

## Style 440 Joint Harness

Provides restraint and reinforcement of coupled joints

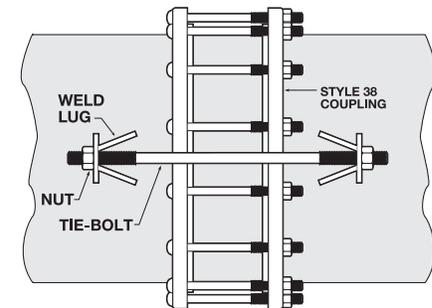
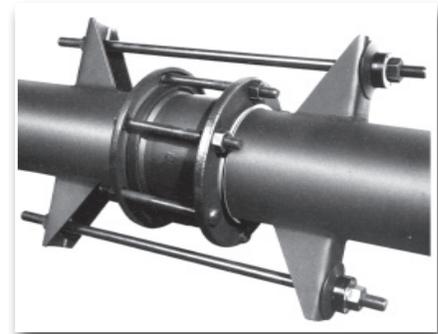
Dresser Style 440 Joint Harnesses are steel tie-bolts, diametrically opposite, which extend across a coupled joint from lugs welded to the pipe on either side of the joint. Joint harnesses are particularly effective on unanchored bends subject to pulsating pressures of sharp intensity.

Available as conductive or insulating, Dresser Joint Harnesses have been designed to meet DOT Regulation Part II, Section 192.273 and meet all safety requirements of modern piping distribution system practices. Weld lugs are made of rugged construction for optimum strength. Insulators are of high-quality thermoplastic resin compound providing minimum insulating rating of 5 meg-ohms at 100V, and will not short out.

A deflection ring placed behind one lug deflects to absorb contraction in connected pipes occurring after installation eliminating harmful stresses. Individual harnesses may be installed in the field as either insulated or conductive by simply interchanging parts.

Each Dresser Style 440 Joint Harness consists of two lugs, one deflection ring, one stud bolt and two nuts. Standard harnesses are furnished with either 5/8" or 3/4" stud bolts in lengths of 26" for 5" middle rings; 32" for 7" middle rings; and 44" for 12" & 16" middle rings. See pressure rating chart below with standard pipe OD's and quantity guidelines.

NOTE: Style 440 Joint Harnesses can be custom fabricated for special conditions with larger studs to reduce quantity and installation costs. Use of these products is limited and never required for ordinary conditions. Dresser engineers are glad to assist with project recommendations in all cases of unusual service conditions that may require these devices, and offer the most economical and practical solution for your particular pipe joint requirements.

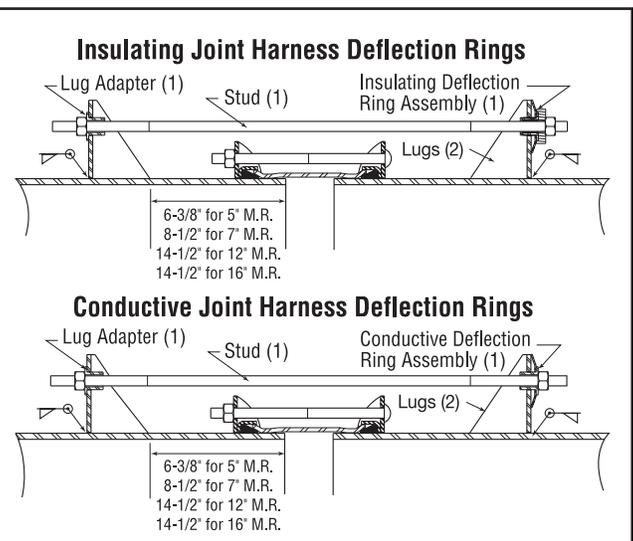


Typical Installation Over Coupled Joint

### STYLE 440 SELECTOR CHART

Number of Joint Harnesses Required by Pipe Diameter, Bolt Size\* and Working Pressure

| Pipe Diam. | Bolt Size | Line Working Pressure (PSI) |    |    |     |     |     |     |     |     |     |     |     |
|------------|-----------|-----------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |           | 25                          | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 |
| 2" - 6"    | 5/8"      | 2                           | 2  | 2  | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   |
|            | 5/8"      | 2                           | 2  | 2  | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 3   | 3   |
|            | 3/4"      | 2                           | 2  | 2  | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   |
| 10"        | 5/8"      | 2                           | 2  | 2  | 2   | 2   | 2   | 3   | 3   | 3   | 3   | 4   | 4   |
|            | 3/4"      | 2                           | 2  | 2  | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 3   | 3   |
|            | 5/8"      | 2                           | 2  | 2  | 2   | 3   | 3   | 3   | 4   | 4   | 5   | 5   | 6   |
| 12"        | 5/8"      | 2                           | 2  | 2  | 2   | 2   | 2   | 2   | 3   | 3   | 3   | 3   | 4   |
|            | 3/4"      | 2                           | 2  | 2  | 2   | 2   | 2   | 2   | 3   | 3   | 3   | 3   | 4   |
|            | 5/8"      | 2                           | 2  | 2  | 3   | 3   | 4   | 4   | 5   | 5   | 6   | 6   | 7   |
| 14"        | 5/8"      | 2                           | 2  | 2  | 2   | 2   | 2   | 3   | 3   | 3   | 4   | 4   | 4   |
|            | 3/4"      | 2                           | 2  | 2  | 2   | 2   | 2   | 2   | 3   | 3   | 3   | 4   | 4   |
|            | 5/8"      | 2                           | 2  | 2  | 3   | 4   | 4   | 5   | 6   | 6   | 7   | 8   | 8   |
| 16"        | 5/8"      | 2                           | 2  | 2  | 3   | 4   | 4   | 5   | 6   | 6   | 7   | 8   | 8   |
|            | 3/4"      | 2                           | 2  | 2  | 2   | 3   | 3   | 3   | 4   | 4   | 5   | 5   | 5   |
|            | 5/8"      | 2                           | 2  | 3  | 4   | 5   | 5   | 6   | 7   | 8   | 9   | 10  | 10  |
| 18"        | 5/8"      | 2                           | 2  | 2  | 3   | 3   | 4   | 4   | 5   | 5   | 6   | 6   | 7   |
|            | 3/4"      | 2                           | 2  | 2  | 3   | 3   | 4   | 4   | 5   | 5   | 6   | 6   | 7   |
|            | 5/8"      | 2                           | 3  | 4  | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  |
| 20"        | 5/8"      | 2                           | 3  | 4  | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  |
|            | 3/4"      | 2                           | 2  | 2  | 3   | 4   | 4   | 5   | 6   | 6   | 7   | 8   | 8   |
|            | 5/8"      | 2                           | 3  | 5  | 6   | 8   | 9   | 11  | 12  | 14  | 15  | 15  | 15  |
| 24"        | 5/8"      | 2                           | 2  | 3  | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  |
|            | 3/4"      | 2                           | 2  | 3  | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  |
|            | 5/8"      | 2                           | 3  | 5  | 6   | 8   | 9   | 11  | 12  | 14  | 15  | 16  | 18  |
| 30"        | 3/4"      | 2                           | 3  | 5  | 6   | 8   | 9   | 11  | 12  | 14  | 15  | 16  | 18  |
|            | 3/4"      | 3                           | 5  | 7  | 9   | 11  | 13  | 15  | 17  | 19  | 21  | 23  | 26  |



\*BOLT SIZE - Larger bolt sizes are available to reduce quantity required. Consult factory with pipe OD and pressure rating.

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