

SF-Series

Specialty Superflex Hard-Wall Mining Hose



Slurryflex SF-Series is a super flexible hard-wall mining hose for special installations that require a tight bend radius not possible using a conventional mining hose. Utilises proprietary hose technology to provide best-in-class flexibility and tightest bend radius available (without kinking). Designed and manufactured in Australia, this premium product is suitable for the most arduous applications.

Typically used where a very high level of hose flexibility required, to fit into tight or complex geometry, thermal expansion, or to allow for significant movement and misalignment (often replacing existing rigid pipe bend spools). Standard applications include slurry or water transfer in mineral processing plants, tailings pipelines, dredging, and dewatering.

Suitable for both small particle (erosive) and large particle (cutting/gouging) slurry conditions. Suitable for specialty applications such as slurry or other fluids containing chemicals, acids, and hydrocarbons. Fully customisable with special engineered designs available on request.

Technical Specifications

Hose size	DN50-1500 (2-60") as standard
Hose length	Up to 20m (66') as standard
Pressure rating	-100kPa to +5000kPa (-14.5psi to +725psi) Higher on request
Temperature rating	-30°C to +75°C for Slurryflex Grade A rubber
End connections	Plain end Flanged (fixed or swivel) Flanged full spigot (fixed or swivel) Double flanged Grooved (roll or cut) Threaded Butt weld Custom
Flange types	AS2129, ASME B16.5, ASME B16.47, AWWA C207, AS4087, BS EN 1092, BS 3293, JIS B2220, SANS 1123, DIN ISO 7005, custom
Groove types	AWWA C606 OGS, Victaulic AGS, custom
Thread types	BSP, NPT, API, premium, custom
Safety factor	4:1 as standard
Extra options	Custom nozzles, branches, or connections Wear monitoring system (plug-only or push-button)

Material Specifications

Inner liner	Slurryflex Grade A rubber (for high-wear slurry) Slurryflex ASR rubber (for acidic slurry) Slurryflex HSR rubber (for hydrocarbon-containing slurry) Slurryflex TSR rubber (for high-temperature slurry) Slurryflex custom formulation
Reinforcement	Synthetic fabric and wire helix
Outer cover	UV, ozone, and abrasion-resistant rubber
End connections	Carbon steel (painted, galvanised, custom) Stainless steel (SS304, SS316) Exotic alloy

Standard Properties

DN	Hose Size		Standard Liner Thickness		Max Liner Thickness		Vacuum Rating	Standard Working Pressure		Max Working Pressure		Min Bend Radius		
	in	mm	mm	in	mm	in	%	kPa	PSI	kPa	PSI	m	ft	x Dia
50	2	51	6	¼	6	¼	100	1000	150	5000	725	0.2	0.7	4
80	3	76	6	¼	9	⅜	100	1000	150	5000	725	0.3	1.0	4
100	4	102	6	¼	12	½	100	1000	150	5000	725	0.4	1.3	4
125	5	127	6	¼	12	½	100	1000	150	5000	725	0.5	1.6	4
150	6	152	6	¼	12	½	100	1000	150	5000	725	0.6	2.0	4
200	8	203	6	¼	12	½	100	1000	150	5000	725	0.8	2.6	4
250	10	254	9	⅜	15	⅝	100	1000	150	5000	725	1.3	4.1	5
300	12	304	9	⅜	19	¾	100	1000	150	5000	725	1.5	4.9	5
350	14	355	9	⅜	19	¾	100	1000	150	5000	725	1.8	5.7	5
400	16	405	12	½	19	¾	100	1000	150	5000	725	2.0	6.6	5
450	18	457	12	½	19	¾	100	1000	150	5000	725	2.7	8.9	6
500	20	508	12	½	19	¾	100	1000	150	4000	580	3.0	9.8	6
550	22	565	12	½	19	¾	100	1000	150	4000	580	3.3	10.8	6
600	24	610	12	½	19	¾	100	1000	150	4000	580	3.6	11.8	6
650	26	660	15	⅝	19	¾	100	700	100	3000	435	3.9	12.8	6
700	28	711	15	⅝	19	¾	100	700	100	3000	435	4.2	13.8	6
750	30	762	15	⅝	19	¾	100	700	100	3000	435	4.5	14.8	6
800	32	813	15	⅝	25	1	100	700	100	3000	435	5.6	18.4	7
900	36	914	15	⅝	25	1	100	700	100	3000	435	6.3	20.7	7
1000	40	1016	19	¾	30	1 ¼	100	700	100	3000	435	7.0	23.0	7
1100	44	1118	19	¾	30	1 ¼	100	700	100	2500	362	8.8	28.9	8
1200	48	1219	19	¾	32	1 ⅝	100	700	100	2500	362	9.6	31.5	8
1300	52	1321	19	¾	40	1 ⅝	100	700	100	2500	362	10.4	34.1	8
1400	56	1422	19	¾	40	1 ⅝	100	700	100	2500	362	11.2	36.7	8
1500	60	1524	19	¾	40	1 ⅝	100	700	100	2500	362	12.0	39.3	8

Notes

1. Product is fully customisable and available in non-standard specifications on request.
2. Safety factor is the ratio of working pressure to minimum rated burst pressure.
3. Standard liner thickness is the thickness recommended for general slurry applications (min 3mm for non-abrasive applications, e.g. water).
4. Maximum liner thickness is the design limit for a hose with fixed flange ASME CL150, standard working pressure, and standard hose inside diameter.
5. Minimum bend radius is the recommended design limit for a 6m hose length with fixed flange, standard working pressure, and standard liner thickness.