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REPORT

on

COMPONENT - MOTOR CONTROLLERS, FLOAT- AND PRESSURE-OPERATED - COMPONENT

MA-TER SRL
PESSANO CON BORNAGO, MI, ITALY

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D E S C R I P T I O N

PRODUCT COVERED:

USR, CNR - Open Type, Industrial Control Equipment, Component - Float and Pressure Operated Motor Controllers, Pressure Switches,

"GP1 Series":

- Model No. GP1, followed by 0, 1, followed by 0, 1, 2, 5, followed by "No digit", R.

"GP2 Series":

- Model No. GP2, followed by 0, 1, followed by 0, 1, 2, 5, followed by A.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

- USR - Indicates investigated to United States Standard for Industrial Control Equipment, UL508 (Seventeenth Edition).
- CNR - Indicates investigated to Canadian National Standard for Industrial Control Equipment, C22.2 No.14-05

Note: USR = United States Standards - Recognized
CNR = Canadian National Standards - Certified

GENERAL:

The devices covered by this Report are pressure-operated single-pole switches intended for the direct command of single-phase circuit, indicated for use in steam generators and any pressure control systems, at a maximum operating ambient temperature of 85°C. This device has been subjected to 6,000 cycles of operation and it is intended for regulating use only. The pressure connection is made through an in-let 1/4 inch or 1/8 inch male thread (ISO7 or ISO228 or NPT) connector, or through an in-let "Rapid-coupling" connector, provided on the housing-base of the device.

Since these devices are intended for use in steam generators and any pressure control systems, their actuation consists of a slow increase in the applied pressure until the actuating "off" pressure is reached. The "off" pressure is adjustable, in the pressure range, acting on the regulation screw.

The contact will close if the applied pressure slow decrease under the "on" reset pressure value $P_{on} = P_{off} - P_{diff}$.

ILLS. 1, 2

RATINGS:

1. Electrical Ratings -

Pressure Switch Model Nos.	Electrical Ratings (related to Micro-Switch ratings)
"GP1 Series"	(1 Micro-Switch) 15 A 125 / 250 Vac (6,000 cycles)
"GP2 Series"	(2 Micro-Switch) 15 A 125 / 250 Vac (6,000 cycles)

2. Environmental Ratings -

- Operating Ambient Temperature - 85°C max

3. Operating Pressure Ratings -

3a) Operating Pressure Range: 0.05 ÷ 5.0 Bars (0.7 ÷ 72.5 PSI)

3b) Fixed Differential Pressure: 0.6 Bars (8.7 PSI)

3c) Maximum Pressure:

- 6.0 bars (87.0 PSI) "GP 1 Series"
* - **6.0** Bars **(87.0** PSI) "GP 2 Series"

4) Threaded Connector - Hydraulic-Nipple / "Tightening Torque" Ratings:

a) Polymeric Nipple - 0.5 Nm (0.05 Kg m)

b) Metal Nipple / Metal Adapter - 8.8 Nm (0.90 Kg m)

Refer to Ills. 1, 2, for details.

NOMENCLATURE BREAKDOWN:

Model No.:	GP1	0	0	R
	I	II	III	IV

I. Basic Pressure Switch Series, GP1
(Devices with 1 Micro-Switch)

II. Variations for End-use Applications

0 = Basic Pressure Switch model
1 = Pressure Switch model with Micro-switch rotated 180°

III. Switch Housing Base Materials

0 = Housing metal part constructed of Brass
1 = Housing metal part constructed of Stainless Steel
2 = Housing polymeric part constructed of R/C Plastic (QMFZ2)
5 = Brass / Polymeric Housing Base provided with an in-let “Rapid-coupling” connector

IV. Pressure Control Means

No digit = Basic pressure-control means (not adjustable)
R = Adjustable pressure-control means