



## QUICK LIGHT RELIABLE DIRECT SOLENOID VALVE NC

- Ultra-compact design
- More cost-efficient application
- Low weight
- Low electrical power consumption



Nova Swiss is proud member of Hydrogen Europe association.

# Applications

## POST CARBON TECH

- H<sub>2</sub> filling stations
- Renewable Energy
- Alternative Fluids
- Automotive (Trucks, Buses, Cars)
- Transportation (Trains, Ships)

## RESEARCH & DEVELOPMENT

- Leak testing systems
- Burst Testing systems
- Fatigue testing systems

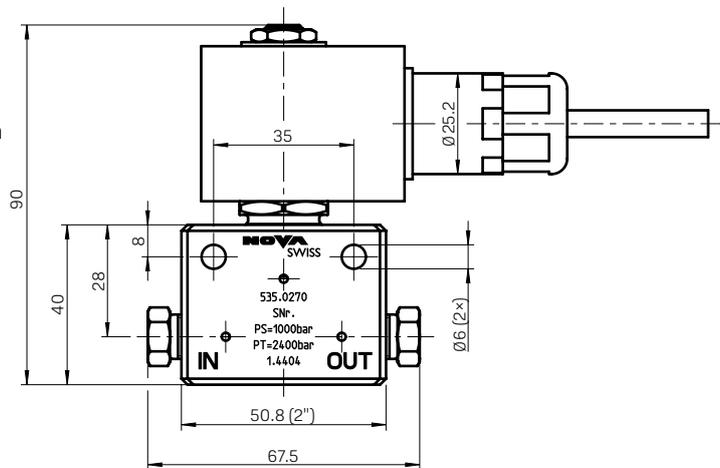


# SD – Direct Valves for H<sub>2</sub>-Applications

The direct operated solenoid valve NC offers all the advantages of the pilot operated solenoid valve NC at operating pressures up to 1'000 bar, but is even smaller and more compact. Here too, the focus is on cost efficiency and reliability.

The direct operated 2-way on/off valve is made of stainless steel and has a monostable design (normally closed). Its flow factor (KV) is 0.006 m<sup>3</sup>/h.

The direct operated solenoid valve also has a safety function. In case of a voltage drop, it closes automatically, reliably and tightly.



VALVE DATA		
<b>NC (normally closed)</b>	Valve currentless closed (safety function)	
<b>Operating pressure</b>	0 – 1'000 bar	
<b>Test pressure</b>	> 1'500 bar	
<b>Burst pressure</b>	> 2'400 bar	
<b>Gaseous medium</b>	H <sub>2</sub> , CO <sub>2</sub> , N <sub>2</sub> , He, Ne, Ar, Kr, Xe	
<b>Medium temperature</b>	-40 °C ... +80 °C	
<b>Ambient temperature</b>	-40 °C ... +80 °C	
<b>Flow coefficient (KV)</b>	0.006 (m <sup>3</sup> /h)	
<b>Nominal width</b>	0.35 mm	
<b>Switching time</b>	< 0.05 sec	
<b>Flow direction</b>	bi-directional	
<b>HP connection</b>	NOVA 4M (Tube ¼", 7/16-20UNF)	
<b>Weight</b>	< 0.8 kg	
<b>Life span</b>	10 years or 100'000 cycles	
Electrical data		
<b>Power supply</b>	24 VDC (or PWM, other options upon request)	
<b>Power consumption</b>	14 W	
<b>IP code</b>	IP 67	
Valve code	Solenoid coil	Valve certification
<b>SD1-14-4M-NC</b>	Standard	None
<b>SD1-14-4M-NC-4</b>	ATEX: Ex II 2G Ex mb IIC T3	ATEX: Ex II 2G Ex h IIC T3 Gb*
<b>SD1-14-4M-NC-U</b>	UL	UL*

\* Certification in progress

Contact Nova Swiss for customized solutions.