

Dual and Multi-diameter Scrapers



The term multi-diameter or dual diameter is applied to pipelines with definite changes in outer diameter but also pipelines of one diameter that contain several large variations in internal diameter. Changes in pipe wall thickness or fittings (valves, tees, etc.) can also create situations like those seen in true 'dual diameter' or 'multi-diameter' pipelines.

IKS is experienced in pipeline scraper design, and manufacture and has the technical expertise to assess pipeline cleaning requirements and scraper negotiation for dual and multi-diameter pipeline applications.

IKS typical design of dual-diameter and multi-diameter scrapers comprises of:

- Solid guide disc sized to suit with the minimum internal diameter.
- Segmented/notched guide disc sized to suit with the maximum internal diameter but capable of folding down within the minimum line ID.
- Sealing disc sized to suit with the minimum internal diameter.
- Sealing disc sized to suit with the maximum internal diameter. In the event of large variation in internal diameter, "Buckle-Inducing Seal Discs" are fitted which can fold down within the minimum line ID.

Contact:

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Cleaning ability can be further enhanced by the addition of spring-loaded brushes or plough blades. Other design options include the attachment of magnets (for debris collection), gauge plates, transmitter housings, and wheel support if the scraper is to be used over long distance (150km) or the pipeline conditions are particularly arduous.

All IKS scrapers are supplied with polyurethane bumper noses as standard.

All IKS scrapers are designed to pass minimum 1.5D radius bends and negotiate full bore branches.

All multi-bolt scraper body assemblies are welded to code standard BS EN ISO 15614-1:2004+A1:2008.

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