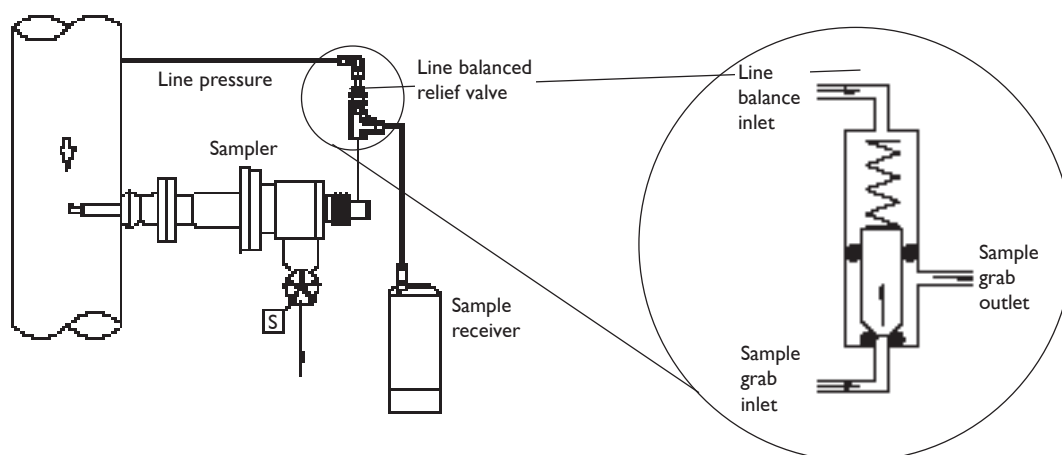




# Line Balanced Relief Valve



The line balanced relief valve (LBRV) is designed to reduce the maintenance costs of high pressure samplers. It is an alternative to a traditional fixed setting relief valve fitted at the outlet to a sampler. The LBRV works to balance the outlet back pressure requirement of the sampler to exceed the current process pressure by a fixed setting, so minimising the wear and tear on the sampler seals and also on the seats and seals of the relief valve. The use of this device should increase both the life and the reliability of the sampling system into which it is installed.

Normally a fixed relief valve will be set to operate at the maximum design operating pressure with the consequence that the differential pressure required to open the valve

may be significantly higher than the actual operating conditions demand. For example a full 600# rated system may only be operating at 100psi (7bar) but the relief valve may be set to 1440psi (100bar). The excess pressure setting results in significantly higher wear on the seals of the sample extractor.

## Specification

<b>Connections</b>	1/4 NPTF (1/4 NPTM, 1/4 or 6mm Swagelock optional)
<b>Max. operating pressure</b>	200 Bar
<b>Differential pressure</b>	Selected by spring
<b>Line temperature</b>	-18°C to +120°C/ -0.4°F to 248°F
<b>Viscosity range</b>	1 – 1000Cst
<b>Materials of construction</b>	316 S/S with Viton seals

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**UK**  
Jiskoot Quality Systems  
Tel: +44 (0)1892 518000  
Fax: +44 (0)1892 518100  
Email: ms-jiskootuksales@c-a-m.com

**USA**  
Jiskoot Quality Systems  
Tel: +1 281 583 0583  
Fax: +1 281 583 0587  
Email: ms-jiskootusasales@c-a-m.com

**Cameron**  
Measurement Systems  
Tel: +1 281 582 9500  
Fax: +1 281 582 9599  
Email: ms-marketing@c-a-m.com

Jiskoot Quality Systems  
A Cameron Company  
[www.jiskoot.com](http://www.jiskoot.com)  
  
[www.c-a-m.com/flo](http://www.c-a-m.com/flo)