



# Bidirectional Specification Sheet

## Typical Bidirectional Disc Pig

One common configuration is the steel body Bidirectional Disc Pig. Bidirectional Disc Pigs can be used for filling and dewatering pipelines for hydrostatic testing, batching, paraffin removal, and displacement. A Bidirectional Disc Pig consists of the following components:

1. **Steel Body:** Includes the main body tube, two steel retaining rings (one for each end), and the nuts and bolts required to assemble.
2. **Two Guides:** The “guides” are the two polyurethane discs on the ends. The outside diameter of the guide is very near the inside diameter of the pipeline, and they are extra-thick because they take the brunt of most impacts while traveling down the line.
3. **Four Seals:** The “seals” are the four middle polyurethane discs. Their outside diameter is greater than the inside diameter of the pipeline. Their purpose is to maintain a good seal with the pipeline, to ensure that the pig is propelled efficiently and that a good fluid interface is maintained.
4. **Six Spacers:** The “spacers” are small discs between the guides and seals. As their name suggests, they space out the different discs so that they function

Nominal Size of Pig	Guide OD (inches)	Guide Thickness (inches)	Seal OD (inches)	Seal Thickness (inches)	Steel Ring & Space OD (inches)	Inside Diameter of All Parts (inches)
16"	15.25	1.13	16.0	0.75	13.00	8.88
18"	17.25	1.13	18.0	0.75	14.75	11.00
20"	19.50	1.25	20.0	1.00	16.00	11.00
24"	23.37	1.25	24.0	1.00	19.00	14.25
26"	25.25	1.25	26.0	1.00	19.00	14.25
28"	27.25	1.50	28.0	1.13	20.50	15.25
30"	29.37	1.63	30.0	1.25	24.00	18.25
32"	31.25	1.63	32.0	1.25	24.00	18.25
34"	33.25	1.63	34.0	1.25	25.25	20.25
36"	35.50	1.75	36.0	1.25	28.00	22.25
42"	41.50	2.25	42.2	1.50	32.00	26.25
48"	46.75	2.25	48.2	1.50	34.00	28.13

Bidirectional Disc Pigs can be purchased fully assembled or in pieces. Replacement “Wear and Tear” sets (consisting of two Guides and four Seals) are also available for ease of ordering.