

6-fold high pressure solenoid valve manifold DN 8

For compressed natural gas (CNG)

Indirectly solenoid actuated

Piston valves

Consisting of:

- 6 solenoid valves to control a dispenser with two lines (parallel filling of two cars)
- 6 non return valves to avoid the inflow from higher pressure levels (e. g. High Bank) to lower pressure levels (e. g. Middle Bank)

Further customized solutions available upon request!

8499898

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: optional



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"

Installation of a 40 µm filter in front of the valve is required!

Characteristic data

Valves

Part Number Solenoid with ≡ or ~	Nominal Diameter (mm)	Connection size	Operating pressure (max. differential pressure)		kv-value * (Base m ³ /h)	Weight (kg)
			min. (bar)	max. (bar)		
8499898.9841	8	G 3/8	10	320 (320)	1	17.5

* C_v-value (US) ≈ kv-value x 1.2

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

for DC

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)

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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

