

# CASE STUDY: MEMS Technology Whitepaper

<b>INDUSTRY</b>	Valve
<b>PROJECT NAME</b>	Micro-Electro-Mechanical Systems (MEMS Technology)
<b>PRODUCT TYPE</b>	Whitepaper
<b>DESCRIPTION</b>	Describe how MEMS technology could potentially be used in valve bodies, actuators, and/or stem seals to provide real-time condition monitoring of the health and performance of linear control valves.
<b>RESULT</b>	<p>The Whitepaper delivered an overview of the MEMS technology and provided better understanding of how this emerging technology may be applied in the control valve industry, and the range of applications and operating conditions for which it would be suitable. Current products use indirect measurement of current health and performance of valves (e.g. sliding friction is determined theoretically by measuring actuation air pressure and the speed of response of the valve stem) which introduce lag into the control algorithms as well as errors.</p> <p style="text-align: right;">File DOC-10 /MEMS Technology Whitepaper</p>
<b>DURATION</b>	45 Days

