

# HYDRAULIC CONTROL VALVES

## VALVE FEATURES

Muncie's line of Hydraulic Control Valves includes our 31V Series Valves, our 60V Series and 90V Series Valves, and our 61LS Series Valves for use with load sensing systems. All Valve Series are the stackable design to accommodate any equipment configuration.

- High tensile steel castings provide durability and shock load resistance for your high pressure requirements
- Compact size and light weight to fit your installation needs
- Precision machined spools are hard chrome plated for maximum life and corrosion resistance
- Parallel circuit design permits all spools to be operated independently or simultaneously with the lightest load receiving priority
- Excellent metering characteristics and extra low spool force provide design acceptance in a broad range of applications
- Stackable design allows for customizing the assembly to your specific needs
- Large variety of spool types and backcap options
- Modern machinery and manufacturing procedures produce assemblies with minimal internal leakage to ensure maximum load holding ability
- Transition load checks are standard to prevent load shift between spool positions
- Wide range of port options including work port reliefs, anticavitation valves, port restrictors, pilot operated check valves (lock valves), and H.P.C.O. power beyond, provide flexibility for all your design needs
- Work sections are 100% preassembled and pretested before shipping
- Experienced personnel to assist in proper selection and service of your application needs

## 61 SERIES VALVE LOAD SENSE DIRECTIONAL VALVE

The 61 Series valve is a sectional type valve with flow capabilities to 60 GPM and pressures to 3000 PSI. The valve is closed center, load sensing with individual spool compensators for uninterrupted simultaneous operation. Precision ground spools provide excellent metering with low spool effort.

- Variety of spool options and spool flow choices
- Improved system efficiency for better control and reduced operator effort
- Internal load sensing network with shuttles sends the highest load signal to the pump



## 31 SERIES DIRECTIONAL CONTROL VALVE

The 31 Series valve is a sectional type valve with flow capabilities up to 30 GPM and 3500 PSI. The valve is an open center/parallel design with a built-in adjustable relief valve. Closed center and high pressure carry-over (power beyond) are available. The 31 Series valve can be outfitted for lever, cable, and air shift type actuation.

**Available options include:**

- SAE and N.P.T. ports
- Mid-inlet sections
- Integral pilot-operated check valves (lock valves)

*Brochure MP95-06*



## 60V & 90V SERIES DIRECTIONAL CONTROL VALVES

The 60V and 90V Series valves are a sectional design with pressure capabilities up to 2500 PSI and flow capabilities to 60 GPM (60V) and 90 GPM (90V). The valves are an open center/parallel design with an adjustable main relief valve. Large internal passages provide low open center pressure losses. The low profile work sections are standard and optional high sections for use with a wide variety of work port options are available.

**Available options include:**

- SAE and N.P.T. ports
- Mid-inlet sections
- High sections for work port options

*60V Series Brochure MP95-08*

*90V Series Brochure MP95-09*

