

T-FLEX®



MINING

SLURRY HOSE SUCTION AND DISCHARGE



T-FLEX® slurry hoses are custom manufactured to provide outstanding wear performance in a broad range of mining and industrial applications. Our T-FLEX® slurry hoses are designed for suction and discharge duties and are engineered to your required working pressure and end fitting needs.

APPLICATIONS

Pumping and transfer of abrasive slurries under pressure or vacuum for:

- Mineral processing plants
- Sand and gravel plants
- High pressure tailings lines
- Pneumatic transfer
- Floating pontoon lines

ADVANTAGES

- Excellent resistance to abrasion
- Low installation costs
- Suppression of pressure surges
- Damping of vibrations and noise
- Longer service life over rubber lined pipe

TECHNICAL DESCRIPTION

Nominal Bore: 40mm to 1200mm

Length: custom manufactured lengths

Inner tube: abrasion resistant natural rubber (NR) in 40 or 60 shore

Reinforcement: synthetic textile fabric with embedded steel wire helix or steel hoops

Cover: abrasion and UV resistant outer cover, smooth or corrugated, fabric impression

Temperature range: -35°C to +75°C

Working pressure: up to 5000 kPa

END FITTING OPTIONS

Hoses can be manufactured with:

- Flanged to: AS2129 D/E, ASME, BS, SABS, DIN or custom
 - Available in carbon steel or stainless
 - Fixed or swivel design
- Victaulic grooved or shouldered couplings
- 1 flange + muff coupling
- 2 enlarged or smooth cuffs

COMPLEMENTARY INFORMATION

- May be bore matched to align with other pipework
- Site audits, 3D scanning and drafting services are available for a fully engineered solution
- Every facet of the hose design can be modified to your needs





MINING

T-FLEX®



NOMINAL BORE NB	HOSE ID mm	STD. LINER THICKNESS mm	STD. DESIGN PRESSURE		MINIMUM BURST PRESSURE		VACUUM RATING %	MINIMUM BEND RADIUS	
			kPa	psi	kPa	psi		m	x Dia
50	51	6	700	100	2800	400	90	0.4	8x
80	76	6	700	100	2800	400	90	0.6	8x
100	101	6	700	100	2800	400	90	0.8	8x
125	127	6	700	100	2800	400	90	1.0	8x
150	152	6	700	100	2800	400	90	1.2	8x
200	203	10	700	100	2800	400	90	1.6	8x
250	254	12	700	100	2800	400	90	2.0	8x
300	304	12	700	100	2800	400	90	2.4	8x
350	355	12	700	100	2800	400	90	2.8	8x
400	406	12	700	100	2800	400	90	3.2	8x
450	457	12	700	100	2800	400	90	3.6	8x
500	508	14	700	100	2800	400	85 ⁽¹⁾	4.0	8x
550	559	16	700	100	2800	400	80 ⁽¹⁾	4.4	8x
600	610	18	700	100	2800	400	75 ⁽¹⁾	4.8	8x
700	711	20	700	100	2800	400	50 ⁽¹⁾	7.0	10x
750 - 1000	Please consult Trelleborg								

⁽¹⁾ Please consult Trelleborg for a tailored solution if full vacuum is required.

Note

Physical properties are typical values for wire reinforced slurry hose (Table D, 700 kPa design pressure). Data is subject to change as its specific to the hose design. Custom internal hose diameters or oversized flanges are available upon request.

Standard wear liner thickness is a recommendation for slurry applications. Increased wear liner thicknesses can be accommodated (please consult Trelleborg).

Design pressures up to 5000 kPa can be provided.

Typical bend radius is 8x Dia for 40 shore lined hoses.

Please consult Trelleborg for manufacturing tolerances.

Each hose is designed to the required working pressure.

We build the hose with your required flange drill pattern (fixed or swivel).

We custom manufacture to your required lengths.

Trelleborg's expertise in polymers ensures you have the right material and wear lining thickness for the application.

We can customise the hose ID to bore match with your existing pipework.

