

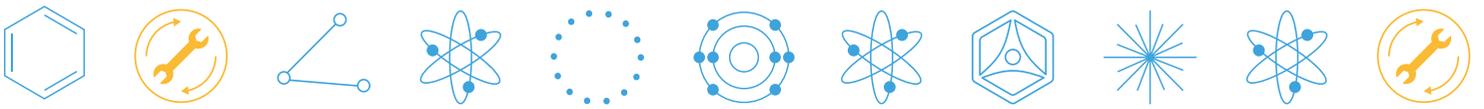
Dynaflow 4

LNG / LBG Fueling
Dispenser



Re-engineered for
faster, more efficient,
ice-free and safer
fueling





Creating a familiar experience for confident fueling

Dynaflow 4 is a totally re-engineered fuel dispenser for LNG/LBG fueled vehicles that maximizes availability for owners and provides drivers with an enhanced and familiar fueling experience.

Dynaflow 4 is the only dispenser featuring Flow's superior vacuum insulated design creating an ice free experience that ensures the dispenser is available for use at all times and reduces fill time for drivers.

- Fueling time consistent with equivalent diesel vehicles
- Upgraded vacuum column provides ice free operation
- Advanced interface between dispenser and station and dispenser and driver





Dynaflow 4

Dynaflow 4 is designed for continuous, long lasting operation, working under heavy load and is easily capable of performing >100 fueling operations every day.

Dynaflow 4 for station owners

Customizable installation

- Fueling from both sides with front or side mounted height adjustable nozzles
- Suitable for all sizes of fueling station
- Floor, plinth or skid mount
- Serves all LNG/LBG vehicles
- Available for new build or retrofit stations
- Customer branded

Maximum accuracy

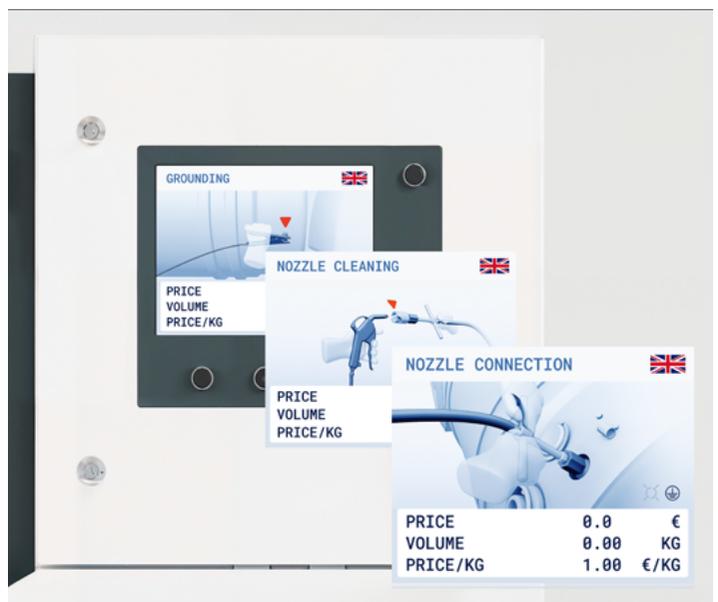
- Measures real time density of LNG/LBG for most precise metering and accounting
- Lifetime guarantee on metering section
- European type approval based on MID

Engineered for 24/7 operation

- Vacuum column maintains liquid condition for immediate fueling
- Engineered to operate in ambient conditions to -40°C
- Supports a broad range of pay at pump and forecourt payment solutions
- Real-time analytics with cloud based remote management platform

Dynaflow 4 for drivers

- Upon approach to the station the high level light bar clearly indicates dispenser status and availability
- Flow technology ensures the dispenser is available for immediate fueling with no pre-cooling required
- Refueling times are at least consistent with equivalent diesel fueled vehicles
- Intuitive and easy step-by-step fueling guide thanks to the large screen with multilingual interface
- Flow-Tec technology reduces frost during refueling for improved operator/driver experience



Access to Chart's extensive service network across Europe

Uptime enabled with 24/7 on-line data collection and analysis creating a unique foundation for maintaining and enhancing operational excellence.

Specifications: Dynaflow 4 is based on Flowcom 3000 flow processor with dynamic density measuring and flow metering based on differential pressure system.

Measuring system

dp-metering system	Flowcom 3000
Metering section	SWM 33.7 × 2.6 -12-1773
Flow range	16–80 kg/min (standard LNG)
Density range	300–700 kg/m ³
Calculator system	Betacontrol ADP U
Communication to POS	Betacontrol Protocol converter EasyCall and DART
Optional	IFSF

Operating conditions

Temperature	–20 / +55°C (–40 / +70°C on request)
Humidity	5–95 % (non condensing)
Vessels and installation code	PED
Ex-Proof according to	ATEX 2014/34/EU Ex-zone in dispenser “pneumatic/piping” enclosure Ex-zone 1 electronic box Ex-zone 2
Additional safety equipment	Zones 1, 2
CDA hose /nozzle	for nozzle purging/cleaning
Safety gas return hose	½” stainless steel hose 3,5 m / 5 m length
Dispensing hose	1” stainless steel hose, 3,5 m / 5 m length with nozzle (e.g. Parker Kodiak, Cryomac4, JC Carter)

General information

Enclosure material	Stainless steel, white painted
Water and dust protection	Electronic section: IP54 / Flow meter section: IP44
Dimensions	Footprint: 1170 × 470 mm / Height: 2500 mm / Base height: 60 mm
Power supply	230 V AC

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