HYDRAULIC HOSE & PROTECTION

1SN - 1 Wire Hose

Hose construction and size selected to match the fluid, operating duty and installation.

Construction & technical characteristics

Characteristic	Specification
Inner tube	Oil- and water-resistant synthetic rubber
Reinforcement	One high-tensile steel-wire braid
Outer cover	Synthetic rubber resistant to abrasion, ozone and weathering
Operating temperature	-40 to +100 °C
Construction standard	EN 853 1SN / SAE 100 R1AT
Nominal safety factor	4:1

Ordering references: 1SN-04 / 1SN-05 / 1SN-06 / 1SN-08 / 1SN-10 / 1SN-12 / 1SN-16 / 1SN-20 / 1SN-24 / 1SN-32 / R104 / R105 / R106 / R108 / R110 / R112 / R116 / R120 / R124 / R132 / S104 / S105 / S106 / S108 / S110 / S112 / S116 / S120 / S124 / S132

Hose dimensions & operating limits

Part code	Bore (in)	ID (mm)	OD (mm)	Working pressure (bar)	Burst pressure (bar)	Min. bend radius (mm)	Mass (kg/m)
S104	1/4	6.4	13.4	225	900	100	0.21
S105	5/16	7.9	15	215	850	115	0.24
S106	3/8	9.5	17.4	180	720	125	0.33
S108	1/2	12.7	20.6	160	640	180	0.41
S110	5/8	15.9	23.7	130	520	200	0.45
S112	3/4	19	27.7	105	420	240	0.58
S116	1	25.4	35.6	88	350	300	0.88
S120	1-1/4	31.8	43.5	63	250	420	1.23

Hose dimensions & operating limits

Part code	Bore (in)	ID (mm)	OD (mm)	Working pressure (bar)	Burst pressure (bar)	Min. bend radius (mm)	Mass (kg/m)
S124	1-1/2	38.1	50.6	50	200	500	1.51
S132	2	50.8	64	40	160	630	1.97
1SN-04	1/4	6.4	13.4	225	900	100	0.21
1SN-05	5/16	7.9	15	215	850	115	0.24
1SN-06	3/8	9.5	17.4	180	720	125	0.33
1SN-08	1/2	12.7	20.6	160	640	180	0.41
1SN-10	5/8	15.9	23.7	130	520	200	0.45
1SN-12	3/4	19	27.7	105	420	240	0.58
1SN-16	1	25.4	35.6	88	350	300	0.88
1SN-20	1-1/4	31.8	43.5	63	250	420	1.23
1SN-24	1-1/2	38.1	50.6	50	200	500	1.51
1SN-32	2	50.8	64	40	160	630	1.97
R104	1/4	6.4	13.4	225	900	100	0.21
R105	5/16	7.9	15	215	850	115	0.24
R106	3/8	9.5	17.4	180	720	125	0.33
R108	1/2	12.7	20.6	160	640	180	0.41
R110	5/8	15.9	23.7	130	520	200	0.45
R112	3/4	19	27.7	105	420	240	0.58
R116	1	25.4	35.6	88	350	300	0.88
R120	1-1/4	31.8	43.5	63	250	420	1.23
R124	1-1/2	38.1	50.6	50	200	500	1.51

Hose dimensions & operating limits

Part code	Bore (in)	ID (mm)	OD (mm)	Working pressure (bar)	Burst pressure (bar)	Min. bend radius (mm)	Mass (kg/m)
R132	2	50.8	64	40	160	630	1.97

Ratings apply to the exact part code and specified construction. Fluid compatibility, temperature derating and the complete assembly must suit the operating duty. Values marked Confirm require configuration verification.

Application & quotation checklist

Inside diameter and overall length; Working pressure and pressure peaks; Fluid and operating temperature; End connections, orientation and routing

Request a quotation

admin@africanhosesolutions.co.za | 010 065 3872

Provide the part code, size, quantity, required configuration and application. Include a drawing or photograph where available.

Ratings apply only to the specified product and configuration. Confirm fluid compatibility, temperature, pressure transients, installation and complete assembly suitability. Ordering references do not establish interchangeability.