

Some RYCO Hose Series are not listed on this page: **AJ2D, TJ2D, RQG1, M2G, M1, FB1, RTH1, TW1, PW2, MP1.**

These hoses are specific purpose hoses, and their temperature limits are specified in the HOSE section of this Product Technical Manual. Refer to RYCO Technical Department for any further queries.

Other RYCO Hose Series are listed below. The Maximum Working Temperatures for these hoses as listed in the HOSE section of this Product Technical Manual; are for use with general purpose, mineral (petroleum) oil based hydraulic fluids, except where otherwise stated.

Temperature limits for other hydraulic fluids, and some other common applications, are listed below.

CAUTION:

Life expectancy of hoses is shortened at high temperatures. Detrimental effects increase when temperature is elevated, and when operating pressure, flow velocity, duration and frequency of exposure, and level of impurities in the media are high. Actual service life at temperatures approaching the recommended limits will depend on the particular application and the fluid being used.

Maximum Working Temperatures refer to the temperature of the media in the hose; not the environmental temperature of around the outside of the hose. Please refer to RYCO Technical Department for environmental temperatures in excess of 80°C (176°F), except **RQP1** and **RQP2** Series where environmental temperature is the same as media temperature.

Maximum Working Temperatures shown are for continuous temperatures. Slightly higher intermittent temperatures (up to 10% of time) may be acceptable with some hoses and some fluids if reduced service life is acceptable, please refer to RYCO Technical Department for more information.

DO NOT expose hose to maximum temperature and maximum rated working pressure at the same time.

The fluid manufacturer's recommended maximum operating temperature for the fluid must not be exceeded. If different to the below listed temperatures, the lower limit must take precedence. We recommend keeping the hose filled with the pressure medium at all times.

Further information available on request.

	GROUP 1	GROUP 2	GROUP 3	GROUP 4
AVENGER	T1A, T2A	H12A, H13A, HSHA, HSPA		
DIEHARD	T1D, T2D, TXA2D AS1D, AS2D	H12D, H13D, H15D		
SLIDER	T2S	H12S, H13S		
SURVIVOR			RQP1, RQP2, RQP5	
OTHER SERIES	DF2A ,SR, M2, T5 P1HT			RT7, RT7N, RT7T, RT7TN PL1
MEDIA	TEMPERATURE LIMITS			
GENERAL PURPOSE MINERAL (PETROLEUM) BASED HYDRAULIC OIL*	-40°C to +100°C (-40°F to +212°F) P1HT: -40° to +125°C (-40°F to +257°F)	-40°C to +121°C (-40°F to +250°F)	-40°C to +150°C (-40°F to +302°F)	-40°C to +95°C (-40°F to +203°F)
WATER	+71°C (+160°F)	+71°C (+160°F)	+121°C (+250°F)	+70°C (+158°F)
WATER IN MINERAL OIL (40% to 80% water)	+85°C (+185°F)	+85°C (+185°F)	+121°C (+250°F)	"-40°C to +95°C (-40°F to +203°F)
MINERAL OIL IN WATER (more than 80% water)	+85°C (+185°F)	+85°C (+185°F)	+121°C (+250°F)	+70°C (+158°F)
WATER / GLYCOL	+85°C (+185°F)	+85°C (+185°F)	+121°C (+250°F)	+70°C (+158°F)
GLYCOL	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	+70°C (+158°F)
PHOSPHATE ESTERS**	Not suitable	Not suitable	-40°C to +82°C** (-40°F to +180°F)**	Not suitable
AIR***	P1HT: -40° to +100°C (-40°F to +212°F) ***OTHERS: +71°C (+160°F)	+71°C (+160°F)***	+121°C (+250°F)***	+71°C (+160°F)***
PETROL (GASOLINE)	Refer to RYCO	Refer to RYCO	Refer to RYCO	Refer to RYCO
DIESEL FUEL	T5: +71°C (+160°F) P1HT: -40°C to +71°C (-40°F to +160°F) OTHERS: +50°C (+122°F)	+50°C (+122°F)	+93°C (+200°F)	T5: +71°C (+160°F) PL1: -40° to +49°C (-40°F to +120°F)
ENGINE LUBRICATING OIL, GEARBOX OIL	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	-40°C to +95°C (-40°F to +203°F)
AUTOMATIC TRANSMISSION FLUID	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	-40°C to +95°C (-40°F to +203°F)

* For highly refined and special purpose mineral based hydraulic oils, (for example aviation hydraulic oils, MIL spec oils, etc), refer to RYCO Technical Department.

** Not suitable for use with aerospace type phosphate esters such as Monsanto Skydrol 500B, Stauffer Aero-Safe 2300W and Chevron Hy-jet IV.

*** For use with Air at pressures above 17,2 Bar (250 PSI), cover of hose must be perforated / pin-pricked (except RQP5 and T5), to allow air permeating through hose to escape without blistering the cover. Maximum working pressure of wire braid and spiral reinforced hose must be reduced by 30%. Observe all State and Federal Safety Regulations.