

# 11-fold high pressure solenoid valve manifold DN 8

For compresses natural gas (CNG)

Indirectly solenoid actuated

Piston valves

Consisting of:

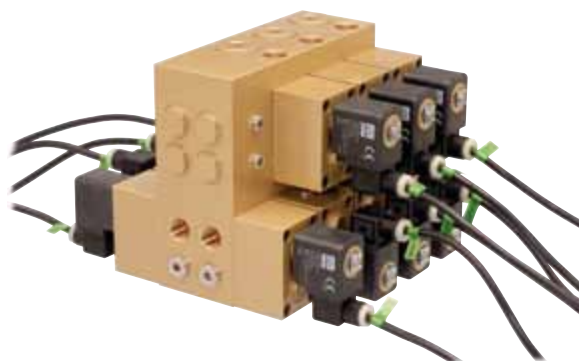
**Further customized solutions  
available upon request!**

**8590237**

- 3 solenoid valves to control the filling of the Low-, Middle- and High-Bank
- 6 solenoid valves to control a dispenser with two lines (parallel filling of two cars)
- 2 solenoid valves as security valves in front of the dispenser
- 9 non return valves to avoid the inflow from higher pressure levels (e. g. High Bank) to lower pressure levels (e. g. Middle Bank)
- 2 additional non return valves for filling a car directly from the compressor via the dispenser (without needing to pre-fill the banks), necessary at highly frequented stations
- 3 filters 40 µm

## Description (standard valve)

Switching function: normally closed  
 Flow direction: determined  
 Fluid temperature: -20 °C up to max. +60 °C  
 Ambient temperature: -20 °C up to max. +50 °C  
 Mounting position: preferably, with filter on the bottom side



## Material

Valve manifold: Brass  
 Seat seal: Polymer  
 Internal parts: Brass / Stainless steel / Polymer

Internal leakage acc. to DIN EN 12266-1 Leakage rate "E"

External leakage acc. to DIN EN 12266-1 Leakage rate "A"

## Characteristic data

Valves

Part Number Solenoid with --- or ~	Nominal Diameter (mm)	Connection size	Operating pressure (max. differential pressure)		Weight (kg)
			min. (bar)	max. (bar)	
8590237.9841	8	G 1/2	10	320 (320)	40.00

Acc. to PED 97/23/EC and ATEX 94/9/EC!

**Solenoid 9841**

Standard voltage

DC ==	AC ~ 50 Hz – 60 Hz	
24 V	–	–
–	230 V	–

Voltage range ±10 %  
100 % duty cycle  
Protection class acc. to EN 60529 IP65

**XXXXXX.9841**

Solenoid with 3 m cable ends  
Protection class according to  
- II 2 G Ex mb II T4  
- II 2 D Ex tD A21 IP 65 T 130 °C

**Power Consumption**

According to DIN VDE 0580 at coil temperature of +20 °C. In operation the power consumption of the solenoid decreases by approx. 30 %.

Solenoid	DC ==	AC ~	
		Inrush	Holding
<b>9841</b>	10.1 W	9.2 VA	9.2 VA

**Further Options (Solenoids)**

**XXXXXX.9845** Solenoid with 10 m cable ends  
Protection class according to  
- II 2 G Ex mb II T4  
- II 2 D Ex tD A21 IP 65 T 130 °C

**XXXXXX.3826** with 1/2 - 14 NPT female thread and 460 mm flying leads  
Protection class according to ANSI/NEMA USA: FM approved (File-No. 2Z2A6.AE)  
Canada: CSA certified (File-No. LR 57643-6)  
Solenoids in temperature class T3C (160° C) are usable in Ex-areas.

Class I, Division 1 and 2, Groups A-D (Gases and fumes)  
Class II, Division 1 and 2, Groups E-G (dusts)  
Class III, Division 1 and 2 (fibres and fluffs)  
Ambient temperature: -20 °C up to +60° C

**XXXXXX.3827** with 1/2 - 14 NPT female thread and 460 mm flying leads  
**for AC with integrated rectifier**  
Protection class according to ANSI/NEMA USA: FM approved (File-No. 2Z2 A6.AE)  
Canada: CSA certified (File-No. LR57643-6)  
Solenoids in temperature class T3C (160° C) are usable in Ex-areas.

Class I, Division 1 and 2, Groups A-D (Gases and fumes)  
Class II, Division 1 and 2, Groups E-G (dusts)  
Class III, Division 1 and 2 (fibres and fluffs)  
Ambient temperature: -20 °C up to +60° C

**XXXXXX.428X** Solenoid with terminal box  
cable gland M20 x 1.5  
cable gland diameter range Ø 5-8 mm  
Protection class according to  
- II 2G Ex emb II T4/T5  
- II 2D Ex tD A21 IP 66 T 130° C  
Ambient temperature: T4 -40 °C up to +50° C  
T5 -40 °C up to +40° C

**XXXXXX.468X** Solenoid with terminal box  
cable gland M20 x 1.5  
cable gland diameter range Ø 10-14 mm  
1/2 - 14 NPT Ø 7.5-11.9 mm  
Protection class according to  
- II 2G Ex dmb II T4/T5  
- II 2D Ex tD A21 IP 66 T 130° C  
Ambient temperature: T4 -40 °C up to +50° C  
T5 -40 °C up to +40° C

Drawings

