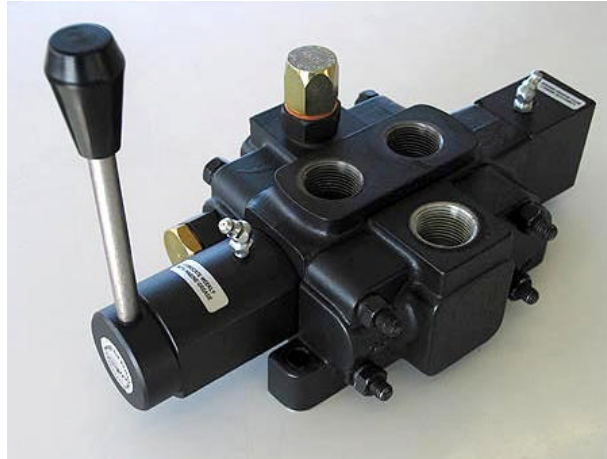


# V3-100 LOAD SENSING VALVE

The Hy-Pro load sensing valve is used to control the speed of a motor with varying loads. A pilot line from each service port is connected via shuttle valves to either a port in the inlet cover to control the flow from a pump or a flow control assembly which will maintain flow to the selected port, dumping the excess directly to tank. A rotary type lever is often used to maximise control. Load sensing sections are not inter-changeable with standard V3-100 sections or covers.



## Description -

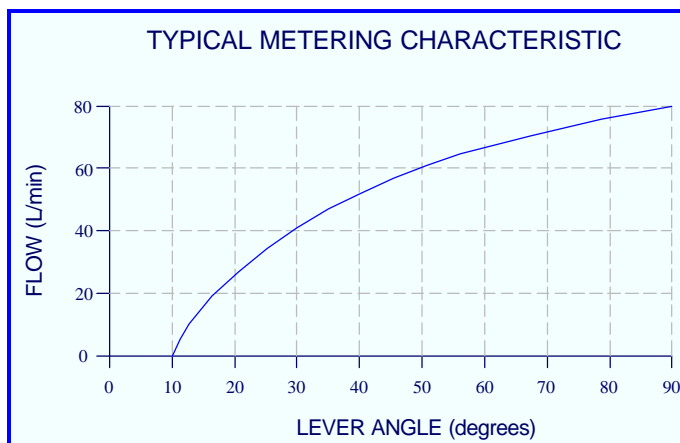
A sectional spool valve incorporating a pilot line connected to each service port via shuttle valves. This is used to control a load sensing pump via a port in the inlet cover. Alternatively it can also control an integral pressure compensated flow control in the inlet cover dumping excess flow to tank.

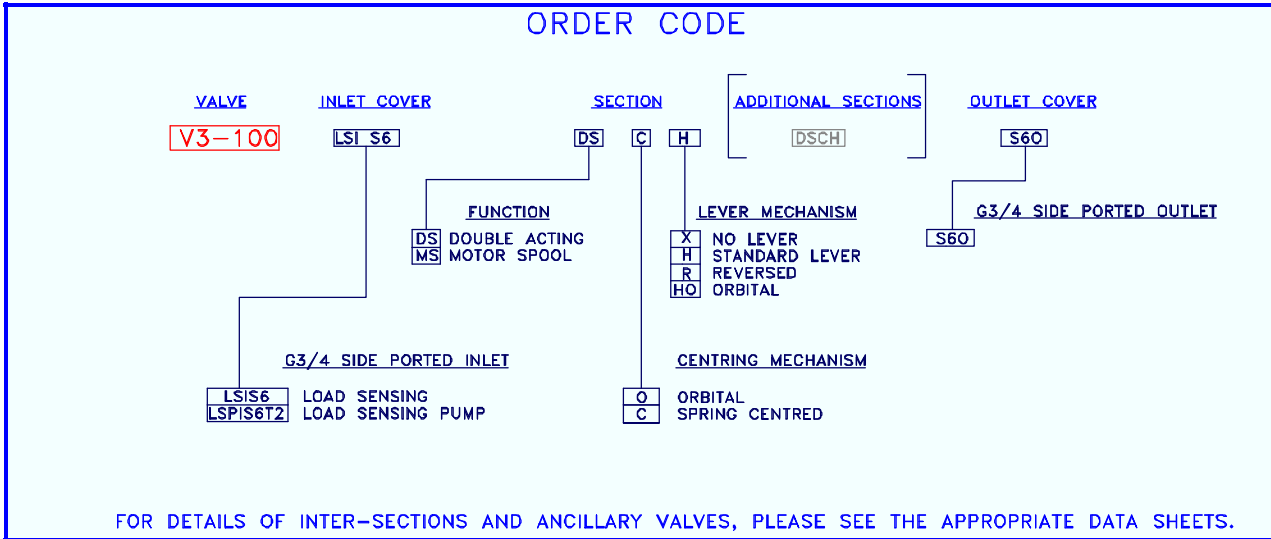
## Application

Used extensively in winching applications in the forestry and marine industry where speed is required to be maintained regardless of load.

## Features

- Integral flow control option
- Rotary lever option
- External load sensing port
- 100 lpm capacity
- Integral relief valve





## Technical Data

### Performance

Rated Flow	100 l/min
P inlet to outlet @ 100 l/min	6.9 bar
Maximum pressure, service port	250 bar
Maximum pressure, inlet port	250 bar
Maximum back pressure, outlet port	35 bar
Temperature rating: minimum	-20°C
Temperature rating: maximum	+65°C
Spool leakage, 210 bar @ 20°C	< 8cc/min

### Recommended Oil

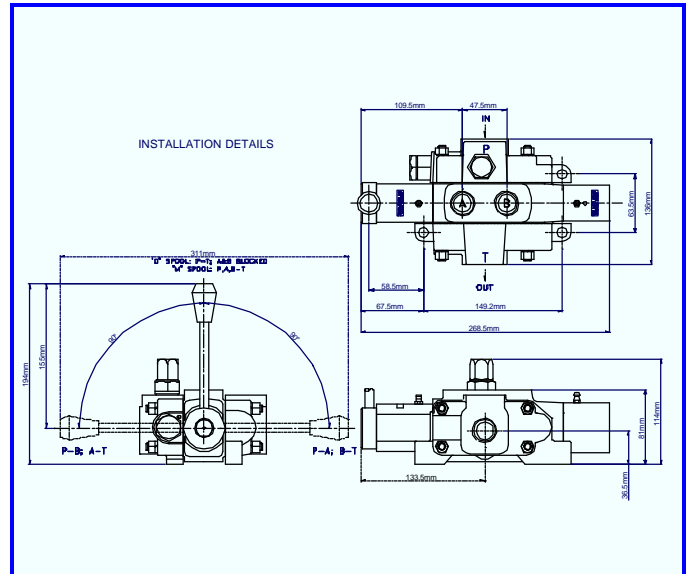
Mineral based hydraulic	ISOVG37
Filtration (minimum)	25 micron

### Materials

Body – cast iron	BS1452-250
End covers – aluminium	BS1490
External plating – Zinc Chromate	BS1706Zn3
External plating – Nitrotech	NQ3
Tie studs (M8)	EN8
Tie stud torque	13.5 Nm
Reciprocating seals	PTFE/Viton
Static	PTFE/Nitrile

### Weight

Sections	2.9 Kgs
End covers (pair)	1.45 Kgs
Lever force – standard lever	2.2 to 3.8



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