

GPT has noted specific standard industry specifications for your convenience. Please review the following pages, and incorporate the specification that best meets your application needs. For more suggested specifications, not included in this engineering manual, and for ease of editing please visit our website www.gptindustries.com.

Please incorporate the following disclaimer below with any of the standard specifications that have been suggested in the engineering manual.

Disclaimer

The foregoing performance data is intended as guideline material only and is based on assumptions of general and reasonable use. Performance suitability for any specific application should be determined by the user.

MODEL RANGER II® NON-METALLIC CASING SPACERS

1. Water Market
2. Pressure and Gravity Pipe
3. Suggested Max. Casing Length = 400 ft.
4. Max. Carrier Pipe O.D. = 37.60" Ø
5. Position Within Casing = Standard, Centered, Centered/Restrained

A. Casing Spacers

Upon installation completion of the steel pipe encasement, the contractor shall furnish and install a Ranger II® boltless casing spacer on the carrier pipe as described below. Casing spacers shall be spaced a maximum of eight (8) feet apart along the length of the carrier pipe with one casing spacer within two (2) feet of each side of a pipe joint and the rest evenly spaced. Wood skids are not an acceptable method of supporting the carrier pipe.

1. Casing spacers shall be all non-metallic virgin polypropylene, molded in segments for field assembly without any special tools. Spacer segments shall be secured around carrier pipe by insertion of a Slide-Lock. The casing spacer polymer shall contain ultraviolet inhibitors and shall have a minimum compressive strength of 3,000 psi, an 800 Volts/mil dielectric strength and impact strength of 1.5 ft-lbs./inch. Each casing spacer shall have full length, integrally molded skids extending beyond the bell or mechanical joint of the carrier pipe.
2. The casing spacers shall be the GPT Ranger II® Casing Spacers as manufactured by GPT or engineered approved equal.

Alternate considerations shall be submitted to Engineer 10 days prior to bid opening

3. Spacers shall be at least as wide as listed below.

CARRIER PIPE DIAMETER INCHES (MM)	RANGER II® MODEL	WIDTH INCHES (MM)
0.83 to 3.07" (21 to 78)	Micro	2.13" (54)
2.48 to 5.51" (63 to 140)	Mini	3.15" (80)
5.51 to 16.65" (140 to 423)	Midi	5.12" (130)
16.77 to 25.98" (426 to 660)	Medi	6.87" (174)
25.98 to 37.60" (660 to 955)	Maxi	8.86" (225)

B. End Seals

After insertion of the carrier pipe into the casing, the ends of the casing shall be closed by installing 1/8" thick synthetic rubber end seals equal to the GPT Model C or Model R end seal as manufactured by GPT.

Considerations:

The above specification is considered sufficient for most pipe sizes and types up to 36-inches and casing lengths up to 400 feet. For larger size pipes, heavy pipe types, and longer or unusual casings, use metallic casing spacers or please contact GPT.

Quality Assurance:

Each casing spacer and end seal shall be manufactured at a facility that has a Registered ISO 9001:2008 Quality Management System. Copy of current ISO 9001:2008 Registration shall be provided with material submittal.