



## OpenFlows<sup>™</sup> Water Comparison Checklist

	OpenFlows Water Ultimate	OpenFlows Water Advanced	OpenFlows Water Standard	OpenFlows Water Essentials
Sizing	Unlimited Pipes	≤5,000 pipes	≤1,000 pipes	≤100 pipes
Interoperability				
Run OpenFlows Water within AutoCAD*, MicroStation**, or a stand-alone interface	•	•	•	•
Run OpenFlows Water (WaterGEMS** application only) within ArcGIS* and ArcGIS Pro*	•	•		
Model Building and Connection				
Develop and assign demands from GIS shapefile data (customer meters, land use, population, or metered areas)	•	•	•	•
Build models and/or assign demands using data from CAD, GIS shapefiles, spreadsheets, Oracle Spatial, and other databases	•	•	•	•
Node elevation assignment from digital terrain data in Bentley DTM, DXF, LandXML, and shapefile formats	•	•	•	•
Assign unaccounted-for water demands using the unit line method	•	•	•	•
Build models from geodatabases or ArcGIS Online data sources	•	•		
Automated model skeletonization through Skelebrator®	•	•		
Real-time modeling through SCADAConnect <sup>®</sup> Simulator	•	•		
Connect to SCADA data to initialize model run from current or historic element status or compare actual and modeled values	•	•	≤25 signals	≤25 signals
Model Building and Connection				
Comprehensive, unlimited scenario management	•	•	•	•
Query-based active topology	•	•	•	•
Custom engineering libraries	•	•	•	•
Dynamic and static selection sets	•	•	•	•
Orphaned nodes and dead-end pipe queries	•	•	•	<b>♦</b>

\*License Required



Hydraulics, Operations, and Water Quality	OpenFlows Water Ultimate	OpenFlows Water Advanced	OpenFlows Water Standard	OpenFlows Water Essentials
Run hydraulic analysis for steady-state and extended-period simulations	•	•	•	<b>ب</b>
Automated fire flow analysis	•	•	•	<b></b>
Water quality analysis (age, constituent, trace, and MSX)	•	•	•	•
Pressure zone identification and flow balance calculation	•	•	•	•
Pump energy cost analysis	•	•	•	•
Conventional and unidirectional flushing analysis	•	•	•	•
Criticality assessment for pipe/segment shutdown and valve isolation studies	•	•	•	•
Results Presentation				
Thematic mapping with property-based color coding, symbology, and annotations	•	•	•	•
Scenario and element comparison	•	•	•	<b>♦</b>
Optimization				
Pipe vulnerability rating through Pipe Renewal Planner	•	•		
Al-powered model calibration using genetic algorithms	•	•		
Al-powered pipe sizing using genetic algorithms	•	•		
Al-powered pump schedule optimization using genetic algorithms	•	•		
Orphaned nodes and dead-end pipe queries	•	•		
Transient Simulation and Analysis				
Transient analysis using method of characteristics	•	•	•	
Extended period simulation	•	•	•	
Periodic head/flow	•	•	•	
Surge protection devices	•	•	•	
Wave speed calculator	•	•	•	

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1.800.BENTLEY (1.800.236.8539) | Outside the US +1.610.458.5000 | GLOBAL OFFICE LISTINGS bentley.com/contact

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