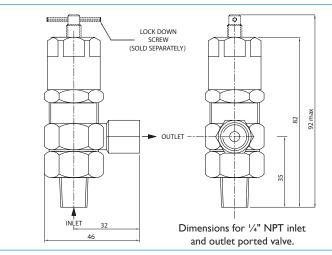
### Hydraulic Service

# Bifold Marshalsea

#### Thermal Relief Valves



#### **Features and Benefits**

- No need to remove from the system for proof testing.
- Unique lock down screw facility.
- Set Point Repeatability ±2%.
- Set Point Range user specified up to 1300 bar.
- Sealing Re-Seat Pressure Virtually zero leakage re-seat pressure  $\geq$  90% of cracking pressure.
- Proof Test proof test pressure: 1000 bar. proof test pressure: 1700 bar.

- SCHEMATIC
- Orifice Size: Ø 4mm.
- Back Pressure set point is not affected by vent back pressure. Maximum permissible back pressure 100 bar.
- Operating Media mineral oils, water glycol fluids and some chemicals. Consult Bifold Marshalsea for specific chemicals and synthetic oils compatibility.
- Long Life and Repeatable Performance are ensured through the use of hardened elements.

eg. 14480 - 08 - M089 eg. 14480 - 08 - M065 eg. 14480 - 08 - M106

#### **Materials**

Body Spring Seal Material - Nitrile - Viton

- Silicone - Low Temp Nitrile

Seat Material - PEEK, Stainless Steel, Polyurethane

#### **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.

- 316L stainless steel - 316S42 and 302S26 stainless steel

- standard

- add suffix M089 - add suffix M065

- add suffix MI06

These valves also conform to the Pressure Equipment Directive 97/23/EC. All valves are ( marked and supplied with a test certificate plus a declaration of conformity.

#### Product Description

The Type 14480 thermal relief valve has been designed primarily to provide over pressure protection in systems subject to fluid thermal expansion, but it can also be reliably used as the primary relief valve in systems with low volume pump flow rates.

A unique feature of this valve is the lock down facility that eliminates the need to remove or disconnect the valve during proof testing of the system. Provision is made in the cap for a special lock down screw to be inserted to disable the valve and hold it closed against the increasing pressures applied during testing of the system pipe work and components. This eliminates the

need to remove or disconnect the valve during test procedures. When the lock down screw is removed, the valve reverts to its as set condition without further adjustment or re-calibration.

The thread in the cap is a non-preferred size, thereby preventing unauthorised insertion of other types of screw. Lock down screws are not provided with each valve to prevent unauthorised use; they are available on request.

The relief valve weight is :- 0.24 Kg.

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## Hydraulic Service

#### **Selection Chart - Ordering Example**

THERMAL RELIEF VALVE 14480 SPECIFICATIONS				
Part Number	Pressure Range (bar)	Inlet Connection	Outlet Connection	Repair Kit
14480 - 24	7 - 50	1/4" NPT Female	1⁄4" NPT Female	RS 14480 - 24
14480 - 25	50 - 200	1/4" NPT Female	1/4" NPT Female	RS 14480 - 25
14480 - 26	200 - 600	1⁄4" NPT Female	1⁄4" NPT Female	RS 14480 - 26
14480 - 27 14480 - 20	600 - 800	1/4" NPT Female	1/4" NPT Female	RS 14480 - 27 RS 14480 - 20
14480 - 20	7 - 50 35 - 345	1/4" NPT Female 1/4" NPT Female	1/4" NPT Female 1/4" NPT Female	RS 14480 - 20 RS 14480 - 03
14480 - 21	50 - 200	1/4" NPT Female	1/4" NPT Female	RS 14480 - 21
14480 - 22	200 - 600	1/4" NPT Female	1/4" NPT Female	RS 14480 - 22
14480 - 04	345 - 690	1/4" NPT Female	1⁄4" NPT Female	RS 14480 - 04
14480 - 23	600 - 800	1/4" NPT Female	1/4" NPT Female	RS 14480 -23
14480 - 30	7 - 50	1/4" BSP Female	1/4" BSP Female	RS 14480 - 30
14480 - 31 14480 - 32	50 - 200 200 - 600	1/4" BSP Female	1/4" BSP Female	RS 14480 - 31
14480 - 32	600 - 800	1/4" BSP Female 1/4" BSP Female	1/4" BSP Female 1/4" BSP Female	RS 14480 - 32 RS 14480 - 33
14480 - 49	7 - 50	1/4" MP	1/4" NPT	RS 14480 - 49
14480 - 50	35 - 345	1/4" MP	1/4" NPT	RS 14480 - 50
14480 - 51	50 - 200	1/4" MP	1/4" NPT	RS 14480 - 51
4480 - 52	200 - 600	1⁄4" MP	1⁄4" NPT	RS 14480 - 52
14480 - 53	345 - 690	1⁄4" MP	1/4" NPT	RS 14480 - 53
14480 - 54	600 - 800	1⁄4" MP	1/4" NPT	RS 14480 - 54
14480 - 55 14480 - 44	600 - 1300 7 - 50	1/4" MP 3/8" MP Female	1/4" NPT 1/4" MP Female	RS 14480 - 55 RS 14480 - 44
14480 - 44	200 - 600	3%" MP Female	1/4" MP Female	RS 14480 - 44
14480 - 47	600 - 1300	3%" MP Female	1/4" MP Female	RS 14480 - 47
14480 - 56	7 - 50	3%" NPT Female	1/4" NPT Female	RS 14480 - 56
14480 - 57	35 - 345	∛s" NPT Female	1/4" NPT Female	RS 14480 - 57
14480 - 58	50 - 200	3⁄8" NPT Female	1/4" NPT Female	RS 14480 - 58
14480 - 59	200 - 600	¾" NPT Female	1/4" NPT Female	RS 14480 - 59
14480 - 60	345 - 690	3/8" NPT Female	1/4" NPT Female	RS 14480 - 60
14480 - 61	600 - 800	3%" NPT Female	1/4" NPT Female	RS 14480 - 61
14480 - 62 14480 - 63	600 - 1300 7 - 50	3%" NPT Female 3%" NPT	¼" NPT Female ⅔" NPT	RS 14480 - 62 RS 14480 - 63
14480 - 64	35 - 345	3%" NPT	3%" NPT	RS 14480 - 63
14480 - 65	50 - 200	3%" NPT	3%" NPT	RS 14480 - 65
14480 - 66	200 - 600	3⁄8" NPT	3⁄8" NPT	RS 14480 - 66
14480 - 67	345 - 690	3⁄8" NPT	3%" NPT	RS 14480 - 67
14480 - 68	600 - 800	3%" NPT	3∕8" NPT	RS 14480 - 68
14480 - 69	600 - 1300	3%" NPT	3%" NPT	RS 14480 - 69
14480 - 70 14480 - 71	7 - 50 35 - 345	3%" BSP 3%" BSP	3⁄8'' BSP 3∕8'' BSP	RS 14480 - 70 RS 14480 - 71
14480 - 72	50 - 200	38" BSP	78 BSF 3/8" BSP	RS 14480 - 72
14480 - 73	200 - 600	3%" BSP	3/8" BSP	RS 14480 - 73
14480 - 74	345 - 690	3⁄8" BSP	3⁄8" BSP	RS 14480 - 74
14480 - 75	600 - 800	3∕8" BSP	3∕8" BSP	RS 14480 - 75
14480 - 76	600 - 1300	3/8" BSP	3%" BSP	RS 14480 - 76
14480 - 77	7 - 50	3%" MP Female	3%" NPT Female	RS 14480 - 77 RS 14480 - 78
14480 - 78 14480 - 79	35 - 345 50 - 200	3%" MP Female 3%" MP Female	¾" NPT Female ¾" NPT Female	RS 14480 - 78 RS 14480 - 79
14480 - 79	200 - 600	3%" MP Female	3%" NPT Female	RS 14480 - 79
14480 - 81	345 - 690	3/8" MP Female	3%" NPT Female	RS 14480 - 81
14480 - 82	600 - 800	3⁄8" MP Female	%" NPT Female	RS 14480 - 82
14480 - 83	600 - 1300	3∕8" MP Female	3%" NPT Female	RS 14480 - 83
14480 - 84	7 - 50	%6" MP	1/4" NPT	RS 14480 - 84
14480 - 85	35 - 345	%6" MP	1/4" NPT	RS 14480 - 85
14480 - 86 14480 - 87	50 - 200 200 - 600	%6" MP %6" MP	1/4" NPT 1/4" NPT	RS 14480 - 86 RS 14480 - 87
14480 - 87	345 - 690	%16" MP	1/4" NPT	RS 14480 - 87
14480 - 89	600 - 800		1/4" NPT	RS 14480 - 89
14480 - 90	600 - 1300	%6" MP	1/4" NPT	RS 14480 - 90
14480 - 91	7 - 50	%16'' MP	3%" NPT	RS 14480 - 91
14480 - 92	35 - 345	%6" MP	3%" NPT	RS 14480 - 92
14480 - 93	50 - 200	%16" MP	3%" NPT	RS 14480 - 93
14480 - 94 14480 - 95	200 - 600 345 - 690	%6" MP	3%" NPT 3%" NPT	RS 14480 - 94 RS 14480 - 95
14480 - 95	600 - 800	%16" MP %16" MP	3%" NPT	RS 14480 - 95 RS 14480 - 96
14480 - 97	600 - 1300	%6" MP	3%" NPT	RS 14480 - 97

Lock Down Screw Part Number: 14489 - 01

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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