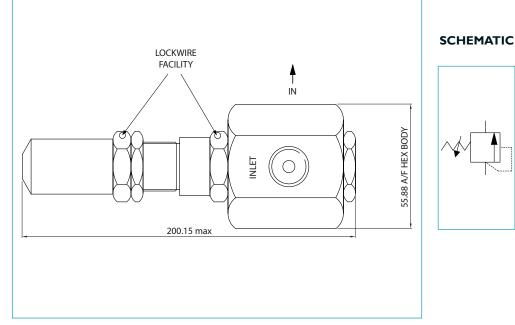
Hydraulic Service

Bifold[®] Marshalsea

Relief Valves for Accurate Pressure Control





Features and Benefits

- Up to 700 bar, 45 I / m
- Set Point Repeatability ±2%.
- Sealing Re-Seat Pressure Virtually zero leakage re-seat pressure ≥ 90% of cracking pressure.
- Proof Test proof test pressure: 1000 bar.

- Flow Capacity at 10% overpressure: 45 l / m.
- Orifice Size: Ø 3/16".
- Important Set point is affected by vent port back pressure and will DECREASE accordingly.
- The Main Spring Load is not transmitted to the seat, thus reducing distortion and wear.

Materials

External & Wetted Parts	- 316L stainless steel - M390		
Seal Material	- Nitrile - Viton - Silicone - Low Temp Nitrile	- standard - add suffix M089 - add suffix M065 - add suffix M106	eg. 14450 - 08 - M089 eg. 14450 - 08 - M065 eg. 14450 - 08 - M106
Seat Material	- M340		

Approvals Details



These relief valves conform to European Directive 94/9/EC relating to equipment intended for use in potentially explosive atmospheres and are ATEX compliant. These valves also conform to the Pressure Equipment Directive 97/23/EC. All valves are (Emarked and supplied with a test certificate plus a declaration of conformity.

22 www.bifold.co.uk

our products are considered to the product innovination in this catalogue is reasonably accurate and up-to-date. However, our products are continually developed and updated so to ensure accurate and up-to-date information please refer to the product catalogue issue list on our web site contact a member of our sales team.

ation please Quality Assurance ur web site or All Biold products are man QA programme to ensure performance and reliability, rating system BS EN ISO 9001-2008. Fun E. The products conformity and copies of o ngs, correct where availability are availab Bifold arshalsea is a member of the Bifold Group

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Product Description

The Type 14450 precision relief valve has been designed to provide accurate over pressure protection in systems operating at pressures of up to 700 bar and flows of up to 45 l / m.

Precision relief valves have very high sealing forces along with accurate and narrow dead bands. Precision relief valves should be used in preference to sprung relief valves where there is risk of vibration induced leakage or where dead bands are important to system safety performance. Sprung relief valves typically will have a narrow dead band when tested on a static dead weight tester but will have a much wider dead band under flowing conditions that will require a significant drop in system pressure to enable the valve to reseat.

The floating poppet design enhanced by the use of linear bearings produces characteristics which are non flow dependent and ensures long life with repeatable performance.

Installation and removal of system pipe work is simplified by the right angled porting configuration.

The relief valve weight is 1.38 Kg.

Selection Chart - Ordering Example

RELIEF VALVE 14450 SPECIFICATIONS						
Part Number	Pressure Range (bar)	Outlet Connection	Inlet Connection	Repair Kit		
14450 - 01	103 - 240	1⁄2" NPT Female	1⁄2" NPT Female	RS 14450 - 01		
14450 - 02	207 - 414	1⁄2" NPT Female	1/2" NPT Female	RS 14450 - 02		
14450 - 03	345 - 700	1⁄2" NPT Female	1⁄2" NPT Female	RS 14450 - 03		
14450 - 04	103 - 240	1/2" BSP Female	1⁄2" BSP Female	RS 14450 - 04		
14450 - 05	207 - 414	1/2" BSP Female	1⁄2" BSP Female	RS 14450 - 05		
14450 - 06	345 - 700	1⁄2" BSP Female	1⁄2" BSP Female	RS 14450 - 06		
14450 - 07	103 - 240	34" NPT Female	34" NPT Female	RS 14450 - 07		
14450 - 08	207 - 414	¾" NPT Female	34" NPT Female	RS 14450 - 08		
14450 - 09	345 - 700	34" NPT Female	¾" NPT Female	RS 14450 - 09		
14450 - 10	103 - 240	34" MP Female	34" MP Female	RS 14450 - 10		
14450 - 11	207 - 414	¾" MP Female	34" MP Female	RS 14450 - 11		
14450 - 12	345 - 700	34" MP Female	¾" MP Female	RS 14450 - 12		

It is the responsibility of the system designer and user to select products that are suitable for their intended application of use.

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BFD81 December '12

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When selecting a product, the applicable operating system design must be considered to ensure sale use. The products function, material compatibility adequate ratings, correct installation, operation and maintenance are the responsibilities of the system designer and user. Quality Assurance QA programme to ensure that every product will give optimu porformance and realibility. We are thind party certified to BS EN ISO 9001-2008. Functional test certificate, letter of conforming and couples of original mill certificates, providing 10 where available. We reserve the right to make changes to the seconfications and desime exp. without prior negicine.

