



HYDROGEN APPLICATION SOLUTIONS BY UCT

Step into UCT Fluid Solutions' world of hydrogen and embark on a journey toward a cleaner, more sustainable future

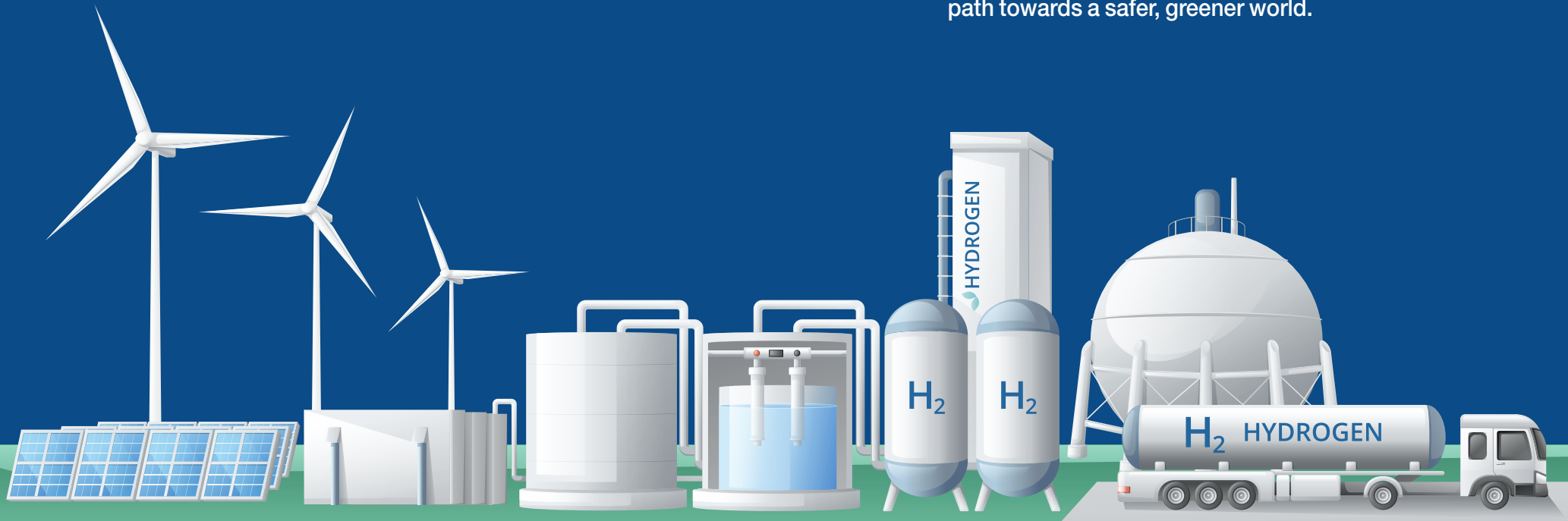


LET'S UNLEASH THE POTENTIAL OF HYDROGEN TOGETHER

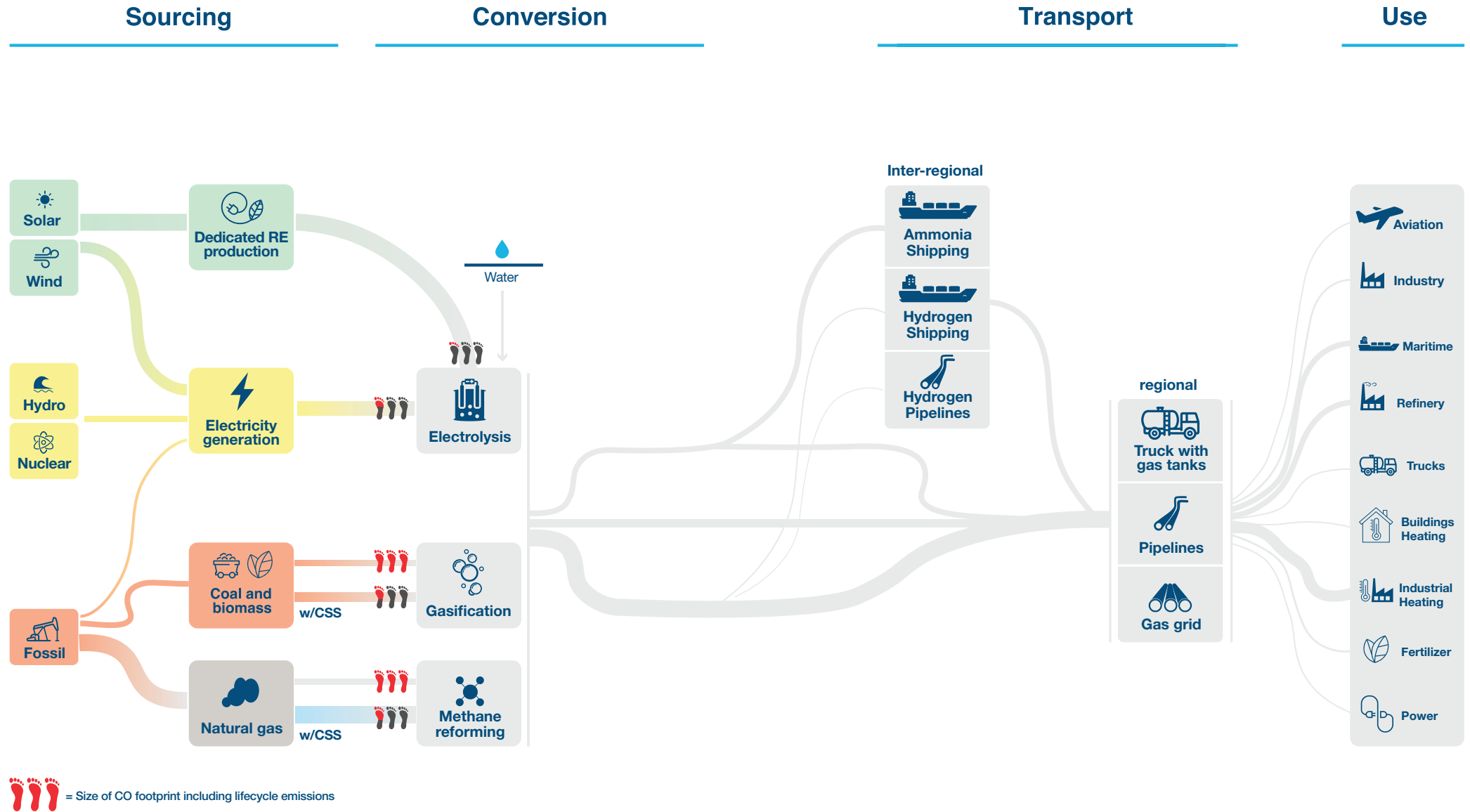
In the quest to drive the energy revolution forward, having a reliable partner by your side is crucial. We understand the challenges and opportunities that lie ahead as we transition towards a sustainable future. As a trusted and dedicated partner, we are here to support you every step of the way.

This brochure introduces our comprehensive range of solutions for a variety of applications. Our hydrogen-compatible components and systems enable safe and efficient operation.

Together, we can make a lasting impact, paving the path towards a safer, greener world.



HYDROGEN PRODUCTION FLOW



SOLUTIONS FOR ON BOARD VEHICLES

Applications from 30 to 350 bar (435 - 5,076 psi)



LET-LOK Compression Tube Fittings



Available Sizes	MWP	Temperature	Hydrogen Form
1/8" to 3/4" 6mm to 18mm	350 bar (5,076 psi)	-40°C to +120°C	Gas, Liquid



PIPELINE Precision Instrument Pipe Fittings



Available Sizes	MWP	Temperature	Hydrogen Form
1/8" to 3/4" 6mm to 18mm	350 bar (5,076 psi)	-40°C to +120°C	Gas, Liquid



SOLUTIONS FOR H₂ REFUELING STATIONS

Applications from 30 to 350 bar (435-5,076 psi)



Compliance to ASME B31.12

HIGH PERFORMANCE BALL VALVES H6800 Series



Available Sizes	MWP	Temperature	Operation	Hydrogen Form
1/8" to 1" 3mm to 25mm	413 bar (6,000 psi)	Up to 260°C (500°F)	Manual Pneumactical actuator Electrical actuator	Gas



HEAVY DUTY BALL VALVES H-1700 Series

Available Sizes	MWP	Temperature	Operation	Hydrogen Form
1/8" to 1" 6mm to 25mm	413 bar (6,000 psi)	Up to 260°C (500°F)	Manual	Gas



3 PEICE BALL VALVES H-500 Series



Available Sizes	MWP	Temperature	Operation	Hydrogen Form
1/8" to 2" 6mm to 50mm	206 bar (3,000 psi)	Up to 323°C (450°F)	Manual Pneumactical actuator Electrical actuator	Gas



SOLUTIONS FOR H₂ REFUELING STATIONS

Applications up to 4,134 bar (60,000 psi)



HIGH PRESSURE FITTINGS

HHP Series



Available Sizes	MWP	Temperature	Hydrogen Form
1/4", 3/8" and 9/16"	4,134 bar (60,000 psi)	-40°C to +120°C	Gas, Liquid

HIGH PRESSURE NEEDLE VALVES

HHP Series



Available Sizes	MWP	Temperature	Operation	Hydrogen Form
1/4", 3/8" and 9/16"	4,134 bar (60,000 psi)	Up to 140°F (60°C)	Manual Pneumactical actuator	Gas

HIGH PRESSURE CHECK VALVES

HHP Series



Available Sizes	MWP	Temperature	Operation	Hydrogen Form
1/4", 3/8" and 9/16"	4,134 bar (60,000 psi)	Up to 140°F (60°C)	Poppet, Ball	Gas

SOLUTIONS FOR GENERAL HYDROGEN APPLICATIONS

Components for general hydrogen applications at pressures from vacuum to 689 bar (10,000 psi).

FUGITIVE EMISSIONS FREE

EF Series



Available Sizes	MWP	Temperature	Operation	Hydrogen Form
1/8" to 1/2" 3mm to 12mm	206 bar (2,500 psi)	Up to 260°C (500°F)	Manual	Gas

HIGH PRESSURE TRUNNION BALL VALVES

TBV Series



Available Sizes	MWP	Temperature	Operation	Hydrogen Form
1/8" to 1/2" 3mm to 12mm	689 bar (10,000 psi)	Up to 230°C (446°F)	Manual Pneumactical actuator Electrical actuator	Gas

COMPACT ONE PIECE BALL VALVES

H-800 Series



Available Sizes	MWP	Temperature	Operation	Hydrogen Form
1/8" to 1/2" 3mm to 12mm	206 bar (3,000 psi)	Up to 149°C (300°F)	Manual Pneumactical actuator Electrical actuator	Gas

SOLUTIONS FOR GENERAL HYDROGEN APPLICATIONS

Components for general hydrogen applications at pressures from vacuum to 689 bar (10,000 psi).



BALL VALVES WITH LOCKING DEVICE H-700 Series



Available Sizes	MWP	Temperature	Operation	Hydrogen Form
1/8" to 1" 6mm to 25mm	137 bar (2,000 psi)	Up to 204°C (400°F)	Manual Pneumatical actuator Electrical actuator	Gas



HIGH PRESSURE NEEDLE VALVES H-99 Series

Compliance to ASME B31.12

Available Sizes	MWP	Temperature	Operation	Hydrogen Form
1/8" to 1" 6mm to 25mm	689 bar (10,000 psi)	Up to 648°C (1200°F)	Manual	Gas



INTEGRAL BONNETS NEEDLE VALVES H-300U Series



Available Sizes	MWP	Temperature	Operation	Hydrogen Form
1/8" to 1" 6mm to 25mm	345 bar (5,000 psi)	Up to 230°C (446°F)	Manual	Gas

SOLUTIONS FOR GENERAL HYDROGEN APPLICATIONS

Components for general hydrogen applications at pressures from vacuum to 689 bar (10,000 psi).



CHECK VALVES H-400 Series

Compliance to ASME B31.12

Available Sizes	MWP	Temperature	Hydrogen Form
1/8" to 1" 3mm to 25mm	413 bar (6,000 psi)	Up to 204°C (400°F)	Gas



RELIEF VALVES H-900 and H-900HP Series

Available Sizes	MWP	Temperature	Hydrogen Form
1/8" to 1/2" 6mm to 12mm	413 bar (6,000 psi)	Up to 148°C (300°F)	Gas



T-TYPE & IN-LINE FILTERS H-600 and H-600R series

Available Sizes	MWP	Temperature	Hydrogen Form
1/8" to 1/2" 6mm to 12mm	413 bar (6,000 psi)	Up to 120°C (248°F)	Gas

SOLUTIONS FOR GENERAL HYDROGEN APPLICATIONS

Components for general hydrogen applications at pressures from vacuum to 689 bar (10,000 psi).

EXCESS FLOW VALVES

H-911 Series



Available Sizes	MWP	Temperature	Hydrogen Form
1/8" to 1/2" 6mm to 12mm	413 bar (6,000 psi)	Up to 120°C (248°F)	Gas

We welcome you to get in touch with us and learn more about products that best suit your needs:
hl-info@uct.com

MANIFOLDS LINE

M-10, M-20, M-30, M-40 and M-50 Series



Available Sizes	MWP	Temperature	Operation	Hydrogen Form
1/8" to 1/2" 6mm to 12mm	413 bar (6,000 psi)	Up to 260°C (500°F)	Manual	Gas

