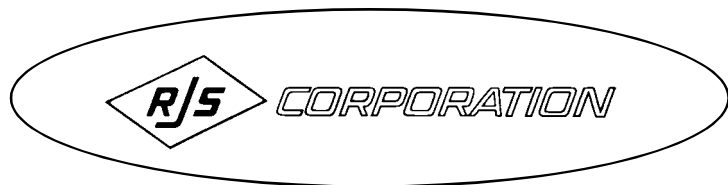


MODEL 363

AIR CONTROL CONSOLE

SERVO CONTROLLED - TYPE

FOR CREEL SERVICE



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BROCHURE
AIR CONTROL CONSOLE, SERVO CONTROLLED
Model 363

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MODEL 363 SERVO-CONTROLLED CONSOLE

General Description

The Model 363 Dual Air Control Console provides conditioning and regulation of the compressed air supplied to an RJS air-pressure-actuated creel, and allows control of the pressure by user's Programmable Logic Controller.

The normal operating pressure of a creel employing a Model 121-HA or Model 305-HA Tension Controller ranges nominally from zero pressure (inoperative creel) to about 10 psi. When a selectable voltage (0-10V D.C. corresponding to pressure) is provided from the user's PLC to the Console, the pressure corresponding to the selected wire tension is delivered to the creel. Alternatively, the Model 363 may be provided to accept a 4-20 ma, or an 8-bit digital signal in lieu of 0-10 volts, if the selection is made at the time of order placement. Graphs, pages 3 and 4, indicate Wire Tension vs. Voltage and Wire Tension vs. Air Pressure.

For independent pressure indication, a 4-20 ma signal is provided for the convenience of the user.

A manual operating mode is provided to allow creel operation in event of a PLC or proportional servo regulator breakdown. The manual system is equipped with lockouts to prevent tampering. The Console is usually installed inside the creel room near the forward end of the creel, but the PLC may be located remotely, for example, near the calender.

Pneumatic Connections

Clean, dry, factory air is user connected to the Console, and from the Console to each main row of creel frames in accordance with drawing D-363-005.

THE PIPING AND/OR HOSE USED TO MAKE ALL PNEUMATIC CONNECTIONS MUST BE CLEAN, DRY, AND FREE OF ALL CONTAMINATION OR LOOSE PARTICLES.

Electrical Connections

Factory electrical power is connected to the Console at the electrical enclosure located inside the Console frame. The enclosure is accessible by removing the back cover from the Console.

Normally, the power requirement is 110/120 V. 50/60 Hz., but other voltages may be supplied if requested by the customer at time of order.

The power to the Console may be turned off and on by a key lock switch at the front panel, and by a second switch located at the side of the electrical enclosure. The

second switch is provided so that a maintenance technician may conveniently disconnect power at the enclosure if he desires.

Terminals for command signal are provided inside the electrical enclosure for connection by the user to his PLC (0-10 V. DC, or 4-20 ma, or 8-bit digital selectable at time of order), and for the independent monitor signal, 4-20 ma.

Operating Principle

The Model 363 employs proportional air pressure regulators to control the pressure. An electrical command signal from the user's PLC determines the air pressure output to the creel.

Calibration

The Model 363 Console is fully calibrated at the factory, so any adjustments which may be required will be minimal, or not required at all, but if required, is fully adjustable by use of potentiometers provided in the components.

Manual Operating Mode

In event of failure of the user's PLC or the internal components of the Model 363, manual mode is provided so that the user may continue to operate the creel.

The manual mode is engaged by simply removing pad locks intended to prevent tampering, pulling out valves to engage the manual condition, and adjusting regulators according to the instruction manual.

Power Requirements

Air Pressure (Source)

100 psi (7 kg./cm²) maximum, 25 psi (1.76 kg./cm²) minimum

Electrical:

110/120 Volts, Single Phase, 50/60 Hz, or as ordered

Input Command Signal:

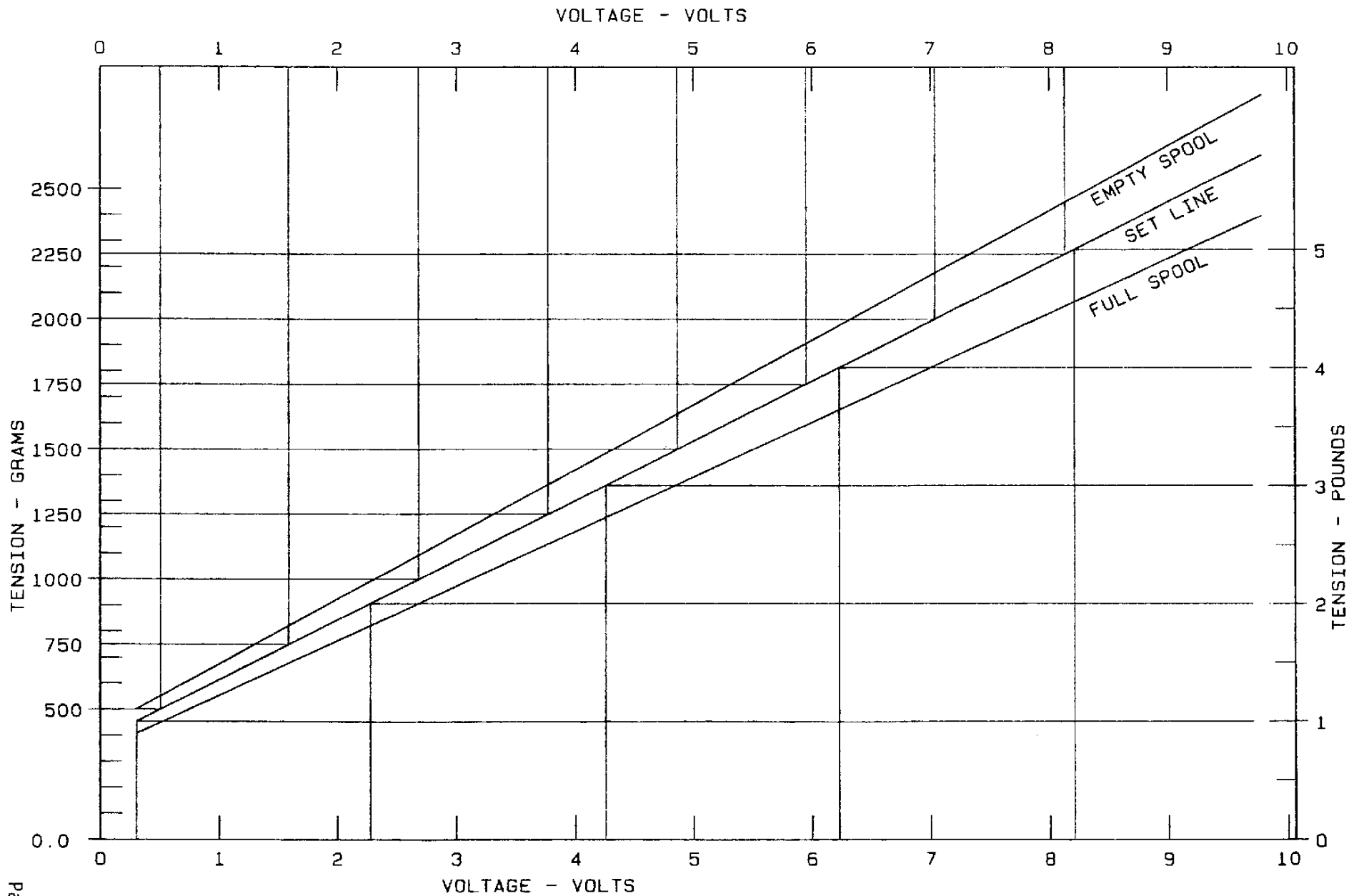
0 to 10 Volts or 4 to 20 mA or digital signal

Machine Size (2-station) Overall Dimensions:

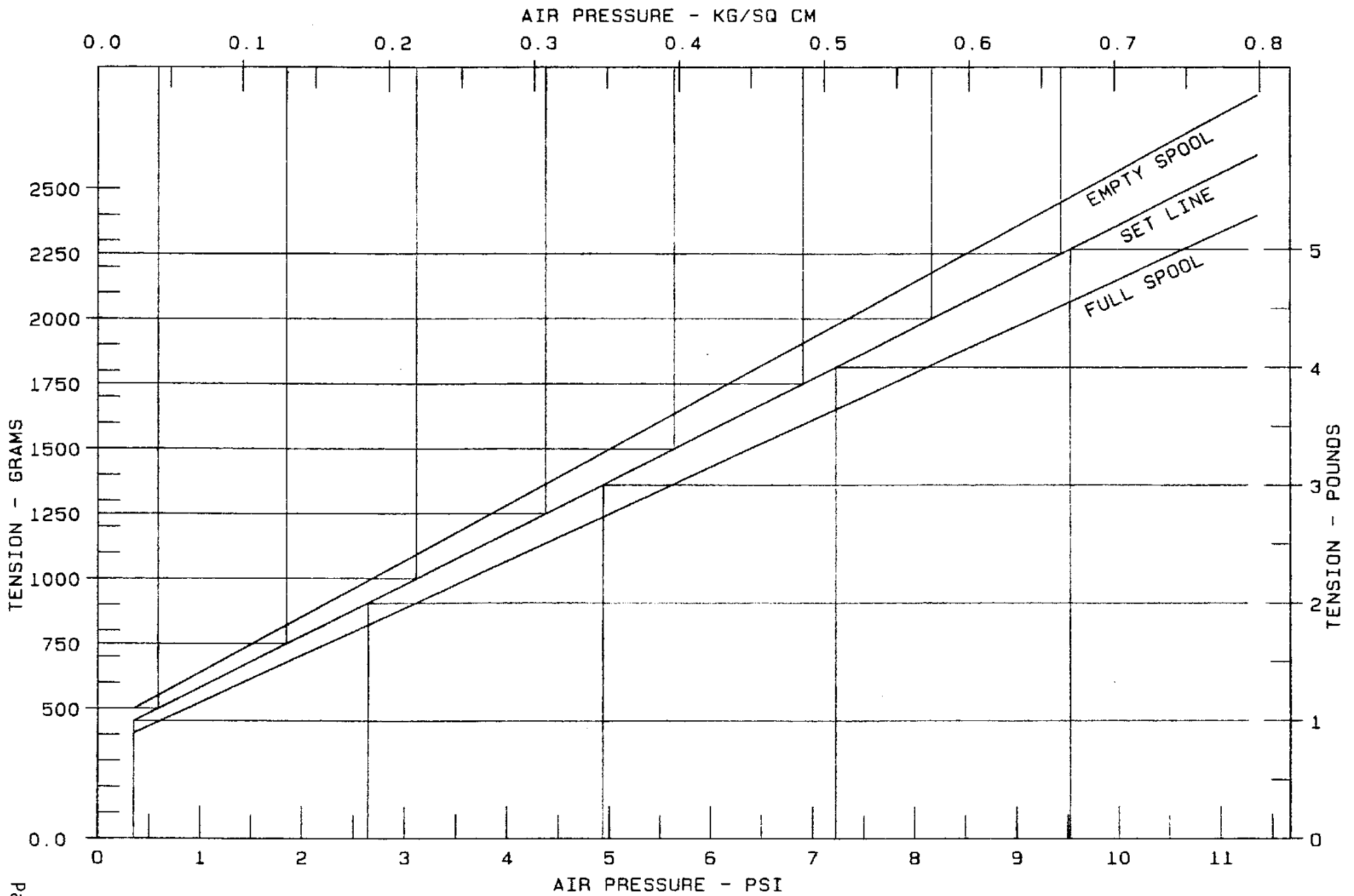
Width: 37 in. (94 cm)
Depth: 29 in. (74 cm)
Height: 76 in. (193 cm)
Weight: 500 lbs. (227 kg.)

Nominal Box Size:

Width: 48 in. (122 cm)
Depth: 40 in. (100 cm)
Height: 80 in. (203 cm)
Nominal Gross Weight: 800 lbs.
(364 kg.)



OPERATING CHARACTERISTICS:
 MODEL 121 HA TENSION CONTROLLER CONFIGURED FOR B-40 SPOOL
 WITH SERVO CONTROLLED AIR CONTROL CONSOLE (PLC OPERATED)



OPERATING CHARACTERISTICS:
 MODEL 121 HA TENSION CONTROLLER CONFIGURED FOR B-40 SPOOL

**AIR PRESSURE CONTROL CONSOLE
MODEL 363 SERVO CONTROLLED, REMOTELY OPERATED**



**MODEL 363
6 STATION**



**MODEL 363
2 STATION**

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