

On Tank Valve

Introducing the Tank Valve, a cornerstone in nass magnet's pioneering efforts in the hydrogen industry.

Suitable for various pressure levels up to 875 bar, this valve is ideal for the targeted release of hydrogen from storage tanks and is compatible with both 350 and 700 bar refueling technology.

Temporary data sheet

For further information please contact

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Functional Overview

Various pressure levels 12 V DC max. 700 bar
24 V DC max. 440 bar

Valve function 2/2 NC

Dimensions ~ 75 mm x Ø 35 mm

Temperature range -40° C to +85° C

Various pressure levels 12 V DC max. 700 bar
24 V DC max. 440 bar

Valve function 2/2 NC

Dimensions ~ 75 mm x Ø 35 mm



Technical Data

General Information

Number	811-500-9915	
Description	Solenoid for OTV	
Type valve body	Coil with variable housing	
Application area	Tank for hydrogen storage	
Min. ambient temperature	-40° C	different temperature ranges on request
Max. ambient temperature	+65° C	different temperature ranges on request
Options	customer interface	individually adaptable
Dimensions [mm]	55,5xM30x1,5 (solenoid size depending on pressure level)	individually adaptable to customer interface
Number	811-500-9915	
Description	Solenoid for OTV	

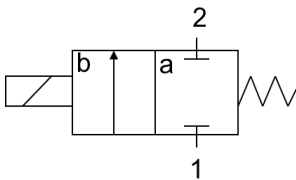
Valve is in the sample state.
Technical data show actual development status.
Document created in April 2024

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Electrical Data

Voltage type	DC	
Voltage	12V / 24V	
Control	with defined PWM	
Electrical connection	standard wire	different connectors available on request
IP protection	-	different types of protection class on request

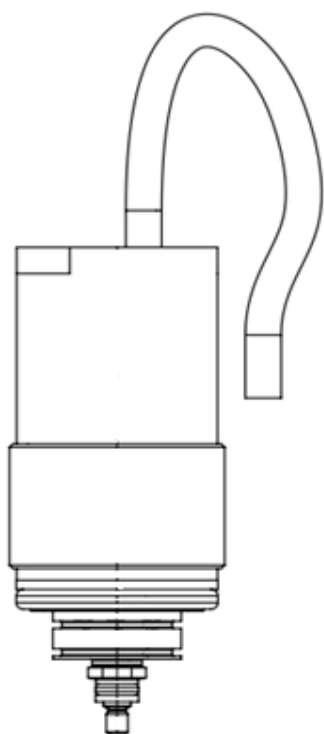
Pneumatic Data

Function	2/2 NC proportional	
Connection drawing		
Nominal size	0,4 [mm]	other nominal sizes on request
Operating pressure	440 / 875 [bara]	different pressure range on request
Test pressure	1400 [bara]	different pressure range on request
Switching cycles	> 200.000 ($\Delta p=30\text{bar}$)	
Leakage	minimal / ultra fine	
Media	hydrogen, air	further media on request

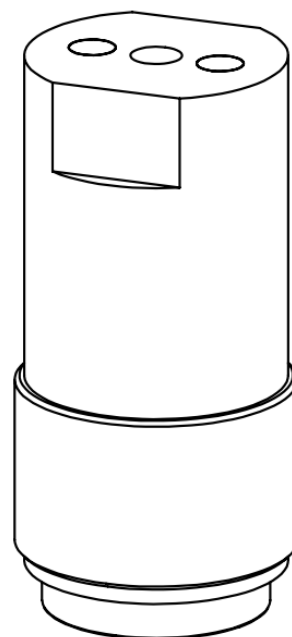
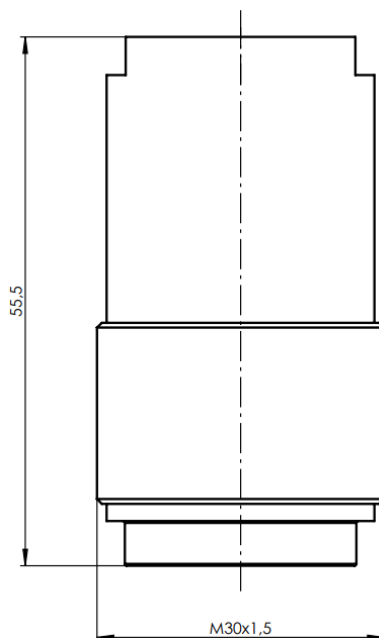
Norms and certifications

Approval	IATF 16949	further approvals on request
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Dimensions



Coil with varibale housing
(individually adaptable to customer interface)



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