

Flowline pilot valves

Types 2010–2175

These flowline pilot valves are pilot-operated, three port, two position valves with a spring return action. The pressure at which the valve functions is variable by adjusting the spring force – a wide range of pressure settings is covered by using seven interchangeable sensing head assemblies.

The pilots can be supplied with either normally open or normally closed slide configurations, and function with a ‘block before bleed’ action.

The pilots are used to switch a pneumatic or hydraulic control pressure on rising or falling flowline pressures in pipeline valve and wellhead safety control systems.

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

Operating parameters

Control pressure – standard	Gas 17.3 bar (250 psi).
Control pressure – high	Hydraulic fluid up to 400 bar (6,000 psi) max
Process pressure	690 bar (10,000 psi).max 380 bar (5,510 psi) max – 2X1X only.
Operating media	Mineral oil, water, water-glycol mixtures, air, natural and sour gases.
Connections – controls	1/4” NPT.
Connection – process	1/2” or 3/4” NPT.
Flow rate, nominal	4.5 litres/min (1.0 imp gall/min).
Pressure drop	See performance curve.
Working temperature – standard	–20°C to + 130°C.
Working temperature – arctic	Available on request
Recommended filtration	25 micron



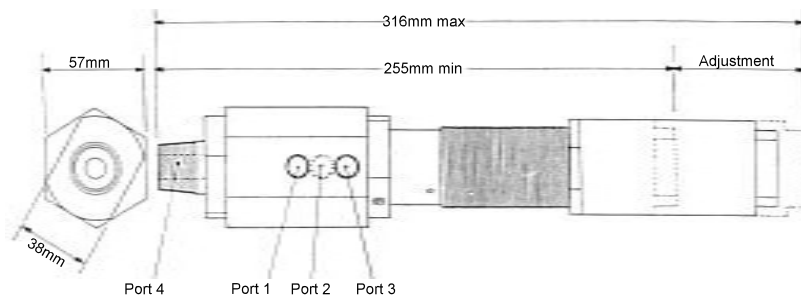
These valves conform to Directive 94/9/EC relating to equipment intended for use in potentially explosive atmospheres and is ATEX (ATmosphere EXplosible) certified.



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.

Type Number N/O	N/C	Pressure (bar)	Pressure (psi)	Process Connection
2010	2110	3.5–17.3	50–250	1/2" NPT
2015	2115	3.5–17.3	50–250	3/4" NPT
2020	2120	13.7–31	200–450	1/2" NPT
2025	2125	13.7–31	200–450	3/4" NPT
2030	2130	31–59	450–850	1/2" NPT
2035	2135	31–59	450–850	3/4" NPT
2040	2140	59–152	850–2,200	1/2" NPT
2045	2145	59–152	850–2,200	3/4" NPT
2050	2150	152–372	2,200–5,400	1/2" NPT
2055	2155	152–372	2,200–5,400	3/4" NPT
2060	2160	372–690	5,400–10,000	1/2" NPT
2065	2165	372–690	5,400–10,000	3/4" NPT
2070	2170	15.9–89	230–1,300	1/2" NPT
2075	2175	15.9–89	230–1,300	3/4" NPT

Type number specifications



Drawing giving dimensions

Weight: 2.7kg



Marshalsea Hydraulics Limited
 Marshalsea House
 Venture Way
 Priorswood Industrial Estate
 Taunton
 Somerset TA2 8DE
 United Kingdom

Tel: 01823 331081
 (+44 1823 331081)
 Fax: 01823 323382
 (+44 1823 323382)

E-mail info@marshalsea.co.uk

www.marshalsea.co.uk

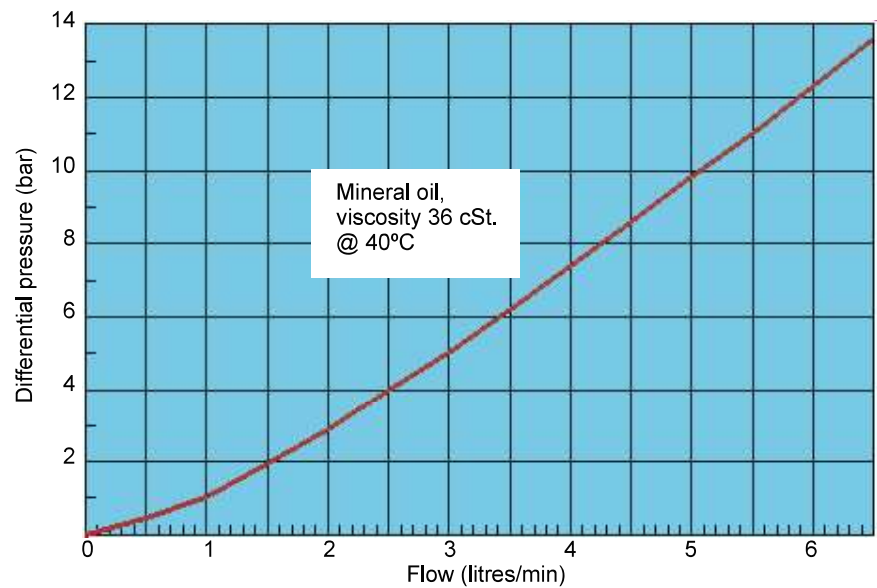
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Flowline pilot valves Types 2010–2175 (continued)

Port assignments

Port	Type 20XX	Type 21XX
Port 1	Tank	Supply
Port 2	Service	Service
Port 3	Supply	Tank
Port 4	Process	Process

Performance curve





Marshalsea Hydraulics Limited
Marshalsea House
Venture Way
Priorswood Industrial Estate
Taunton
Somerset TA2 8DE
United Kingdom

Tel: 01823 331081
(+44 1823 331081)

Fax: 01823 323382
(+44 1823 323382)

E-mail info@marshalsea.co.uk

www.marshalsea.co.uk

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