

## Queensland Government COVID-19 (Coronavirus) Manufacturing Supply Chain support

# Supply of components to support development of a ventilator prototype

### General Description

The Queensland Government is working to connect businesses across industries with suppliers of essential supplies to continue operations. We are continuing to work with local industry to explore opportunities to develop ventilator and CPAP manufacturing capabilities.

A low-cost ventilator prototype has been developed by a local business in an effort to help fight the global coronavirus pandemic. They are now moving into prototype development and require assistance in obtaining specific components.

While initial quantities of components are small, a much higher quantity would be required to produce the production run amounts. Suppliers who respond here should indicate their local stock levels of each of the BVM and sensors so designs can be based on the most readily available items.

### Expressions of Interest

The Queensland Government encourages local businesses interested in supplying specific components to register an expression of interest (EOI) through the ICN Gateway webpage.

### Specific Scope Requirements

COMPONENTS	COMMENTS			
Manual Resuscitator Bag (BVM)	Patient Valve needs to be removable – need to be able to extend this away from the machine. Need mechanical pressure relief as a fail-safe			
	BRAND	REMOVABLE PATIENT VALVE	MECHANICAL PRESSURE RELIEF	QUANTITY REQUIRED
	Galemed (our 1 <sup>st</sup> one)	Yes	60cm H2O, tested at ~80cm TBC	1
	Draeger MR-100	Yes (not confirmed)	Yes 60±10cm H2O	1
	Bedmed	Yes (not confirmed)	Yes 60cm H2O	1
	Hsiner 60121	Yes (not confirmed)	Yes 60cm H2O	1
Parker	Yes (not confirmed)	Yes 60cm H2O	1	

COMPONENTS	COMMENTS	QUANTITY
PEEP Valve/Diverter	The suitable BVMs above all appear to have PEEP diverters & adjustable PEEP valves	1 per BVM
Extension Hose	Required to extend Patient Valve away from Bag/Machine. Ideally correct sizing supplied, so that adapters are not needed	2 hoses: length ~ 1.2 m
Flow Meter/Pressure Sensor	Connect to a difference pressure sensor, Pneumotach style: <ul style="list-style-type: none"> <li>Hamilton Medical</li> <li>Sword Medical</li> <li>B&amp;B Accutach</li> <li>Draeger Pressure Difference Flow Sensor (8412034)</li> </ul> Draeger Spirolog/Infinity/SpiroLife Hot Wire Anemometer (8403735/6871980/MK01900) <ul style="list-style-type: none"> <li>This would require a supplied calibration &amp; wiring diagram</li> </ul>	2 Pneumotach style sensors of any of these models  OR  2 Hot Wire Anemometer sensors along with 2 x inspiration pressure sensors
HME Filter		2 units

**Opens:** 3 April 2020  
**Full scope closes:** 15 April 2020  
**Location of works:** Queensland  
**Forecast Award Date:** Immediate and as needed

## Disclaimer

The Scope of Work is indicative only and is intended to be used as a summary description of work which may be required by Queensland businesses and may be subject to change. There is no undertaking to contract or proceed to a competitive process implied by this form. Further contact with interested suppliers will be at the discretion of the Queensland businesses seeking this product.