

# Fluid power innovations

A review of the products selected by readers of **HYDRAULICS & PNEUMATICS** as the most interesting to appear in the magazine during the preceding twelve months

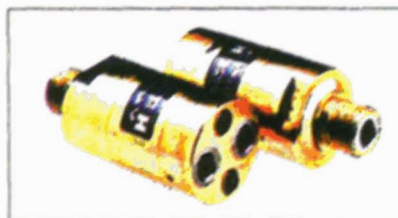
## Linear positioners



Linear air motors — designed to interchange dimensionally with NFPA-type cylinders — use pneumatic signal to drive air motor that turns acme screw through planetary gearing to move, position, hold loads. Non-electrical, corrosion-resistant, lightweight units reverse instantly, self-lock; generate adjustable forces to 5000 psi. Model range has strokes from 4 to 60 in.

**Linear Air Motors**

**350**



diameter  $\times$  4 in. long; weight, 2 lb. Corrosion-resistant coating, no dynamic seals.

**Sherex Industries**

**352**

## Temperature-alert decals



Liquid-crystal display on self-adhesive decals changes color to produce warning message when surface temperature reaches tripping point; returns to original state when temperature drops. Accuracy: 1°; size: 1  $\times$  1 in.

**Telatemp**

**353**

## Oil preheater

Thin, flexible, Peel-n'-Stick version of silicone/fiberglass Hot Pad preheater adheres to exterior surface of metal reservoir. Powered by 110 or 240 VAC, pad exposes large adjacent surface area of oil to low-wattage heat;



warms, but will not burn. Simple installation, no maintenance; warranted for 3 years.

**Universal Heater Co.**

**354**

## Hydrostatic pump

Series 2 axial-piston pump combines heavy-duty pumping components, compact cradle washplate design with integral arm and pin, and computerized controls that monitor variety of sensors and systems. Rated 6250 psi; flows from 62.2 to 99.4 gpm at 3500 psi. Joystick-compatible electronic displacement control automatically adjusts for 12- or 24-V input, returns to neutral if power is lost. Single-piece cast-iron housing provides durability, deadens sound.

**Eaton Corp.**

**355**

## Joysticks

Joystick controllers available from stock provide proportional and non-proportional control of X, Y, Z axes, with compact models for finger and thumb control. Intended for industrial, military use, controllers can be customized to include such characteristics as additional outputs, optional handles and switches, release mechanisms.

**Penny + Giles**

**356**



## Filter magnet

Halex Coil has powerful neodymium/iron/boron rare-earth magnet bonded onto spiral coil of spring steel that wraps around exterior of canister-type hydraulic filter to trap and hold ferrous particles against inside wall of canister.

Retains particles <20  $\mu$ m in size. When canister is replaced, particles stay with old unit; coil can be slipped off easily and installed on replacement canister.

**Halex Development**

**351**

## Hydraulic intensifiers

Rugged Iversen HC2 intensifiers can boost supply pressure by factor of up to 20 — with no external power. Automatically compensate for oil consumption in high-pressure circuit. Can flow 0.66 gpm at 11,756 psi. Size: 2 in.