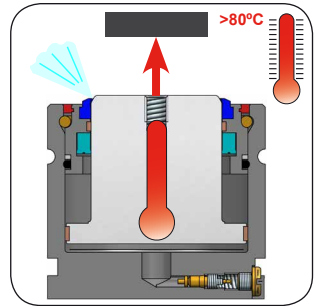
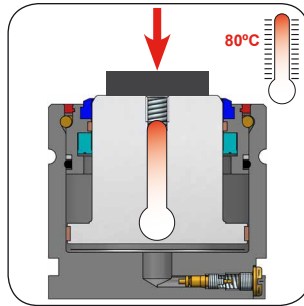
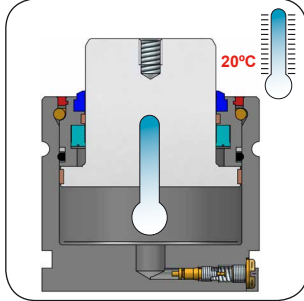
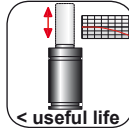
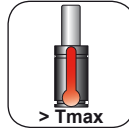


4 - TEMPERATURE



CHALLENGE



According to the operating instructions, the maximum temperature (**Tmax**) that can operate gas springs is **80 ° C**.

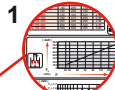
The temperature increase above the maximum allowable (Tmax) causes deterioration of the sealing elements and **reduces the life** of the gas springs.

FACTORS

www.azolgas.es

AG 750

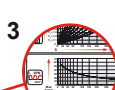
ORDER	S	L	L	ISO
AG 750-100	100	200	200	100
AG 750-125	125	250	250	125
AG 750-150	150	300	300	150
AG 750-200	200	400	400	200
AG 750-250	250	500	500	250
AG 750-300	300	600	600	300
AG 750-350	350	700	700	350
AG 750-400	400	800	800	400
AG 750-450	450	900	900	450
AG 750-500	500	1000	1000	500
AG 750-600	600	1200	1200	600
AG 750-700	700	1400	1400	700
AG 750-800	800	1600	1600	800
AG 750-900	900	1800	1800	900



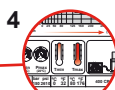
1. Initial pressure: the higher initial charging pressure, the higher temperature into the gas spring during operation.



2. Gas volume: the higher is volume inside the gas spring, the lower is the compression rate and temperature.



3. Frequency and stroke used: the major stroke used, higher friction and greater temperature increase in the gas spring, so that the maximum rate in cycles per minute SPM is smaller.



4. Working temperature: minimum and maximum limits.

It should be taken into account that the gas springs are heated during operation (due to friction) and the gas pressure increases with increasing temperature (about 0.33% for every 1 ° C).

The main factors affecting the temperature increase in gas springs are:

- P₀ Initial pressure (bar)
- S Working stroke (mm)
- SPM Frequency (cycles per minute)