



钢丝编织中压低压标准胶管
BRAIDED HOSES
ACCORDING TO STANDARD



SAE 100R1AT. DIN EN853 1SN
SAE 100R2AT. DIN EN853 2SN
EN857 1SC
EN857 2SC
SAE 100R6
EN854 1TE
EN854 2TE
EN854 3TE





SAE 100R1AT. DIN EN853 1SN

Application: Medium pressure hydraulic application including mobile, machine tool and agricultural application, using petroleum-or water-based hydraulic fluids.

应用场合：各种中压液压系统，包括工程机械，机床和 农业设备，使用石油或水基液压油。

Inner Tube: Oil resistant synthetic rubber

内管：耐油合成橡胶

Reinforcement: one braid of high-tensile steel wire

加强层：单层钢丝编织

Cover: Black Neoprene Blend (I.D.less than 25.4mm wrap or smooth cover)

外层：黑色氯丁橡胶混合物（内径小于25.4mm包裹或光滑外层）

Temperature Range: -40°F to 212°F (-40°C to 100°C)

温度范围：-40°C至100°C



Nominal Diameter 名义尺寸		Inside Diameter 内径	Reinforcement Diameter 钢丝层直径	Outside Diameter 外径	Working pressure 工作压力		Proof pressure 测试压力	Burst pressure 爆裂压力	Bend Radius 弯曲半径	Weight 重量
inch	mm	mm	mm	mm	bar	psi	bar	bar	mm	kgs/m
3/16	5	4.6–5.4	8.9–10.1	11.5–12.3	250	3625	600	1000	89	0.2
1/4	6	6.2–7.0	10.8–11.4	12.7–13.5	225	3263	540	900	102	0.25
5/16	8	7.7–8.5	12.5–13.1	14.6–15.4	215	3118	510	850	114	0.31
3/8	10	9.3–10.1	14.5–15.1	16.7–17.5	180	2610	435	720	127	0.36
1/2	12	12.3–13.5	17.7–18.3	19.8–20.6	160	2320	385	640	178	0.45
5/8	16	15.5–16.7	21.2–21.7	23.2–24.0	130	1885	315	520	203	0.52
3/4	19	18.6–19.8	24.6–25.4	26.9–27.7	105	1523	255	420	241	0.65
1	25	25.0–26.4	32.1–32.9	34.6–35.4	88	1276	210	350	305	0.91
1–1/4	31	31.4–33.0	40.8–41.6	43.3–44.1	63	914	150	250	419	1.3
1–1/2	38	37.7–39.3	47.2–48.0	49.7–50.5	50	725	120	200	508	1.7
2	51	50.4–52.0	59.9–60.7	62.4–63.2	40	580	96	160	635	2.0

SAE 100R2AT. DIN EN853 2SN

应用场合：各种中压压设备，包括工程机械、机床和农业应用，使用石油或水基液压油。

Application: Medium pressure hydraulic application including mobile, machine tool and agricultural application, using petroleum-or water-based hydraulic fluids.

Inner Tube: Oil resistant synthetic rubber 内管：耐油合成橡胶

Reinforcement: Two braid of high-tensile steel wire 加强层：两层高强度钢丝编织

Cover: Black Neoprene Blend (I.D.less than 25.4mm wrap or smooth cover) 外层：黑色氯丁橡胶混合物（内径小于25.4mm包裹或光滑外层）

Temperature Range: -40°F to 212°F (-40°C to 100°C) 温度范围：-40°F至212°F (-40°C至100°C)



Nominal Diameter 名义尺寸		Inside Diameter 内径	Reinforcement Diameter 钢丝层直径	Outside Diameter 外径	Working pressure 工作压力		Proof pressure 测试压力	Burst pressure 爆裂压力	Bend Radius 弯曲半径	Weight 重量
inch	mm	mm	mm	mm	bar	psi	bar	bar	mm	kgs/m
3/16	5	4.6–5.4	10.6–11.7	13.3–14.1	415	6017.5	996	1660	90	0.3
1/4	6	6.2–7.0	12.5–13.1	14.4–15.2	400	5800	960	1600	100	0.3
5/16	8	7.7–8.5	14.2–14.8	16.3–17.1	350	5075	840	1400	115	0.36
3/8	10	9.3–10.1	16.2–16.8	18.3–19.1	330	4785	792	1320	130	0.49
1/2	12	12.3–13.5	19.4–20.0	21.5–22.3	275	3987.5	660	1100	180	0.56
5/8	16	15.5–16.7	22.8–23.4	25.0–25.8	250	3625	600	1000	200	0.60
3/4	19	18.6–19.8	26.4–27.2	28.6–29.4	215	3117.5	516	860	240	0.83
1	25	25.0–26.4	33.9–34.7	36.5–37.1	165	2392.5	396	660	300	1.22
1–1/4	31	31.4–33.0	42.8–43.6	45.3–46.1	125	1812.5	300	500	420	1.91
1–1/2	38	37.7–39.3	49.2–50.0	51.7–52.5	90	1305	216	360	500	2.17
2	51	50.4–52.0	61.9–62.7	64.4–65.2	80	1160	192	320	630	2.74

EN857 1SC

胶管结构：由耐油合成橡胶内层、单层钢丝编织增强层和耐油耐风雨合成橡胶外层组成。

Construction: This hose consist of an inner tube of oil resistant synthetic rubber, one wire braid reinforcement, and oil&weather resistant synthetic rubber cover.

Applications: High pressure service with tight bends for petroleum and water-based hydraulic fluids. 应用范围：用于石油和水基液压油，并可弯曲的高压液压设备。

Working temperature: From -40°C up to +100°C 工作温度：从-40°C到+100°C



SIZE 规格		I.D 内径	BRAID 钢丝层直径	O.D 外径	Working pressure 工作压力		Test pressure 测试压力	Burst pressure 爆裂压力	Bend radius 弯曲半径	Weight 重量
mm	inch	mm	mm	mm	bar	psi	bar	bar	mm	Kg/m
6	1/4	6.4	10.2	12.2	225	3265	450	900	75	0.18
8	5/16	7.9	11.5	13.5	215	3120	430	860	85	0.21
10	3/8	9.5	13.6	15.6	180	2610	360	720	90	0.28
12	1/2	12.7	17.0	19.0	160	2320	320	640	130	0.33
16	5/8	15.9	20.4	22.4	130	1885	260	520	150	0.41
19	3/4	19.0	23.8	26.0	105	1525	210	420	180	0.52
25	1	25.4	31.3	33.3	88	1275	176	352	230	0.78
32	1–1/4	31.8	38.5	41.5	75	1090	150	300	315	0.93

EN857 2SC

胶管结构：该软管由耐油合成橡胶内管、两层钢丝编织增强层和耐油耐风雨的合成橡胶外层组成。

Construction: This hose consist of an inner tube of oil resistant synthetic rubber, two wire braid reinforcement, and oil&weather resistant synthetic rubber cover.

Applications: High pressure service with tight bends for petroleum and water-based hydraulic fluids. 应用范围：用于石油和水基液压油，并可弯曲的高压液压设备。

Working temperature: From - 40°C up to + 100°C 工作温度：从-40°C到+100°C



SIZE 规格		I.D 内径	Braid 编织层直径	O.D 外径	Working pressure 工作压力		Test pressure 测试压力	Burst pressure 爆裂压力	Bend radius 弯曲半径	Weight 重量
mm	inch	mm	mm	mm	bar	psi	bar	bar	mm	Kg/m
6	1/4	6.4	11.5	13.5	400	5800	800	1600	75	0.28
8	5/16	7.9	13.0	14.7	350	5075	700	1400	85	0.33
10	3/8	9.5	15.2	17.2	330	4785	660	1320	90	0.42
12	1/2	12.7	18.5	20.5	275	3990	550	1100	130	0.52
16	5/8	15.9	21.8	23.8	250	3625	500	1000	170	0.61
19	3/4	19.0	25.4	27.6	215	3120	430	860	200	0.79
25	1	25.4	33.0	35.4	165	2390	330	660	250	1.10
32	1–1/4	31.8	40.0	43.5	150	2175	300	600	335	1.50



DIN EN 854 1TE

Hose construction 单层钢丝低压胶管
Tube: Oil resistant synthetic rubber 耐油合成橡胶
Reinforcement: One textile braid 单层钢丝编织层
Cover: Abrasion, ozone and weather resistant synthetic rubber 外层：耐磨、耐臭氧、耐风雨合成橡胶



Inside Diameter 内径		Outside Diameter 外径	Working pressure 工作压力	Burst Pressure 爆裂压力	Bend Radius 弯曲半径	Weight 重量
inch	mm	mm	Bar	bar	mm	kg/m
3/16	4.6–5.4	10.0–11.6	25	100	35	0.09
1/4	6.2–7.0	11.6–13.2	25	100	45	0.11
5/16	7.7–8.5	13.1–14.7	20	80	65	0.133
3/8	9.3–10.1	14.7–16.3	20	80	75	0.15
1/2	12.3–13.5	17.7–19.7	16	64	90	0.19
5/8	15.5–16.7	21.9–23.9	16	64	115	0.277

DIN EN 854 2TE

Hose construction 2层钢丝低压胶管
Tube: Oil resistant synthetic rubber 耐油合成橡胶
Reinforcement: Two textile braid 2层钢丝编织
Cover: Abrasion, ozone and weather resistant synthetic rubber 外层：耐磨、耐臭氧、耐风雨合成橡胶



Inside Diameter 内径		Outside Diameter 外径	Working pressure 工作压力	Burst Pressure 爆裂压力	Bend Radius 弯曲半径	Weight 重量
inch	mm	mm	Bar	bar	mm	kg/m
3/16	4.6–5.4	11.0–12.6	80	320	35	0.117
1/4	6.2–7.0	12.6–14.2	75	300	40	0.139
5/16	7.7–8.5	14.1–15.7	68	272	50	0.157
3/8	9.3–10.1	15.7–17.3	63	252	60	0.183
1/2	12.3–13.5	18.7–20.7	58	232	70	0.222
5/8	15.5–16.7	22.9–24.9	50	200	90	0.316
3/4	18.6–19.8	26.0–28.0	45	180	110	0.37
1	25.0–26.4	32.9–35.9	40	160	130	0.547

SAE 100 R6

Hose Construction 单层钢丝低压胶管
Tube: Oil resistant synthetic rubber 耐油合成橡胶
Reinforcement: One textile braid 单层钢丝编织
Cover: Abrasion, ozone and weather resistant synthetic rubber 外层：耐磨、耐臭氧、耐风雨合成橡胶
Temperature Range: From - 40°C UP to +100°C 温度范围：从-40°C到+100°C



SIZE 规格		I.D 内径		O.D 外径		W.P 工作压力		B.P 爆裂压力		MIN B.R 弯曲半径		W.T 重量
INCH	MM	MIN	MAX	MIN	MAX	MPA	PSI	MPA	PSI	INCH	MM	KG/M
3/16	5	4.5	5.4	10.3	11.9	3.5	510	14	2030	1.97	50	0.11
1/4	6	6.1	7.0	11.9	13.5	2.8	410	11.2	1620	2.56	65	0.13
5/16	8	7.6	8.5	13.5	15.1	2.8	410	11.2	1620	2.95	75	0.15
3/8	10	9.2	10.1	15.1	16.7	2.8	410	11.2	1620	2.95	75	0.18
1/2	12.5	12.4	13.5	19.0	20.6	2.8	410	11.2	1620	3.94	100	0.26
5/8	16	15.6	16.7	22.2	23.8	2.4	350	9.8	1420	4.92	125	0.31
3/4	19	18.7	19.8	25.4	27.8	2.1	310	8.4	1220	5.91	150	0.40

DIN EN 854 3TE

Hose construction 两层钢丝编制中低压胶管
Tube: Oil resistant synthetic rubber 耐油合成橡胶
Reinforcement: Two textile braid 2层钢丝编织
Cover: Abrasion, ozone and weather resistant synthetic rubber 外层：耐磨、耐臭氧、耐风雨合成橡胶



Inside Diameter 内径		Outside Diameter 外径	Working pressure 工作压力	Burst Pressure 爆裂压力	Bend Radius 弯曲半径	Weight 重量
inch	mm	mm	Bar	bar	mm	kg/m
3/16	4.6–5.4	12–13.6	160	640	40	0.12
1/4	6.2–7.0	13.6–15.2	145	580	45	0.15
5/16	7.7–8.5	16.1–17.7	130	520	55	0.21
3/8	9.3–10.1	17.7–19.3	110	440	70	0.24
1/2	12.3–13.5	20.7–22.7	93	372	85	0.29
5/8	15.5–16.7	24.9–26.9	80	320	105	0.40
3/4	18.6–19.8	28.0–30.0	70	280	130	0.47
1	25.0–26.4	34.4–37.4	55	220	150	0.63
1 1/4	31.4–33.0	40.8–43.8	45	180	190	0.77
1 1/2	37.1–39.1	47.6–51.6	40	160	240	0.97
2	49.8–51.8	60.3–64.3	33	132	300	1.24