



# Expansion Joint

## Single End

# 611

### IMPORTANT LINKS

Click appropriate words to go to:

[Standard Limited Warranty](#)

[Sales Terms & Conditions](#)

[Freight Policy](#)

[Returns Policy](#)

[Corrosion & Product Selection Notice](#)

**Description:** A slip type joint that allows for thermal expansion or contraction in pipelines.

**Application:** Absorbing changes in pipe length due to concentrated pipe movement in a given area of pipe.

### Key Features:

- Meets applicable AWWA C221 Standards
- Compact in design and can be customized to handle many applications
- Available in a variety of end types: Plain ends beveled for welding, flanged and others
- Accommodates a large amount of axial pipe movement, relieving stress buildup in the pipeline
- Hard Chrome-Plated slip pipe helps:
  - Ensure free movement
  - Reduces friction and wear on the packing rings
  - Resists scratching and scoring of the slip pipe surface
- Optional Limit Rods offer three important functions:
  - Limits travel of slip pipe, preventing it from pulling out of the body when used with two or more expansion joints
  - Is used to indicate the position of the slip pipe within the body to know where it is in the expansion/contraction cycle
- Generous Packing Provides:
  - Great sealing between the body and the slip pipe
  - Increased life of the packing before replacement is necessary
  - Designed to allow replacement of packing without taking the expansion joint out of service

### Materials Specifications (subject to change):

BODY: Carbon Steel AISI C1015-20 or ASTM A283 GR. C

SLIP PIPE: Carbon Steel ASTM A53. ASTM A283 or AISI C1015-20. Hard chromed plated on a machined surface or optional Stainless Steel

GASKET: Alternate square rings of lubricant impregnated with fibrous packing and Nitrile (Buna N) rubber, compounded to resist oil, natural gas, acids, alkalies, most (aliphatic) hydrocarbon fluids, water and other chemicals

Temperature Range: -20°F to 180°F

LIMIT RODS: High strength low alloy Steel with heavy, semi-finished hexagon nuts

BODY STUDS/BOLTS & NUTS: High strength low alloy Steel with heavy, semi-finished hexagon nuts

*Optional: Stainless Steel hardware for corrosive applications to allow re-torque of packing material*

**Working Pressure:** Up to 150 PSI

**Pipe Applications:** Steel, Cast Iron

**Size (in inches):** 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24. NOTE: Larger sizes available upon request.



# Expansion Joint

## Single End

611

Without Slip Pipe // Without Limit Rods //  
Open (cold) Length = 26" // Weld End

STEEL PIPE SIZE		CATALOG NUMBER	WT. EACH LBS.
NOMINAL PIPE SIZE INCHES	PIPE O.D. INCHES (A)		
3	3.50	611-03501010-000	50
4	4.50	611-04501010-000	65
6	6.63	611-06631010-000	90
8	8.63	611-08631010-000	125
10	10.75	611-10751010-000	165
12	12.75	611-12751010-000	195
14	14.00	611-14001010-000	220
16	16.00	611-16001010-000	250
18	18.00	611-18001010-000	280
20	20.00	611-20001010-000	310
22	22.00	611-22001010-000	340
24	24.00	611-24001010-000	370

When expansion joints are furnished without slip pipes, the customer is responsible for providing a smooth surfaced, properly sized slip pipe and assumes all responsibility for proper operation of the expansion joint. The customer furnished slip pipe must have a prepared end at least 24 inches long that is round, smooth and no greater than  $\pm .30"$  or  $-.10"$  from nominal size.

With Slip Pipe // Without Limit Rods //  
Open (cold) Length = 38" // Weld End

STEEL PIPE SIZE		CATALOG NUMBER	WT. EACH LBS.
NOMINAL PIPE SIZE INCHES	PIPE O.D. INCHES (A)		
3	3.50	611-03502010-000	75
4	4.50	611-04502010-000	90
6	6.63	611-06632010-000	125
8	8.63	611-08632010-000	200
10	10.75	611-10752010-000	270
12	12.75	611-12752010-000	300
14	14.00	611-14002010-000	335
16	16.00	611-16002010-000	385
18	18.00	611-18002010-000	475
20	20.00	611-20002010-000	520
22	22.00	611-22002010-000	560
24	24.00	611-24002010-000	625

With Slip Pipe // Without Limit Rods //  
Open (cold) Length = 39" // Flanged End

STEEL PIPE SIZE		CATALOG NUMBER	WEIGHT EACH LBS.
NOMINAL PIPE SIZE INCHES	PIPE O.D. INCHES (A)		
3	3.50	611-03504010-000	90
4	4.50	611-04504010-000	115
6	6.63	611-06634010-000	165
8	8.63	611-08634010-000	260
10	10.75	611-10754010-000	355
12	12.75	611-12754010-000	425
14	14.00	611-14004010-000	515
16	16.00	611-16004010-000	580
18	18.00	611-18004010-000	735
20	20.00	611-20004010-000	850
22	22.00	611-22004010-000	930
24	24.00	611-24004010-000	1065

With Slip Pipe // With Limit Rods //  
Open (cold) Length = 40.5" // Weld End

STEEL PIPE SIZE		CATALOG NUMBER	WEIGHT LBS.
NOMINAL PIPE SIZE INCHES	PIPE O.D. INCHES (A)		
3	3.50	611-03503010-000	80
4	4.50	611-04503010-000	100
6	6.63	611-06633010-000	150
8	8.63	611-08633010-000	200
10	10.75	611-10753010-000	265
12	12.75	611-12753010-000	330
14	14.00	611-14003010-000	380
16	16.00	611-16003010-000	430
18	18.00	611-18003010-000	480
20	20.00	611-20003010-000	540
22	22.00	611-22003010-000	595
24	24.00	611-24003010-000	650

With Slip Pipe // With Limit Rods //  
Open (cold) Length = 50.5" // Flanged End

STEEL PIPE SIZE		CATALOG NUMBER	WEIGHT LBS.
NOMINAL PIPE SIZE INCHES	PIPE O.D. INCHES (A)		
3	3.50	611-03505010-000	95
4	4.50	611-04505010-000	125
6	6.63	611-06635010-000	185
8	8.63	611-08635010-000	260
10	10.75	611-10755010-000	350
12	12.75	611-12755010-000	460
14	14.00	611-14005010-000	560
16	16.00	611-16005010-000	685
18	18.00	611-18005010-000	740
20	20.00	611-20005010-000	870
22	22.00	611-22005010-000	965
24	24.00	611-24005010-000	1090