

2/2-way high pressure solenoid valve DN 15

For compressed natural gas (CNG)
Indirectly solenoid actuated
Piston valves
Internal threads G 3/4
Operating pressure 10 to 250 bar

Further customized solutions
available upon request!

8590372
8590373

Description (standard valve)

Switching function: normally closed
Flow direction: determined
Fluid temperature:
Solenoid **9841** -20 °C up to max. +60 °C
Solenoid **9186** -20 °C up to max. +60 °C
Ambient temperature:
Solenoid **9841** -20 °C up to max. +50 °C
Solenoid **9186** -20 °C up to max. +40 °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

40 µm filter included in the inlet port

Part Number Solenoid with ≡ or ~	Nominal Diameter (mm)	Connection size	Operating pressure = max. differential pressure		Weight (kg)
			min. (bar)	max. (bar)	
8590372.9841	15	G 3/4	10	250	4.5

without filter

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

Part Number Solenoid with ≡ or ~	Nominal Diameter (mm)	Connection size	Operating pressure = max. differential pressure		Weight (kg)
			min. (bar)	max. (bar)	
8590373.9841	15	G 3/4	10	250	4.5

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

Solenoid 9186

Standard voltage

DC =	AC ~ 40 Hz – 60 Hz	
24 V	–	–
–	230 V	–

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

XXXXXX.9186

Solenoid with terminal box
cable gland M16 x 1.5
cable gland diameter range Ø 5-10 mm
Protection class according to
- EEx me II T4
- Ex II 2 GD IP 65 T 140 °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
9186	14 W	16 VA	16 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

