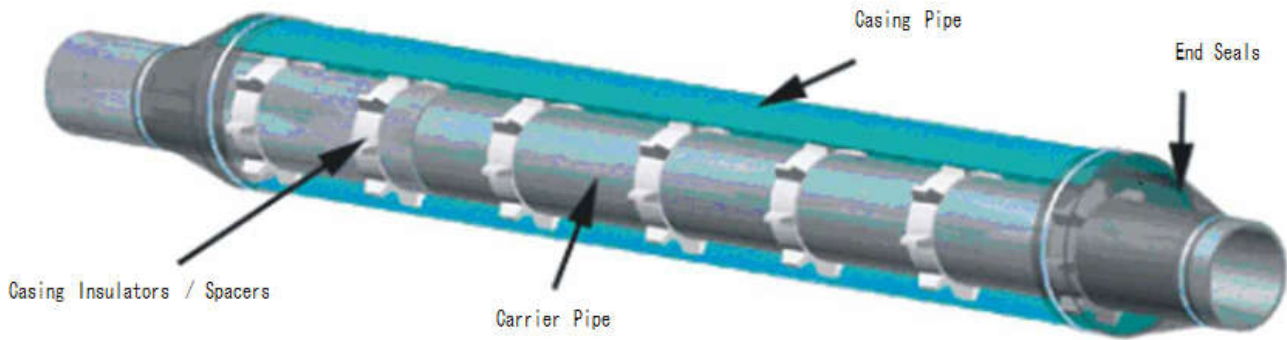


Pipeline Casing Insulators / Spacers





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	4.0 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 PE 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	22
Elongation at Yield	ASTM D 638	%	400
Flexural Modulus	ASTM D 790	Mpa	900
Notched Izod Impact Strength	ASTM D 256	J/m	30
Vicat Softening Point	ASTM D 1525	°C	123

Dimensions for each type are as follows:

Model	Materials	Dimensions				
		Runner Height	Runner Width	Length	Width	Thickness
MRD-50	HDPE	50mm	130mm	313mm	195mm	6mm
MRD-50 (HALF)	HDPE	50mm	130mm	156mm	195mm	6mm
MRB-36	HDPE	36mm	110mm	207mm	130mm	6mm
MRB-36 (HALF)	HDPE	36mm	110mm	103mm	130mm	6mm
MRB-25	HDPE	25mm	110mm	207mm	130mm	6mm
MRB-25 (HALF)	HDPE	25mm	110mm	103mm	130mm	6mm
MRF-25	HDPE	25mm	60mm	26mm	90mm	6mm
MRF-15	HDPE	15mm	60mm	26mm	90mm	6mm
ME-25	HDPE	25mm	98mm	175mm	98mm	6mm
MG-25	HDPE	25mm	83mm	260mm	83mm	6mm



MRD-50



MRD-50 (HALF)



MRB-25



MRB-25 (HALF)



MRB-36



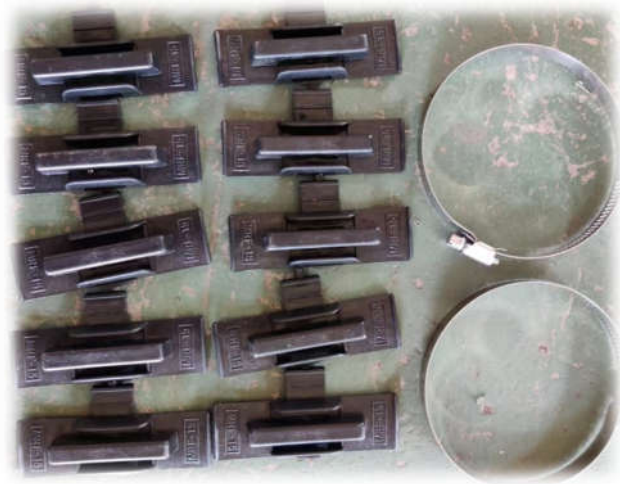
MRB-36 (HALF)



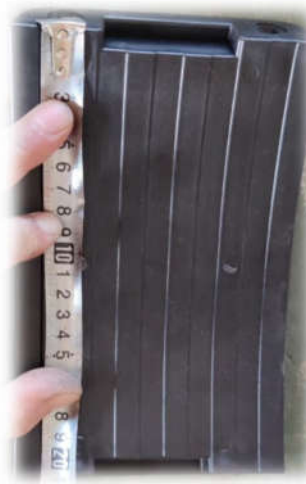
ME-25



MG-25



MRF-25



Testing

Dimensions for M-type are as follows:

Carrier Pipe Size(inch)	Carrier Pipe O. D (mm)	Model	Skid Height	Number of Segments	Number of Skids	Bolt number/size
2	60.3	MF-15	15	7	7	/
3	88.9	MF-15	15	10	10	/
4	114.3	ME-25	25	2	4	4-M6*60
6	168.3	MG-25	25	2	4	4-M6*60
8	219.1	MRB-25	25	2+1/2+1/2	6	8-M6*60
		MRB-36	36			
10	273.1	MRB-25	25	4	8	8-M6*60
		MRB-36	36			
12	323.9	MRB-25	25	4+1/2	9	9-M6*60
		MRB-36	36			
14	355.6	MRB-25	25	5	10	10-M6*60
		MRB-36	36			
16	406.4	MRB-25	25	6	12	12-M6*60
		MRB-36	36			
18	457.2	MRB-25	25	6+1/2	13	14-M6*60
		MRB-36	36			
20	508	MRB-25	25	7+1/2	15	16-M6*60
		MRB-36	36			
		MRD-50	50	5	15	10-M8*60
22	558.8	MRB-25	25	8	16	16-M6*60
		MRB-36	36			
		MRD-50	50	5+1/2	17	12-M8*60
24	609.6	MRB-25	25	9	18	18-M6*60
		MRB-36	36			
		MRD-50	50	6	18	12-M8*60
26	660.4	MRB-25	25	9+1/2	19	20-M6*60
		MRB-36	36			
		MRD-50	50	6+1/2	20	14-M8*60
28	711.2	MRB-25	25	10+1/2	21	22-M6*60
		MRB-36	36			
		MRD-50	50	7	21	14-M8*60

30	762	MRB-25	25	11	22	22-M6*60
		MRB-36	36			
		MRD-50	50	7+1/2	23	16-M8*60
32	812.8	MRB-25	25	11+1/2	23	24-M6*60
		MRB-36	36			
		MRD-50	50	8	24	16-M8*60
34	863.6	MRB-25	25	12+1/2	25	26-M6*60
		MRB-36	36			
		MRD-50	50	8+1/2	26	18-M8*60
36	914.4	MRB-25	25	13	26	26-M6*60
		MRB-36	36			
		MRD-50	50	9	27	18-M8*60
38	965.2	MRB-25	25	14	28	28-M6*60
		MRB-36	36			
		MRD-50	50	9+1/2	29	20-M8*60
40	1016	MRB-25	25	14+1/2	29	30-M6*60
		MRB-36	36			
		MRD-50	50	10	30	20-M8*60
42	1066.8	MRB-25	25	15+1/2	31	32-M6*60
		MRB-36	36			
		MRD-50	50	10+1/2	32	22-M8*60
44	1117.6	MRB-25	25	16	32	32-M6*60
		MRB-36	36			
		MRD-50	50	11	33	22-M8*60
46	1168.4	MRB-25	25	17	34	34-M6*60
		MRB-36	36			
		MRD-50	50	11+1/2	35	16-M8*60
48	1219.2	MRB-25	25	17+1/2	35	36-M6*60
		MRB-36	36			
		MRD-50	50	12	36	24-M8*60

