

## 3.24 Programmable settings for GA 15 VSD up to GA 90 VSD

### Compressor/motor

		Minimum setting	Factory setting	Maximum setting
Set-point 1/2				
GA 15 VSD up to GA 90 VSD	bar(e)	4	7	13
GA 15 VSD up to GA 90 VSD	psig	58	100	188
GA 15 VSD up to GA 90 VSD Full-Feature	bar(e)	4	7	12.8
GA 15 VSD up to GA 90 VSD Full-Feature	psig	58	100	186
Indirect stop level	bar	0.1	0.3	1
Indirect stop level	psi	1.45	4.35	14.5
Direct stop level	bar	0.3	1	1.5
Direct stop level	psi	4.35	14.5	21.8
Proportional band	%	6	10	15
Integration time	sec	5	6	10
Minimum motor speed:				
GA 15 VSD up to GA 30 VSD	rpm	1870	1870	2500
Maximum RPM reduction	%	75	100	100

### Parameters

		Minimum setting	Factory setting	Maximum setting
Minimum stop time:				
GA 15 VSD up to GA 55 VSD	sec	5	5	30
Power recovery time	sec	10	10	3600
Restart delay	sec	0	0	1200
Communication time-out	sec	10	30	60
On air cooled compressors also:				
Fan motor starts per day		1	240	240

## Protections

		<b>Minimum setting</b>	<b>Factory setting</b>	<b>Maximum setting</b>
Compressor element outlet temperature (shut-down warning level)	°C	50	110	119
Compressor element outlet temperature (shut-down warning level)	°F	122	230	246
Compressor element outlet temperature (shut-down level)	°C	111	120	120
Compressor element outlet temperature (shut-down level)	°F	232	248	248

<b>For Full-Feature compressors also:</b>		<b>Minimum setting</b>	<b>Factory setting</b>	<b>Maximum setting</b>
Dewpoint warning temperature	°C		25	99
Dewpoint warning temperature	°F		77	210
Delay at signal	sec	0	3	255
Delay at starting	sec	0	255	255

## Service plan

Also see section Preventive maintenance shedule.

Consult Atlas Copco in case any timer setting should be changed. The intervals must not exceed the nominal intervals and must coincide logically. See section Modifying service plans.

		<b>Minimum setting</b>	<b>Factory setting</b>	<b>Maximum setting</b>
Service plan A (running hours)				
On compressors filled with Food Grade Fluid (running hours)	hr		2000	
On compressors filled with Roto-Inject Fluid (running hours)	hr		4000	
On compressors filled with HD Roto-FluidPlus	hr		8000	
Service plan B (running hours)	hr		4000	
Service plan C (running hours)	hr		8000	
Service plan D (running hours)	hr		24000	

## Terminology

Term	Explanation
ARAVF	Automatic restart after voltage failure. See section Elektronikon regulator II.
Compressor element outlet	The regulator does not accept illogical settings, e.g. if the warning level is programmed at 95 °C (203 °F), the minimum limit for the shut-down level changes to 96 °C (204 °F). The recommended difference between the warning level and shut-down level is 10 °C (18 °F). The recommended minimum setting is 70 °C (158 °F). For testing the temperature sensor the setting can be decreased to 50 °C (122 °F). Reset the value after testing.
Delay at signal	Is the time period during which the warning signal must exist before the warning message appears.
Delay at start	Is the time period after starting which must expire before generating a warning. The setting should be less than the setting for the delay at signal.
Minimum stop time	Once the compressor has automatically stopped, it will remain stopped for the minimum stop time (approx. 20 seconds), whatever happens with the net air pressure. Consult Atlas Copco if a setting lower than 20 seconds should be required
Power recovery time	Is the period within which the voltage must be restored to have an automatic restart. Is accessible if the automatic restart is activated. See section Elektronikon II regulator. To activate the automatic restart function, consult Atlas Copco.
Proportional band and integration time	The settings for the Proportional band and integration time are determined by experiment. Altering these settings may damage the compressor. Consult Atlas Copco.