

Lockout relay valves

Types 1200/1201/ 1205/1206

These lockout relays are pilot-operated, three port, two position valves with a manual reset knob, designed for panel mounting. In the 'locked out' position, service line pressure (Port 2) is vented to tank (Port 4) while supply pressure (Port 3) is blocked. The relay will not operate if a pressure is applied to the pilot connection (Port 1).

The hand knob is pulled to reset the relay, blocking the tank (Port 4) and connecting supply pressure (Port 3) to the service line (Port 2). If a pilot supply is present the relay will immediately be held in this position. Where a pilot supply is not initially present, the relay can be fitted with a latch pin to maintain it mechanically in the actuated position. When a pilot supply is applied, this pin will automatically disengage.

Either loss of pilot pressure or pushing the hand knob returns the relay to the closed 'locked out' position. The relay can be closed manually at all pilot pressures for gaseous media but only up to 70 psi pilot pressure for liquid media.

Specifically designed for use in wellhead safety shutdown systems, the relay is manufactured from 316 stainless steel and CA104 aluminium-bronze materials which meet the requirements of NACE Standard MR-01-75 (latest revision as applicable).

Operating parameters

Working pressure	10.3 bar (150 psi).
Pilot pressure – minimum	2.1 bar (30 psi).
Pilot pressure – maximum	10.3 bar (150 psi).
Operating media – Types 1200/1205	Air, natural and sour gases
Operating media – Types 1201/1206	Mineral oil, water, water-glycol mixtures
Connections	1/8" NPT all ports.
Working temperature – standard	-20°C to + 160°C.
Working temperature – arctic	Available on request
Manual close, maximum pilot pressures – gaseous media	10.3 bar (150 psi)
Manual close, maximum pilot pressures – liquid media	4.8 bar (70 psi)

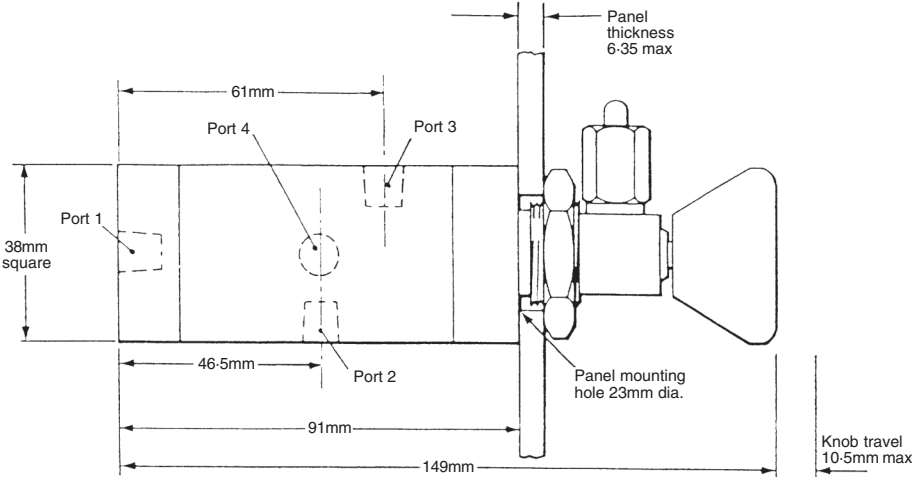


These valves conform to Directive 94/9/EC relating to equipment intended for use in potentially explosive atmospheres and is ATEX (ATmosphere EXplosible) certified.



Marshalsea Hydraulics has been assessed by SGS Société Générale de Surveillance SA and certified as meeting the requirements of ISO 9001:2000 for the design, development, manufacture and servicing of hydraulic pumps, relief valves and intensifiers.

Drawing giving dimensions



Weight: 1.1kg

Port	Connection
Port 1	Pilot
Port 2	Service
Port 3	Supply
Port 4	Tank

Port assignments



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We reserve the right to alter specifications or withdraw products without notice

Lockout relay valves

Type 1250

The manual lockout relay Type 1250 (normally closed) is a pilot-operated, three port, two position valve with manual-open actuator. It may be side mounted or panel mounted with a maximum panel thickness of 4 mm. In the 'locked out' position, service line pressure (Port 3) is vented to tank (Port 5) while the supply pressure (Port 4) is blocked. In this position the relay will function if a pressure supply is established at the pilot (Port 1). Thus a closing device must be connected downstream of the relay output with the relay pilot then connected downstream of the closing device, as illustrated in the schematic diagram.

With the remote closing device energised (activated), the relay can be opened; *i.e.*, supply pressure (Port 4) connected to service (Port 3) with tank (Port 5) blocked by depressing the operating knob – the supply pressure will assist the manual operator after approximately three-quarters of its travel to ensure positive operation of the valve changeover. The valve can only be closed by removal of the pilot supply pressure by a separate closing device, *e.g.*, either a solenoid or a three-way manual valve – not by the manual action of pulling out the valve knob.

The valve slide (supplied in a normally closed configuration) has a 'block before bleed' action – for example, the tank port is isolated before the pressure and service ports are interconnected.

Construction materials, predominantly 316 stainless steel and CA104 aluminium-bronze with seals of fluorelastomers and PTFE materials, ensure high corrosion resistance and comply with NACE Standard MR-01-75 (latest revision as applicable).

Operating parameters

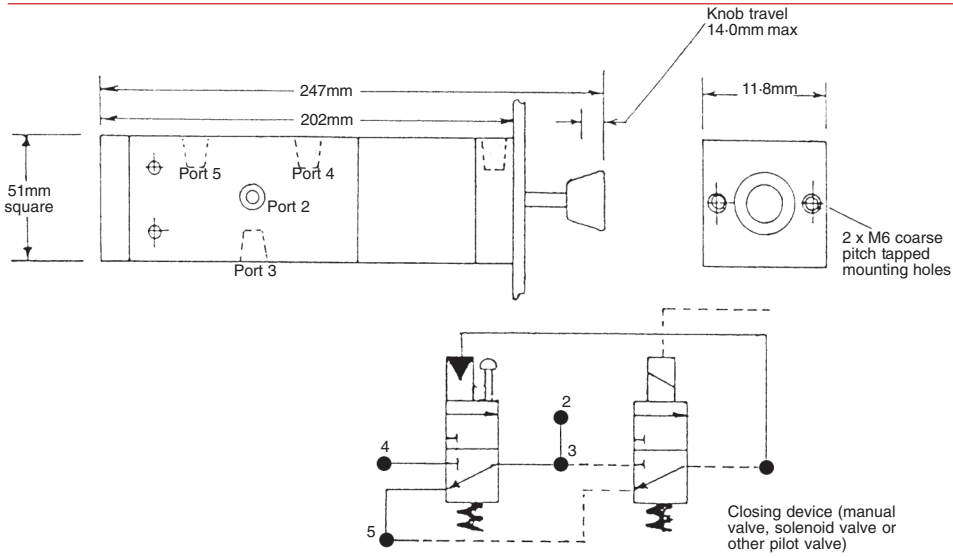
Working/pilot pressure	250 bar (3,625 psi) max. 69 bar min pilot operating pressure.
Operating media	Mineral oils or water-glycol mixtures with corrosion inhibitors.
Connections	1/4" NPT tapped all ports.
Flow rate, nominal	27 litres/min (6 imp galls/min).
Working temperature	-20°C to + 160°C.
Recommended filtration	3 micron



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Drawing giving dimensions

Port assignments

Port	Connection
Port 1	Pilot
Port 2	Gauge
Port 3	Service
Port 4	Supply
Port 5	Tank



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