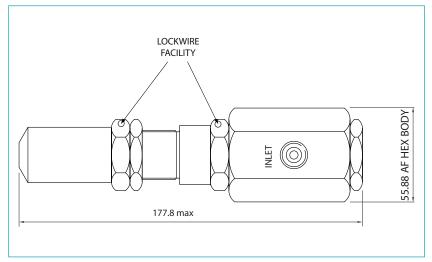
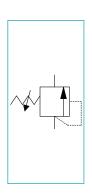
Hydraulic Service



Relief Valves for Accurate Pressure Control



SCHEMATIC





Features and Benefits

- Up to 1200 bar, 25 l / 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.
 * proof test pressure: 1350 bar.
- Flow Capacity at up to 10% overpressure: 25 I / m.
- Orifice Size: Ø 1/8".
- 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

- standard

- Viton- Silicone

- add suffix M089 eg. 14520 - 08 - M089 - add suffix M065 eg. 14520 - 08 - M065

- Low Temp Nitrile

- add suffix M1065 eg. 14520 - 08 - M106 - add suffix M106 eg. 14520 - 08 - M106

Seat Material - M340

Working Temperature

Temperature Range:

Viton -20°C to $+180^{\circ}\text{C}$ Nitrile -20°C to $+80^{\circ}\text{C}$ Flourosilicone -60°C to $+60^{\circ}\text{C}$ Acetal -60°C to $+60^{\circ}\text{C}$

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 marked and supplied with a test certificate plus a declaration of conformity.

Product Description

The Type 14520, 14530, 14580 and 14570 precision relief valve has been designed to provide accurate over pressure protection in systems operating at pressures of up to 1200 bar and flows of up to $25\,\mathrm{I/m}$.

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 and 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 0.97 Kg.

Accuracy of information

We take care to ensure that product information in this catalogue is reasonably accurate and up-to-date. Howeve our products are continually developed and updated so to ensure accurate and up-to-date information player.

When selecting a product, the applicable operating system design must be considered to ensure safe use. The product function, material compatibility, adequate ratings, correct installation, operation and maintenance are the responsibilities of the system designer and user.

Quality Assurance All Bifold products are manu QA programme to ensure the

QA programme to ensure that every product will give optimul performance and reliability. We are third party certified to SEN ISO 5001:2008. Functional east certificate, letter of conformity and copies of original mill certificates, providing total traceability are available on request, to SEN 10029 \$1.3 where available. We reserve the right to make changes to the specifications and design ecc., without prior notice.



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Selection Chart - Ordering Example

RELIEF VALVE 14520, 14530 AND 14580 SPECIFICATIONS				
Part Number	Pressure Range (bar)	Inlet Connection	Outlet Connection	Repair Kit
14530 - 01	100 - 240	1/4" NPT	1/4" NPT	RS 14530 - 01
14530 - 02	207 - 414	1/4" NPT	1/4" NPT	RS 14530 - 02
14530 - 03	345 - 700	1/4" NPT	1/4" NPT	RS 14530 - 03
14530 - 04	100 - 240	1/4" BSP	1/4" BSP	RS 14530 - 04
14530 - 05	207 - 414	1/4" BSP	1/4" BSP	RS 14530 - 05
14530 - 06	345 - 700	1/4" BSP	1/4" BSP	RS 14530 - 06
14580 - 13	100 - 240	3/8" MP	1/4" NPT	RS 14580 - 13
14580 - 14	207 - 414	3/8" MP	1/4" NPT	RS 14580 - 14
14580 - 15	345 - 700	3/8" MP	1/4" NPT	RS 14580 - 15
14580 - 16	600 - 1200	3/8" MP	1/4" NPT	RS 14580 - 16
14520 - 01	100 - 240	3%" NPT	3%" NPT	RS 14520 - 01
14520 - 02	207 - 414	3%" NPT	3%" NPT	RS 14520 - 02
14520 - 03	345 - 700	3%" NPT	3%" NPT	RS 14520 - 03
14520 - 04	100 - 240	3⁄8" BSP	3/8" BSP	RS 14520 - 04
14520 - 05	207 - 414	3⁄8" BSP	3/8" BSP	RS 14520 - 05
14520 - 06	345 - 700	3/8" BSP	3/8" BSP	RS 14520 - 06
14580 - 01	100 - 240	3/8" MP	3%" NPT	RS 14580 - 01
14580 - 02	207 - 414	3/8" MP	3%" NPT	RS 14580 - 02
14580 - 03	345 - 700	3/8" MP	3%" NPT	RS 14580 - 03
14580 - 04	600 - 1200	3/8" MP	3%" NPT	RS 14580 - 04
14580 - 07	100 - 240	3/8" MP	3/8" BSP	RS 14580 - 07
14580 - 08	207 - 414	3/8" MP	3/8" BSP	RS 14580 - 08
14580 - 09	345 - 700	3/8" MP	3/8" BSP	RS 14580 - 09
14580 - 04	600 - 1200	3/8" MP	3/8" BSP	RS 14580 - 04
14580 - 11	600 - 1200	3/8" MP	3/8" MP	RS 14580 - 11
14580 - 17	100 - 240	3⁄8" MP	½" NPT	RS 14580 - 17
14580 - 18	207 - 414	3/8" MP	½" NPT	RS 14580 - 18
14580 - 19	345 - 700	3/8" MP	½" NPT	RS 14580 - 19
14580 - 20	600 - 1200	3/8" MP	½" NPT	RS 14580 - 20
23600 - 01	100 - 240	½" NPT	½" NPT	RS 23600 - 01
23600 - 02	207 - 414	½" NPT	½" NPT	RS 23600 - 02
23600 - 03	345 - 700	½" NPT	½" NPT	RS 23600 - 03
23600 - 04	600 - 1200	½" NPT	½" NPT	RS 23600 - 04
14570 - 01	100 - 240	%6" MP	3%" NPT	RS 14570 - 01
14570 - 02	207 - 414	%16" MP	3%" NPT	RS 14570 - 02
14570 - 03	345 - 700	%16" MP	3%" NPT	RS 14570 - 03
14570 - 10	600 - 1200	%6" MP	3%" NPT	RS 14570 - 10
14570 - 07	100 - 240	%6" MP	³⁄₅" BSP	RS 14570 - 07
14570 - 08	207 - 414	%6" MP	3⁄8" BSP	RS 14570 - 08
14570 - 09	345 - 700	%6" MP	3/s" BSP	RS 14570 - 09
14570 - 04	600 - 1200	%16" MP	3⁄8" BSP	RS 14570 - 04
14570 - 11	600 - 1200	%6" MP	%6" MP	RS 14570 - 11
14570 - 12	100 - 240	%6" MP	½" NPT	RS 14570 - 12
14570 - 13	207 - 414	%6" MP	½" NPT	RS 14570 - 13
14570 - 14	345 - 700	%6" MP	½" NPT	RS 14570 - 14
14570 - 15	600 - 1200	%6" MP	½" NPT	RS 14573 - 15
23700 - 01	100 - 240	34" NPT	34" NPT	RS 23700 - 01
23700 - 02	207 - 414	¾" NPT	¾" NPT	RS 23700 - 02
23700 - 03	345 - 700	¾" NPT	¾" NPT	RS 23700 - 03
23700 - 04	600 - 1200	34" NPT	34" NPT	RS 23700 - 04
23800 - 01	100 - 240	3/4" MP	3/4" MP	RS 23800 - 01
23800 - 02	207 - 414	³⁄4" MP	3/4" MP	RS 23800 - 02
23800 - 03	345 - 700	³⁄4" MP	³⁄₄" MP	RS 23800 - 03
23800 - 04	600 - 1200	34" MP	3/4" MP	RS 28700 - 04

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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