

Hydrogen Storage

MH5 Metal Hydride Tank

Metal hydride storage tank with a storage capacity of up to 5sl hydrogen.



Technical Specifications	
Dimensions (LxD) without valve	62mm x 18mm
Weight	app. 75g
Vessel Material	Stainless Steel
Storage Capacity	5sl (standard liter)
Connector	Valve with Push in adapter for 4mm tube
Charging Pressure	0.6-1.0 MPa
Discharge Pressure	0.2 MPa @ 20°C
Flow Rate	0.1sl/min (RT 20°C)
Recharge Time	<=30min, 20°C water bath
Product Description	Part#
Metal Hydride Storage Tank MH5	MH5

Specifications may change without prior notice.

MH8 Metal Hydride Tank

Metal hydride storage tank with a storage capacity of up to 8sl hydrogen.



Technical Specifications	
Dimensions (LxD) without valve	45mm x 25mm
Weight	app. 100g
Vessel Material	Stainless Steel
Storage Capacity	8sl (standard liter)
Connector	Valve with Push in adapter for 4mm tube
Charging Pressure	0.6 - 1.0 MPa
Discharge Pressure	0.2 MPa @ 20°C
Flow Rate	0.1sl/min (RT 20°C)
Recharge Time	<=30min, 20°C water bath
Product Description	Part#
Metal Hydride Storage Tank MH8	MH8

Specifications may change without prior notice.

Hydrogen Storage

MH10

Metal hydride storage tank with a storage capacity of up to 10sl hydrogen.



Technical Specifications	
Dimensions (LxD)	102mm x 22mm
Weight	90g
Vessel material	Aluminum alloy
Storage capacity	max. 10sl H ₂
Connector	M6 outer thread with integrated valve
Charging Pressure	10-30 bar
Recharge time	<=30min, 20°C water bath
Flow Rate	App.0.15sl/min at 20°C (ambient air)
Product Description	Part#
MH10 Storage tank	MH10

Specifications may change without prior notice.

MH20-02

Metal hydride storage tank with a storage capacity of up to 20sl hydrogen.



Technical Specifications	
Dimensions (LxD)	108mm x 25,4mm
Weight	180g
Vessel material	Aluminum alloy
Storage capacity	max. 20sl H ₂
Connector	M6 outer thread with integrated valve
Charging Pressure	10-30 bar
Recharge time	<=30min, 20°C water bath
Flow Rate	App.0.25sl/min at 20°C (ambient air)
Product Description	Part#
MH20 Storage tank	MH20-02

Loading Adapter Swagelok LA20-02 for MH10 and MH20-02

The Loading Adapter LA20-02 is designed to reload empty MH10/20-02 metal hydride storage tank with hydrogen (Quality 5.0). One port of the adapter connects to the MH tank while the other port is Swagelok QC4 Quick Connector (female) and can be connected with the optional LA-MH-T charging tube. Attention: Only qualified personnel is allowed to reload Metal hydride storage tanks.



LA20-02



LA-MH-T with 1,5m tube

Technical Specifications	
Material	Stainless Steel
Adapter	Swagelok QC4
Product Description	Part#
Loading adapter LA20-02	LA20-02
Charging Tube	LA-MH-T

Specifications may change without prior notice.

Hydrogen Storage

MHS-225N Metal Hydride Storage Tank

Metal hydride storage tank with a storage capacity of min 225sl hydrogen.



Certification

PI-marking – implies CE in stationary use

Delivery

Shipping charged with hydrogen, UN 3468, class 2.1 transport

Technical specifications

Dimensions (LxD)	425mm x 51mm
Weight	2,5kg (L2 and LC Legierung, L5 app. 3kg)
Vessel material	Stainless steel
Storage capacity	225sl H ₂
Valve	Stainless steel
Port Size	¼" NPT straight or 90° (optional Swagelok QC4 on request)
Discharge Pressure (25°C)	L2= 3-10 bar (standard) L5= 1,5-3bar LC= 8-15bar
Charge pressure	app. 5 bar above discharge pressure
Certification	PI Label (CE stationary use)

Product description

Product description	Part#
Metal Hydride Storage Tank MHS-225N	MHS-225N-L2 (optional L5 or LC)

Specifications may change without prior notice.

MHS-450N Metal Hydride Storage Tank

Metal hydride storage tank with a storage capacity of min 450sl hydrogen.

Certification

PI-marking – implies CE in stationary use

Delivery

Shipping charged with hydrogen, UN 3468, class 2.1 transport

Technical specifications

Dimensions (LxD)	350mm x 89mm
Weight	5,6kg (L2 and LC Legierung, L5 app. 6kg)
Vessel material	Stainless steel
Storage capacity	450sl H ₂
Valve	Stainless steel
Port Size	¼" NPT straight or 90° (optional Swagelok QC4 on request)
Discharge Pressure (25°C)	L2= 3-10 bar (standard) L5= 1,5-3bar LC= 8-15bar
Charge pressure	app. 5 bar above discharge pressure
Certification	PI Label (CE stationary use)

Product description

Product description	Part#
Metal Hydride Storage Tank MHS-450N	MHS-450N-L2 (optional L5 or LC)

Specifications may change without prior notice.

Hydrogen Storage

MHS-1000N Metal Hydride Storage Tank

Metal hydride storage tank with a storage capacity of min 1000sl hydrogen.

Certification
PI-marking – implies CE in stationary use

Delivery
Shipping charged with hydrogen,
UN 3468, class 2.1 transport



Technical specifications	
Dimensions (LxD)	530mm x 102mm
Weight	12kg (L2 and LC Legierung, L5 app. 13kg)
Vessel material	Stainless steel
Storage capacity	1000sl H ₂
Valve	Stainless steel
Port Size	¼" NPT straight or 90° (optional Swagelok QC4 on request)
Discharge Pressure (25°C)	L2= 3-10 bar (standard) L5= 1,5-3bar LC= 8-15bar
Charge pressure	app. 5 bar above discharge pressure
Certification	PI Label (CE stationary use)
Product description	Part#
Metal Hydride Storage Tank MHS-1000N	MHS-1000N-L2 (optional L5 or LC)

Specifications may change without prior notice.

MHS-1700N Metal Hydride Storage Tank

Metal hydride storage tank with a storage capacity of min 1700sl hydrogen.

Certification
PI-marking – implies CE in stationary use

Delivery
Shipping charged with hydrogen,
UN 3468, class 2.1 transport

Technical specifications	
Dimensions (LxD)	770mm x 102mm
Weight	18,5kg (L2 and LC Legierung, L5 app. 20kg)
Vessel material	Stainless steel
Storage capacity	1700sl H ₂
Valve	Stainless steel
Port Size	¼" NPT straight or 90° (optional Swagelok QC4 on request)
Discharge Pressure (25°C)	L2= 3-10 bar (standard) L5= 1,5-3bar LC= 8-15bar
Charge pressure	app. 5 bar above discharge pressure
Certification	PI Label (CE stationary use)
Product description	Part#
Metal Hydride Storage Tank MHS-1700N	MHS-1700N-L2 (optional L5 or LC)

Specifications may change without prior notice.

Hydrogen Storage

MHS-1000IHE Metal Hydride Storage Tank

Metal hydride storage tank with a storage capacity of min 1000sl hydrogen. IHE version with internal heat exchanger for increased flow rates.



Technical specifications	
Dimensions (LxD)	520mm x 115mm
Weight	13kg (L2 and LC Legierung, L5 app. 15kg)
Vessel material	Stainless steel
Storage capacity	1000sl H ₂
Valve	Brass
Port Size	¼" NPT straight or 90° (optional Swagelok QC4 on request)
Discharge Pressure (25°C)	L2= 3-10 bar (standard) L5= 1,5-3bar LC= 8-15bar
Charge pressure	app. 5 bar above discharge pressure
Certification	PI Label (CE stationary use)
Product description	Part#
Metal Hydride Storage Tank MHS-1000IHE	MHS-1000IHE-L2 (optional L5 or LC)

Specifications may change without prior notice.

Charging Tube for Metal Hydride Storage Tanks MHS-N and IHE series



(Pressure regulator not included)

Technical Specifications	
Length	app. 1.5m
Material	PTFE tube (OD 6mm) with stainless steel coating.
Interfaces	Single side Swagelok QC4 Quick Connector, single side ¼" NPT outer thread.
Product Description	Part#
Charging Tube	LA-MH-T

Specifications may change without prior notice.