

# Corroflon Specifications.

## Temperatures, Pressures & Flow Rates

### Maximum Working Pressure (MWP) Variation with Temperature:

Hose with SS Braid as per Graph.

Hose with PB Braid, pressure as listed (Page 7) from -30°C to +80°C and 50% less from 80°C to 100°C.

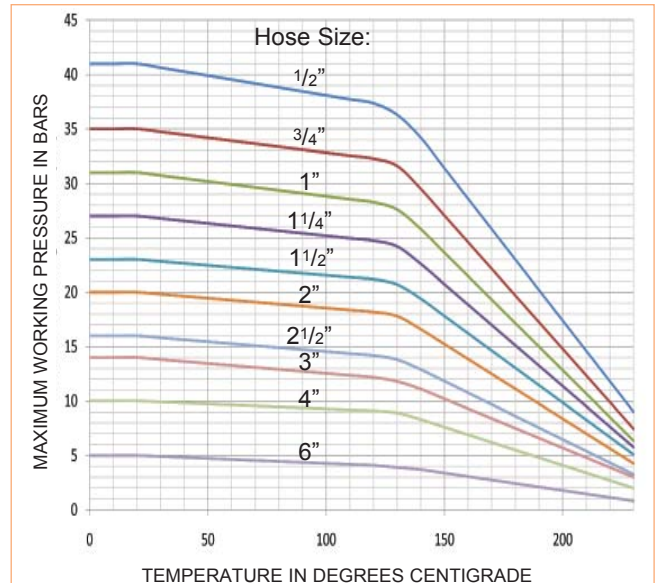
Hose with RC, FP and SI grades as per Graph, BUT only within the temperature range for the particular grade of rubber cover, as given below.

### Maximum Operating Temperatures (Internal Fluid Only) for different hose grades:

SS	-73°C to +260°C
PB	-30°C to +100°C
SS,RC & SS, FP	-40°C to +140°C
SS, SI	-73°C to +224°C
KYB	-40°C to +120°C

(Subtract 20°C from the above maximum temperature limits if the temperature is external to the hose).

Temperature & MWP Graph for Corroflon GP, SS and AS, SS



### Temperature vs Vacuum

All sizes of Corroflon GP,SS and AS, SS are usable at full vacuum up to 130°C up to 2". Above this, the vacuum resistance should be reduced 1% for every degree above 130°C.

Other grades the same, BUT ONLY within the temperature limits for the particular hose grade.

### Flow Rates

- For maximum flow rates, it is better to use the smoothbore Bioflex hose if possible, because the convoluted bore of Corroflon creates turbulent flow, which reduces flow rates.

#### Corroflon Hose - Flow Rate Calculation

If it is required to determine the flow rate of a particular hose assembly, or if it is required to determine the pressure required to generate a certain flow rate, then this can sometimes be approximately calculated by the Corroflon supplier.

It should be noted that calculations can only be made for fluids with a viscosity equal to water, and for hose assemblies with PTFE lined end fittings (no bore restrictions at the ends of the hose).

The following information should be given to the supplier:

To calculate the Flow Rate in Cubic Metres per Hour:

- Pressure in Bars at the Entry into the Hose Assembly
- Pressure in Bars at the Exit from the Hose Assembly } (Subtracted to calculate Pressure Drop over the Hose Length)
- The hose configuration (roughly straight, or 33% Bends, or 66% Bends, or 100% Tightly Coiled)

OR To Calculate the Pressure Drop in bars over the length of the Hose Assembly:

- Required Flow Rate in Cubic Metres per Hour
- The hose configuration (roughly straight, or 33% Bends, or 66% Bends, or 100% Tightly Coiled)

### Whistling

A 'whistling' noise may be created by turbulent flow when steam or other gasses are passed through a Corroflon hose at high flow rates. In such applications, Bioflex hose represents an alternative option which eliminates this problem.