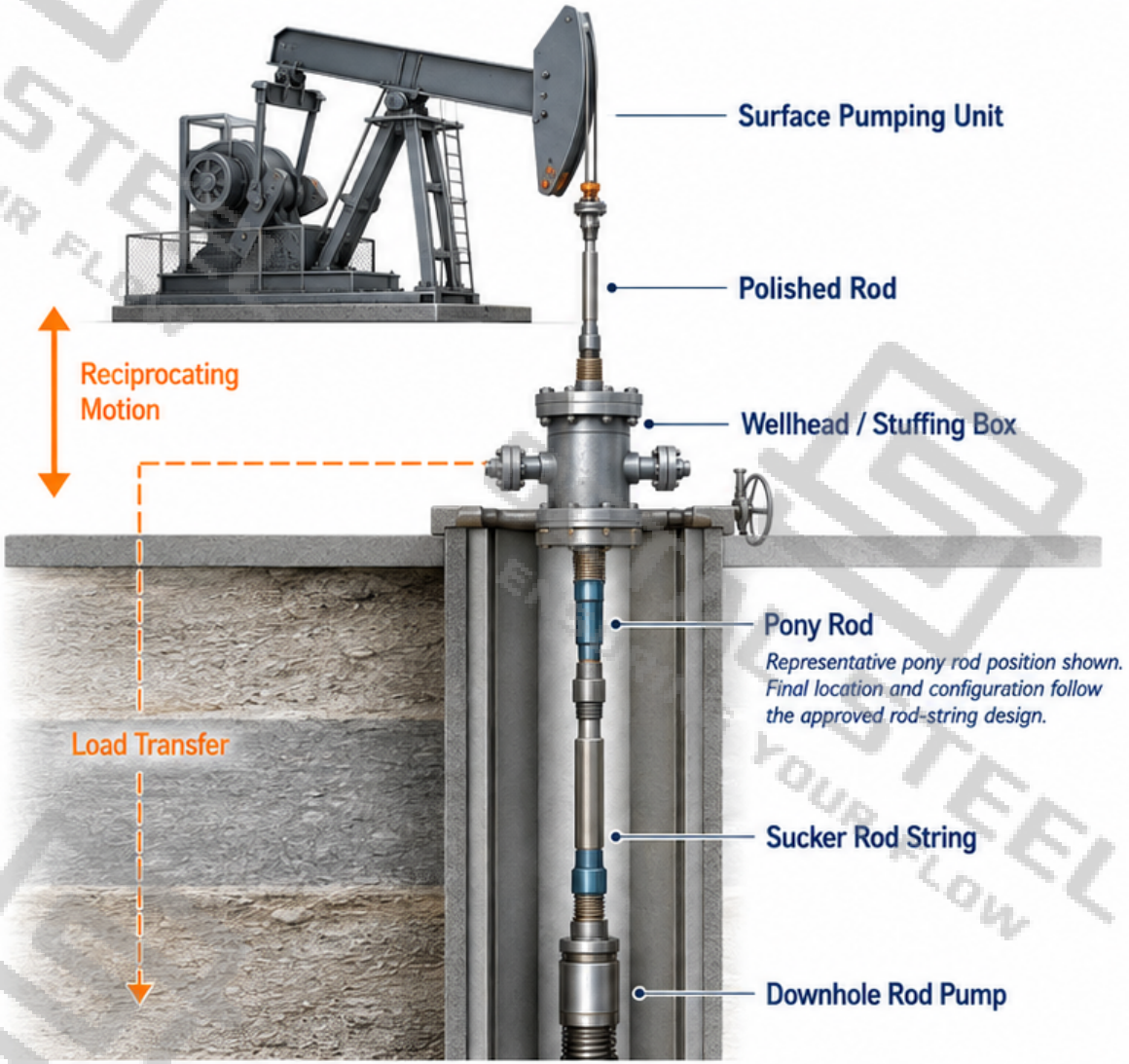
Pony Rod Function and Rod-String Position



1. LENGTH ADJUSTMENT

Provides shorter rod-length increments when standard full-length sucker rods alone cannot achieve the required assembled string length.

2. LOAD TRANSFER

Remains part of the reciprocating load path and transfers cyclic tensile and dynamic loads with the sucker rod string.

3. COMPONENT COMPATIBILITY

Body diameter, grade, thread and coupling must remain compatible with the installed rod-string section.

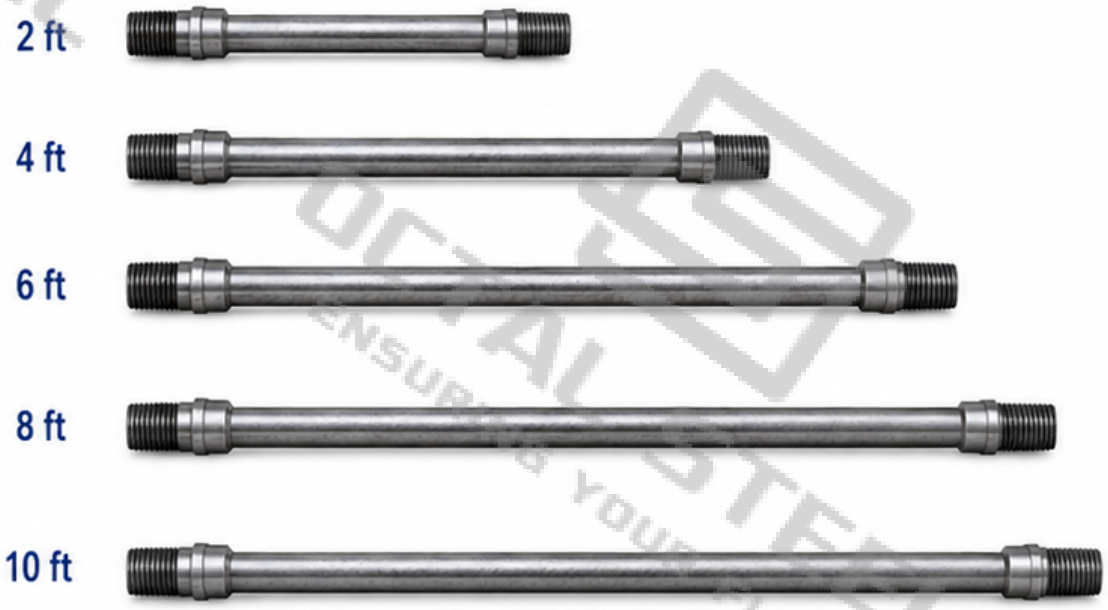
INITIAL SELECTION INPUTS

API Spec 11B requirements where specified.

Representative Pony Rod Sizes and Length Adjustment

1. REPRESENTATIVE LENGTH CONFIGURATIONS

Representative Industry Pony Rod Lengths



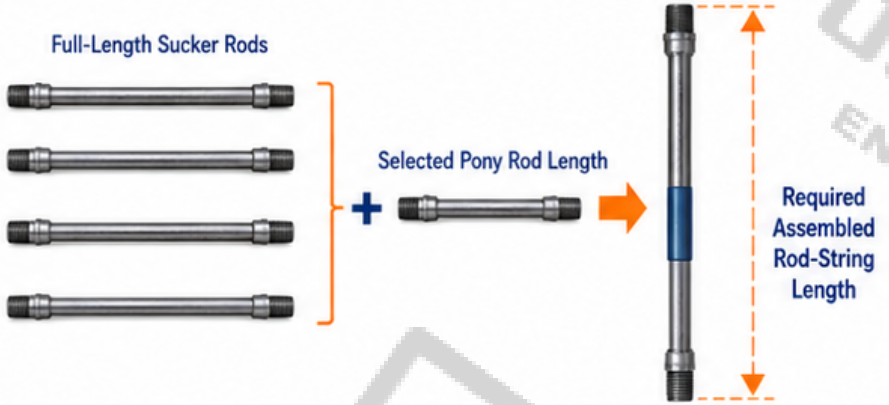
Project-specific lengths may also be specified.

2. REPRESENTATIVE BODY DIAMETERS

Representative Body Diameters
3/4 in.
7/8 in.
1 in.

Final diameter follows the adjoining rod-string section and approved project specification.

3. LENGTH ADJUSTMENT LOGIC



4. DIMENSION SELECTION CONTROLS

- Required installed length
- Rod body diameter
- Rod-string section
- Grade
- Thread configuration
- Coupling compatibility

Representative configurations only. Final pony rod dimensions follow the approved project datasheet.

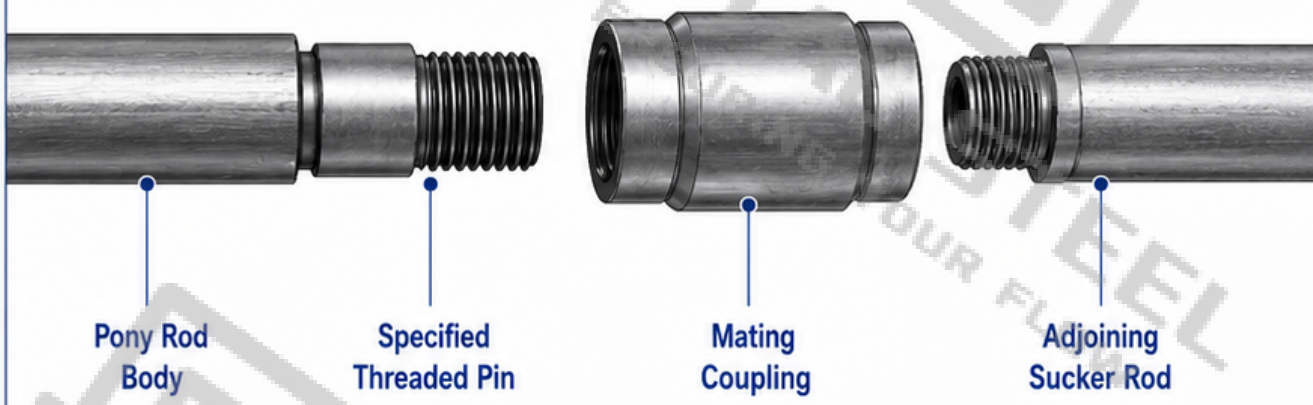
API Spec 11B requirements where specified.

Pony Rod and Sucker Rod Connection Compatibility

1. COMPONENT COMPARISON

Selection Point	Sucker Rod	Pony Rod
Primary Function	Main full-length load-transmitting string member.	Short adjustment member that continues transmitting load.
Typical Length Role	Standard full-length sizes (e.g., 25 ft).	Shorter lengths for precise length adjustment.
Body Diameter	From rod-string specification.	Matches adjoining rod body diameter.
Grade / Material	Per project specification.	Must match adjoining rod-string grade.
End Connection	Threaded ends with standard couplings.	Threaded pin for mating coupling connection.
Main Ordering Concern	Correct size, grade, and connection type.	Correct assembled length and connection compatibility.

2. CONNECTION DETAIL (ENLARGED)



3. CENTRAL ENGINEERING RULE – THREE INTERFACES MUST ALIGN

All three interfaces must be compatible with the installed rod-string section.

4. CONNECTION CHECK – VERIFY BEFORE INSTALLATION

Body Diameter
- ☐ Matches adjacent rod-string specification.

Thread Configuration
- ☐ Thread type and form match specification.

Mating Coupling
- ☐ Coupling type is compatible with threaded pin.

Grade Compatibility
- ☐ Grade meets or exceeds adjoining rod requirement.

Adjacent Rod Specification
- ☐ Adjoining rod meets specified requirements.

Connection Condition
- ☐ Threads and coupling are clean and undamaged.

A correct pony rod length does not compensate for an incompatible thread or coupling.

API Spec 11B requirements where specified.

Pony Rod Grade, Material and Operating Condition Selection

1. GRADE / SERVICE MATRIX

Grade / Service Direction	Typical Engineering Use	Main Selection Focus
Grade C	Light-to-moderate mechanical loading under controlled or non-aggressive corrosion conditions	Cyclic load, fatigue duty, rod diameter and connection compatibility
Grade K	Rod-lift service where corrosion resistance is a more important selection factor	Produced-fluid chemistry, corrosion severity, load level and fatigue
Grade D	Moderate-to-higher mechanical loading where greater rod strength is required	String load, well depth, stress range, connection loading and corrosion condition
Higher-Strength / Special Construction	More demanding load or environmental conditions where specified by the rod-string design	Mechanical properties, fatigue performance, material route and complete string compatibility

2. OPERATING CONDITION SELECTION

CONVENTIONAL ROD-LIFT

Focus:

- required length
- compatible diameter
- grade
- thread system.

CORROSIVE SERVICE

Focus:

- produced-fluid chemistry
- corrosion mechanism
- mechanical stress
- material / grade selection.

HIGH-LOAD OR DEEPER WELL

Focus:

- rod-string weight
- cyclic loading
- connection capacity
- compatible mechanical properties.

WORKOVER / EXISTING STRING

Focus:

- existing rod diameter
- grade
- thread condition
- coupling
- required adjustment length.

3. CENTRAL SELECTION LOGIC

Service Condition → Mechanical Requirement → Grade / Material → Diameter → Length → Connection Compatibility

NOTE: Do not imply that one grade is universally suitable for a defined well condition. Final selection follows the approved rod-string design and project specification.