

# Regulating Pressure in Metered Estates

Three stage pressure reduction systems, which are becoming more popular, use 75mb pipe distribution systems to provide lpg to third stage regulators, often housed in meter boxes. At the tank, 75mb is reduced in two stages.

Clesse Industries has produced a new regulator, SCR (single cut regulator), which it says reduces pressure from vessels directly to 75mb, eliminating the need for two-stage pressure reduction.

"The SCR enhances our range of commercial tank regulators, offering OEM manufacturers major development opportunities to exploit, reducing the size of high capacity, together with improving performance and reliability," said Kaz Dziamarski, director at Clesse (UK) Ltd.

"Pressure shunt" can occur between first and second stage



Clesse orifice.

regulators, particularly with capacities over 40kg and when the regulators are close coupled. This is normally overcome with substantial pipe volume used as a buffer.

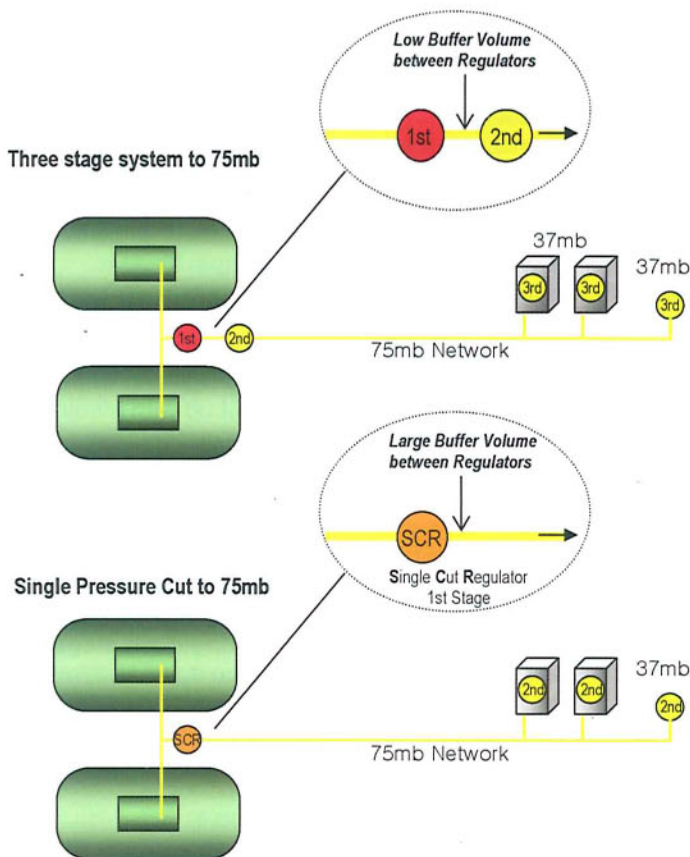
Factors, such as the velocity of gas and the resulting shock waves, affect close-coupled regulator capabilities. Such unstable conditions increase the possibility of OPSO and LRV intervention.

"The single cut SRC regulator, correctly installed, uses the large volume of pipework downstream of the 75mb network to eliminate any pressure shunt often found in three stage systems," said Kaz. "The regulator will be supplied as an OEM product for use on

networked pipework systems, e.g. metered estates, as part of a manufactured installation solution. Calor Gas is the first company to request SCR, which was developed in collaboration with RMS and Clesse UK, to harness the benefits of the regulator to produce high capacity 200kg twin stream modules that are both highly efficient and compact in design.

"The regulators include built in OPSO, optional UPSO and low pressure integral LRV, and they are exceptionally quiet in operation. The same regulator can also be used as a remote second stage where medium pressure ring systems are in operation."

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