

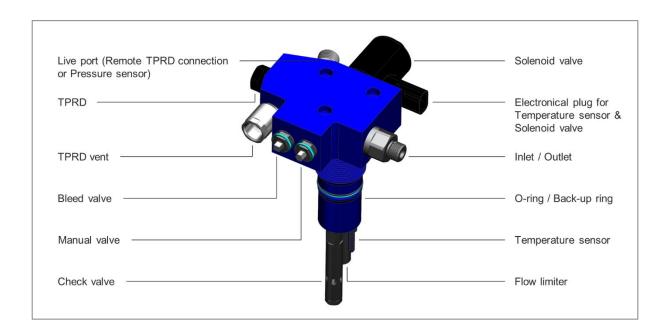
Product data sheet



TOPAQ On Tank Valve (OTV) Assembly 2.0

Item No 024099-A

Product specification

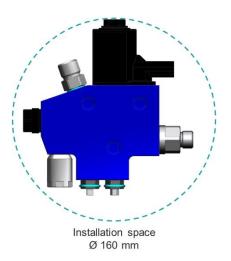


The **O**n **T**ank **V**alve (OTV) 024099-A is used to ensure safe fueling and defueling processes and the storage of gas in stationary and mobile deployed H₂ tanks.

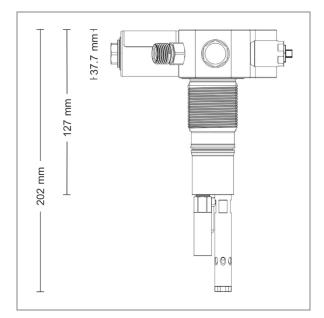
With its optimized modular design, it enables the compliance of individual customer requirements while simultaneously addressing relevant legal standards (UN/ECE R134, HGV 3.1).

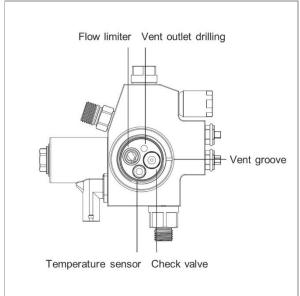


For installing the OTV, an installation space of 160 mm is required.



Technical features





conditions
Ø 160 mm
37.7 mm
202 mm
127 mm
approx. 1400 g
approx. 685 g
1½″-12 UNF
Aluminum, anodized
Metal-to-metal, O-Ring, PEEK
−40 to +85 °C
700 bar

1) For flow-optimized refueling	and	defueling,	the manual	
valve must be completely open.				

Maximum allowed working pressure

Kv value (Refueling | Defueling)1)

Leak rate (acc. UN/ECE R134)

Proof pressure

Medium

Attachment parts				
Technical data Operating conditions				
Solenoid valve				
Operating voltage	12 V or 24 V DC (PWM Signal)			
Temperature sensor				
Temperature element	Discrete NTC Thermistor			
Operating temperature	−60 to +150 °C			
Thermal Pressure Relief Device (TPRD)				
Trigger temperature	110±5 °C			
Min. Flow diameter	4.4 mm			
Flow limiter				
Activation flow rate (@ 20	bar / RT) 2.1 – 3.4 g/s			
Filter pore size (Inlet Out	let) 10 µm			
Check valve				
Cracking pressure	< 3 bar			
Sealing pressure	≥ 2 bar			
Manual valve Bleed valve activated by hexagon square				
Interfaces Thread definiti	ions Ports			
Live port: Remote TPRD of (optional Pressure sensor)				
Pipe connection (Inlet Ou				
Pipe connection (TPRD ve	ent) M16×1.5			

875 bar

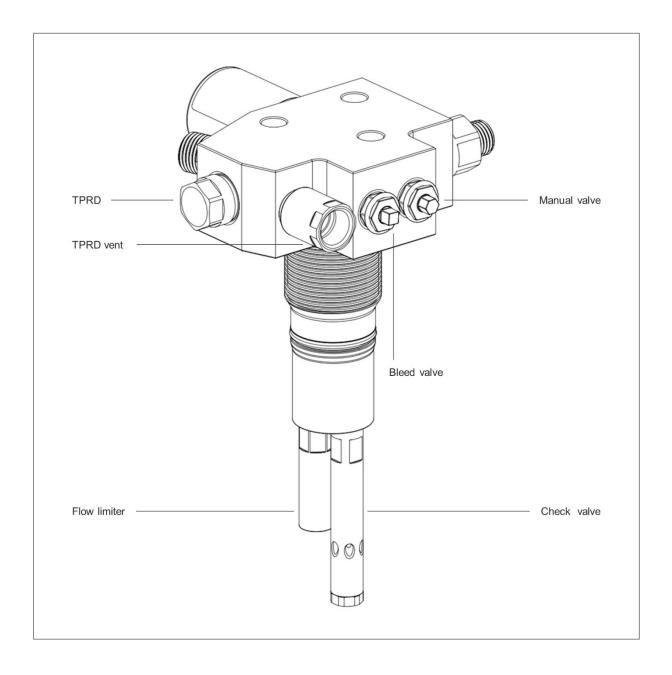
1050 bar

0.18 | 0.10

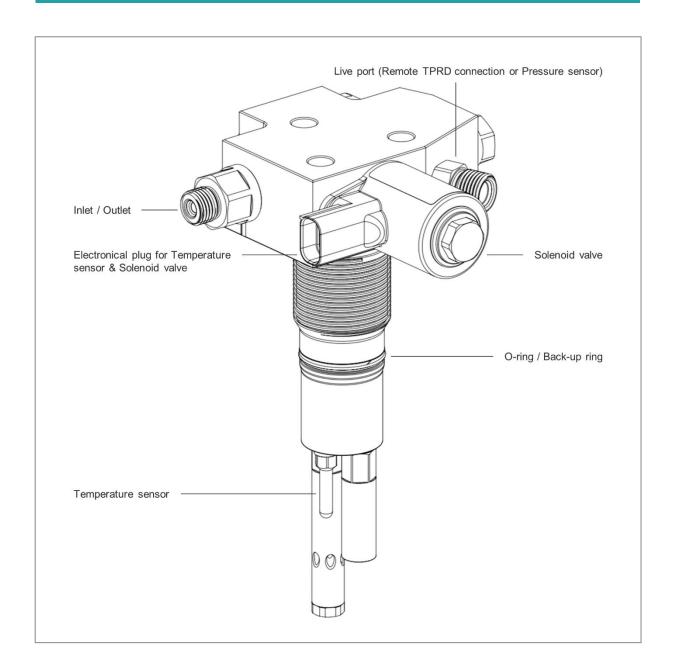
< 10 Ncm³/h

Hydrogen (CGH2)

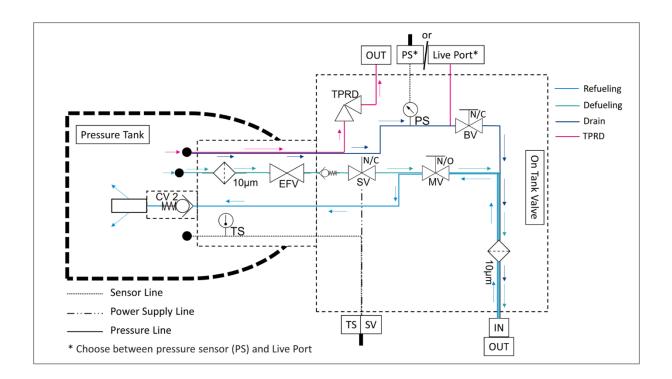
Technical features



Technical features



Circuit diagram



Certification & safety information

The product may only be used after installation by qualified personnel according to the corresponding installation guide. Usage for production of commercial goods is only permitted in certified countries. Otherwise, the product may only be used for testing purposes.

Certificates	
Europe	
UN/ECE R134	Certification pending
Greater China (China, Taiwan, Hong Kong, Macau)	
GB/T 35544-2017	Certification pending
North America (USA, Canada)	
HGV 3.1-2022	Certification pending

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