



Bentley AutoPIPE V8i

AutoPIPE Standard vs Plus vs Nuclear Editions Comparative Features

Feature	AutoPIPE	AutoPIPE Plus	Nuclear
Hanger	■	■	■
Static Linear	■	■	■
Static Nonlinear	■	■	■
Modal	■	■	■
Response Spectrum (Uniform & Multiple Support) (SRSS combination method – Standard version)	■ Note 3	■	■
Harmonic		■	■
Force Spectrum		■	■
Time History		■	■
SAM		■	■
Buried pipe w/ automatic Soil Calculator		■	■
NUREG combinations and Code case 411 spectrum		■	■
Static correction - Missing mass correction and ZPA		■	■
50 Response Spectrum load cases		■	■
Static earthquake	■	■	■
Wind - ASCE, UBC and User Profile	■	■	■
Thermal Bowing	■	■	■
Wave loading and buoyancy		■	■
Fluid Transient Loads		■	■
Relief Valve Loads		■	■
Thermal Transient Analysis			■
Fatigue Analysis (class 1)			■
High Energy Leakage and Crack Criteria (ASME class 1, 2, 3)			■
Flange Design (ASME VIII Div 1 & 2, ASME III Appendix XI)		■	■
ASME B31.1, B31.3, B31.4, and B31.8	■ Note 2	■	■

European piping code EN13480	■	■	■
B31.4 Offshore, A31.8 Offshore & CSA_Z662 Offshore codes		■	■
ASME III Class 2 and Class 3 (multiple years)			■
ASME Class III Class 1 (multiple years)			■
JSME S NC1-PPC			■
ASME B31.1-1967		■	■
Canadian piping codes		■	■
Russian SNIP 2.05.06-85 Oil & Gas		■	■
International piping codes		■	■
KHK Level 1 piping code		■	■
KHK Level 2 piping code		■ Note 1	■ Note 1
Analysis Sets for multiple static analyses	■	■	■
General piping code	■	■	■
Rotating Equipment reports	■	■	■
Large model size	■	■	■
Beam elements for modeling frames and supports	■	■	■
Material and Component Library utilities	■	■	■
STAAD Structural Libraries	■	■	■

Note 1: A KHK 2 Add-On option is required to access this feature (Available for PLUS & Nuclear editions)

Note 2: Multiple years are available in Plus and Nuclear editions. Standard edition only supports latest code year.

Note 3: Multiple support response spectrum analysis only available in Plus & Nuclear editions.

Maximum defined static and dynamic load cases:

Load Cases	Standard	Plus	Nuclear
Gravity	1	1	1
Hydrotest	1	1	1
Thermal	5	100	100
Pressure	5	100	100
Static Earthquake	5	10	10
Wind	5	10	10
User	5	140	140
Response Spectrum	5	50	50
Harmonic	Not Available	10	10
Seismic Anchor Movement	Not Available	10	10
Force Spectrum	Not Available	10	10
Time History	Not Available	50	50
Static Analysis Cases	27 [Note 4]	82 [Note 4]	82 [Note 4]

Note 4: Maximum number of load cases that can be analyzed in a single analysis set during a static analysis run in v9.1 or later. However an unlimited number of analysis sets can be run in a single static analysis in v9.1 or later.

= Gravity (1) + Hydrotest (1) + Thermal (20) + Pressure (20) + Static Earthquake (10) + Wind (10) + User (20)

= 82 cases for Plus & Nuclear (27 for Standard)

Up to 100 different thermal loadings can be defined and analyzed in a single static analysis. Only 20 thermal load cases per analysis set e.g. if want to run 50 thermal cases then define across 3 analysis sets. Since each analysis set can have analyze up to 82 static cases, so literally 100's of loads can be analyzed in different scenarios with different options, linear , non-linear , hot or cold modulus etc in the same static analysis run.