

File MH28088
Service Request 4842754-T001

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REPORT

on

POWER-OPERATED PUMPS

IDEX AODD INC
MANSFIELD, OH

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DESCRIPTION

PRODUCT COVERED:

* Air operated flammable liquid pumps, Model E1 followed by S or A, followed by A, followed by 2 or 5, followed by T, F, or R, followed by A or 5, followed by 5, may be followed by additional suffixes, followed by -UL.

GENERAL:

These are air-operated pumps intended for use in accordance with the Flammable and Combustible Liquids Code (NFPA 30) and the Code for Motor Fuel Dispensing Facilities and Repair Garages (NFPA 30A).

The motive power for these pumps is compressed air provided in conventional air-supply lines commonly found in industrial plants and service stations.

The pumps are of the reciprocating action design. The air motor and pump are closed coupled designed with air motor and fluid pump chambers separated by diaphragms. The pumps are actuated by an automatic air valve supplying air pressure first to one air chamber while exhausting air from the opposite chamber. This alternating air pressure causes the diaphragm to reciprocate in horizontal motion between the air and the fluid chambers. The fluid chambers are connected to manifolds with inlet and outlet check valves, one pair for each chamber. The fluid outlet pressure is governed by the inlet air supply pressure.

SIZE AND RATING:

Pipe Connections -

<u>Series</u>	<u>Air Inlet</u>	<u>Air Exhaust</u>	<u>Fluid Inlet</u>	<u>Fluid Outlet</u>
E1	3/8 NPTF	1/2 NPTF	1 NPTF	1 NPTF

Fluids - Waste Oil, Nos. 2 through 4 Oil, motor oil, gear oil, diesel fuel, kerosene, gasoline (including alcohol blends with up to a 15% concentration of alcohol), automatic transmission fluid, aviation fuel, ethylene glycol or water for all pumps except those with a suffix 2 or BN (Buna-N material) which are rated for Nos. 2 through 4 fuel oil, motor oil, gear oil, diesel fuel, kerosene, gasoline, 15% methanol/85% gasoline, 15% ethanol/85% gasoline, aviation fuel or water.

	<u>Series</u>
	<u>E1</u>
Maximum Air Inlet Pressure, psig	50
Maximum Outlet Pressure, psig	50