



RHINO
specialty supply

Pipeline Pigging

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Soft Density – 1.5 lbs/ ft³ (white) and 2.0 lbs/ ft³ (black) lightweight open-cell polyurethane foam pigs are used for drying or swabbing on short runs. They are also referred to as swabs or squeegees. The pig will traverse all obstructions and bends that occur in piping systems in addition to experiencing a diameter reduction of 65%.

Shape: Standard cylinder, Bullet nose

Style: Bare, Standard Urethane coating on one end, both ends coated, criss-cross coating, fully coated, with pull rope on one end, with pull ropes from both ends.

Sizes: Standard sizes- see chart below. Standard lengths are typically 1.5 times the Outside Diameter.

**Special and custom sizes are available upon request.

Outside Diameter (inches)

1.5	6	13.5	21.5
2	6.5	14	22.5
2.5	7.5	14.5	23.5
3	8.5	15.5	24.5
3.5	9.5	16	26.5
4	10.5	16.5	28.5
4.5	11.5	18.5	30.5
5	12.25	19.5	36.5
5.5	12.5	20.5	42.5



Medium and Hard Density- constructed from open cell flexible polyurethane foam molded into various shapes and lengths. Medium Density: 3.0 lbs/ft³ to 4.0 lbs/ft³ bottoms painted with Yellow Polyurethane. Hard Density: 5.0 lbs/ft³ to 7.0 lbs/ft³ bottoms painted with Red Polyurethane.

Shape: Standard Bullet Nose- used in single direction runs, Bi-Directional Cylinder (Double Dish)- used when two directions are to be traversed without leaving the pipeline and are available in a scraper, crisscross, fully coated or bare style.

Style: Bare- used for drying and mild cleaning on runs up to 15 kms, Criss-Cross- used for wiping, light removal of paraffin and sediments, with the crisscross pattern creating a scraping effect, Fully Coated- used for drying and mild cleaning where extended service is desirable and 5% of H₂S and CO₂ are present in the piping system, Criss-Cross Wire brush- are equipped with helical bands of silicone carbide or hardened steel brush for removal of paraffin, scale and other waste materials.

Sizes: Standard sizes- See chart below. Standard lengths are typically 2.0 times the Outside Diameter.

**Special and custom sizes are available upon request along with Pipe inserts for tracking devices, rope for pulls, and various specialty coatings.

Outside Diameter (inches)

2	4.5	10.25	16
2.25	6	10.5	16.25
2.5	6.25	12	16.5
3	6.5	12.25	18
3.25	8	12.5	18.25
3.5	8.25	14	18.5
4	8.5	14.25	20
4.25	10	14.5	24



URETHANE PIGS

6.

Multi Disc Pigs- The design allows them to flex through short radius bends, mitered joints, dents, and deformed pipe. Excellent at cleaning and purging fluids if adequate driving force is present. Available in various sizes and durometers and in solid (for added strength) or hollow core (for improved flexibility and allows the use of a transmitter) and in standard length or short.

Nominal Size	Actual OD	Short Length	Standard Length
2"	2.15"	3.00"	4.50"
3"	3.20"	5.00"	7.00"
4"	4.20"	6.75"	9.50"
6"	6.25"	8.50"	14.00"
8"	8.50"	12.00"	18.00"
12"	12.75"	n/a	24.00"



Maxxi Disc Pigs- Similar effectiveness to our Multidisc line, but have a conical nose to maneuver past flanges, Valves and Tees. Used in Purging and heavy duty cleaning. Hollow core is standard.

Nominal	Size	Actual OD Length
4"	4.375"	9.36"
6"	6.5"	15.14"
8"	8.5"	18.60"
10"	10.562"	21.75"
12"	12.562"	24.38"

*available in 14" and 16" upon special order request.



Tuff Disc Pigs- will easily traverse 90 degree radius bends and are used for dewatering, batching and the incorporated disc design allows for easy removal of paraffin and other waste materials. Recommended for use as a lead pig in filming applications. Made from Polyurethane compounds and available in several durometers.

Nominal Size	Actual OD	Length Cup
2"	2.20"	4.50"
3"	3.20"	5.50"
4"	4.20"	6.00"
6"	6.40"	9.25"
8"	8.40"	12.50"



Tuff Cup Pigs- Tuff Cup Pigs are designed for general use pigging, dewatering, batching, controlling paraffin buildup and removing waste materials. Made from Polyurethane compounds and available in several durometers.

Nominal Size	Actual OD	Length Cup
2"	2.20"	5.00"
3"	3.30"	5.50"
4"	4.30"	6.50"



Filming Pigs- Consist of a lead pig and a follower pig, made of polyurethane compounds and are used for inhibitor applications in pipelines. The lead pig is to clean the line and batch the inhibitor within the line and contain the inhibitor in a full column form- in conjunction with the trailing pig. Each Filming pig is individually sized to the ID of the pipe, ensuring a consistent squeegee effect and uniform distribution of chemical during application. Valve Pigs- Designed to be compatible with pig valves- shorter in length. Constructed from 80 Durometer polyurethane as standard material.



Scraper Pigs- A solid Construction pig available in 90 durometer Polyurethane. They have excellent cleaning capabilities due to the number of discs incorporated into the design. Designed for use in wireline applications for removing excessive deposits of scale, wax and sulfides. The pig is assembled with a thread pulling rod running through the middle of the body, with steel plates on both ends of the pig. Tightening the hex nuts compresses the pig, ensuring maximum OD during the cleaning process.

Nominal Size	Actual OD	Length
2"	2.15"	3"
3"	3.30"	3"
4"	4.30"	3"
6"	6.45"	3"
8"	8.45"	3"



URETHANE SCRAPER CUPS & DISCS

8.

Available in a wide range of durometers and in a **Conical** or a **Step Conical** design. Standard stock sizes are manufactured with Ester Based Polyurethane- which provides good resistance qualities in a sour gas environment with excellent abrasion qualities. Numerous sizes available ranging from 2" to 30"- Please call and talk to a representative for your specific requests.



Pig Assemblies- Typically consists of a steel body, urethane cups, polyurethane discs and can be assembled with any other cleaning devices to suit your needs such as wire brush, rattlers etc. **Cleaning Pigs** are multi use equipped with two, three or four cup configurations- made for long runs and can be bi-directional or unidirectional. **Batching Pigs** are used for separation or displacement of fluids- a four disc/cup assembly is recommended for maximum sealing during operation. **Gauging Pigs** are a two, three or four cup or disc assembly with an aluminium gauging plate on the nose and are used to locate obstacles or indents in a pipeline and to ensure proper passage of the cleaning pigs. **Construction Pigs** are the same configuration, without the gauging plate and are used for removing obstructions and debris in new pipelines



SPECIALTY PIGS

9.

Soluble Pigs (Water and Oil)- Solid sphere shaped balls or cylinder shaped plugs. OIL-SOLUBLE type pigs (for oil systems) contain micro-crystalline wax, paraffin inhibitor and pour point depressant. **WATER-SOLUBLE** type pigs (for water systems) contain a water-soluble surfactant and corrosion inhibitor.

PRODUCT USES & ADVANTAGES- Used to clean out paraffin deposits and other unwanted accumulations inside of pipes. The oil-soluble types contain a paraffin inhibitor and pour point depressant. The residual traces of inhibitor help prevent re-deposition of paraffin for a short period of time. The pour point depressant helps the oil that contacts the pig flow easier at lower temperatures. They can be used in any length lines. The ball type pigs can go around 90° turns that may stick rubber or plastic pigs and are very inexpensive as compared to rubber or plastic pigs or hot-oil treatments. Pigs do not interfere with other production and pipeline chemicals.

Common Stock Size

2"
3"
4"
6"



PL Cups and Discs- are made of Neoprene and are used for cleaning and batching applications. Assembly in single or multiple units makes them very versatile and they can negotiate severe radial bends. PL Cups are not recommended for exposure to aromatics or hydrogen sulfide. Available sizes are 2", 3" 4" and 8".

Nominal Size	Actual OD	Length Cup	Disc
2"	2.06"	2.75"	2.14"
3"	3.12"	3.62"	1.50"
4"	4.12"	6.00"	2.10"
6"	6.18"	8.00"	2.55"
8"	8.50"	8.25"	2.75"



Bullet Cup Pigs- Made from Buna (Nitrile) or Neoprene. Available hollow or solid filled construction and are used in place of or in conjunction with pig balls. Sizes available are:

Nominal Size	Actual OD	Length
2"	2.08"	2.8"
	2.50"	2.8"
3"	3.05"	3.5"
	3.30"	3.5"
4"	4.25"	4.5"
6"	6.5"	6.8"



Also called Spheres and available in numerous configurations. They are made from **Neoprene, Buna (nitrile), Urethane, Natural Rubber, Medium and Hard Density Foam**. The Foam balls can be fully coated, criss-cross or wire brush and are used for scraping and sweeping of lines. The standard color for Neoprene and Nitrile balls is black, but these are available in numerous colours and number branded for identification. Not banned by the ERCB, just not the most effective method of scraping or cleaning-but many times the only option. **Inflatable Spheres** are also available-Made of Polyurethane or Neoprene and are available in several durometers ranges. Spheres are completely filled with liquid (glycol and water) and will pass through out-of-round pipe, pipe of varying wall thickness, short radius bends and other obstacles difficult for conventional pigs to pass.



DE-COKING PIGS

These unique parts are used in removing coke deposits and descaling hard caked debris within your lines. They are available in various sizes and several configurations. **Foam Pushers or Bald Foam**- Hard as possible foam with our unique abrasion skin. **Foam Studded**- Available with Carbide Studs, or our regular Studs. **Bald Urethane**- Urethane coated inner foam core with no studs. **Urethane Studded**- Available with Carbide Studs or regular studs. Various colors available in many sizes- 1/8" increments.



Y Laterals- A Specialty Welded product stocked in A106, A333 and CSA Grades of Steel. Various Schedules and Sizes available - off the shelf and made to order. ABSA Certified with CRN numbers. Repads, Threaded Ends and Reducing sizes are also in the product line offering.



Sweep Tees- A Specialty Welded product stocked in A106, A333 and CSA Grades of Steel. Various Schedules and Sizes available - off the shelf and made to order. ABSA Certified with CRN numbers. Reducing sizes are also in the product line offering.



Lengths of pipe used to “transition” from one wall thickness underground to a different wall thickness above ground typically. Our standard grade 359.2 Pipe is for use with sweet or sour gas in standard 1 Meter lengths.

Transitions	Description
900-3125	3" STD GRD 359 X 1M .125
900-3156	3" STD GRD 359 X 1M .156
900-3188	3" STD GRD 359 X 1M .188
1100-3125	3" H GRD 359 X 1M .125
1100-3156	3" H GRD 359 X 1M .156
1100-3188	3" H GRD 359 X 1M .188
900-4125	4" STD GRD 359 X 1M .125
900-4156	4" STD GRD 359 X 1M .156
900-4188	4" STD GRD 359 X 1M .188
1100-4125	4" H GRD 359 X 1M .125
1100-4156	4" H GRD 359 X 1M .156
1100-4188	4" H GRD 359 X 1M .188
900-6125	6" STD GRD 359 X 1M .125
900-6156	6" STD GRD 359 X 1M .156
900-6188	6" STD GRD 359 X 1M .188
1100-6125	6" H GRD 359 X 1M .125
1100-6156	6" H GRD 359 X 1M .156
1100-6188	6" H GRD 359 X 1M .188



Barred Tees- Available in both standard round bar and to the CSA specification (Heat Treated and Stress Relieved with MPI testing) WPB, WPL-6 and CSA Grades all stocked and made to order. Through boring available as well.



MUD PLUG KITS

A convenient, environmentally friendly assembly of items, used in the field where hot tie-ins are being done. This temporary barrier protects against traces of gas that may exist in pipelines or in gas plants during shut downs. Each kit contains everything you will need to perform the job efficiently and effectively in the field, or in the plant.



Heat Trace Pipe- Pex-Al-Pex- typically used for in floor heating applications but found commonly replacing copper pipe on well sites due to its excellent thermal conductivity and replacing standard Pex pipe with ease of installation due to its memory. Nickel coated brass compression fittings are available in stock as well.



HDPE, PVC, ABS Pipe & Fittings- Rhino Specialty Supply is a proud distributor of Ipex Plastics brand pipe and fittings. We are able to supply all sizes of ABS, ABS Cell Core, PVC and HDPE along with all the necessary fittings, elbows, collars, caps and tees.

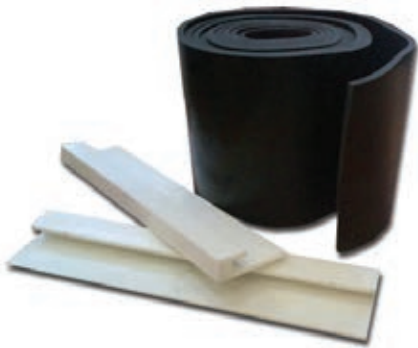




Metal Machined Parts



Chemicals, Soaps & Degreasers



Pipe Shoe Sliders and Insulation Strips



Rod Spacers



Wax Containment Bin



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