



NFPA-99 2005 Level 1 Master Alarm Points

This document is only to be used as a general alarm point guide. Refer to NFPA-99 2005 for detailed alarm point requirements

Manifold for Gas Cylinders Without Reserve - 5.1.3.4.10

(nitrogen, carbon dioxide, medical air, oxygen, & nitrous oxide)

- main line pressure high 5.1.9.2.4(7)
- main line pressure low 5.1.9.2.4(7)
- changeover to secondary supply 5.1.3.4.10.6 & 5.1.9.2.4(1)

Manifold for Cryogenic Liquid Cylinders with Reserve - 5.1.3.4.12

(oxygen, nitrogen & nitrous oxide)

- main line pressure high 5.1.9.2.4(7)
- main line pressure low 5.1.9.2.4(7)
- changeover to secondary supply 5.1.3.4.12.9(1) & 5.1.9.2.4(1)
- reserve in use 5.1.3.4.12.9(3), 5.1.3.4.15.5, 5.1.9.2.4(3)
- reserve supply less than one day (low contents) 5.1.3.4.12.9(4) & 5.1.9.2.4(5)

Cryogenic Bulk with Cryogenic Reserve - 5.1.3.4.13

(oxygen, nitrogen & nitrous oxide)

- main line pressure high 5.1.9.2.4(7)
- main line pressure low 5.1.9.2.4(7)
- changeover to secondary supply 5.1.3.4.13.6(5) & 5.1.9.2.4(1)
- main supply less than one day (low contents) 5.1.3.4.13.6(1) & 5.1.9.2.4(2)
- reserve in use 5.1.3.4.13.6(2) & 5.1.9.2.4(3)
- reserve supply less than one day (low contents) 5.1.3.4.13.6(3) & 5.1.9.2.4(5)
- reserve pressure low (not functional) 5.1.3.4.11.6(4)* & 5.1.9.2.4(6)

* we believe the NFPA committee made an inadvertent error (table A.5.1.9.2) and the correct section should be:
5.1.3.4.13.9(4)

Cryogenic Bulk with Cylinder Reserve - 5.1.3.4.13

(oxygen, nitrogen & nitrous oxide)

- main line pressure high 5.1.9.2.4(7)
- main line pressure low 5.1.9.2.4(7)
- changeover to secondary supply 5.1.3.4.13.6(5) & 5.1.9.2.4(1)
- main supply less than one day (low contents) 5.1.3.4.13.6(1) & 5.1.9.2.4(2)
- reserve in use 5.1.3.4.13.6(2), 5.1.3.4.15.5, 5.1.9.2.4(3)
- reserve supply less than one day (low contents) 5.1.3.4.13.6(1) & 5.1.9.2.4(2)

Medical Air Compressors - 5.1.3.5

- main line pressure high 5.1.9.2.4(7)
- main line pressure low 5.1.9.2.4(7)
- dew point high 5.1.3.5.15(1) & 5.1.9.2.4(10)
- local alarm (see local alarm table) 5.1.3.5.14
5.1.9.2.4(9), 5.1.9.5.2

Instrument Air Compressors - 5.1.3.8

- main line pressure high 5.1.9.2.4(7)
- main line pressure low 5.1.9.2.4(7)
- dew point high 5.1.3.8.10.1 & 5.1.9.2.4(12)
- cylinder reserve in use (if provided) 5.1.3.8.10.2(1)
- cylinder reserve less than one hour supply 5.1.3.8.10.2(2)
- local alarm (see local alarm table) 5.1.3.8.10
5.1.9.2.4(9), 5.1.9.5.2



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Medical / Surgical Vacuum Pumps - 5.1.3.6

- main line vacuum low 5.1.9.2.4(8)
- local alarm (see local alarm table) 5.1.3.6.8
5.1.9.2.4(9), 5.1.9.5.2

WAGD Producers - 5.1.3.7

- main line vacuum low 5.1.9.2.4(8)*
 - local alarm (see local alarm table) 5.1.3.7.4
5.1.9.2.4(9), 5.1.9.5.2
- * we believe the NFPA committee made an inadvertent error and the correct section should be: 5.1.9.2.4(11)
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NFPA-99 2005 Level 1 Area Alarm Points

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- high line pressure (for each gas piped to the area) 5.1.9.3
5.1.9.3.1, 5.1.9.3.2, 5.1.9.3.4
 - low line pressure (for each gas piped to the area) 5.1.9.3
5.1.9.3.1, 5.1.9.3.2, 5.1.9.3.4
 - low medical / surgical vacuum (if piped to the area) 5.1.9.3
5.1.9.3.1, 5.1.9.3.3, 5.1.9.3.4
 - low WAGD vacuum (if piped to the area) 5.1.9.3
5.1.9.3.1, 5.1.9.3.3, 5.1.9.3.4
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NFPA-99 2005 Level 1 Local Alarm Points

Oil-Less (sealed bearing) Medical Air Compressor - 5.1.3.5.4.1(1)

- backup (lag) compressor in operation 5.1.3.5.14.5 & 5.1.9.5.4(1)
- carbon monoxide high 5.1.3.5.15(2) & 5.1.9.5(2)
- high discharge air temperature (per compressor) 5.1.3.5.14.3 & 5.1.9.5.4(9)
- high water in receiver 5.1.3.5.14.1 & 5.1.9.5.4(7)
- medical air dew point high 5.1.3.5.15(1) & 5.1.9.5.4(3)

Oil-Free (separated) Medical Air Compressor - 5.1.3.5.4.1(2)

- backup (lag) compressor in operation 5.1.3.5.14.5 & 5.1.9.5.4(1)
- carbon monoxide high 5.1.3.5.15(2) & 5.1.9.5(2)
- high discharge air temperature (per compressor) 5.1.3.5.14.4(1) & 5.1.9.5.4(9)
- high water in receiver 5.1.3.5.14.1 & 5.1.9.5.4(7)
- medical air dew point high 5.1.3.5.15(1) & 5.1.9.5.4(3)

Liquid Ring (water sealed) Medical Air Compressor - 5.1.3.5.4.1(1)

- backup (lag) compressor in operation 5.1.3.5.14.5 & 5.1.9.5.4(1)
- carbon monoxide high 5.1.3.5.15(2) & 5.1.9.5(2)
- high water in receiver 5.1.3.5.14.1 & 5.1.9.5.4(7)
- high water in separator 5.1.3.5.14.2 & 5.1.9.5.4(8)
- medical air dew point high 5.1.3.5.15(1) & 5.1.9.5.4(3)

Instrument Air Compressors - 5.1.3.8

- backup (lag) instrument air comp. in operation 5.1.3.8.10.1(1) & 5.1.9.5.4(1)
- instrument air dew point high 5.1.3.8.10.1(2) & 5.1.9.5.4(6)

Medical / Surgical Vacuum Pumps - 5.1.3.6.2

- backup (lag) med-surg vac. pump in operation 5.1.3.6.8 & 5.1.9.5.4(4)

WAGD Producers - 5.1.3.7.2

- backup (lag) WAGD producer in operation 5.1.3.7.4.1, 5.1.3.7.4.4, & 5.1.9.5.4(5)