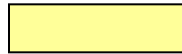


AutoPIPE V8i Standard vs PLUS vs Nuclear

This table shows differences between AutoPIPE Standard vs Plus vs Nuclear Editions

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		✓	✓
NUREG combinations and Code case 411 spectrum		✓	✓
Static correction - Missing mass correction and ZPA		✓	✓
10 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)		✓	✓
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		✓	✓
International piping codes		✓	✓
KHK Level 2 piping code		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	✓	✓	✓



Plus features only



Nuclear features only

Note 1: A KHK 2 Add-On option is required to access this feature.

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 6.3	Plus 6.3	Standard 9.2	Plus 9.2	Nuclear 9.2
Gravity	1	1	1	1	1
Hydrotest	1	1	1	1	1
Thermal	3	3	5	100	100
Pressure	3	3	5	100	100
Static Earthquake	3	3	5	10	10
Wind	3	3	5	10	10
User	3	3	5	140	140
Response Spectrum	3	10	5	50	50
Harmonic	Not Available	3	Not Available	10	10
Seismic Anchor Movement	Not Available	3	Not Available	10	10
Force Spectrum	Not Available	3	Not Available	10	10
Time History	Not Available	3	Not Available	10	10
Static Analysis Cases	12	12	27 [Note 2]	82 [Note 2]	82 [Note 2]

Note 2: Maximum number of load cases that can be analyzed in a single analysis set during a static analysis run in v9.1. However an unlimited number of analysis sets can be run in a single static analysis in v9.1.

= 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.