

11-fold high pressure solenoid valve manifold DN 15

For compressed natural gas (CNG)

Indirectly solenoid actuated

Piston valves

Consisting of:

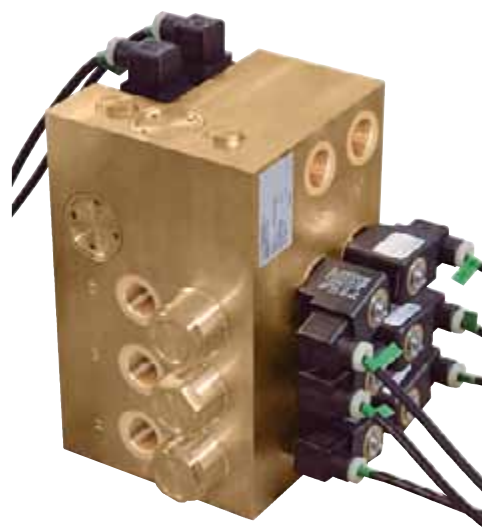
*Further customized solutions
available upon request!*

8590230

- 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)	
8590230.9845	15	G 3/4	10	250	50.00

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

XXXXXXX.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
9841	10.1 W	9.2 VA	9.2 VA

Further Options (Solenoids)

XXXXXXX.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

XXXXXXX.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

XXXXXXX.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

XXXXXXX.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

XXXXXXX.468X Solenoid with terminal box
cable gland cable gland diameter range
M20 x 1.5 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

