

# GENERAL INFORMATION

## STANDARD SERIES OF ANACONDA EXPANSION JOINTS

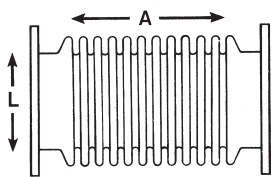
### SERIES ES, EL (one ply bellows)

ES and EL Expansion Joints are made from Type 321 Stainless Steel and are available as standard units in pipe sizes from 2" through 48". Standard E-Series units absorb pipe movement in various combinations of directions. Standard Fittings: steel welding nipples and steel fixed and floating flanges, are attached to the bellows by inert-gas, shielded-arc welding.

### SERIES MS, ML (Two Ply), FS, FL (Three Ply)

MS, ML, FS and FL Expansion Joints are designed for use where pressure and application requirements exceed the capabilities of the ES and EL Series.

#### SHORT STYLE

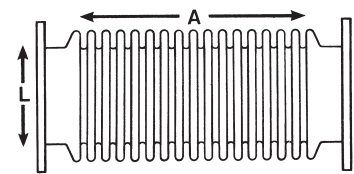


#### SERIES ES, MS, FS

Small amount of axial "A", slight amount of lateral "L" or a combination of both movements.

Standard E, F and M Series Expansion Joints are designed to take both axial travel and lateral offset.

#### LONG STYLE



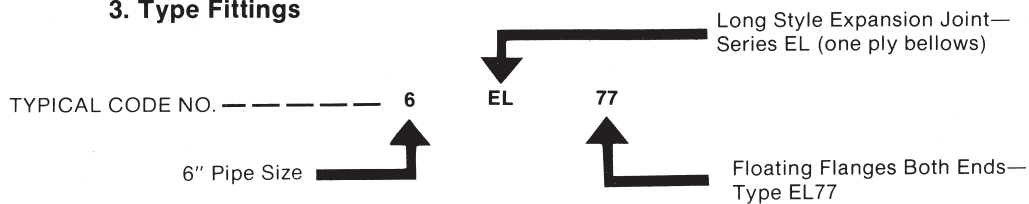
#### SERIES EL, ML, FL

Large amount of axial "A" (full rated amount in compression and up to 1/4" in extension), small amount of lateral "L" or a combination of both movements.

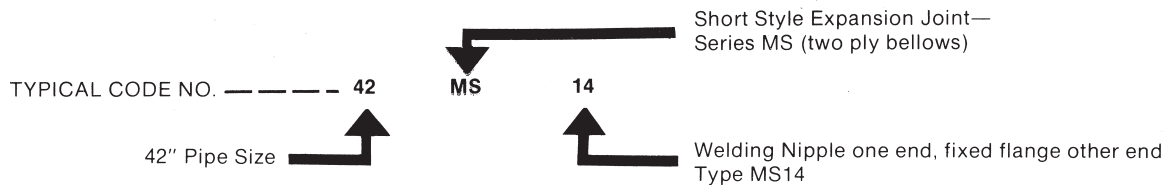
## HOW TO SPECIFY

Standard Anaconda Expansion Joints are identified by code numbers, derived from the Specifications

1. Pipe Size
2. Expansion Joint Series
3. Type Fittings



#### EXAMPLES

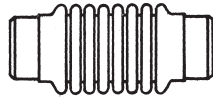


#### NOTES

1. Special fittings can be supplied for individual requirements (including stainless steel).
2. Expansion Joints specified with any combinations of above fittings are considered standard units.

# STANDARD TYPES OF ANACONDA EXPANSION JOINTS . . .

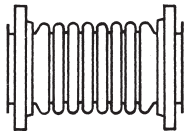
## WELDING NIPPLES



### TYPE 11

Carbon steel welding nipples, ANSI standard bevel. Schedule 40 pipe sizes through 12". 1/4" wall thickness for sizes 14" through 48".

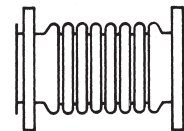
## FLOATING FORGED STEEL FLANGES



### TYPE 77

**All types E, M, and F Series**  
Forged steel or ductile iron—150# ANSI O.D and drilling. Integral end of bellows vanstoned (flared) to retain flanges and form gasket surface area.

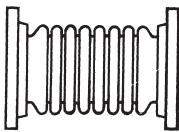
## FLOATING PLATE STEEL FLANGES



### TYPE 77P

**ES, EL, MS and ML Series**—sizes through 24"—150# ANSI flat face O.D. and drilling. Sizes over 24" 125# ANSI flat face O.D. and drilling.  
**FS 77P** 300# ANSI O.D. and drilling.  
**FL 77P** 150# ANSI O.D. and drilling.

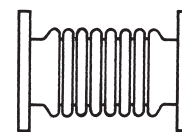
## FIXED FORGED STEEL FLANGES



### TYPE 44

**ES, EL, MS, and ML Series**—Sizes through 24" - Forged steel flanges, 150# ANSI O.D. and drilling.  
Sizes over 24" - 125# ANSI flanges.  
**FS 44**—sizes through 8" - 300# ANSI flanges.  
Sizes 10" - 24" - 150# ANSI flanges.  
Sizes over 24" - 125# ANSI flanges.  
**FL 44**—Sizes through 24" - 150# ANSI flanges.  
Sizes over 24" - 125# ANSI flanges.

## FIXED PLATE STEEL FLANGES



### TYPE 44P

**ES, EL, MS, ML Series**—sizes through 24"—150# ANSI flat face O.D. and drilling.  
Sizes over 24"—125# ANSI flat face O.D. and drilling.  
**FS 44P**—sizes through 8" 300# ANSI Raised Face O.D. and drilling.  
Sizes 10" through 24" 150# ANSI raised face O.D. and drilling.  
Sizes over 24" - 125# ANSI flat face O.D. and drilling.  
**FL 44P**—sizes through 24" 150# ANSI raised face O.D. and drilling.  
Sizes over 24" 125# ANSI flat face O.D. and drilling.