

# Maloney Model 60™ & Maloney Multiflex™

Polyethylene Casing Insulators  
for Electrical Isolation &  
Multiflex™ Casing End Seals



## Model 60™

The Maloney Model 60 Casing Insulator is precision manufactured by injection molding. The material used is virgin High-Density Polyethylene. For carrier pipe sizes up to 12 inches, the insulators are fabricated in two sections. For sizes 14 inches and larger, the insulators are fabricated in combinations of 2 pi and 4 pi sections. With the insulators properly installed on the carrier pipe, the carrier can easily be pulled into the casing due to the low coefficient of friction of the polyethylene material.

Model 60 insulators resist damage during installation of the carrier pipe because of the high impact strength and excellent abrasion resistance of the polyethylene. Shallow, molded grooves on the inner surfaces of the insulator sections prevent slippage and minimize cold flow of the coating on the carrier pipe. Electric current loss is negligible and cathodic protection is unimpaired due to the high insulating value and low water absorption of the polyethylene. Model 60 insulators are available in sizes 2 through 48 inches. The standard runner height is 1 inch. For insulators 14 inches and larger, 1-1/2 inch runners are available upon request.

## Insulator Spacing

A pipeline industry "rule of thumb" is that insulators should be spaced from 8 to 12 feet apart. Some pipeline companies have achieved excellent results by positioning two of the insulators at each end of the casing and then spacing the insulators 4 to 6 feet apart.



## Model 60™ Physical Properties

**Dielectric strength**  
(ASTM D-149)

step-by-step method  
450 - 500 volts/mil

**Compressive strength**  
(ASTM D-695)

3200 psi

**Flexural yield strength**  
(ASTM D-790) 1000 psi

**Tensile strength**

(ASTM D-638, D-651)  
3100 - 5500 psi

**Impact strength**

(ASTM D-256)

4.0 ft. lbs. / in. of notch

**Water absorption**

(ASTM D-570) <0.01%

**Max. continuous  
operating temp.** 225°F

## Model 60™ Dimensions & Specifications (Sized for Steel Pipe O.D.)

Nominal Carrier Size * (Inches)	Min. Casing Size (Inches)	Outside Diameter Over Runners (Inches)	Shoe Height Inches	No. of Runners**	Number of Segments			Insulator Width (Inches)
					Full 4 pi	Full 2 pi	Total Segs.	
2	4	3-11/16	9/16	8	-	-	2	3-5/8
3	6	5-7/16	7/8	8	-	-	2	3-5/8
4	6	5-11/16	9/16	4	-	-	2	3-1/4
6	10	8-5/8	1	4	-	-	2	3-3/4
8	12	11-5/16	1	4	-	-	2	4-7/8
10	14	12-11/16	1	4	-	-	2	4-3/4
12	16	14-11/16	1	4	-	-	2	4-3/4
14	18	16-3/16	1	7	3	1	4	6
16	20	18-3/16	1	8	4	-	4	6
18	22	20-3/16	1	9	4	1	5	6
20	24	22-3/16	1	10	5	-	5	6
22	26	24-3/16	1	11	5	1	6	6
24	28	26-3/16	1	12	6	-	6	6
26	30	28-3/16	1	13	6	1	7	6
28	32	30-3/16	1	14	7	-	7	6
30	34	32-3/16	1	15	7	1	8	6
32	36	34-3/16	1	16	8	-	8	6
34	38	36-3/16	1	17	8	1	9	6
36	40	38-3/16	1	18	9	-	9	6
38	42	40-3/16	1	19	9	1	10	6
40	44	42-3/16	1	20	10	-	10	6
42	46	44-3/16	1	21	10	1	11	6
44	48	46-3/16	1	22	11	-	11	6
46	50	48-3/16	1	23	11	1	12	6
48	52	50-3/16	1	24	12	-	12	6

\* Diameter is based on 3/32" coating.

\*\* Runners 1-1/2" high available on 14" and larger insulators

Visit our web site [www.maloneytech.com](http://www.maloneytech.com)

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# Multiflex™ Molded End Seal

The accordion-bellows design of this seal permits movement of the carrier pipe without damage to the seal. Its unique design facilitates installation and prevents damage from backfill. Multiflex End Seals are available in sizes from 2" x 4" through 42" x 48".

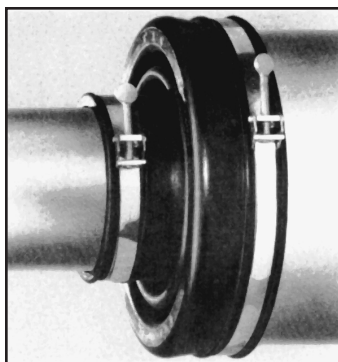
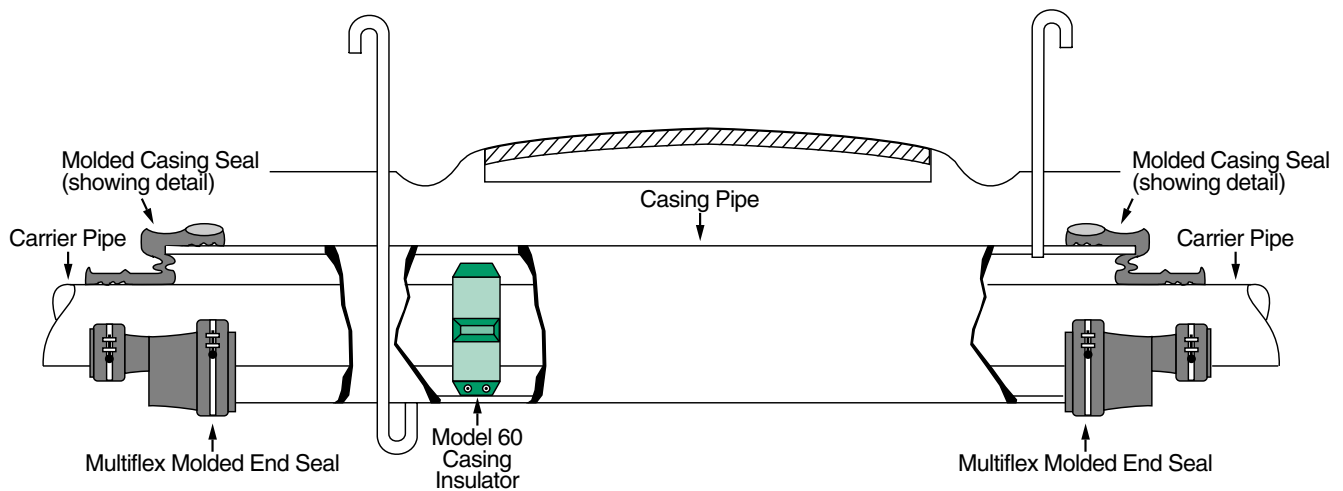
Multiflex End Seals are made of oil resistant and water resistant rubber, specially compounded and molded by Maloney for strength and resiliency.

Where it fits over the end of the casing, the seal is 3/8" thick and the minimum

thickness over the balance is 3/16".

Circumferential ribs molded in the inner surface, where the bands squeeze the seal against the casing and carrier pipes, increase the contact pressure and insure a tight joint.

To install, the end seal is slipped onto the carrier pipe before the tie-weld is made. After installing the carrier pipe in the casing, the seals are secured to the casing using 1/2" stainless steel bands (2 are provided with each seal.)



## Multiflex™ Molded End Seals - Available Sizes +

Carrier	x	Casing	Carrier	x	Casing	Carrier	x	Casing
2	x	4	10	x	16	22	x	26
2	x	6	12	x	16	24	x	30
3	x	6	12	x	18	26	x	30
3	x	8	14	x	18	28	x	34
4	x	6	14	x	20	30	x	34
4	x	8	16	x	20	30	x	36
6	x	10	16	x	22	34	x	40
6	x	12	18	x	22	36	x	40
8	x	12	18	x	24	36	x	42
8	x	14	20	x	24	42	x	48
10	x	14	20	x	26			

+Nominal Sizes in Inches

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