XJG Conduit Expansion Joints With Internal Grounding For Rigid Metal Conduit and IMC

Wet Locations

CP

Applications:

XJG expansion couplings are used with rigid metal conduit and IMC:

- Without the need for an external bonding jumper and clamps (up to 4")
- To couple together two (2) sections of conduit subject to longitudinal movement
- In long conduit runs to permit linear movement caused by thermal expansion and contraction.
- On long conduit runs to prevent conduit from buckling and ensuing circuit failures
- Indoors or outdoors where conduit expansion occurs and there are wide temperature ranges
- In conduit runs that cross structural joints
- In conduit runs to prevent damage to conduit supports such as in a building or on a bridge
- With optional redundant visible grounding strap

Certifications and Compliances:

- UL Standard: 514B
- CSA Standard: C22.2 No. 18
- NEC Articles 250-77 and 300-7 (b)
- NEMA FB1
- Wet Locations

Materials and Finishes:

Body

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

Reducer

- ¹⁄₂" through 1" - Steel - electrogalvanized
- 1¹⁄₄" through 6" - *Feraloy*® iron alloy - electrogalvanized and aluminum paint
- Copper-free aluminum - natural

Gland Nut

- ¹⁄₂" through 1" - Steel - electrogalvanized
- 1¹⁄₄" through 6" - *Feraloy*® iron alloy - electrogalvanized and aluminum paint
- Copper-free aluminum - natural

Packing

- Teflon® (trademark of E.I. DuPont Co.)

Washer

- Steel - electrogalvanized
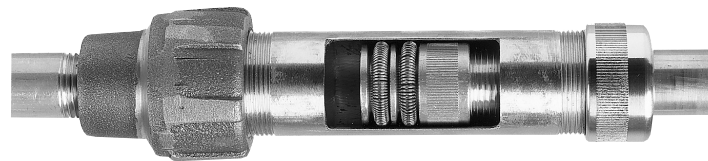- Copper-free aluminum - natural

Gasket

- Vellum

Bushing

- ¹⁄₂" through 1" - Steel - electrogalvanized
- 1¹⁄₄" through 6" - *Feraloy*® iron alloy - electrogalvanized and aluminum paint
- Copper-free aluminum - natural

Patented Design

XJG – For use with rigid metal conduit and IMC

Conduit Size	Maximum Conduit Movement	Cat. #	Optional Bonding Jumper†	A Diameter	B Length	Bonding Jumper Length
¹⁄₂	4	XJG14	BJ14	1.75	6.75	20"
	8	XJG18	BJ18	1.75	10.75	30"
³⁄₄	4	XJG24	BJ24	2.12	6.75	20"
	8	XJG28	BJ28	2.12	10.75	30"
1	4	XJG34	BJ34	2.43	7.25	20"
	8	XJG38	BJ38	2.43	11.25	30"
1¹⁄₄	4	XJG44	BJ44	3.19	7.56	24"
	8	XJG48	BJ48	3.19	11.56	30"
1¹⁄₂	4	XJG54	BJ54	3.68	7.87	24"
	8	XJG58	BJ58	3.68	11.87	30"
2	4	XJG64	BJ64	4.75	8.25	24"
	8	XJG68	BJ68	4.75	12.25	30"
2¹⁄₂	4	XJG74	BJ74	4.87	9.31	24"
	8	XJG78	BJ78	4.87	13.31	36"
3	4	XJG84	BJ84	5.37	10.00	30"
	8	XJG88	BJ88	5.37	14.00	36"
3¹⁄₂	4	XJG94	BJ94	6.62	9.81	30"
	8	XJG98	BJ98	6.62	13.81	36"
4	4	XJG104	BJ104	6.62	9.81	30"
	8	XJG108	BJ108	6.62	13.81	36"
5	8	XJ128‡	—	7.64	15.50	—
6	8	XJ148‡	—	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.

Ground Springs

- Phosphor bronze - electrogalvanized

Ground Strap

- Braided tinned copper

U-Bolts

- Malleable iron – electrogalvanized

Options:

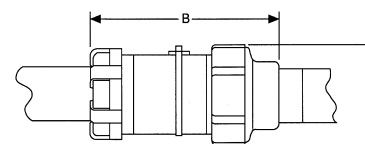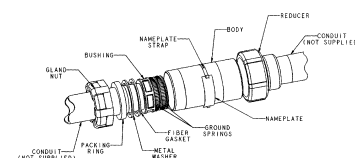| Description	Suffix
Available in copper-free aluminum Not available on 5" and 6" sizes	SA
Hot dipped galvanized	HDG
Available with redundant† ground strap for visible indication of grounding – order separately (BJ Series)	

Size Ranges:

- ¹⁄₂" through 6" conduit size
- 4" and 8" maximum conduit movement

Dimensions In Inches:

XJG shown with optional bonding jumper

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