

12.01.2012 | PRODUCT NEWS

World first: Announced to a patent!

Precise Pressure Regulator PPR for fuel consumption test rigs



### INSTRUM – The Swiss Original!

The directly-controlled stainless steel regulator precisely controls fuel pressures in the range from -0.4 to 10 bar. The regulator was specially developed for the high precision and material stability requirements of modern engine test rigs. Using the remote control with I/P transducer, the regulator can be used also for automated processes.

Due to special materials used in the new design like PTFE, FFKM - Kalrez and stainless steel, the INSTRUM PPR precision pressure regulators are suitable **for all fuels** like petrol, diesel, biodiesel (RME), aviation fuel, methanol, ethanol, petrol mixtures E5 to E100 and diesel mixtures B5 to B100.

The generously proportioned diaphragm actuator with directly-controlled valve seat gives an excellent response characteristic with very low hysteresis. High precision control is achieved thanks to the fully force-balanced valve trim, with a newly developed patented smooth running sealing system. The supported diaphragm with long spindle guide ensures high overpressure strength and safe regulator function. Admission pressure fluctuations have no influence on the regulator precision. They can be supplied as a back pressure regulator too.

More than 60 regulators are already in use in different test rigs!

#### CONTACT

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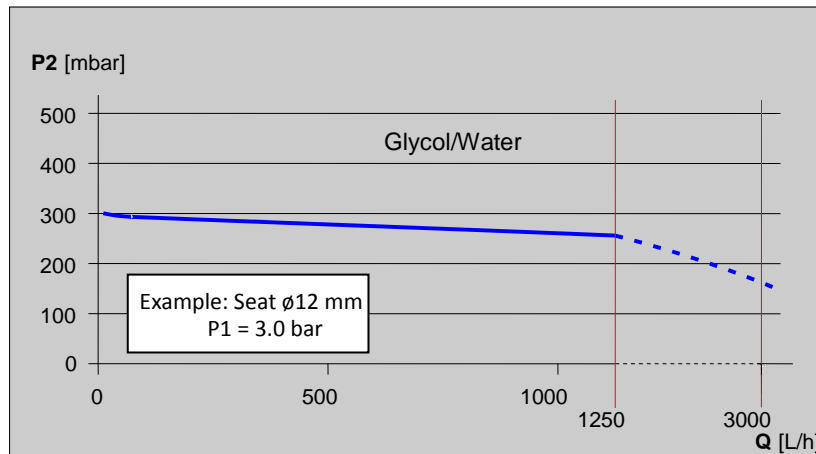
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The regulator has a low degree of clearance volume and is largely self-emptying. The flushing function is an optional extra.

Pressure / Flow characteristics of a ½" regulator



Specification:

Inlet pressure P1: up to 16 bar  
 Regulating range P2: -0.4 to 10 bar  
 Dimensions: ¼", ½", 1"

Setting precision of the regulating pressure P2 +/- 5 mbar  
 Regulator response characteristics better than +/- 5 mbar  
 Dependency on admission pressure per bar +/- 2 mbar

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