



# Importance of ECI manufacturing

March 26, 2020

# Engineered Controls International is critical to the Covid-19 response

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The most important applications where our products are used include

## For medical

Inside the hospitals and medical centers Medical Gas Fittings, Hose Assemblies, and Accessories

For home care fittings and hose accessories for oxygen tanks

At the hospital valves, regulators and safety relief devices for oxygen tanks and cylinders used for bulk storage at the medical facilities and distribution centers .

## For Drug and Chemical manufacturing

RegO valves, regulators and safety relief devices are used on tanks and cylinders for storage and delivery of processing gases

## Residential and industrial Heating

RegO makes valves, regulators and safety relief devices for tanks and cylinders used for storage and use lines of the propane for heating homes and water

## Cooking, both industrial and residential Food preservation and Farming

RegO makes valves, regulators and safety relief devices for tanks and cylinders used for storage and use lines of the propane

## Emergency power generation

RegO makes valves, regulators and safety relief devices for tanks and cylinders used for storage and use lines of the propane



# Our supplies are critical to important companies

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We are coordinating with our supply chain to meet the needs of the industry leaders serving these markets.

- Air Liquide
- Airgas Healthcare
- Air Products
- Linde and Linde Healthcare
- AmeriGas Propane
- Ferrellgas Partners LP
- Suburban Propane Partners LP
- Growmark Inc.
- Superior Plus Propane
- Chart Industries
- And many others



# Recognized by DHS as a critical industry

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The Department of Homeland Security, Guidance on the Essential Critical Infrastructure Workforce: Ensuring Community and National Resilience in COVID-19 Response Version 1.0 (March 19, 2020)

ECI LLC and the RegO product line would fall under the Critical Manufacturing section on page 8

## **CRITICAL MANUFACTURING**

- Workers necessary for the manufacturing of materials and products needed for medical supply chains, transportation, energy, communications, food and agriculture, chemical manufacturing, nuclear facilities, the operation of dams, water and wastewater treatment, emergency services, and the defense industrial base.

<https://www.cisa.gov/publication/guidance-essential-critical-infrastructure-workforce>



# Inside Hospitals and Medical Centers



Medical Gas Fittings, Hose Assemblies, and Accessories





# Home Care Oxygen



## Fittings and Hose Accessories

Capacity	B (B) 154L	MLA (MLA) 171L	C (MS) 248L	D 415L	E 548L	MLA 1723L	M 3453L
Cylinders per pallet	144	81	81	81	81	42	25
Weight lbs.	2.2	2.8	3.7	4.9	7.3	22.5	40.0
Standard Post Valve	MCYL-1010	MCYL-1017	MCYL-1021	MCYL-1025	MCYL-1029		
Standard Post Valve - Pallet	MCYL-1013-P	MCYL-1017-P	MCYL-1021-P	MCYL-1025-P	MCYL-1029-P		
Toggle Valve	MCYL-1014	MCYL-1018	MCYL-1022	MCYL-1026	MCYL-1030		
Toggle Valve - Pallet	MCYL-1014-P	MCYL-1018-P	MCYL-1022-P	MCYL-1026-P	MCYL-1030-P		
CGA-540 valve & carrying handle						MCYL-1040	MCYL-1050
CGA-540 valve & carrying handle - Pallet						MCYL-1040-P	MCYL-1050-P



# Bulk storage at Medical Facilities and Distribution Centers

Production & Transportation



Bulk Storage



Reserve Storage Systems



Medical Gas Manifolds



# Drug and Pharmaceutical Processing

Gas Production, Transportation & Storage



Final Line into the Production Facility

Purging & Blanketing in the Process for Clean & Consistent Environment





# Residential and Industrial

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Home and Industrial Heating



Hot Water Heating

# DHS sees propane as essential

The U.S. Department of Homeland Security (DHS), in conjunction with other federal agencies, published guidance on "essential workers" for state and local authorities that have or are considering "shelter-in-place" ordinances or similar restrictions on movement.

## Guidance on Identification of Essential Critical Infrastructure Workers During COVID-19 Response

The intent of the guidance is to eliminate or minimize discrepancies in defining "essential workers" among state and local authorities so as to maintain operation of key industry sectors of the United States. NPGA communicated with the agencies to include propane employees among "essential workers" classifications. The guidance document identifies propane employees under the sectors for Energy as well as Transportation and Logistics, which are excerpted below:

### Energy

- ❑ Propane gas dispatch and control rooms and emergency response and customer emergencies, including propane leak calls
- ❑ Propane gas service maintenance and restoration, including call centers
- ❑ Processing, refining, and transporting natural liquids, including propane gas, for use as end-use fuels or feedstocks for chemical manufacturing
- ❑ Propane gas storage, transmission, and distribution centers

### Transportation and Logistics

- ❑ Employees supporting or enabling transportation functions, including dispatchers, maintenance and repair technicians, warehouse workers, truck stop and rest area workers, and workers that maintain and inspect infrastructure (including those that require cross-border travel)
- ❑ Truck drivers who haul hazardous and waste materials to support critical infrastructure, capabilities, functions, and services
- ❑ Automotive repair and maintenance facilities
- ❑ Employees who repair and maintain vehicles, aircraft, rail equipment, marine vessels, and the equipment and infrastructure that enables operations that encompass movement of cargo and passengers



# Farming and Food Preservation



Pig and Chicken Rearing



Food Freezing

Food & Beverage Packaging



# Industrial and Residential Cooking

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Cooking and Baking



Food Drying





# Emergency power generation

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Emergency Power  
Generation



# Other Infrastructure Applications

Water Treatment



Refuse and garbage  
pickup and disposal