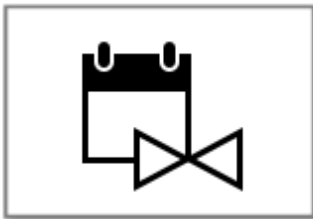


Valve Monitoring

Technical datasheet



Valve Monitoring collects data from valve positioners and makes them available for data analysis. Valve Monitoring is designed to increase plant uptime by avoiding unexpected valve failures, reduce maintenance cost through predictive maintenance and plan valve and positioner maintenance efficiently and effectively.

Product Variants

On premise	<ul style="list-style-type: none"> Data collection is performed on premise Valve Monitoring runs on a PC / Virtual Machine on premise Remote maintenance access is recommended
Cloud	<ul style="list-style-type: none"> Data collection is performed on premise Data is securely transferred into the cloud Valve Monitoring runs in the cloud Remote maintenance access is recommended

Prerequisites

Data Collection	<p>Communication link to positioners needs to be supplied (e.g. via field bus connection or via HART multiplexers). S7 400 controllers are supported via dataset routing in combination with PDM.</p> <p>Valve Monitoring relies on device data collected from intelligent positioners. The data collection can be performed by</p> <ul style="list-style-type: none"> PDM Maintenance Station PCS 7 integrated Maintenance Station (\geqV9.0.1) <p>Valve Monitoring also works in plants with 3rd party DCS.</p>
PC / Virtual Machine required to run Valve Monitoring on premise	<p>Hardware:</p> <ul style="list-style-type: none"> CPU: Multi-Core Memory: 8 GB

	<ul style="list-style-type: none"> ▪ HDD: > 100 GB (required size depends on number of monitored valves and how often XML-files are ingested) <p>Can be supplied by customer or by Siemens (Siemens recommends Industrial PC Microbox IPC427E, MLFB 6AG4141-3BJ00-0GA0.)</p> <p>Software:</p> <ul style="list-style-type: none"> ▪ Linux¹ with Docker¹ and Docker Compose¹ or ▪ Windows 10 64-bit² ▪ Virtualbox^{1 2} <p>¹ Part of Siemens installation package ² optional – depending on whether customer requires Windows environment</p>
Supported positioners	<ul style="list-style-type: none"> ▪ SIPART PS2 <ul style="list-style-type: none"> ○ HART V4 and V5 ○ Profibus PA V5 and V6 ▪ Samson 3730 and 3731 (REV1 und REV6) <p>Other intelligent positioners can be integrated in the App</p>
Client	<p>Client needed to access the web frontend of Valve Monitoring.</p> <p>Requirements:</p> <ul style="list-style-type: none"> ▪ Chrome / portable Chrome ≥ V77 ▪ Full HD resolution recommended (since optimized accordingly).
Configuration and Setup	<p>Valve Monitoring requires setup and configuration of Data Collector and Valve Monitoring Infrastructure</p>