CV152

**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  
Closed Center

**Controls**

Hand Lever  
Mechanical Joystick  
Cables

**Accessories**

Locking Mechanism for  
Mechanical Joystick  
Quick Coupler Unit  
HPCO – Power Beyond

## CV432

**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" - BSP 3/4"  
SAE 8 – SAE 10

**Circuits**

Open Center  
Series Circuit

**Controls**

Hand Lever  
Mechanical Joystick  
Cables

**Accessories**

Locking Mechanism for Mechanical  
Joystick  
HPCO – Power Beyond

## CV452



### 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  
Closed Center

### Controls

Mechanical Joystick  
Cables  
Hand Lever

### Accessories

Locking Mechanism for  
Mechanical Joystick  
Service Port Relief Valves  
Anticavitation Valves  
Quick Coupler Unit  
HPCO – Power Beyond

## CV652



### 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  
Closed Center

### Controls

Mechanical Joystick  
Cables  
Hand Lever

### Accessories

Locking Mechanism for  
Mechanical Joystick  
Service Port Relief Valves  
Anticavitation Valves  
Quick Coupler Unit  
HPCO – Power Beyond

## EPCV652

### ELECTRO HYDRAULIC



### 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  
Closed Center

### Controls

EHP

### Accessories

Service Port Relief Valves  
Anticavitation Valves  
Quick Coupler Unit  
HPCO – Power Beyond

## MANIFOLDS

**Design**

Aluminium or Steel Blocs with Relief Valve Cartridges

**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 Setting

## AUXILIARY VALVES

**Design**

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

**Flow Range**

Up to 150 Lpm  
Up to 40 USGpm

**Max Pressure**

400 bar  
5800 psi

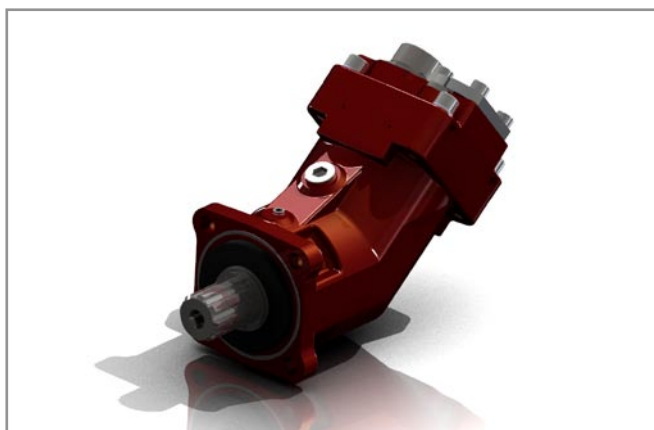
**Design Type**

Direct Acting  
Pilot Acting

**Options**

Fixed or Adjustable Pressure Setting

## NPX FIXED DISPLACEMENT PUMP



### Description

Bent Axis Fixed Displacement Pumps engineered for the most severe working conditions (available space, drive speed and required power).

Compact dimensions for direct flange mounting on motor or gearbox PTO's. The design of the inlet plate makes changing the direction of rotation as easy as changing a fitting.

### Number of Pistons

7 pistons

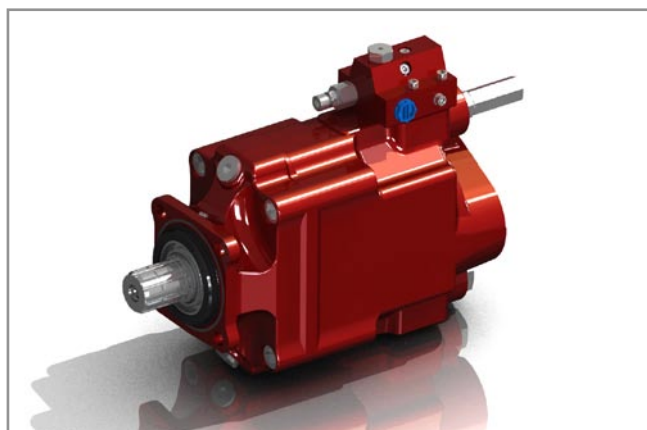
### Displacement Range

12 to 130 cm<sup>3</sup>/rev

### Max Working Pressure

350 bar  
5000 psi

## NVP VARIABLE DISPLACEMENT PUMP



### Description

Variable displacement pumps of axial piston type suitable cranes, forestry cranes, refuse vehicles, salt spreaders and other construction equipment that are designed for optimal load control and energy efficiency.

Compact envelope allows for direct flange mounting on motor or gearbox PTO's. The NVP pumps can also be equipped with load sensing or constant torque control functions.

### Number of Pistons

11 pistons

### Displacement Range

40 to 92 cm<sup>3</sup>/rev

### Max Working Pressure

440 bar  
6400 psi

## MEDIUM DUTY ORBITAL MOTOR



### Description

Robust Medium Duty Orbital Motors (NMP, NMPH, NMR, NMRS, NMRW).

High efficiency motors for medium duty applications.

Wide range of shafts, flanges and ports for use in a large variety of applications.

### Displacement Range

50 to 400 cm<sup>3</sup>/rev

### Max Speed Range

150 to 1180 rpm

### Max Working Pressure

175 bar  
2550 psi

### Standard

Tapered roller bearings on the output shaft, allowing for higher axial and radial forces.

## HEAVY DUTY ORBITAL MOTOR



### Description

Heavy Duty Orbital Motors (NMS, NMSE, NMSS, NMT, NMTS, NMV) which are robust.

High efficiency motors for heavy duty applications.

Wide range of shafts, flanges and ports which allows for the use in a large variety of applications.

### Displacement Range

80 to 800 cm<sup>3</sup>/rev

### Max Speed Range

150 to 800 rpm

### Max Working Pressure

175 bar  
2550 psi

### Standard

Tapered roller bearings on the output shaft, allowing for higher axial and radial forces.

## HYDROSTATIC STEERING



### Description

Hydrostatic Steering Units for open or closed centre steering units suitable for low speed vehicles such as forklifts, tractors, construction equipment, ship rudders, mowers and other marine or industrial positioning equipment.

### Displacement Range

50 to 800 cm<sup>3</sup>/rev

### Max Working Pressure

160 bar  
2350 psi

## LIGHT DUTY



### Description

Light Duty Cylinder (LD series) specifically designed for light tippers and agricultural tippers.

### Construction

Stages machined from cold rolled seamless steel, and with double top guides

### Pressure

Up to 200 bar (Standard)  
Up to 2900 psi (Standard)

Up to 300 bar (On request)  
Up to 4350 psi (On request)

### Stroke & Lifting Capacity

Up to 3.200 mm (126 in) with a lifting power of 20 to 100 tons (44000 to 220000 lbs)

### Accessories

Cradles  
Frame mounts  
Safety valves  
End-of-stroke devices

## UNDERBODY HEAVY DUTY



### Description

Heavy Duty Underbody Cylinders (HD series) engineered to give the body builder the most efficient solution in terms of compactness, stroke and lifting capacity.

### Construction

Stages machined from cold rolled seamless steel, and with double top guides

### Pressure

Up to 250 bar (Standard)  
Up to 3600 psi (Standard)

Up to 300 bar (On request)  
Up to 4350 psi (On request)

### Stroke & Lifting Capacity

Up to 6.500 mm (256 in) with a lifting power of 4 to 62 tons (8800 to 137000 lbs)

### Accessories

Cradles  
Frame mounts  
Safety valves  
End-of-stroke devices

## FRONT MOUNT HEAVY DUTY



### Description

Front Mount Heavy Duty Cylinders (FHD series) developed to allow for maximum Lifting Power at optimal dimensions.

### Construction

Stages machined from cold rolled seamless steel, and with double top guides

### Pressure

Up to 200 bar (Standard)  
Up to 2900 psi (Standard)

Up to 300 bar (On request)  
Up to 4350 psi (On request)

### Stroke & Lifting Capacity

Up to 10.500 mm (414 in) with a lifting power of 20 to 100 tons (44000 to 220000 lbs)

### Accessories

Cradles  
Frame mounts  
Safety valves  
End-of-stroke devices





# nimco

hydraulic systems



### **Nimco Controls AB**

Agnesfridsvägen 186  
SE-20039 Malmö  
Sweden  
T. +46 (0) 40 22 76 00  
F. +46 (0) 40 22 76 01  
saleseurope@nimco.se



### **Nimco Controls Inc.**

1500 S. Sylvania Avenue, #101  
Sturtevant WI 53177  
USA  
T. +1 (262) 884-0950  
F. +1 (262) 886-1129  
salesusa@nimco.se



### **Nimco Controls (Asia) Ltd.**

Unit 1206 7-12/F New Victory House  
NO. 93-103 Wing Lok Street  
Central, Hong Kong  
T. +852 220-11009  
F. +852 816-16071  
salesasia@nimco.se

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[www.nimco-controls.com](http://www.nimco-controls.com)