

HV Series

Load Valve

The HV series of loading valve gives smooth progressive pressure control in both flow directions allowing components such as cylinders or motors to be tested without re-plumbing the test connections.

The valve features the exclusive INTERPASS™ safety disc system which protects the operator, components and the environment by preventing unwanted external oil loss. In the event of overpressure the discs rupture and oil bypasses the valve internally at low pressure.

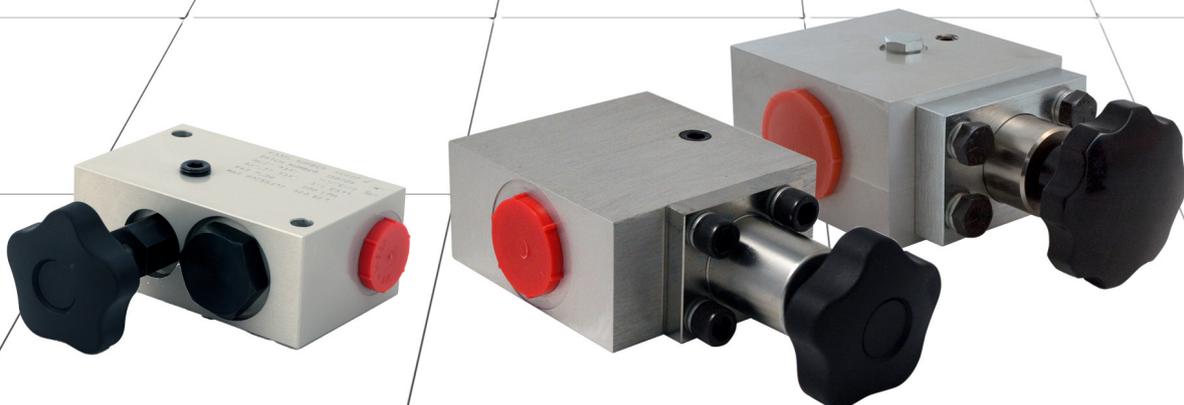
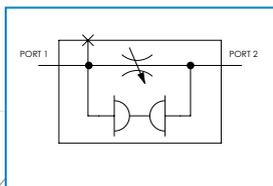
The valve features a gauge port which is ported to the inlet (in the forward direction). Combined with our flow meters, the HV series loading valve makes testing hydraulic components and circuits on a wide range of agricultural, industrial and mobile equipment fast, efficient and safe.

Please note that the HV Series are designed for loading a system and are not suitable as a shut-off valve to hold a static load.

Specifications

Maximum Rated Pressure:	420 bar, 6,000 psi
Maximum Rated Flow:	Up to 800 L/min, 210 US gpm
Ambient Temperature:	5 to 40°C, 59 to 104°F
Fluid Temperature Range:	0 to 120°C, 32 to 248°F
Compatible Fluids:	Mineral oils to ISO 11158. Other fluids consult sales office.
Porting:	BSPP, SAE
Material:	Body Materials: Aluminium
	Internal Materials: Steel
	Seals: FKM (others available on request)

Symbol:



Make it **BLUE**®

Features

- Bi-directional loading
- INTERPASS™ internal safety protection system with replaceable burst discs
- Smooth progressive pressure control
- High tensile aluminium body rated at 420 bar, 6000 psi
- Easy to retro-fit

Sales Order Code

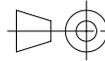
Please contact our technical sales team to discuss any special order requirements

MODEL NUMBER	FLOW RANGE		PORT 1	PORT 2
	L/MIN	US GPM		
HV200-B-N-6	200	50	1-1/16" -12UN #12 SAE ORB	3/4" BSPP
HV200-S-N-6	200	50	1-1/16" -12UN #12 SAE ORB	1-1/16" -12UN #12 SAE ORB
HV400-S-N-6	400	100	1-5/16" -12UN #16 SAE ORB	1-5/16" -12UN #16 SAE ORB
HV800-S-N-6*	800	210	1-7/8" -12UN #24 SAE ORB	1-7/8" -12UN #24 SAE ORB

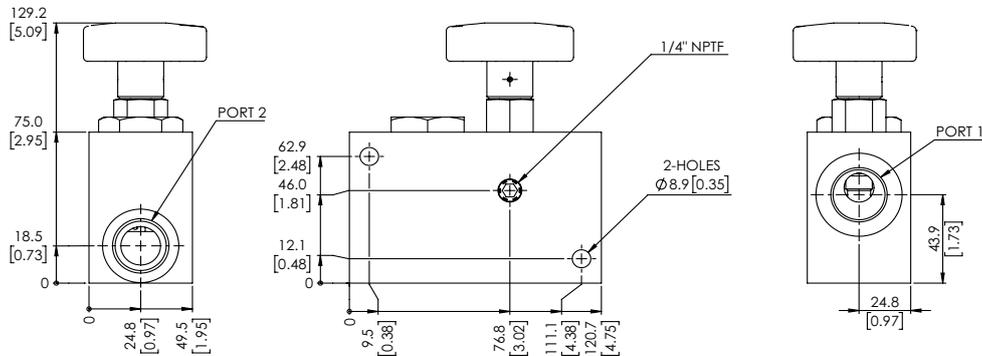
* Pressure control is limited below 86 L/min, 23 US gpm to: Max pressure (bar) = 5 times the flow (L/min) +30.

Note: HV1500 kits are also available for flow ranges up to 1500 L/min, 400 US gpm. Please contact our sales team for further information. Each Valve is supplied with 4 spare burst discs.

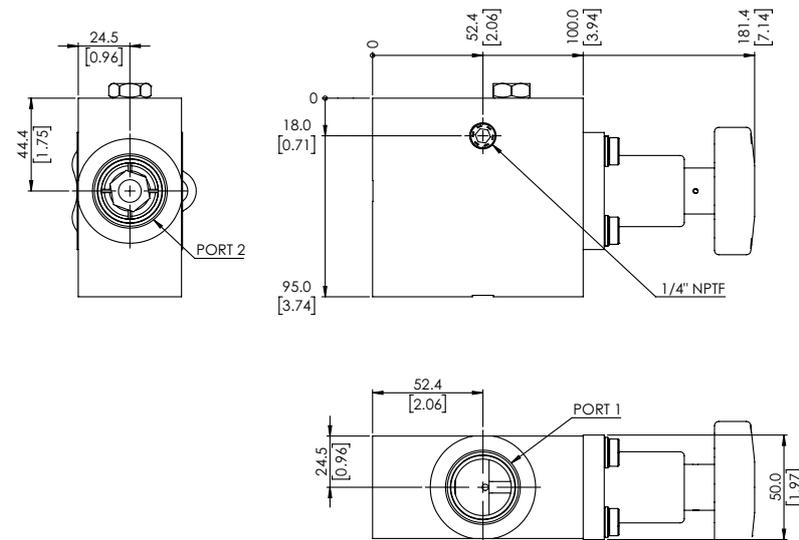
Installation Details Dimensions in mm [Inches]

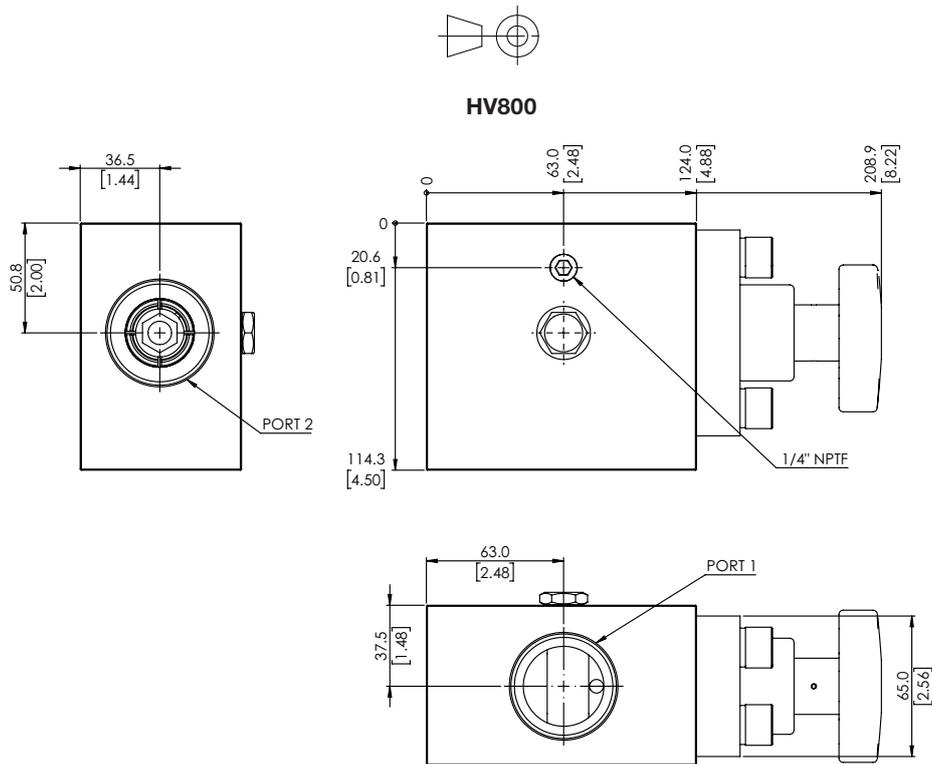


HV200



HV400





Accessories / Options

CT: range of turbine flow blocks - from 1 to 1500 L/min (0.25 - 400 US gpm) see separate bulletin

Pressure gauges

Test points

Replacement burst discs: 6000, 5000, 4000 and 3000 psi

HV1500 kit

Webtec reserve the right to make improvements and changes to the specification without notice