#### INTRODUCTION

# Flow Switches

- Thermal Dispersion
- Piston
- Shuttle
- Paddle

### Unique Designs . . . For Use in Liquids or Gases

GEMS' line of flow switches features a broad range of configurations for use in liquids or gases. At preset rates, ranging from 50 cc/min. to 100 GPM, GEMS switches will initiate alarm actuation or automatic shut-down of a system.

These switches feature high quality, corrosion-resistant materials for use in the toughest environments. Material choices, ranging from stainless steel to Ryton<sup>®</sup>, offer vast chemical compatibility. Versions include switches with fixed or adjustable actuation settings, models for viscosity compensation or high pressures, in-line models and designs to satisfy any mounting or space requirement.

## Variety of Operating Principles

The versatile GEMS Flow Switch line utilizes four basic operating principles. This catalog is organized into four operational types: Piston, Shuttle, Paddle and Electronic. The Shuttle models are for use with high flow rates; the Piston types are designed for low flow rates; the Paddle for large line sizes and the Electronic switches encompass state-of-theart electronics and positive visual indication.

#### Flow Rate Selection Guide

| Set Point                                |                   | Switch                          | Body                   |
|--|-------------------|---------------------------------|------------------------|
| Water                                    | Air               | Series                          | Materials              |
| 50 cc to 300 cc/min.                     | 2 to 50 SCFH      | FS-926                          | Alloys                 |
| 0.1 to 1.0 GPM (oil)                     | —                 | FS-930                          |                        |
| 0.1 to 1.5 GPM                           | _                 | FS-4                            | Engineered Plastics    |
| 0.1 to 1.5 GPM                           | 0.5 to 25.0 SCFM  | FS-925                          | Alloys                 |
| 0.1 to 1.5 GPM                           | _                 | FS-927                          |                        |
| 0.1 to 11 GPM                            | _                 | FS-600                          |                        |
| 0.1 to 60 GPM                            | _                 | RFS-2500 Rotorflow <sup>1</sup> | Eng. Plastics & Alloys |
| 0.15 to 2.0 GPM                          | —                 | FS-380                          | Alloys                 |
| 0.25 to 2.0 GPM                          | _                 | FS-380P                         | - Engineered Plastics  |
| 0.25 to 5.0 GPM                          | _                 | FS-500                          |                        |
| 0.5 to 3.0 GPM                           | —                 | FS-480                          | Alloys                 |
| 0.5 to 5.0 GPM                           | _                 | FS-150                          | - Engineered Plastics  |
| 0.5 or 2 GPM                             | _                 | FS-400P                         |                        |
| 0.5 to 20.0 GPM                          | 1.0 to 160.0 SCFM | FS-10798                        |                        |
| 0.5 to 100 GPM                           | _                 | FS-200                          |                        |
| 0.75 to 10.0 GPM                         | _                 | FS-400                          | Alloys                 |
| 0.75 to 14.0 GPM                         | _                 | FS-400 Adjustable               |                        |
| 1.0 to 15.0 GPM                          | _                 | FS-200 Adjustable               |                        |
| Dependent on Pipe Size and Paddle Length | _                 | FS-550 Series                   |                        |

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1. See Section E.

Note: