



# Dispenser Technology

The innovative  
technology developed  
by Compac ensures  
world-class performance,  
accuracy and safety for  
your dispenser.



# There are several critical components included in every Compac CNG Dispenser to ensure the dispenser's performance and accuracy every fill.

Employing Compac's Dispenser Technology can significantly improve the performance and accuracy of your dispensers to ensure you are also able to supply a world-class dispenser.

## → KG80 Coriolis Mass Flow Meter

Compac CNG meters are highly accurate. This major advance in technology has been achieved through the development of the KG80 meter and its integration with the electronic head.

The KG80 meter is a true mass flow meter using the physics of Coriolis forces to accurately determine mass flow. The meter is self-characterising, removing the need for meter setup and taking of measurements during commissioning.

The KG80 meter has a rated working pressure of 275 bar (350 bar optional). Compac has chosen the highest quality tubing and introduced some innovative manufacturing techniques to eliminate tube stress and corrosion over the life of the meter.

Using the Compac KG80 Coriolis Mass Flow Meter will bring major improvements to the performance of your dispenser.

**No Free Gas** - Highest possible accuracy. True error checking between meter and dispenser electronics prevents dispensing of the unmeasured gas

**No Calibration Drift** - The electronics automatically reset the zero point

**Large Flow Range** - The KG80 Meter is accurate over the range 1-100kg/min and has been approved to the latest OIML standard: "Compressed Gaseous Fuel Measuring Systems for Vehicles"

**External Variables** - The mass flow measurement is independent of gas composition, humidity, temperature and pressure



KG80 Coriolis Mass Flow Meter

## → Hydraulic Components

Compac hydraulic components are made of stainless steel for superior performance and corrosion resistance. They are batch numbered, with traceability to material certificates and production runs.

These hydraulic components have been independently tested and third party analysed to verify their structural safety.

All valves comply with the European PED requirements and are assembled at Compac under strict quality control procedures. These procedures are audited as part of our ISO 9001 certification and include traceability compatible with the PED requirements. The valves are designed for reliability and are easily serviced without having to remove pipework.

### Filter Check Valves

- An integrated filter with dual outlet and built-in check valves
- Each filter contains a high quality coalescing filter element
- Capable of flow rates in excess of 90kg per minute

### Solenoid Valves

- Pilot operated
- Closes with zero differential pressure
- Bubble tight shut-off
- Capable of flow rates in excess of 90kg per minute

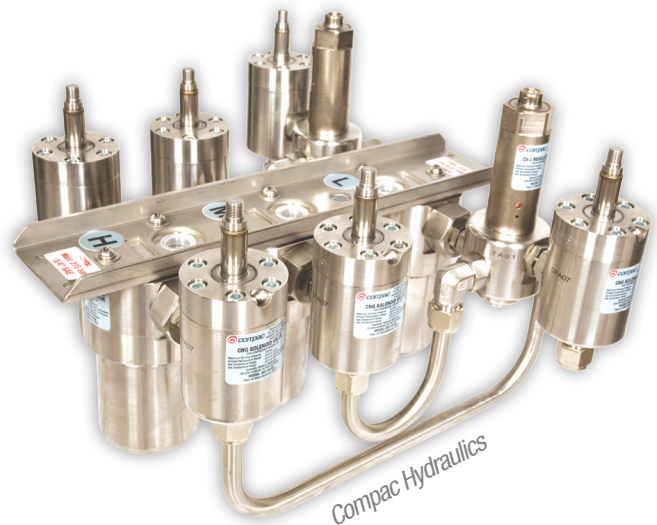
### Regulator Valves

- Bubble tight shut-off
- Tamper proof
- Adjustable range from 180 to 275 bar
- Capable of flow rates in excess of 50kg per minute

## → Electronic Head

The Compac electronic head is highly accurate and designed for dispenser control and management. The meter and all other electronic components plug directly into the electronic head, which processes the data and controls the dispensing operation.

The electronic power supply is housed in a flameproof, waterproof enclosure. This ensures additional safety should an electrical fault occur. The power supply controls the solenoid and provides intrinsically safe power to the electronic head, meters, displays, presets, start and stop buttons, temperature and pressure transducers, card readers and pinpads.



## Approvals

Compac dispensers have received certification and approvals in many different countries. Copies of these are available on our website.

Please contact us if the approval you require is not listed here:

- Czech Weights and Measures Approval
- European ATEX certification for Class 1 Zone 1 Hazardous areas
- European PED approved for CE marking
- European EMC requirements – test report is available
- EAC Mark of Conformity for Electrical Equipment in Hazardous Areas
- Indian CCOE Electrical Approval
- Indonesian Approval
- International IECEx Certification for Class 1 Zone 1 Hazardous Area (accepted in Australia and New Zealand)
- Malaysian Sirim Weights and Measures Approval
- National Measurement Institute of Australia (NMI) approval
- NMI Holland reports show compliance to OIML R139
- NTEP USA Weights and Measures Approval
- Russian Weights and Measures Approval (VNIIMS)



### Compac Industries Ltd

52 Walls Road, Penrose  
Auckland 1061  
New Zealand  
PO Box 12 417, Penrose  
Auckland 1642  
New Zealand  
Tel: +64 9 579 2094  
Fax: +64 9 579 0635  
[www.compacngv.com](http://www.compacngv.com)  
[www.compac.co.nz](http://www.compac.co.nz)

### Compac Sales Pty Ltd

32 Boundary St  
South Melbourne, VIC 3205  
Australia  
PO Box 312  
Port Melbourne, VIC 3207  
Australia  
Tel: +61 3 8696 4888  
Fax: +61 3 8696 4817  
[www.compacsales.com.au](http://www.compacsales.com.au)

### Compac Industries India Ltd

K 73 Udyog Nagar  
Main Rohtak Road  
Delhi - 110041  
India  
Mobile: +91 85888 78287  
[www.compacindia.com](http://www.compacindia.com)