

GDC3001

Grease Dispenser With Confirmation

RELIABLE

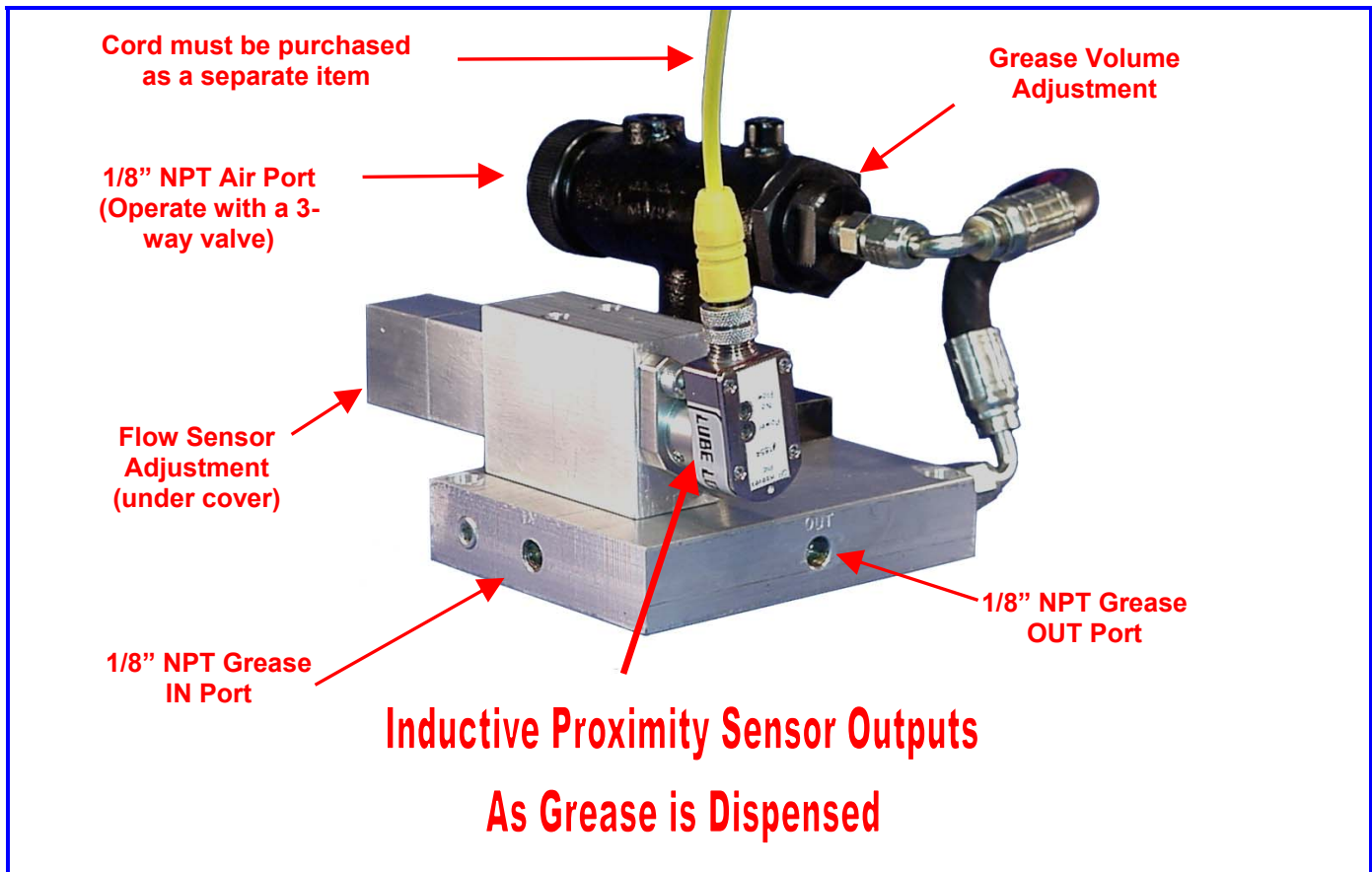
PLC COMPATIBLE

PROVES GREASE FLOW

Air-operated single-acting metered shot dispenser

■	Accurate repetitive dispensing of .2 to 4 cubic centimeters of grease
■	Dispenses up to 15 shots per minute at maximum shot size
■	Dispenses up to 30 shots per minute at minimum shot size
■	Functions with almost any grease
■	AC/DC (PNP, NPN) Flow Sensor confirms grease fill and discharge

■	Output to PLC to confirm operation & grease flow
■	Snuffer action prevents dripping
■	Operates with unregulated grease pressure (3,000 p.s.i. max.)
■	Base mounted components
■	Large 4 cubic centimeter maximum shot size



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RELIABLE AND SIMPLE

The GDC3001 grease dispenser uses an air operated spool valve that directs grease to either side of a floating piston. Shot size can be easily changed by lengthening or shortening the piston stroke.

MANIFOLD / BASE MOUNTABLE

The GDC3001 grease dispenser with confirmation includes a base, dispense valve, and flow sensor. The dispense valve and the flow sensor are easily removed and replaced on the base without disturbing any grease plumbing to and from the base.

CLEAN AND ECONOMICAL

The maximum 3,000 p.s.i. grease working pressure of the GDC3001 dispenser allows it to function without a grease pressure regulator. Its internal snuffer action pulls back a small amount of grease after dispensing.

THREE MAJOR COMPONENTS

Base part number KA2539

Dispense valve asm. part number KA4680

Flow sensor part number FS3001

GDC3001 SPECIFICATIONS

Material Dispensed	Lubricating oil and grease compatible with neoprene seals and with a viscosity between 30 and 1,000,000 centipoise	Adjustment Mechanism	Includes locking nut and has five complete revolutions between maximum and minimum
Shot Volume	.2 to 4 cc (.012 to .24 cubic inch)	Material Inlet Pressure	3,000 p.s.i. maximum 400 p.s.i. minimum
Pressure Drop	Grease output pressure will be 80% of grease inlet pressure.	Sensor supply voltage	20 to 250V AC/DC
Air Valve Size and Function	3-way normally closed, with 1/8 or 1/4 NPT ports	Material Outlet Port	1/8 NPT female on base
Minimum air pressure	40 p.s.i.	Switching	PNP, NPN
Material inlet port	1/8 NPT female on base	Switch Load Capacity	50 – 400 mA
Compressed air inlet port	1/8 NPT female located on the dispense valve	Switch output	ON when flow rate is below the set point
Ambient Temperature	50 to 120° F. (10 to 49° C.)	Dimensions	See drawing KA4491
Manifold or Base	Included	Shipping Weight	7 lb. (.45 Kg.)

OPTIONS AND ACCESSORIES

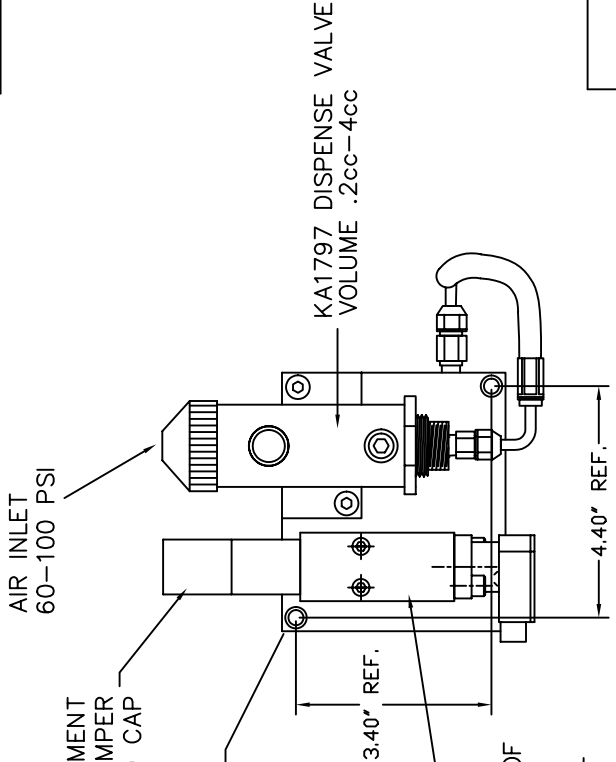
Part Number	Description
1867	5 meter long straight cord with Micro connector

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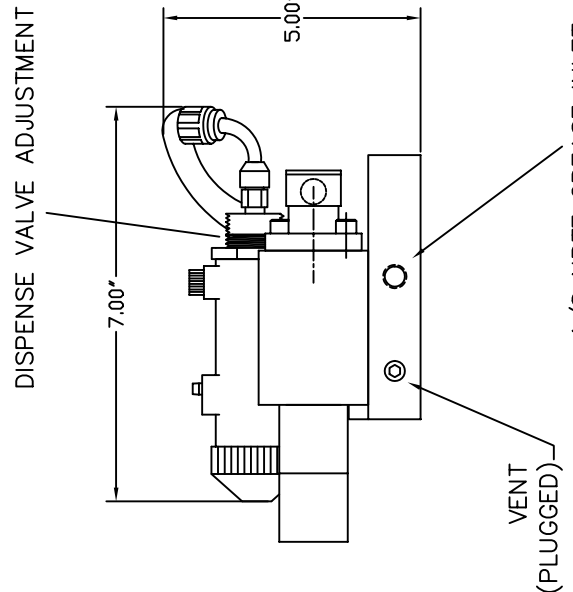
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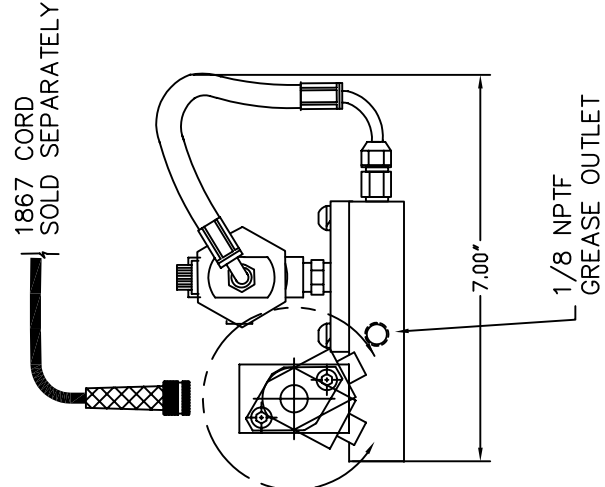
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FS3001 FLOW SENSOR
 NOTE: FLOW IS SENSED FROM THE INLET OF THE DISPENSE VALVE RESULTING IN TWO FLOW SIGNALS, ONE FROM THE INITIAL DISPENSE, AND ANOTHER FROM THE RESET OR REGENERATION OF GREASE INTO THE VALVE.



1/8 NPTF GREASE INLET, GREASE OPERATING PRESSURE, 400 - 3000 PSI



DETAILED DESCRIPTION

Grease dispenser with confirmation. Adjustable regenerative grease dispenser requires 20 to 250V AC/DC, 60 to 120 p.s.i. compressed air, and grease Dispenser will dispense .2 to 4 cc per actuation and has snuff back and an FS3001 (AC/DC adjustable) flow sensor. Actuation requires a 3-way N.C. air valve. The flow sensor will recognize the smaller grease input that causes the larger preset grease output. The small amount of grease that inputs the dispenser during reset and regeneration will also be recognized by the flow sensor. The flow sensor output will be ON when there is no flow and OFF during recognized flow. The dispenser and flow sensor will function with NLGI#1 to #3 grease and can be adjusted to recognize flow of as little as 0.10 cc per second.

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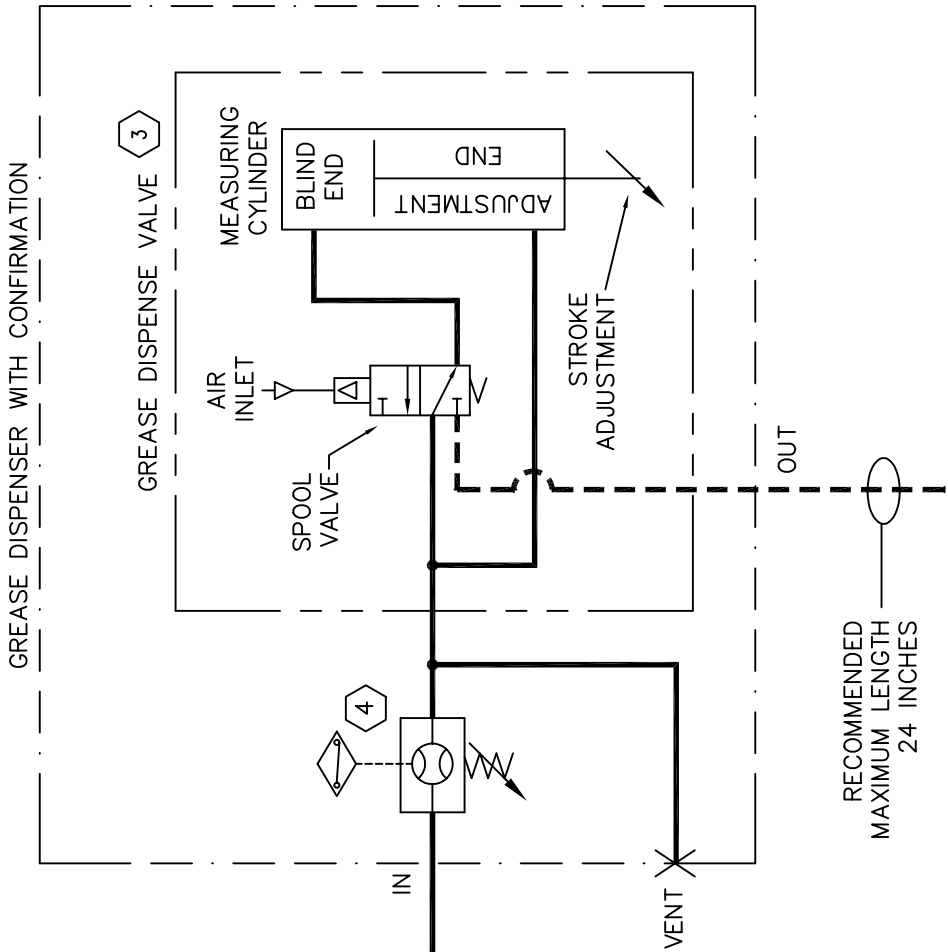
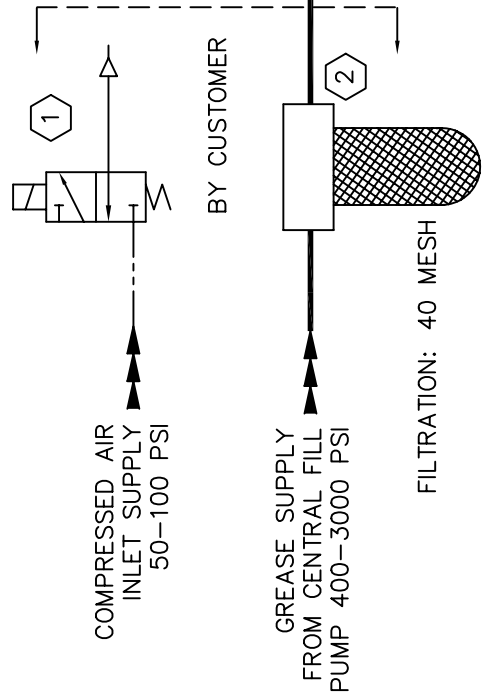
SCALE — TOLERANCES X.XXX = ± 0.005 DRAWN BY JMH
 X.XX = ± 0.015
 X.X = ± 1/32

DATE 06/18/01

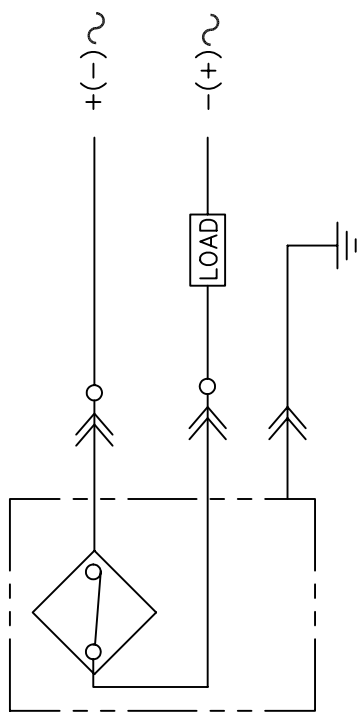
A	Revised & Redrawn	JMH	06/22/01
KEY	REVISION	INIT	DATE

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LINE CODE	
METERED LUBE	- - - - -
LUBRICANT SUPPLY	— — — — —
AIR SUPPLY	— — — — —



WIRING DIAGRAM FOR AC/DC PROXIMITY SENSOR



KEY	DESCRIPTION	REQ
4	FS3001 Flow Sensor	1
3	KA1797 Dispense Valve .2cc-4cc	1
2	By Customer 40 Mesh Filter	1
1	By Customer 3-Way N.C. Valve	1

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