

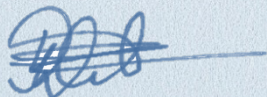
## Low Fugitive Emissions Certificate

### Velan Memoryseal™ and other resilient-seated ball valves

We certify that Velan Memoryseal™ and other resilient-seated ball valves listed in our product update document PU-API641 have been qualified to API Standard 641 Type Testing of Quarter-turn Valves for Fugitive Emissions. Test reports and performance results are available on request. All valves marked API 641 on the valve nameplate or on a separate permanent metal tag fully conform to the requirements of API 641. Graphite packed valves use API 622 certified packing.

We further certify that Velan Securaseal™ metal-seated ball valves have been designed in accordance with generally accepted good engineering practice for low fugitive emissions. Our valves have been type tested pursuant to recognized fugitive emissions qualification standards including API 641 and ISO-15848-1 and have been found to have fugitive emissions lower than 100 ppmv. This certification is based on extensive laboratory testing as well as field experience with regards to emissions performance of our valves.

To ensure low fugitive emissions throughout the operating life, valves must be used in accordance with Velan's installation, operating and maintenance instructions. In particular, it is important that gland and body-bonnet bolting is adjusted to recommended values and that stems are kept clean to prevent external dirt, grit, sand and other materials from damaging packing or stems. The corrosion and oxidization resistance of the valve components in relation to the application requirements must also be considered during valve selection.



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June 2019



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