

CUP PIG DATA SHEET

Middle East Manufacture of Pipe Cleaning
Equipment

Cup Pig Data Sheet

General Information

The cup scrapers could be used with a lot of accessories to achieve certain applications, those could be summarized below:

- Steel Cleaning Brushes (Circular or Springy Mounted)
- De-Waxing by using PU Blades brushes.
- It could come up with a gauging plate for ovality check.
- It could be fitted with a tracking device.
- Additional Polyurethane Discs could be added to allow negotiating more pipeline lengths.
- By-Pass Ports could be added on the body of the scraper nose to allow controlling the speed.
- Magnets could be added on 360° on the body of the scraper.
- Jetting Heads could be added to make a jet and keep the debris suspended in front.
- Aluminum or St. St bodies could be done for different applications.

Application



The Cup Scraper is used largely for batching and de-watering applications. They are also used for scrapping the lines that has change in diameter since the cups are more flexible to negotiate wall thickness changes from 2 sizes together i.e, 48" line with a reduction to 46" could be negotiated using the cup scrapers based on the right design of the body and the right hardness of the Polyurethane used.

Specific to Pipelines

Size Range: 2” – 64” Nominal Diameter

Number of Cups: 2 to 4 Cups

Bore Passing: Up to 5% Bore Restrictions.

Minimum Bend Radius: 1.5D

Materials: Metallic Parts – Carbon Steel or Aluminum or St. St Polyurethane with Shore A Hardness – 65, 75 and 85

Polyurethane Properties



Shore A Hardness	BS2782 365B	65°	75°	85°
100% Modulus (MN/m2)	BS903 PT A2	2.4	4.0	6.0
300% Modulus (MN/m2)	BS903 PT A2	4.6	8.5	12.5
Tensile Strength (MN/m2)	BS903 PT A2	30	38	40
Elongation at Break (%)	BS903 PT A2	554	544	539
Angle Tear Strength (KM/m)	BS903 PT A3	46	72	90
Compression Set 22hrs @70°	ASTM D395	45	45	45
Resilience (%)	BS903 PT A8B	50	45	35
Taber Abrasion/H22 (mg Loss)	BS903 PT A9D	<10	<10	<10
DIN Abrasion (mm3 loss)	DIN 53516	18	21	27



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