

## DF-Series

### Specialty Hard-Wall Dredge Hose (For Hose Float Use)



Slurryflex DF-Series hard-wall dredge hose (for use with hose floats) suitable for suction and discharge duty. Designed and manufactured in Australia, this premium product is suitable for the most arduous applications.

Designed for use with hose floats (hose outside diameter to suit hose float inside diameter) on floating hose pipelines such as dredging applications.

Fully customisable with special engineered designs available on request.

#### Technical Specifications

<b>Hose size</b>	DN50-1500 (2-60") as standard
<b>Hose length</b>	Up to 20m (66') as standard
<b>Pressure rating</b>	-100kPa to +5000kPa (-14.5psi to +725psi) Higher on request
<b>Temperature rating</b>	-30°C to +75°C for Slurryflex Grade A rubber
<b>Buoyancy rating</b>	0% (neutral) to 50% (half of hose out of water)
<b>End connections</b>	Plain end Flanged (fixed or swivel) Flanged full spigot (fixed or swivel) Double flanged Grooved (roll or cut) Threaded Butt weld Custom
<b>Flange types</b>	AS2129, ASME B16.5, ASME B16.47, AWWA C207, AS4087, BS EN 1092, BS 3293, JIS B2220, SANS 1123, DIN ISO 7005, custom
<b>Groove types</b>	AWWA C606 OGS, Victaulic AGS, custom
<b>Thread types</b>	BSP, NPT, API, premium, custom
<b>Safety factor</b>	4:1 as standard
<b>Extra options</b>	Custom nozzles, branches, or connections Wear monitoring system (plug-only or push-button)

#### Material Specifications

<b>Inner liner</b>	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
<b>Reinforcement</b>	Synthetic fabric and wire helix
<b>Outer cover</b>	UV, ozone, and abrasion-resistant rubber
<b>End connections</b>	Carbon steel (painted, galvanised, custom) Stainless steel (SS304, SS316) Exotic alloy
<b>Float</b>	Polypropylene body, with galvanised bolt-sets (foam-filled option, SS316 bolt-sets option)

## 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	0.4	1.3	8	
80	3	76	6	¼	9	⅜	100	1000	150	5000	725	0.6	2.1	8	
100	4	102	6	¼	12	½	100	1000	150	5000	725	0.8	2.6	8	
125	5	127	6	¼	12	½	100	1000	150	5000	725	1.0	3.3	8	
150	6	152	6	¼	12	½	100	1000	150	5000	725	1.2	3.9	8	
200	8	203	6	¼	12	½	100	1000	150	5000	725	1.6	5.2	8	
250	10	254	9	⅜	15	⅝	100	1000	150	5000	725	2.0	6.6	8	
300	12	304	9	⅜	19	¾	100	1000	150	5000	725	2.4	7.9	8	
350	14	355	9	⅜	19	¾	100	1000	150	5000	725	2.8	9.2	8	
400	16	405	12	½	19	¾	100	1000	150	5000	725	3.2	10.5	8	
450	18	457	12	½	19	¾	100	1000	150	5000	725	4.5	14.8	10	
500	20	508	12	½	19	¾	100	1000	150	5000	725	5.0	16.4	10	
550	22	565	12	½	19	¾	100	1000	150	5000	725	5.5	18.0	10	
600	24	610	12	½	19	¾	100	1000	150	5000	725	6.0	19.7	10	
650	26	660	15	⅝	19	¾	100	700	100	4000	580	7.8	25.6	12	
700	28	711	15	⅝	19	¾	100	700	100	4000	580	8.4	27.5	12	
750	30	762	15	⅝	19	¾	100	700	100	4000	580	9.0	29.5	12	
800	32	813	15	⅝	25	1	100	700	100	3000	435	9.6	31.5	12	
900	36	914	15	⅝	25	1	100	700	100	3000	435	10.8	35.4	12	
1000	40	1016	19	¾	30	1 ¼	100	700	100	3000	435	12.0	39.3	12	
1100	44	1118	19	¾	30	1 ¼	100	700	100	2500	362	13.2	43.3	12	
1200	48	1219	19	¾	32	1 ⅙	100	700	100	2500	362	14.4	47.2	12	
1300	52	1321	19	¾	40	1 ⅝	100	700	100	2500	362	15.6	51.1	12	
1400	56	1422	19	¾	40	1 ⅝	100	700	100	2500	362	16.8	55.1	12	
1500	60	1524	19	¾	40	1 ⅝	100	700	100	2500	362	18.0	59.0	12	

### Notes

- Product is fully customisable and available in non-standard specifications on request.
- Buoyancy rating % is calculated based on SG of internal fluid, SG of external fluid, mass of hose, and volume of hose.
- Safety factor is the ratio of working pressure to minimum rated burst pressure.
- Standard liner thickness is the thickness recommended for general slurry applications (min 3mm for non-abrasive applications, e.g. water).
- Maximum liner thickness is the design limit for a hose with fixed flange ASME CL150, standard working pressure, and standard hose inside diameter.
- Minimum bend radius is the recommended design limit for a 6m hose length with fixed flange, standard working pressure, and standard liner thickness. If smaller bend radius required, see SC-Series Pre-Formed Bend or SF-Series Superflex Hard-Wall Mining Hose.