

Maximum Temperature Limits for Water, Water/Oil Emulsions and Water/Glycol Solutions

Actual service life at temperatures approaching the recommended limit will depend on the particular application and the fluid being used in the hose. Intermittent (up to 10 percent of operating time) refers to momentary temperature surges. Detrimental effects increase with increased exposure to elevated temperatures.

Caution:

Water, water/oil emulsions and water/glycol solutions must be kept below the temperatures listed in the table below, relative to line pressures.

Note:

Low pressure applications: i.e., in return lines, require lower maximum temperature as shown.

Caution:

The fluid manufacturer's recommended maximum operating temperature for any given fluid must not be exceeded. If different to the below listed temperatures, the lower limit must take precedence.

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

HOSE	PRESSURE LINES	RETURN LINES
T1, T2, H12R, H13R, TXA2, DF2, AS1, AS2, PL1, P1HT, SR, HSP, M2	+93°C (+200°F)	+82°C (+180°F)

WORKING PRESSURES - Adaptors, Hose Couplings and Hose Assemblies.

Since many factors influence the pressure at which a hydraulic system will or will not perform satisfactorily, maximum static working pressures listed below should be used as a guide only and not as a "standard" nor "specification" nor construed as a "guaranteed minimum." Within the fluid power industry, many criteria are used for the determination of pressure capability. Various fibre stresses, minimum yields and design factors are applied, commensurate with total system conditions. Thus, it is impractical to lay down specific allowable working pressures that satisfy all design criteria. Unless otherwise specified in this document and given correct working conditions, including, but not limited to, torque setting, assembly, alignment, support, pressures (internal and external), temperature limits, environmental, installation, vibration free, damage free, chemical, cleanliness and regular maintenance and inspection the following may be used as a maximum static working pressure guide only. For further technical assistance contact RYCO or your RYCO hydraulics distributor.

The Maximum Working Pressure of a Hose Assembly or Adaptor is the lesser rated Working Pressure of the Hose or End Style.

1 BAR = 14,5 PSI 1 MPA = 10 BAR

Thread/End Style	Dash Size/Tube Size (Maximum Static Working Pressure Guide in Bar)								
	-02/04	-06	-08	-10	-12	-16	-20	-24	-32
BSPP (ret.ring).BSPT	400	330	275	250	215	175	160	150	150
BSPP(30°),SAE(45°)	415	350	350	350	350	290	210	185	175
JIC,KOMATSU,UNO	415	350	350	350	350	290	210	185	175
JIS,SAE,FLARELESS	415	385	385	290	290	240	240	210	210
METRIC DKOL, DKL	250	250	250	250	160	160	100	100	
METRIC DKOS,DKS		400	400	400	400	400	250	250	
MINELOK						420	420	420	420
NPSM,NPTF	400	330	275	250	215	175	160	150	150
O-RING LIVE SWIVEL	215	215	215	190	160				
ORFS	415	415	415	415	415	415	275	275	
SAE CODE 61			350	350	350	350	290	210	210
SAE CODE 62			415	415	415	415	415	415	415
SAE INV.FLARE	190	155	140						
RYCOLOK	400	330	275	250	215	175	160	150	150
RYCO SUPERLOK							350	350	350