

Compact pumping and filling system for CO₂ cylinders

103/FCD222B-1 model

Compact and user-friendly
CO₂ filling station from tank



The 103/FCD222B-1 unit has been designed to fill cylinders with capacity higher than 1Kg with liquid CO₂ stored in bulk storage tank 25bar MAWP or similar. The filling process stops automatically once the net weigh set on the weighing scale display is reached. The unit is equipped with pump and instrumentation already preassembled and cabled in a painted frame, featuring short time and simple operation for installation and commissioning, comparing to other cylinder filling stations (see FCD222 and 103D pump series). The weighing scale (150 kg max load) is equipped with a mechanical vice allowing to clamp in safety the cylinders on filling.

TECHNICAL SPECIFICATIONS

DELIVERY PRESSURE	100 bar max
SUCTION PRESSURE	25 bar max (higher on demand)
FLOW-RATE LCO ₂	300 kg/h
POWER	1,1 kW
TENSION, FREQUENCY	400 V, 50 Hz
INSTRUMENT AIR	6-8 bar
MAIN UNIT FRAME DIMENSIONS	900x810x1650 h mm
WEIGHING SCALE DIMENSIONS	600x600x900 h mm

COMPONENTS AND DEVICES

- Volumetric 3 piston pump with brass head and stainless steel suction and delivery valve.
- Electric motor 1,1Kw 400V 50Hz 3ph single speed
- Transmission with motor rail, pulleys, belts
- Suction flex. hose DN20 with safety valve
- Inlet filter
- Pressure gauge
- Pressure switch
- N°1 filling hose L 1400 mm DN6 PTFE SS braided
- N°1 stainless steel revolving connector W21,8x14th/1"

Compact pumping and filling system for CO₂ cylinders



ELECTRIC PANEL BOARD

The electric panel board interfaces the CO₂ pump and the pneumatic valves, allowing also the automatic cycles: IP54 metallic enclosure. Main power switch with panel door interlock.

Lamps for:

- Power on
- Alarm on
- Valve open/closed

Push buttons for:

- Pump start
- Pump stop
- Emergency

On the dashboard:

- Start filling push button
- Stop filling push button
- Pre-set to fill push button
- Electronic scale digital display



ELECTRONIC WEIGHING SCALE

- Max load 150Kg
- Division 20g up to 60kg / 50g from 60 to 150kg
- Stainless steel plate 600x600mm
- Manual cylinder holder VIF/BIL1 with adjustable/removable support for portable cylinder.

> PER MAGGIORI INFORMAZIONI:
FOR FURTHER INFORMATION CONTACT:
POUR INFORMATIONS CONTACTER:

DAMOTEK S.r.l.

Via Avv. Giovanni Agnelli, 10 12033 MORETTA (CN) ITALY
Tel: +39 0172 911235
Fax: +39 0172 911322

www.damotek.com
info@damotek.com



ISO 9001