



# Expansion Joint

## Double End

# 612

### IMPORTANT LINKS

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[Standard Limited Warranty](#)

[Sales Terms & Conditions](#)

[Freight Policy](#)

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[Corrosion & Product Selection Notice](#)



**THIS PRODUCT DOES NOT RESTRAIN PIPE MOVEMENT.** Proper anchoring is required to prevent pipe pullout. Failure to anchor or improper anchoring can result in dangerous pipe content escape, property damage, serious injury, or death. Read the product installation instructions prior to installing this product.

**Description:** A fitting with slip type joints with a slip pipe at each end to accommodate axial pipe movement.

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

NOTE: This fitting must always be anchored to prevent the total pipe movement from accumulating in one end.

### 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 and flanged
- Accommodates a large amount of axial pipe movement, relieving stress buildup in the pipeline
- Hard Chrome-Plated Slip Pipe helps:
  - Ensure free movement
  - Reduce friction and wear on the packing rings
  - Resist 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 using two or more expansion joints, they activate the adjoining sleeve when the other has reached its full limit
  - 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
  - The possibility of considerable tightening and adjustments in the future
  - 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

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. For other temperature ranges, alternate packing materials can be offered

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



612

# Expansion Joint

## Double End

Without Slip Pipe // Without Limit Rods //  
Open (cold) Length = 36" // Weld End

STEEL PIPE SIZE		CATALOG NUMBER	WT EACH LBS.
NOMINAL PIPE SIZE INCHES	PIPE O.D. INCHES (A)		
3	3.50	612-03501010-000	60
4	4.50	612-04501010-000	75
6	6.63	612-06631010-000	100
8	8.63	612-08631010-000	145
10	10.75	612-10751010-000	180
12	12.75	612-12751010-000	205
14	14.00	612-14001010-000	235
16	16.00	612-16001010-000	265
18	18.00	612-18001010-000	305
20	20.00	612-20001010-000	335
22	22.00	612-22001010-000	370
24	24.00	612-24001010-000	400

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 +.30" or -.10" from nominal size.

With Slip Pipe // With Limit Rods //  
Open (cold) Length = 36" // Weld End

STEEL PIPE SIZE		CATALOG NUMBER	WT EACH LBS.
NOMINAL PIPE SIZE INCHES	PIPE O.D. INCHES (A)		
3	3.50	612-03503010-000	100
4	4.50	612-04503010-000	130
6	6.63	612-06633010-000	190
8	8.63	612-08633010-000	270
10	10.75	612-10753010-000	100
12	12.75	612-12753010-000	130
14	14.00	612-14003010-000	190
16	16.00	612-16003010-000	270
18	18.00	612-18003010-000	610
20	20.00	612-20003010-000	700
22	22.00	612-22003010-000	770
24	24.00	612-24003010-000	840

With Slip Pipe // Without Limit Rods //  
Open (cold) Length = 48" // Weld End

STEEL PIPE SIZE		CATALOG NUMBER	WT. EACH LBS.
NOMINAL PIPE SIZE INCHES	PIPE O.D. INCHES (A)		
3	3.50	612-03502010-000	85
4	4.50	612-04502010-000	120
6	6.63	612-06632010-000	160
8	8.63	612-08632010-000	230
10	10.75	612-10752010-000	290
12	12.75	612-12752010-000	405
14	14.00	612-14002010-000	475
16	16.00	612-16002010-000	530
18	18.00	612-18002010-000	575
20	20.00	612-20002010-000	625
22	22.00	612-22002010-000	670
24	24.00	612-24002010-000	740

With Slip Pipe // Without Limit Rods //  
Open (cold) Length = 56" // Flanged End

STEEL PIPE SIZE		CATALOG NUMBER	WT. EACH LBS.
NOMINAL PIPE SIZE INCHES	PIPE O.D. INCHES (A)		
3	3.50	612-03504010-000	100
4	4.50	612-04504010-000	145
6	6.63	612-06634010-000	200
8	8.63	612-08634010-000	290
10	10.75	612-10754010-000	375
12	12.75	612-12754010-000	535
14	14.00	612-14004010-000	585
16	16.00	612-16004010-000	725
18	18.00	612-18004010-000	835
20	20.00	612-20004010-000	955
22	22.00	612-22004010-000	1040
24	24.00	612-24004010-000	1180

With Slip Pipe // With Limit Rods //  
Open (cold) Length = 71" // Flanged End

STEEL PIPE SIZE		CATALOG NUMBER	WT. EACH LBS.
NOMINAL PIPE SIZE INCHES	PIPE O.D. INCHES (A)		
3	3.50	612-03505010-000	115
4	4.50	612-04505010-000	155
6	6.63	612-06635010-000	230
8	8.63	612-08635010-000	330
10	10.75	612-10755010-000	435
12	12.75	612-12755010-000	555
14	14.00	612-14005010-000	665
16	16.00	612-16005010-000	745
18	18.00	612-18005010-000	870
20	20.00	612-20005010-000	1030
22	22.00	612-22005010-000	1140
24	24.00	612-24005010-000	1280