HYDRAULIC HOSES AND WORKING MEDIUM

Our hydraulic hoses are generally suitable for mineral and synthetic oil based hydraulic fluids (HL, HLP, HLPD, HVLP), for oil water emulsions (HFAE, HFAS, HFB), and for water glycol solutions (HFC), as well as for vegetable and mineral oil-based lubricants . In individual cases, there may be restrictions to the use due to manufacturer specific oil additives .

Our hydraulic hoses are not designated for sale to the general public and do not fulfill the conditions for "GS-certification" (voluntary certification related to tested safety). If you or your customers should intend to sell our hydraulic hoses to the general public / or in case you require hydraulic hoses suited for GS-certification please contact a Semperit specialist.

Our hydraulic hoses are not suitable for hydraulic fluids based on chlorinated hydrocarbons or phosphate esters (HFD R/ S/T).

Our hydraulic hoses are suitable for compressed air up to a maximum of 50 bar/ 80° C, with a restricted service life time.

In principle, they are suitable for biodegradable hydraulic fluids (bio oils, HETG, HEPG, HEES), but this may be restricted by manufacturer specific oil additives.

Caution: The hose's inner surface (inner liner) must be appropriate for the medium used in the application (oil, water, air), as otherwise the hose can be damaged or destroyed by the working medium or its contents and eventually fail, which can result in (partial or serious) material damage and personal injury.

For safety reasons, in case of individual questions or uncertainties about the choice, use or proper handling, please contact a Semperit specialist.

	DN		DIN EN 853 1 SN / SAE 100 R1 AT	DIN EN 8571 SC	SAE 100 R 17	DIN EN 8532 SN / SAE 100 R2AT	DIN EN 857 2 SC	SAE 100 R 16-S	SEMPERPAC 1 SN-K	SEMPERRAIL 1 SN-K	SEMPERPAC 2 SN-K	SEMPERRAIL 2 SN-K	SEMPERSHIELD SSC	DIN EN 853 1 SN EHT	1SN SEMPERCOLD	2SN SEMPERCOLD	1SC SEMPERCOLD	2SC SEMPERCOLD	1SC SEMPERFORK	SEMPERPILOT	AGROFLEX	JACKHOSE COMPACT	SUPERPAC SPC 2	
Working pressure [wp] in bar																								
mm	inch	dash	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	
6	1/4	-4	225	225	210	400	400	400	290	290	450	450	400	225	225	400	225	400		125	210	700		
8	5/16	-5	215	215	210	350	350	350	250	250	420	420	375	215	215	350	215	350		125	210			
10 12	3/8 1/2	6 -8	180 160	180 160	210 210	330 275	330 275	330 275	230 200	230 200	385 350	385 350	350 300	180 160	180 160	330 275	180 160	330 275	225	125 125	210 210	700	380	
16	5/8	-10	130	130	210	275	250	250	150	150	290	290	275	130	130	250	130	250		125	210		350	
19	3/4	-12	105	105	210	215	215	215	125	125	280	280	235	105	105	215	105	215					000	
25	1	16	88	88	210	165	165	165	110	110	200	200	185	88	88	165	88	165					230	
31	1 1/4	-20	63			125			100	_	175			63	63	125								
38	1 1/2	-24	50	52		90	100							50										
51	2	-32	40			80	90							40										
Bei	nd ra	dius	[br] i	n mn	n																			
mm	inch	dash	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	
6	1/4	-4	100	75	50	100	75	50	40	40	45	45	75	100	100	100	75	75		30	45	75		
8	5/16	-5	115	85	55	115	85	55	55	55	60	60	85	115	115	115	85	85		40	50			
10	3/8	6	125	90	65	125	90	65	65	65	70	70	90	125	125	125	90	90	90	50	60	90	120	
12 16	1/2 5/8	-8 -10	180 200	130 150	90 100	180 200	130 170	90 100	80 105	80 105	90 130	90 130	130 170	180 200	180 200	180 200	130 150	130 170		60	85		130 180	
10	3/4	-10	200	180	120	200	200	120	120	105	160	160	200	240	200	240	180	200					100	
25	1	16	300	230	150	300	250	150	160	160	210	210	250	300	300	300	230	250					240	
31	1 1/4	-20	420			420			300		300			420	420	420								
38	1 1/2	-24	500	300		500	300							500										
51	2	-32	630			630	430							630										

SEMPERIT (§

	DN		DIN EN 856 4 SP	DIN EN 856 4 SH	DIN EN 856 / SAE 100 R 12	DIN EN 856 / SAE 100 R 13	SAE 100 R 15	SEMPERRAIL 4SP	FLEXLINE 4000	FLEXLINE 5000	FLEXLINE 6000	FLEXLINE PLUS	SEMPERMAX							
Working pressure [wp] in bar																				
mm	inch	dash	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]							
6 8	1/4 5/16	-4 -5																		
0 10	3/8	-5 6	445		280		420	445	280	380	420	470			-					
12	1/2	-8	425		280		420	425	280	380	420	470								
16	5/8	-10	350	420	280		420	350	280	380	420	470								
19	3/4	-12	350	420	280	350	420	350	280	380	420	450	560							
25 31	1 1 1/4	16 -20	320 210	380 350	280 210	350 350	420 420	320	280	350 350	420 420	440 370	560 525							
38	1 1/2	-20	185	290	175	350	420			350	420	320	525							
51	2	-32	165	250	175	350	420			350	420	280								
Ber	nd ra	dius	[br] i	n mn	n											,				
mm	inch	dash	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]							
6	1/4	-4																		
8	5/16	-5																		
10	3/8	6	180		125		150	180	65	65	65	60								
12	1/2	-8	230		180		200	230	90	90	90	85								
16 19	5/8 3/4	-10 -12	250 300	200 280	200 240	240	235 265	250 300	100 120	100 120	100 120	100 120	270							
25	1	16	340	340	300	300	330	340	155	150	150	150	300							
31	1 1/4	-20	460	460	420	420	445			210	400	210	420							
38	1 1/2	-24	560	560	500	500	530			250	460	250								
51	2	-32	660	700	630	630	600			540	540	390								