

## MEDIUM DUTY ABRASIVES HANDLING HOSE

Specification	A16, A17, A18, A25, A32, A39 – Hand-built ‘hard wall’ suction hose.					
Applications	Animal feeds, grains, flours, powders, cement, sand, dry waste, rubble.					
Sizes	51mm (2”) to 254mm (10”) – 12 metres.					
Natural rubbers available	1	Soft gum	25° - 35° irhd	3	Antistatic	60° - 65° irhd
	2	Hard black	60° - 65° irhd	4	White FDA	60° - 65° irhd
Lining thickness variations	A16	Gum	3mm	A18-B	Black	6mm
	A16-B	Black	3mm	A25	Black AS	1.5mm
	A17	Gum	4.5mm	A39	Black AS	3mm
	A17-B	Black	4.5mm	A32	White	3mm
	A18	Gum	6mm			
Reinforcement	Two plies of synthetic tyre cord fabric and a fully embedded high tensile steel wire helix, giving a minimum bend radius of 6 x bore size.					
Working pressure/ vacuum	2” – 6”		10 bar		-0.85 bar	
	8” – 10”		7 bar		-0.85 bar	
Cover	Corrugated black abrasion and weather resistant natural rubber, except A32, which has a white natural rubber cover. ‘Rope down’ derivatives are available for increased flexibility.					
Approximate weight Kg/metre	Bore		A16,32,39	A17	A18	A25
	2”	51mm	1.8	2.1	2.4	1.9
	3”	76mm	2.8	3.3	3.7	2.9
	4”	102mm	3.6	4.1	4.7	3.7
	6”	152mm	5.8	6.7	7.5	6.1
	8”	203mm	10.2	11.3	12.4	10.7
	10”	254mm	13.5	14.2	16.3	14.2
Other sizes are available on request						
Coupling systems	Wire-free plain or enlarged (through-bore) soft, cuffed ends to wire-in, strap-in or clamp-in hose tails. Cuffs can also be sealed to protect the inner carcass. Trailing anti-static wires are also available.					

## SAND & GRAVEL MINING HOSE

Specification	A02, A12 – Hand-built abrasion resistant suction and discharge hose.				
Applications	Sand and gravel pits, mining, coal, grain handling, mineral processing.				
Sizes	51mm to 406mm – 12 metres.				
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. A tan coloured gumstock 40° hard natural rubber for fine air-bourne abrasives (A02) and a black reinforced 60° hard natural rubber for slurries and heavy abrasives such as gravel and rock (A12).				
Consult JH Hose for the correct lining to suit your application					
Reinforcement	Multiple layers of synthetic cord plus a single steel wire helix, giving a minimum 3.5:1 safety factor and a minimum 6 x bore size bend radius.				
Cover	Corrugated for greater flexibility. Tough weather and abrasion resistant. Two types are available, black natural rubber for normal use of black neoprene rubber for more extreme external conditions.				
Working pressure	10 bar working pressure		-0.85 bar vacuum		
	Higher working pressures are available upon request.				
Nominal physical data	Bore	Lining	Nominal od	Nom	Min bend
	Inch	mm	mm	Kg/mtr	radius mm
	2	51	3	2.2	203
	3	76	6	5.0	305
	4	102	6	6.4	406
	6	152	7.5	12.9	610
	8	203	9	17.8	1190
	10	254	9	23.9	1520
	12	305	9	29.1	1800
	14	356	12	37.1	2490
Other sizes are available on request	16	406	12	42.1	2900
Coupling systems	Integral fixed rubber and fabric flanges with steel backing plates or beaded swivel ends are usually supplied where abrasive materials would excessively wear a steel hose tail.				

**DREDGER SEPARATE RING HOSE**

Specification	A20 – Hand-built separate embedded ring suction hose.			
Applications	Designed for use on outboard systems of suction hopper and trailing suction dredgers where gimbal supports are used. These dredge hoses are capable of high angular deflection over short lengths.			
Sizes	300mm –1000mm – 7 metres.			
Lining	Smooth bore, mandrel built. Highly abrasion and cut resistant black natural rubber lining in varying thicknesses depending on the severity of the application.			
Thickness examples	A20 – 10.5	10.5mm thick lining		
	A20 - 25	25mm thick lining		
Reinforcement	A substantial carcass of high strength synthetic textile cords and extremely robust separate embedded rings embedded in solid rubber giving maximum resistance to crushing and vacuum collapse.			
Physical data	Vacuum	Full vacuum		
Cover	Tough neoprene rubber for excellent resistance against abrasion, weathering, oil, grease and sea water.			
Physical data	Inside diameter	mm	Weight Kg/mtr	Ring spacing
	12"	300	55	75
	16"	400	85	100
	20"	500	120	125
	24"	600	145	125
	27.1/2"	700	165	130
	31.1/2"	800	215	150
	35.1/2"	900	240	160
	Other sizes are available on request	39.1/2"	1000	275
Coupling systems	Integral fixed rubber and fabric flanges with steel backing plates, beaded swivel ends. Heavy-duty built-in steel fittings are also available. Hoses can also be supplied with plain or enlarged ends.			

**DREDGER DISCHARGE HOSE**

Specification	A22, A23, A24 – Hand-built dredger discharge hose.			
Applications	Designed for use as flexible connections in floating pipeline discharge systems. A range of pressure ratings and lining thicknesses are available depending on the duty required.			
Sizes	250mm to 400mm – 12 metres. 500mm to 1000mm – 7 metres.			
Lining	Smooth bore, mandrel built. Highly abrasion and cut resistant black natural rubber lining in varying thicknesses depending on the severity of the application.			
Reinforcement	A substantial carcass of high strength synthetic textile cord plies embedded in highly resilient rubber, giving maximum resistance to pressure and flexing. This special reinforcement gives stability under pressure increasing the wear resistance of the lining.			
Working pressure	A22	7 bar		
	A23	10 bar		
	A24	15 bar		
Cover	Tough neoprene rubber for excellent resistance against abrasion, weathering, oil, grease and seawater.			
Physical data  Other sizes are available on request	Inside diameter	mm	Approx od mm	Weight Kg/mtr
	10"	250	292	18
	12"	300	347	23
	16"	400	448	29
	20"	500	555	38
	24 1/2"	600	660	48
	27 1/2"	700	745	61
	31 1/2"	800	862	71
	35 1/2"	900	970	88
	39 1/2"	1000	1078	94
Coupling systems	Integral fixed rubber and fabric flanges with steel backing plates, beaded swivel ends. Heavy-duty built-in steel fittings are also available. Hoses can also be supplied with plain or enlarged ends.			

**DREDGER SUCTION AND DISCHARGE HOSE**

Specification	A27, A28, A29 – Hand-built dredger suction and discharge hose.			
Applications	Designed for use on dredger systems in many positions both onboard dredgers and for pontoon lines where a non-collapsible hose is required.			
Sizes	250mm to 400mm – 12 metres. 500mm to 1000mm – 7 metres.			
Lining	Smooth bore, mandrel built. Highly abrasion and cut resistant black natural rubber lining in varying thicknesses depending on the severity of the application.			
Reinforcement	A substantial carcass of high strength synthetic textile cords and on an extra heavy duty tensile steel wire helix fully embedded in highly abrasion resistant rubber giving maximum resistance to crushing and vacuum collapse.			
Working pressure/ vacuum	A27	7 bar	Full vacuum	
	A28	10 bar	Full vacuum	
	A29	15 bar	Full vacuum	
Cover	Tough neoprene rubber for excellent resistance against abrasion, weathering, oil, grease and seawater.			
Physical data	Inside diameter	mm	Approx od mm	Weight Kg/mtr
	10"	250	304	27
	12"	300	361	33
	16"	400	462	44
	20"	500	575	57
	24"	600	680	72
	27.1/2"	700	765	92
	31.1/2"	800	886	107
	35.1/2"	900	994	132
	39.1/2"	1000	1108	141
Other sizes are available on request				
Coupling systems	Integral fixed rubber and fabric flanges with steel backing plates, beaded swivel ends. Heavy-duty built-in steel fittings are also available. Hoses can also be supplied with plain or enlarged ends.			