

Dredging & Mining

FLEXIBLE ENGINEERING

**A112 and A113 mining suction and discharge hose
A range of hoses for highly abrasive applications**

Product description

At a glance

A112 and A113 mining suction and discharge hoses have been specifically designed for use in highly abrasive applications such as sand and gravel pits, glass manufacturing and mineral processing plants.

Sizes

A112 and A113 are available in sizes from 50mm to 500mm and lengths up to 12 metres.

Working pressure

10 bar, -0.85 vacuum

Lining

Smooth bore mandrel built. Two types of lining are available in thicknesses from 3mm to 12mm depending on the nature and severity of the application:

A112: Tan/beige or red coloured 40° Shore 'A' gum natural rubber for sand and fine air-borne abrasives.

A113: Black 60° Shore 'A' hard natural rubber for slurries and heavy abrasives such as gravel and rock.



A113 gravel and rock hose with beaded end swivel flanges

Reinforcement

High-strength cord layers give the hose pressure resistance and stability under stress. A high-tensile steel wire helix gives suction resistance, flexibility and crush-protection.



Cover

Neoprene rubber to protect against abrasion, weathering, oil splashes and resistance to the effects of exposure to sunlight. Corrugated for optimum flexibility.

◀ A112 sand hose with integral flanges

- Custom-built assemblies
- Special moulded flanges
- Corrugated for flexibility
- Up to 500mm bore size

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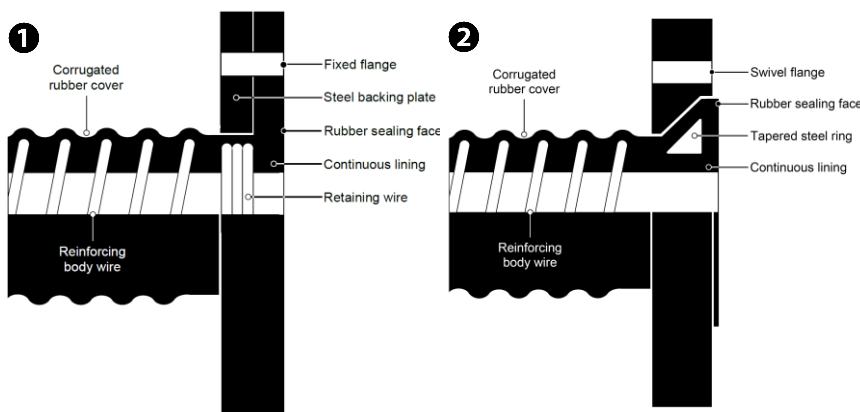
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Nominal physical data†

Bore size		Lining thickness	Nominal weight	Minimum bend radius
Inch	mm	mm	kg/mt	mm
2	50	3	2.9	300
3	80	6	5.5	480
4	100	6	8.2	600
5	125	7.5	9.8	750
6	150	7.5	12.4	900
8	200	7.5	16.9	1200
10	250	9	30.3	1550
12	300	9	35.7	1950
14	350	12	45.4	2250
16	400	12	51.5	2650
18	450	12	62.1	3100
20	500	12	67.4	3500

Coupling systems

① Integral fixed rubber and fabric flanges with vulcanised one-piece steel support backing plates or ② beaded ends with captive swivel flanges are usually supplied where abrasive materials would excessively wear a steel hose tail. Elimination of a conventional hose tail enables the hose to begin flexing immediately behind the flange; this is useful for applications requiring a tight bend radius. Hoses can also be supplied with wire-free plain or enlarged cuffed ends‡; to provide an uninterrupted through-bore when connected to pipework.



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- Special moulded flanges
- Corrugated for flexibility
- Up to 500mm bore size

† Nominal physical data is based on A113.

‡ Hoses with plain or enlarged cuffed ends can be supplied with trailing anti-static wires to prevent the build-up of static electricity if required.

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