

# 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:

- | Description   | Suffix                    |
|---|---------------------------|
| • Available in copper-free aluminum (not available on 5" and 6" sizes).....                     | <b>SA</b>                 |
| • Hot dip galvanized (standard on 1 1/4" and above).....  | <b>HDG</b>                |
| • Available with redundant bonding jumper for visible indication of bonding (BJ Series) ⑤ ..... | <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 – hot dip galvanized 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

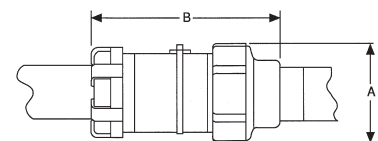
- Malleable iron – electrogalvanized



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

⑤ 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.

① XJ128 and XJ148 are not internally grounded. A pair of 36" bonding jumpers are provided with fitting.