

# XJG Rigid/IMC Expansion Couplings

## Applications:

XJG Expansion Couplings are used with rigid metal conduit and IMC:

- To couple together two sections of conduit subject to longitudinal movement
- In conduit runs to prevent damage to conduit supports such as in a building or on a bridge
- Indoors or outdoors in long conduit runs to permit linear movement caused by thermal expansion and contraction
- In conduit runs that cross structural joints
- On long conduit runs to prevent conduit from buckling and ensuing circuit failures

## Features:

- Weatherproof and approved for use indoors or outdoors without an external bonding jumper
- Available in 1/2" through 6" trade sizes
- For use with rigid metal and IMC conduit
- Available in 4" and 8" maximum conduit movement
- Internal bonding springs and metallic bushings create high integrity internal ground connection and eliminate need for external bonding jumpers and clamps (up to 4" trade size)
- Optional redundant tinned copper bonding jumpers (BJ Series – ordered separately)
- UL Listed for use in wet locations
- Patented design

## Certifications and Compliances:

- UL Standard 514B
- CSA 22.2 No. 18 3-12
- NEMA FB1
- Wet locations
- Third party certified as an effective grounding means (i.e. the path to ground is permanent and continuous), for two sections of conduit subject to expansion or contraction

## Options:

- |  |                           |
|--|---------------------------|
| <b>Description</b>   | <b>Suffix</b>             |
| • Available in copper-free aluminum (not available on 5" and 6" sizes).....                    | <b>SA</b>                 |
| • Hot dip galvanized .....   | <b>HDG</b>                |
| • Available with redundant bonding jumper for visible indication of bonding (BJ Series)† ..... | <b>(Order Separately)</b> |



## Standard Materials and Finishes:

### Body

- Steel – electrogalvanized
- Copper-free aluminum – natural
- *Feraloy*® iron alloy – electrogalvanized (5" and 6" only)

### Reducer & Gland Nut

- 1/2" through 1": steel – electrogalvanized
- 1 1/4" through 6": *Feraloy* iron alloy – electrogalvanized and aluminum paint
- Copper-free aluminum – natural

### Packing

- PTFE composite

### Washer & Bushing

- Steel – electrogalvanized

### Gasket

- Vellum

### Ground Springs

- Phosphor bronze – electrogalvanized

### Ground Strap

- Braided tinned copper

### U-bolts

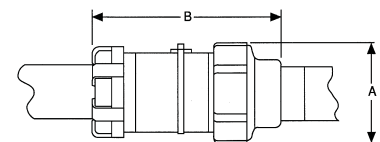
- Malleable iron – electrogalvanized



**XJG Shown with Optional Bonding Jumper**

Bonding jumper width: 0.188";  
height: 0.875"

## Dimensions (in Inches):



Conduit Size	Max. Conduit Movement	Cat. #	Cat. # Aluminum	Optional Bonding Jumper†	A Dia.	B Length	Bonding Jumper Length
1/2"	4	<b>XJG14</b>	<b>XJG14 SA</b>	<b>BJ14</b>	1.75	6.75	20"
	8	<b>XJG18</b>	<b>XJG18 SA</b>	<b>BJ18</b>	1.75	10.75	30"
3/4"	4	<b>XJG24</b>	<b>XJG24 SA</b>	<b>BJ24</b>	2.12	6.75	20"
	8	<b>XJG28</b>	<b>XJG28 SA</b>	<b>BJ28</b>	2.12	10.75	30"
1"	4	<b>XJG34</b>	<b>XJG34 SA</b>	<b>BJ34</b>	2.43	7.25	20"
	8	<b>XJG38</b>	<b>XJG38 SA</b>	<b>BJ38</b>	2.43	11.25	30"
1 1/4"	4	<b>XJG44</b>		<b>BJ44</b>	3.19	7.56	24"
	8	<b>XJG48</b>		<b>BJ48</b>	3.19	11.56	30"
1 1/2"	4	<b>XJG54</b>	<b>XJG54 SA</b>	<b>BJ54</b>	3.68	7.87	24"
	8	<b>XJG58</b>	<b>XJG58 SA</b>	<b>BJ58</b>	3.68	11.87	30"
2"	4	<b>XJG64</b>	<b>XJG64 SA</b>	<b>BJ64</b>	4.75	8.25	24"
	8	<b>XJG68</b>	<b>XJG68 SA</b>	<b>BJ68</b>	4.75	12.25	30"
2 1/2"	4	<b>XJG74</b>		<b>BJ74</b>	4.87	9.31	24"
	8	<b>XJG78</b>		<b>BJ78</b>	4.87	13.31	36"
3"	4	<b>XJG84</b>	<b>XJG84 SA</b>	<b>BJ84</b>	5.37	10.00	30"
	8	<b>XJG88</b>	<b>XJG88 SA</b>	<b>BJ88</b>	5.37	14.00	36"
3 1/2"	4	<b>XJG94</b>		<b>BJ94</b>	6.62	9.81	30"
	8	<b>XJG98</b>		<b>BJ98</b>	6.62	13.81	36"
4"	4	<b>XJG104</b>	<b>XJG104 SA</b>	<b>BJ104</b>	6.62	9.81	30"
	8	<b>XJG108</b>	<b>XJG108 SA</b>	<b>BJ108</b>	6.62	13.81	36"
5"	8	<b>XJ128‡</b>		-	7.64	15.50	-
6"	8	<b>XJ148‡</b>		-	9.56	16.00	-

†XJG Expansion Couplings use a metallic bushing and ground springs to create a high integrity internal ground connection. External ground straps offer a redundant ground path and easy visible indication of ground.

‡XJ128 and XJ148 are not internally grounded. A pair of 36" bonding jumpers are provided with fitting.

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