

Finer Power Transmissions stocks a range of Semperit 1 wire and 2 wire braided hydraulic hoses. Generally suitable for medium to high pressure hydraulic lines, using mineral and synthetic oil-based hydraulic fluids, oil-water emulsions and for water-glycol solutions as well as for vegetable and mineral oil based lubricants.

Hose ID, Wire OD and Hose OD (DIN EN/SAE standard and Semperit standard)

R1AT-1SN

Size	Hose ID				Wire OD				Hose OD				Cover Thickness			
	Standard Values		Semperit Values		Standard Values		Semperit Values		Standard Values		Semperit Values		Standard Values		Semperit Values	
	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
R1AT1/4-1SN06	6.2	7	6.4	6.8	10.6	11.6	10.6	11.2	Not Specified	14.1	12.5	13.4	0.8	1.5	0.8	1.3
R1AT3/8-1SN10	9.3	10.1	9.6	10.1	14.5	15.7	14.5	15.2		18.1	16.2	17.1	0.8	1.5	0.8	1.3
R1AT1/2-1SN12	12.3	13.5	12.7	13.3	17.5	19.1	17.5	18.3		21.4	19.4	20.4	0.8	1.5	0.8	1.3
R1AT5/8-1SN16	15.5	16.7	16	16.7	20.6	22.2	20.6	21.4		24.5	22.6	23.6	0.8	1.5	0.8	1.3
R1AT3/4-1SN20	18.6	19.8	19.1	19.8	24.6	26.2	24.6	25.5		28.5	26.4	27.6	0.8	1.5	0.8	1.3
R1AT1 - 1SN25	25	26.4	25.5	26.4	32.5	34.1	32.5	33.3		36.6	34.3	35.7	0.8	1.5	0.8	1.3

R2AT-2SN

Size	Hose ID				Wire OD				Hose OD				Cover Thickness			
	Standard Values		Semperit Values		Standard Values		Semperit Values		Standard Values		Semperit Values		Standard Values		Semperit Values	
	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
R2AT1/4-2SN06	6.2	7	6.4	6.8	12.1	13.3	12.1	12.7	Not Specified	15.7	13.8	14.8	0.8	1.5	0.8	1.3
R2AT3/8-2SN10	9.3	10.1	9.6	10.1	16.1	17.3	16.1	16.8		19.7	17.8	18.8	0.8	1.5	0.8	1.3
R2AT1/2-2SN12	12.3	13.5	12.7	13.3	19.0	20.6	19.0	19.8		23.0	20.8	21.8	0.8	1.5	0.8	1.3
R2AT5/8-2SN16	15.5	16.7	16	16.7	22.2	23.8	22.2	23.0		26.2	24.0	25.0	0.8	1.5	0.8	1.3
R2AT3/4-2SN20	18.6	19.8	19.1	19.8	26.2	27.8	26.2	27.1		30.1	27.9	29.1	0.8	1.5	0.8	1.3
R2AT1-2SN25	25	26.4	25.5	26.4	34.1	35.7	34.1	35.0		38.9	36.4	37.8	1.0	2.0	1.0	1.6

"Why compete against your supplier when you can be our partner"

All stocked Semperit hydraulic hoses conform to DIN EN 853 1 SN / SAE 100 R 1S standards. They consist of covers with improved wear/abrasion and ozone resistance, high tensile steel wire and synthetic rubber tube for resistance against hydraulic fluids. With a temperature range of -40C to 100C (max. 120C intermittent), all hoses qualify for double impulse cycles to the relevant standards (1 wire 300 000 cycles, 2 wire 400 000 cycles) with good flexibility.

R1AT-1SN

Nominal Size		Inside Diameter	Braid Diameter	Outside Diameter	Working Pressure		Test Pressure	Burst Pressure	Bend Radius	Weight
mm	Inch	mm	mm	mm	bar	psi	bar	bar	mm	kg / m
6	1/4	6.6	10.9	13	225	3265	450	900	100	0.19
10	3/8	9.9	14.8	16.8	180	2610	360	720	125	0.28
12	1/2	13	17.9	20	160	2320	320	640	180	0.36
16	5/8	16.4	21	23.2	130	1885	260	520	200	0.44
20	3/4	19.5	25	27.1	105	1525	210	420	240	0.56
25	1	26	32.9	35.1	88	1275	176	352	300	0.83

R2AT-2SN

Nominal Size		Inside Diameter	Braid Diameter	Outside Diameter	Working Pressure		Test Pressure	Burst Pressure	Bend Radius	Weight
mm	Inch	mm	mm	mm	bar	psi	bar	bar	mm	kg / m
6	1/4	6.6	12.4	14.4	400	5800	800	1600	100	0.31
10	3/8	9.9	16.4	18.4	330	4785	660	1320	125	0.44
12	1/2	13	19.4	21.4	275	4000	550	1100	180	0.53
16	5/8	16.4	22.6	24.6	250	3625	500	1000	200	0.66
20	3/4	19.5	19.5	26.6	215	3120	430	860	240	0.84
25	1	26	34.5	37.1	165	2395	325	660	300	1.23