

# FJ-RESTRAINT FLEXIBLE BALL JOINT RESTRAINT FITTING FLANGED ENDS 30" THROUGH 54"

## SUBMITTAL INFORMATION



NSF61/372 Certified upon request.

## USE

The FJ-Restraint is a flexible ductile iron fitting, developed to accommodate pipeline forces that would otherwise result in damaged pipe or loss of service. The FJ-Restraint is designed to compensate for expansion, contraction, rotation, bending and settlement of your pipeline all at the same time, with one fitting. Designed for use in buried applications or above ground service.

## MATERIALS

### CASTINGS

The casing and ball are cast of ductile (nodular) iron, meeting or exceeding JIS G 5502 (FCD450-10). Sleeve up to 42" is ductile iron per JIS G 5527 (FCD420-10). Sleeves above 42" are ductile iron per JIS G 5502 (FCD450-10).

### FLANGE

Compatible with ANSI B16.1 Class 125 and B16.47 Class 150 series A bolt circles. Flat face.

### LOCK RING

Series 403 stainless steel up to 42" per JIS G 4303 (SUS403). Ductile iron greater than 42" per JIS G 5502.

### BELL AND CASING GASKETS

Bell and Casing gaskets are made of Styrene Butadiene Rubber (SBR).

### CASING COVERS

Covers are made of Chloroprene Rubber (CR) compounded for water and sewer service.

### COATINGS

Coating applied to all Ductile Iron Components. Synthetic Resin coating per JWWA K 139 for exterior surfaces. Epoxy coating per JWWA G 112 for surfaces touching the water. Epoxy coating per JWWA K 157 for a portion of the Sleeve Locking on 48" and larger sizes.

### PROTECTIVE SLEEVE

Polyethylene sleeve to cover entire FJ-Restraint assembly after installation. Provided with flexible rubber bands to secure to pipe ends and FJ-Restraint.

## PRESSURE

SIZE	MAX. WORKING PRESSURE
30 in.	232 psi
36 in.	232 psi
42 in.	232 psi
48 in.	145 psi
54 in.	145 psi

\*For higher test pressures contact Romac Engineering.

## DRAWINGS

Romac Drawing Number B2294-B 30"- 42", B2295-B 48", CAD-004818 54"

*This information is based on the best data available at the date printed above. Please check with Romac for any updates or changes.*