

Control Valve

**Introducing the Control Valve,
a linchpin in nass magnet's expansion
into the hydrogen industry.**

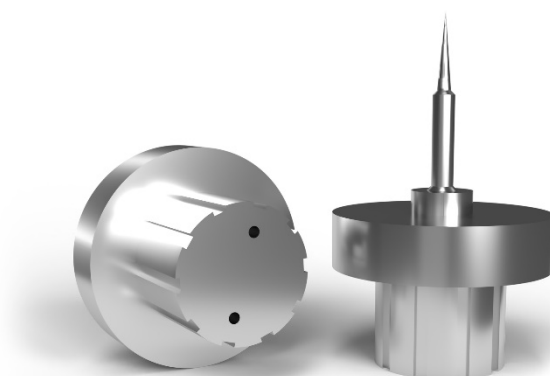
Efficient control of the mass flow to precisely supply hydrogen to the fuel cell. The control valve impresses with its outstanding accuracy and can be used for the recirculation of hydrogen into the fuel cell power unit.

Temporary data sheet

For further information please contact

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Functional Overview

Proportional control

Linear control function	2/2 NC
Inlet pressure	12 [bara]
Outlet pressure	1 – 3 [bara]
Temperature range	-40° C to +100° C
Voltage	12 V DC
Switching cycles	10 Mio.



Technical Data

General Information

Number	811-900-9000	
Description	Solenoid valve proportional 2/2 NC 1.8 12 bar 12 V	
Type valve body	customer interface	
Construction stage	Solenoid operator	
Application area	Control valve for hydrogen applications	
Min. ambient temperature	-40° C	different temperature ranges on request
Max. ambient temperature	+95° C	different temperature ranges on request
Options	position sensor	on request
Dimensions [mm]	Ø 50x67,5	individually adaptable to customer interface
Mounting	flange, 4x M6	other mounting on request

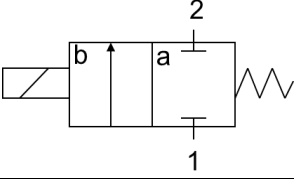
Valve is in the sample state.
Technical data show actual development status.
Document created in April 2024

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Electrical Data

Voltage type	DC	
Voltage	12 V	other (nominal) voltages on request
Control	current controlled	
Electrical connection	standard wire	different connectors available on request
IP protection	-	different types of protection class on request
Duty cycle	100%	

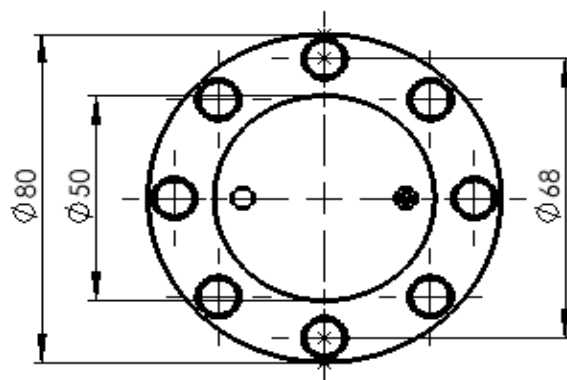
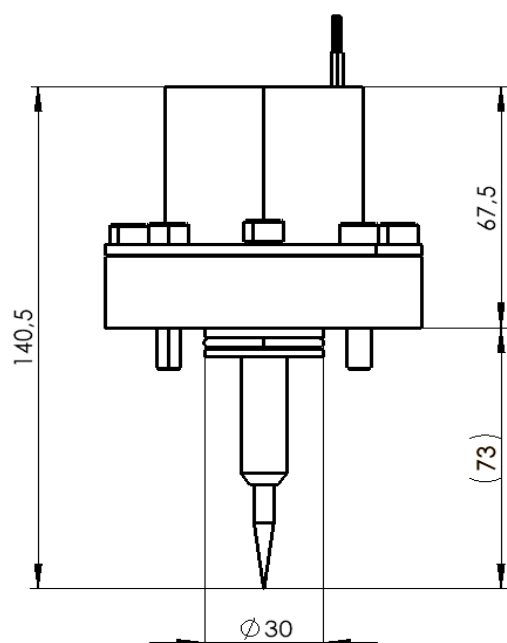
Pneumatic Data

Function	2/2 NC proportional	
Connection drawing		
Nominal size	1,8 [mm]	other nominal sizes on request
Operating pressure	16 [bara]	different pressure range on request
Burst pressure	>25 [bara]	different pressure range on request
Switching cycles	> 10 mio.	
Leakage	minimal / ultra fine	
Media	hydrogen, air	further media on request

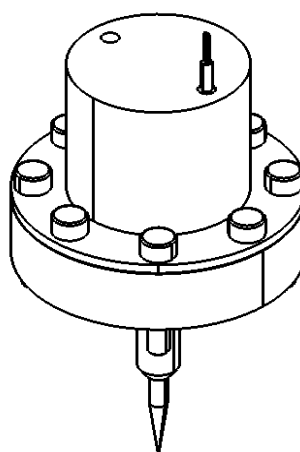
Norms and certifications

Approval	IATF 16949	further approvals on request
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Dimensions



different connection dimensions possible



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