

## Shutdown valves

**Type 1073** Master shutdown valve Type 1073 is a pilot-operated, three port, two position poppet valve with a spring-return action.

Manufactured from materials complying with NACE Standard MR-01-75 (latest revision as applicable). The valve can be used in many oil field and gas field applications. The piston-type pilot section of the valve is equally versatile, responding to a wide range of pilot supply pressures and any one of a variety of pneumatic or hydraulic operating media.

With the valve unoperated, Port 3 is connected to Port 5, while Port 4 is isolated. Pilot pressure, applied above the piston, displaces the valve stem, interconnecting Ports 3 and 4 and isolating Port 5. Low friction fluid seals are used for all dynamic sealing and the valve stem is of balanced design so that the valve can be connected for either normally-open or normally-closed operation.

The valve body has a fourth connection (port 2) for a pressure gauge. If this port is not used, it must be sealed with a 1/4" NPT plug (not supplied with the valve).

### Operating parameters

<b>Working pressure</b>	690 bar (10,000 psi) max.
<b>Pilot pressure</b>	2.1 to 10.3 bar (30 to 150 psi).
<b>Connections</b>	1/4" NPT all ports.
<b>Leakage rate</b>	4 ml/hour max.
<b>Flow rate, nominal</b>	27 litres/min (6 imp galls/min).
<b>Operating media – poppet section</b>	Mineral oils, water, water-glycol mixtures.
<b>Operating media – pilot section</b>	Air, sour gas or one of the poppet media (above).
<b>Pressure drop</b>	See performance curve.
<b>Working temperature</b>	-20°C to + 130°C.
<b>Recommended filtration</b>	10 micron

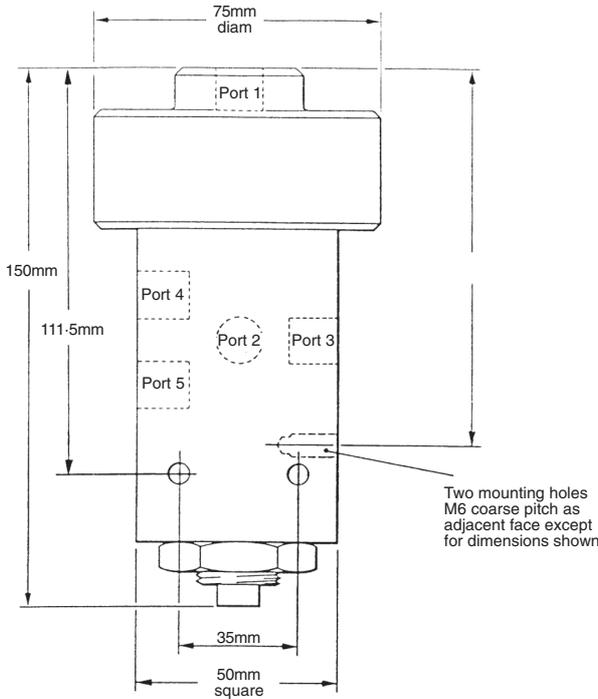


This valve conforms to Directive 94/9/EC relating to equipment intended for use in potentially explosive atmospheres and is ATEX (ATmosphere EXplosible) certified.



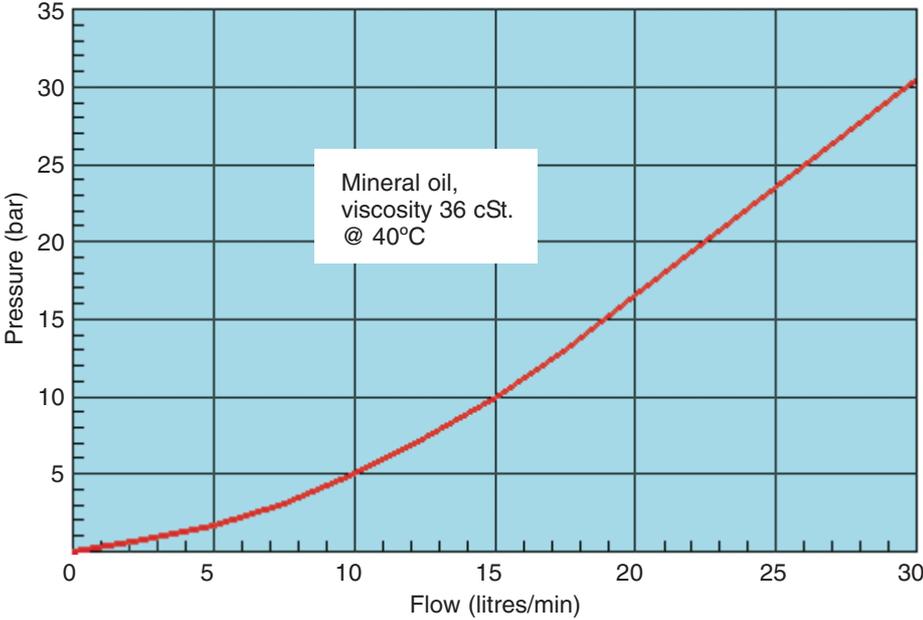
Marshalsea Hydraulics has been assessed by SGS Société Générale de Surveillance SA and certified as meeting the requirements of ISO 9001:2000 for the design, development, manufacture and servicing of hydraulic pumps, relief valves and intensifiers.

**Drawing giving dimensions**



**Weight:** 2.5kg

**Performance curve**



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