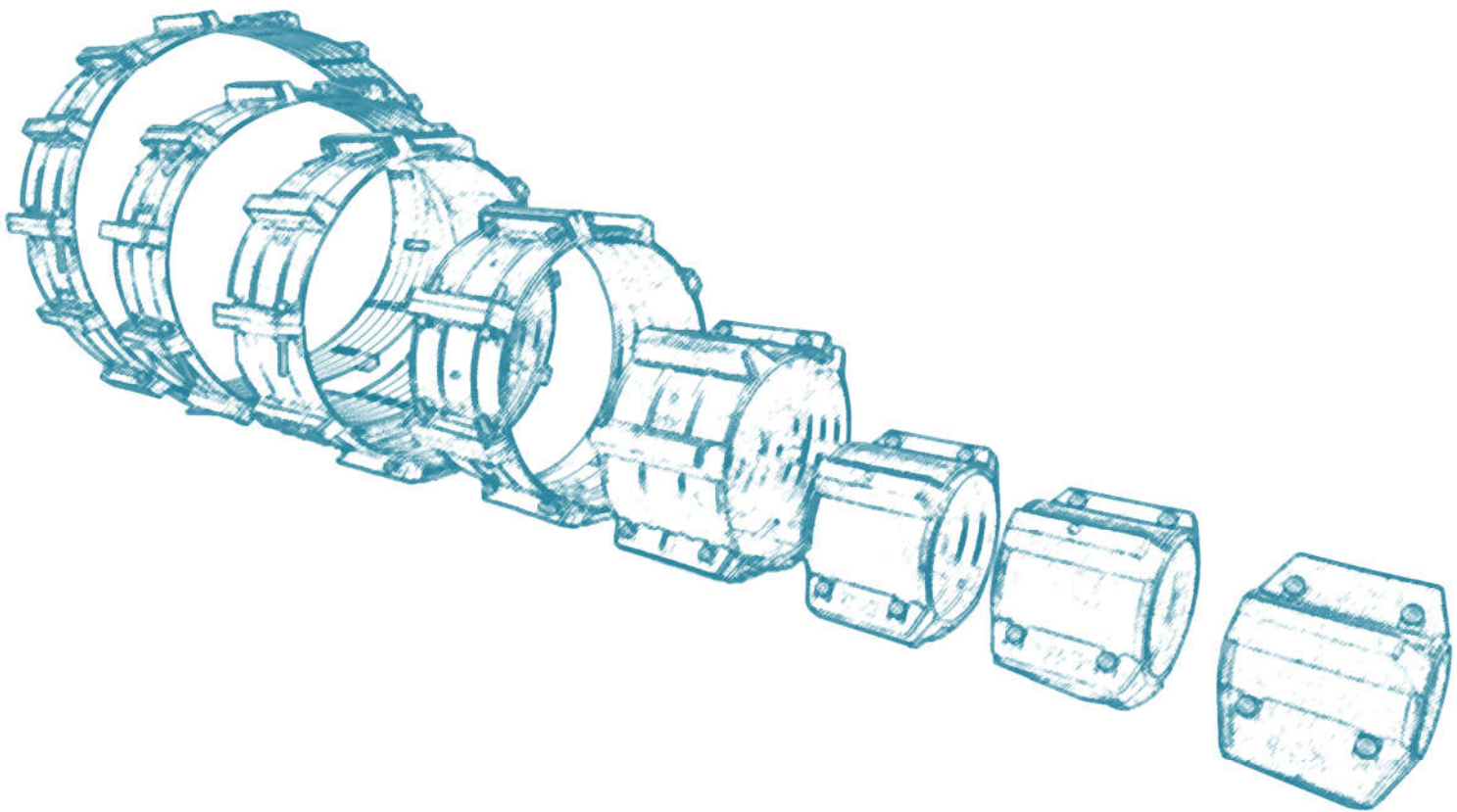


Pipeline Casing Insulators / Spacers



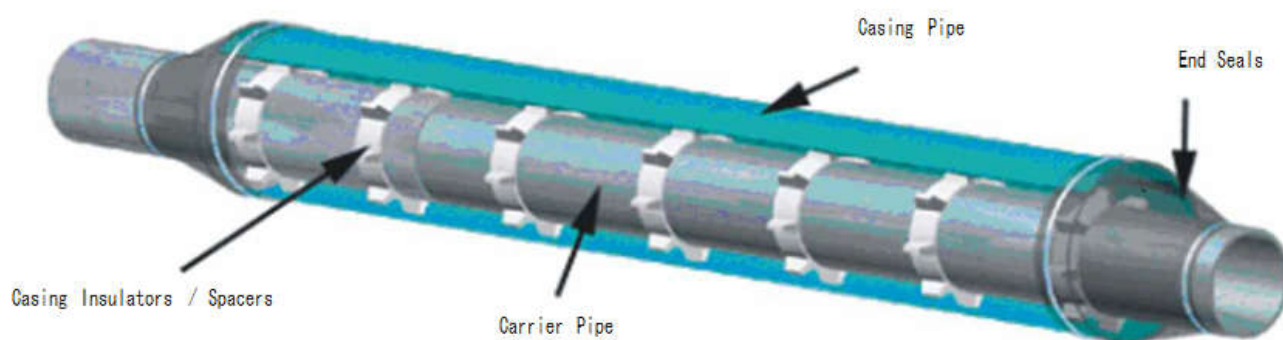
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General Information

In many countries, pipelines crossing or running parallel to highways and railways are protected by casing. Casing Insulators are used to separate the carrier pipeline from the casing pipeline, it is suitable for water and oil & gas carrier pipeline.

Product Properties:

Property	Value	Test Method
Dielectric Strength	400-500 Volts / mil	ASTM D - 149
Compressive Strength	3200 psi	ASTM D - 695
Tensile Strength	3100-5000 psi	ASTM D - 638/D - 651
Impact Strength	1.5~2 ft. Lb./inch of notch	ASTM D - 256
Water Absorption	0.01%	ASTM D - 570

Product Features / Benefits:

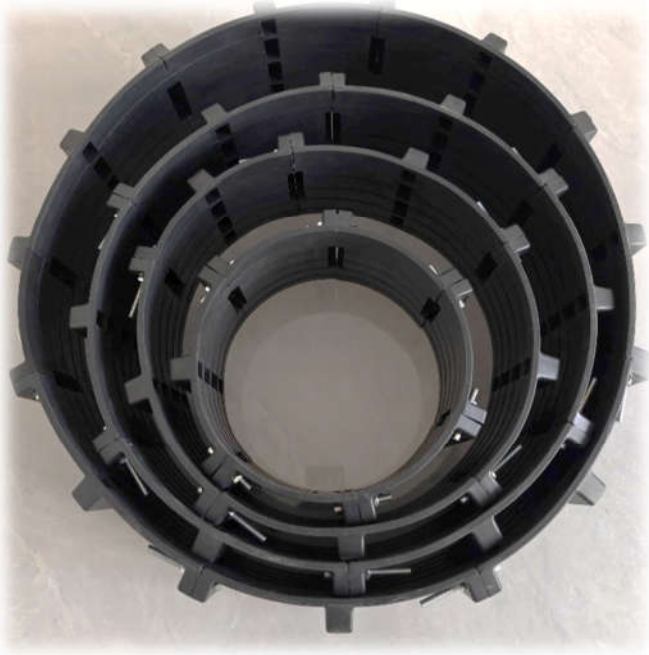
- High electrical insulating value and low water absorption, thus preventing leakage and maintaining electrical isolation between carrier and casing pipes.
- Ribbed inner surface prevents slippages and guards against coating damages
- High compressive strength to support the carrier pipe weight.
- Resist mechanical damage while being pulled into the casing.
- Resistant to mechanical and thermal shocks and stresses, particularly that occur during installation and inserting operations.



Characteristics of HDPE Raw Materials:

Property	Test Method	Unit	Typical Value
Melt Flow Index	ASTM D 1238	gm/10 min.	20
Density (23° C)	ASTM D 1505	gm/cm	0.950
Tensile Strength at Yield	ASTM D 638	MPa	25
Elongation at Yield	ASTM D 638	%	600
Flexural Modulus	ASTM D 790	MPa	1000
Notched Izod Impact Strength	ASTM D 256	J/m	15
Vicat Softening Point	ASTM D 1525	°C	110

Model	Materials	Dimensions				
		Runner Height	Runner Width	Length	Width	Thickness
HS2-36	HDPE	36mm	75mm	94mm	100mm	5mm
HS3-25	HDPE	25mm	85mm	139.5mm	100mm	6mm
HS4-25	HDPE	25mm	85mm	167.5mm	100mm	6mm
HS6-25	HDPE	25mm	115mm	248.5mm	130mm	6mm
MS2-25	HDPE	25mm	110mm	208mm	130mm	6mm
MS1.5-25	HDPE	25mm	110mm	157mm	130mm	6mm
MS1-25 (HALF)	HDPE	25mm	110mm	104mm	130mm	6mm
MS2-36	HDPE	36mm	110mm	208mm	130mm	6mm
MS1.5-36	HDPE	36mm	110mm	157mm	130mm	6mm
MS1-36 (HALF)	HDPE	36mm	110mm	104mm	130mm	6mm
MSG2-50	HDPE	50mm	130mm	314mm	200mm	7mm
MSG1-50 (HALF)	HDPE	50mm	130mm	157mm	200mm	7mm





MS series (Multi-segments)



HS series (Half-ring Segments)

Dimensions are as follows:

Carrier Pipe Size (inch)	Carrier Pipe O. D (mm) Min. – Max.	Model	Skid Height	Number of Segments	Number of Skids	Bolt number/size
2	60. 3–67	HS2	36	2	4	4–M6*40
3	88. 9–96	HS3	25	2	4	4–M6*40
4	106. 7–120	HS4	25	2	4	4–M6*50
6	158. 3–178	HS6	25	2	4	4–M6*60
			55	2	4	4–M6*60
8	199–215	MS2	25	6*MS1	6	12–M6*50
	216–231	MS1. 5	36	5*MS1+1*MS1. 5	7	12–M6*50
	232–264	MS1	50	3*MS2+1*MS1	7	14–M6*60
10	265–297	MS2	25	4*MS2	8	8–M6*60
		MS1	36			
			50			
12	298–331	MS2	25	4*MS2+1*MS1	9	10–M6*60
	314–331	MS1	50	4*MS2+1*MS1. 5	10	10–M6*50
14	332–364	MS2	25	5*MS2	10	10–M6*60
	365–397	MS1	50	5*MS2+1*MS1	12	12–M6*60
16	398–430	MS2	25	6*MS2	12	12–M6*60
		MS1	36			
			50			
18	431–463	MS2	25	6*MS2+1*MS1	13	14–M6*60
		MS1	36			
			50			
20	497–529	MS2	25	7*MS2+1*MS1	15	16–M6*60
		MS1	36			
			50			
		MSG2	50	5* MSG2	15	10–M8*60
		MSG1	75			

24	600-640	MSG2	50	6* MSG2	18	12-M8*60
		MSG1	75			
28	700-745	MSG2	50	7* MSG2	21	14-M8*60
		MSG1	75			
32	800-850	MSG2	50	8* MSG2	24	16-M8*60
		MSG1	75			
36	900-955	MSG2	50	9* MSG2	27	18-M8*60
		MSG1	75			
40	1000-1065	MSG2	50	10* MSG2	30	20-M8*60
		MSG1	75			
44	1100-1170	MSG2	50	11* MSG2	33	22-M8*60
		MSG1	75			
48	1200-1275	MSG2	50	12* MSG2	36	24-M8*60
		MSG1	75			

