

## reliability under pressure

- Instrument Valves
- Transportation Valves
- DBB Valve Solutions
- Piping Valve Solutions
- Subsea Valve Solutions

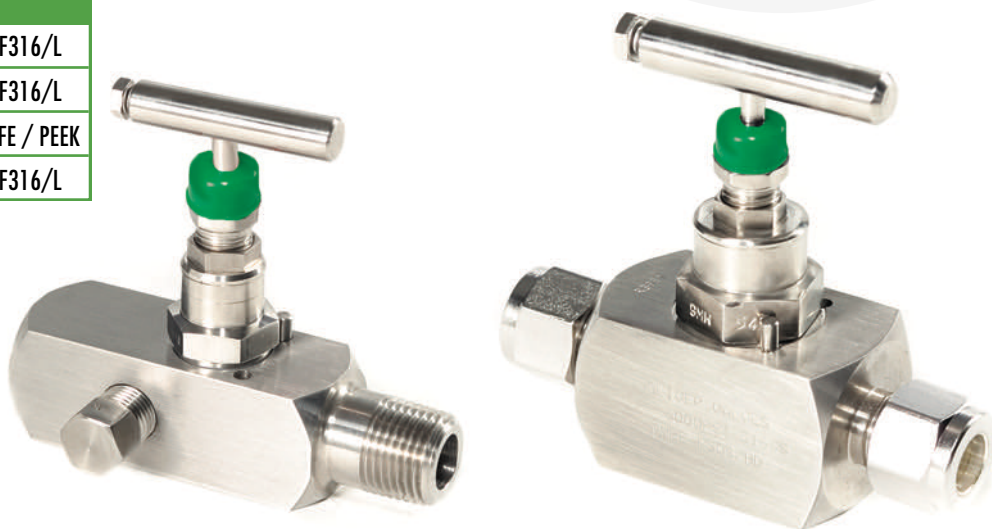
Valve performance verified by third party qualification using grade N3.0 purity hydrogen. Qualification includes requirements of ISO 15848-1 body and seat tests with hydrogen.



## NEEDLE & GAUGE VALVES

### MATERIALS

Body	ASTM A182 F316/L	
Bonnet	ASTM A182 F316/L	
Seat Material	Metal	PTFE / PEEK
Spindle	ASTM A182 F316/L	



### FEATURES

- Superior Fugitive Emission Stem Pack.
- Non-Rotating Tip.
- Anti-Static.
- Anti-blow out Spindle.
- Ingress of Dirt Protection.
- Seal housing locking mechanism.
- Materials of construction selected for specific hydrogen, natural gas and hydrogen blends or carbon dioxide application.

### QUALIFICATION

- Third party qualification tested with 99.9% pure Hydrogen.
- Fugitive Emission class BH.
- ISO 15848-1 endurance class :C01.
- Qualification tested to 410 cycles.

### SPECIFICATION

Design Pressure	690 bar
Design Temperature	-40 to +180 deg C
Traceability	ISO 10204 3.1 or 3.2

### CONNECTIONS

Threaded BSP or NPT	1/4", 3/8", 1/2", 3/4", 1"
Compression	6mm, 10mm, 12mm, 1/4", 3/8", 1/2"
Cone & Thread	1/4", 3/8", 9/16", 3/4", 1"

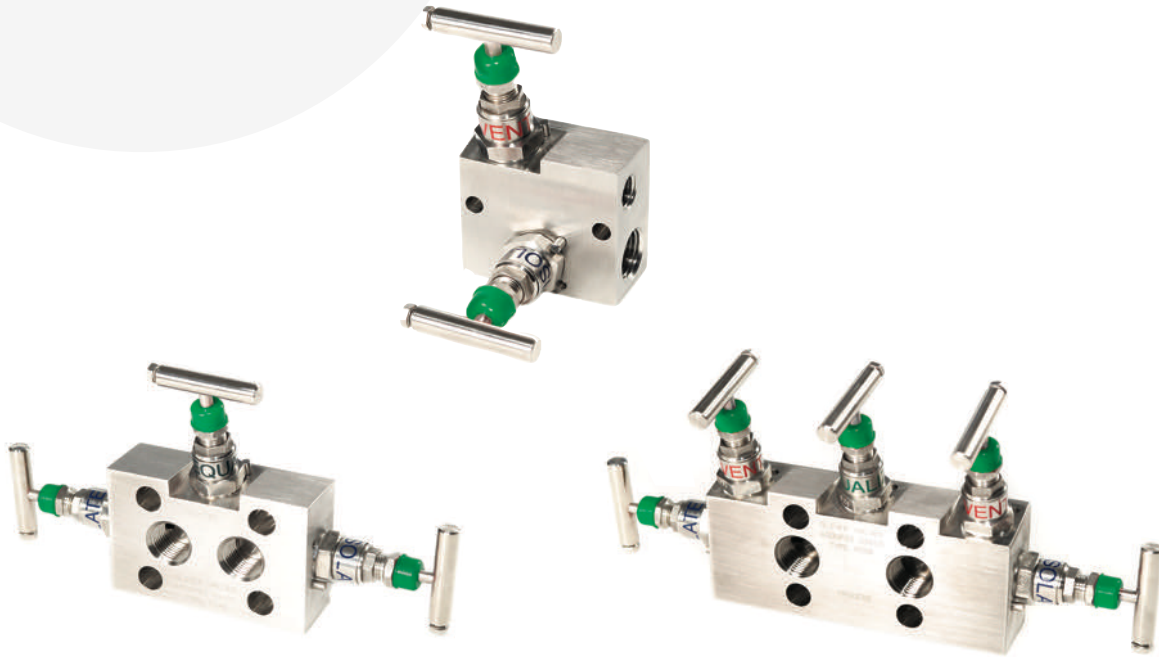


reliability  
under  
pressure

**oliver hydcovalves**

VALVES FOR HYDROGEN AND CARBON CAPTURE  
Hydrogen **Instrumentation** Range

2, 3 & 5 VALVE MANIFOLDS



FEATURES

- Superior Fugitive Emission Stem Pack.
- 2, 3 or 5 valve manifolds available.
- Suitable for gauge and differential pressure applications.
- Transmitter mounting seals and bolting available.
- Head unit positioned for ease of operation.
- Mounting holes and brackets available.
- Seal housing locking mechanism.
- Fugitive Emissions Gland Seal.

QUALIFICATION

- Third party qualification tested with 99.9% pure Hydrogen.
- Fugitive Emission class BH.
- Validated by qualification testing.
- ISO 15848-1 endurance class :C01.
- Qualification tested to 410 cycles.

Materials of construction selected for specific hydrogen, natural gas and hydrogen blends or carbon dioxide application.

SPECIFICATION

Design Pressure	414 or 690 bar
Design Temperature	-40 to +180 deg C
Qualification	ISO 15848-1 ISO10497 ISO
Traceability	10204 3.1 or 3.2
Configuration	2, 3 & 5 Valve

MATERIALS

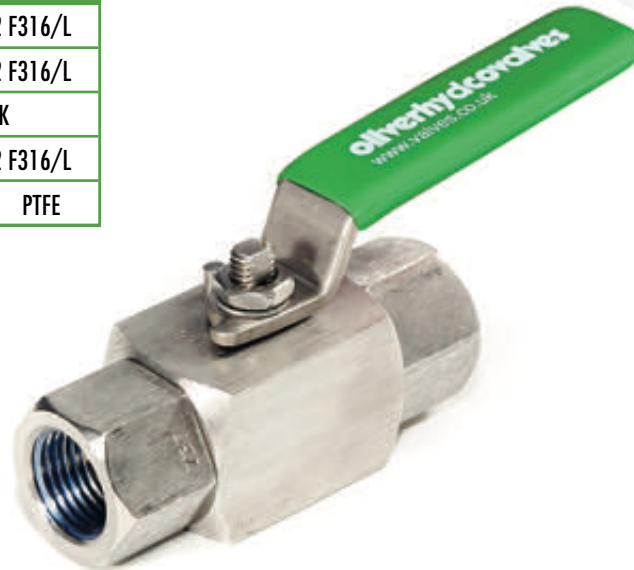
Body	ASTM A182 F316/L	
Bonnet	ASTM A182 F316/L	
Seat Material	Metal	PEEK
Spindle	ASTM A182 F316/L	



## INSTRUMENTATION BALL VALVES

### MATERIALS

Body	ASTM A182 F316/L	
Ball	ASTM A182 F316/L	
Seat Material	PEEK	
Spindle	ASTM A182 F316/L	
Gland Seal	PEEK	PTFE



### FEATURES

- Compact space saving.
- Superior Fugitive Emission Stem Pack.
- Bi-directional Soft Seated.
- Lever operation, actuated option available.
- Anti-Static.
- Self Relieving Seats.
- Anti-blow out Spindle.
- Precision Ground Ball.

### QUALIFICATION

- Third party qualification tested with 99.9% pure Hydrogen to an enhanced ISO 15848-1 procedure incorporating seat tests.
- Fugitive Emission class BH - third party verified.
- Validated by qualification testing.
- ISO 15848-1 endurance class :C01.

Materials of construction selected for specific hydrogen, natural gas and hydrogen blends or carbon dioxide application.

### SPECIFICATION

Design Pressure	690 bar
Design Temperature	-40 to +180 deg C
Bore Sizes	10mm, 14mm & 20mm
Traceability	ISO 10204 3.1 or 3.2

### CONNECTIONS

Threaded BSP or NPT	1/4", 3/8", 1/2", 3/4", 1"
Compression	6mm, 10mm, 12mm, 1/4", 3/8", 1/2"
Cone & Thread	1/4", 3/8", 9/16", 3/4", 1"



reliability  
under  
pressure

**oliver hydcovalves**

VALVES FOR HYDROGEN AND CARBON CAPTURE  
Hydrogen Fueling Range

TRANSPORTATION VALVES



FEATURES

- Compact space saving.
- Superior Fugitive Emission Stem Pack.
- Bi-directional Soft Seated.
- Lever operation, actuated option available.
- Anti-Static.
- Self Relieving Seats.
- Anti-blow out Spindle.
- Precision Ground Ball.

QUALIFICATION

- Qualification tested to ISO 19880-3:2018.
- Fugitive Emission class BH - third party verified.
- ISO 15848-1 endurance class :C01.
- Qualification tested to 102,000 Cycles.

Materials of construction selected for specific hydrogen, natural gas and hydrogen blends or carbon dioxide application.

SPECIFICATION

Design Pressure	350 & 690 bar
Design Temperature	-40 to +85 deg C
Bore Sizes	10mm, 14mm & 20mm
Traceability	ISO 10204 3.1 or 3.2

CONNECTIONS

Threaded BSP or NPT	1/4", 3/8", 1/2", 3/4", 1"
Compression	6mm, 10mm, 12mm, 1/4", 3/8", 1/2"
Cone & Thread	1/4", 3/8", 9/16", 3/4", 1"



reliability  
under  
pressure

**oliver hydcovalves**

VALVES FOR HYDROGEN AND CARBON CAPTURE  
Hydrogen **DBB** Range

**MATERIALS**

Body	ASTM A182 F316/L	
Ball	ASTM A182 F316/L	
Seat Material	Metal	PEEK
Spindle	ASTM A182 F316/L	
Gland Seal	PEEK	PTFE

**INSTRUMENT MONOFLANGE,  
SLIMLINE VALVES & DOUBLE  
BLOCK & BLEED VALVES**



**FEATURES**

- Compact double block and bleed design.
- Suitable for panel mounting or direct pipeline mounting.
- Panel mounting options with suitable mounting holes.
- Levers positioned for ease of operation.
- Available in three ball or ball and needle valve configurations.
- Locking options available.

**QUALIFICATION**

- Third party qualification tested with 99.9% pure Hydrogen to an enhanced ISO 15848-1 procedure incorporating seat tests.
- Fugitive Emission class BH - third party verified.
- Validated by qualification testing.
- ISO 15848-1 endurance class :C01.
- Third party qualification tested to 410 cycles with 99.9% pure Hydrogen.

**SPECIFICATION**

Design Pressure	690 bar
Design Temperature	-40 to +180 deg C
Bore Sizes	5.4mm, 10mm, 14mm & 20mm
Qualification	ISO 15848-1 ISO10497 AP16FA
Traceability	ISO 10204 3.1 or 3.2

**CONNECTIONS**

Threaded BSP or NPT	1/4", 3/8", 1/2", 3/4", 1"
Compression	6mm, 10mm, 12mm, 1/4", 3/8", 1/2"
Flanged	ASME B16.5



[www.valves.co.uk](http://www.valves.co.uk)

## FLOATING & TRUNNION BALL VALVES SINGLE, DOUBLE AND DOUBLE BLOCK & BLEED



### FEATURES

- Compact Space Saving.
- Superior Fugitive Emission Stem Pack.
- Bi-directional Soft Seats.
- Bi-directional true double isolation.
- Gearbox operations standard, actuator option available.
- Anti-Static.
- Self Relieving Seats.
- Anti-blow out Spindle.
- True Double Isolation.
- Double piston effect seat options available.

### BENEFITS

- Bespoke designs available to reduce space and costs.
- Single or double isolation options available.
- Validated by qualification testing.
- Metal seated leakage rate A available.
- Endurance tested incorporating ISO 15848-1 with third party witness.
- ASME B16.10 face to face dimensions.

### SPECIFICATION

Design Pressure	ASME 150 - 2500
Design Temperature	-40 to +121 deg C
Bore Sizes	1" Thru 18"
Traceability	ISO 10204 3.1 or 3.2

### MATERIALS

Body	ASTM A182 F316/L
Ball	ASTM A182 F316/L
Seat Material	Soft & Metal
Spindle	ASTM A182 F316/L

Materials of construction selected for specific hydrogen, natural gas and hydrogen blends or carbon dioxide application.



# people creating positive change with valve solutions in the global energy sector

The four Oliver Valves companies have a reputation for innovative design and technical excellence, gained over many years of supplying into the harsh and hostile environment of the North Sea and beyond. Many of the world's principal operators and contractors are regular users of our well proven products.

Recognising that industry as a whole, not just the energy sector, now faces the challenge of transitioning to a future with net zero emissions, **Oliver Hydcovalves Ltd** became the latest addition to the Oliver family. Incorporated with the primary objective of providing valve technologies that support the net zero emission targets of industrial users, the company will build on the decades of expertise held within the Oliver companies.



New Purpose Built Hydcovalves Factory



Oliver Research & Development



Oliver Valves India



Oliver Training Centre

Oliver Valves India Private Limited,  
No 13 Vellanur Village, Avadi Taluk (Previously  
Ambattur Taluk), Chennai, Tiruvallur, Tamil Nadu,  
600062

Oliver Hydcovalves Limited Parkgate Industrial Estate  
Knutsford Cheshire WA16 8DX England  
T +44 (0)1565 632 636 F +44 (0)1565 654 089  
E [sales@valves.co.uk](mailto:sales@valves.co.uk) [www.valves.co.uk](http://www.valves.co.uk)



[www.valves.co.uk](http://www.valves.co.uk)

Continuous development in Oliver Valves products may necessitate changes in the details contained in this brochure  
Oliver Valves Ltd reserve the right to effect such changes at their discretion without prior notice.

CAT OHV Rev IND 12-25