

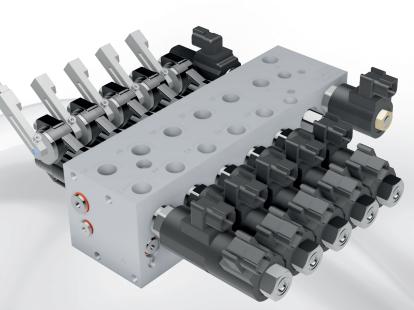
TECNORD

SERVOCOMANDI E REGOLAZIONE



4W3P PROPORTIONAL PRESSURE COMPENSATED WITH HEAVY DUTY MANUAL LEVER

Electro-hydraulic Directional
Proportional Control Valve System



MONOBLOCK DIRECTIONAL CONTROL VALVE

Load sensing / Pressure compensated.

Fixed or Varaible Displacement Pump configuration.

1 to 6 working sections in the same bank.

ELECTRO-HYDRAULIC CONTROLS

Multi-function / Direct acting non-feedback proportional solenoid.

MANUAL CONTROL OPTIONS

Full size/ Heavy-duty Manual Control levers.

PRINCIPLE OF OPERATION

The **V-O-M 43/PPC-HDL** is a closed center, load sensing sectional valve with pressure compensation of each section and manual lever control.

Depending on the configuration of the inlet section, this system can be used with FIXED DISPLACEMENT pumps or with pressure/flow compensated VARIABLE DISPLACEMENT pumps. When multiple functions are selected, the **V-O-M 43/PPC-HDL** valve system will auto-matically resolve the highest function load pressure, which is then transmistted to the inlet unloader / by-pass pressure compensator of a fixed displacement pump, or to the pressure/flow compensator element of an automatic variable displacement pump.

The **V-O-M 43/PPC-HDL** valve bank comes with a system relief valve, while work port pressure limiting is accomplished by using auxiliary anti-shock/anti-cavitation valves at each port. For systems where dual REMOTE and MANUAL control is requested, or in case of electical power loss, regular size MANUAL LEVERS are provided to maintain full LOAD SENSE functionality of the system.

HYDRAULIC SPECIFICATIONS

| Max operating flow | 45 lt/min |
|--------------------------------------|---------------------|
| Max flow per section | 25 lt/min |
| Max work pressure | 250 bar |
| By-pass pressure compensator setting | 10-14 bar |
| Max back pressure at T port | 10 bar |
| Media operating temperature range | 15°C/+105°C |
| Max. contamination level | 18/15/10 (ISO 4406) |
| Fluid viscosity range | 20-480 cSt |
| Seals | Buna-N (std) |
| | Viton (opt.) |
| | |

ELECTRICAL SPECIFICATIONS

| Nominal coil voltage | 12/24 VDC |
|---------------------------|--------------------|
| Supply voltage tolerance | ±15% |
| Coil Ohmic resistance | 3.9/15.6 Ohm |
| Max. control current | 1880/900 mA |
| C/Current characteristic | PWM |
| Optimum dither frequency: | 100-125 Hz |
| Coil duty cycle | 100% ED |
| Env. Protection class | IP67 |
| Coil termination | DT= Deutsch DT04 |
| | AJ=Amp Junior Time |
| | HC=DIN 43650 |

APPLICATIONS

- Service cranes
- Aerial platforms
- AG implements
- Stabilizers control
- Self-leveling structures
- Extendable & tilting trailers



VALV-O-MATIC 43PPC VALVE SYSTEM CONFIGURATION AND OPTIONS VOM 43PPC IFC-00 EGS4P08/HDL EGS4P10/HDL EGS4M18/HDL EGS4M25/HDL 12VDT Valve Family Work section **Voltage & Terminal** Inlet section IFC-00 FDP = fixed displacement pump EGS4P08/HDL Proportional / 0 to 8 lt/min / Cyl. Spool wih manual lever **12**= 12VDC IFC-49 FDP with EV49 full flow dump valve EGS4M10/HDL Proportional / 0 to 10 lt/min / Motor Spool wih manual lever **24**= 24VDC IV0-00 VDP = variable displacement pump EGS4P18/HDL Proportional / 0 to 18 lt/min / Cyl. Spool wih manual lever DT= Deutsch DT04 IV0-49 VDP with EV49 full flow dump valve EGS4M25/HDL Proportional / 0 to 25 lt/min / Motor Spool wih manual lever AJ= AMP Jr. Time **HC**= DIN 43650 VALVE BANK LENGTH Sections Dim. A (mm) 1F 136 176 3F 216 4F 256 296 5F

