THE QUEEN'S AWARDS FOR ENTERPRISE: INTERNATIONAL TRADE 2022

oliervalvetek

WORLD LEADERS IN SUB-SEA VALVE TECHNOLOGY SOLUTIONS









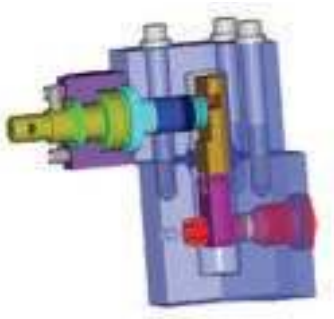




reliability under pressure

- Deep Water Gate Valves
- Manual Actuation Gate Valves
- Hydraulic Actuation Gate Valves
- Half Turn Gate Valves
- Ball Valves - Floating/Trunnion
- Needle Valves - Standard, Medium & Heavy Duty
- Check & Relief Valves

www.valves.co.uk



Manual Gate Valve 3D Model



Oliver Valvetek

Multi-awarding winning Oliver Valvetek has provided engineered-to-order gate valves, ball valves, needle valves and instrumentation products for subsea completions worldwide since its conception in 1994. Together with its sister companies Oliver Valves and Oliver Twinsafe Valves, Valvetek is experienced in providing extensive field-proven flexible valve solutions for oil and gas applications from extraction through to processing. We are fully familiar with the requirements of the National, Major and Independent Oil and Gas Operators, Contractors and OEM's throughout the world.

Excellent HSE, Quality and Delivery Performance

We are extremely proud of our product and level of customer service and together with our ISO 9001 quality management system, our state-of-the-art computerised ERP and ARP systems, and highly trained and passionate work force; we consistently achieve industry leading HSE, Quality and Delivery Performance, which is often at 100%.

By forming strong relationships, built on trust and respect for all our highly valued and respected team members, customers and suppliers, we seek continual feedback to strive for continuous improvement. It is not unusual for us to enter into Supply Agreements and Strategic Stocking Programmes for mutual benefit, which in turn increases product quality, whilst reducing costs and lead times.

We are highly experienced with pre-production meetings and project management, and actively encourage customer visits. This has resulted in a number of industry respected awards, the most recent being in recognition of our Quality and Delivery Excellence in executing the Total Pazflor subsea project as our Customer's top supplier.

Documentation

Oliver Valvetek understands the criticality of documentation and we are fully conversant in providing tailored documentation packages, many of which are project specific. Document packages can be supplied to your exact requirements with Quality Plans, Inspection and Test Plans, fully component material traceability and Manufacturing Record Books.

Specific general arrangement, cross sectional and parts lists, Independent Review Certificates (IRC), hydrostatic and pneumatic pressure test certificates, heat treatment certificates, certificates of conformity, material certificates, hardness reports, weld procedure specifications and weld procedure qualification records and welder operator qualifications.

In House Facilities

As our product is used in ultra deep ocean environments and high temperature, high pressure applications we appreciate that the continuous reliability of our product is of the upmost importance.

Always striving for perfection, we constantly utilise the latest available technologies including computer aided design and 3D modelling packages, FEA and FMECA to push technological boundaries.

Our excellent reputation has been built on our attention to detail, our highly efficient and lean operation, and the extensive array of in-house testing facilities that we offer, all of which have been designed to provide you the customer with significant confidence that our highly innovative products will perform subsea without compromise throughout the design life of your project.

We have full Research and Development facilities in-house and our valves are subject to full PR2 temperature and hyperbaric testing to simulate the valve life cycle performance at an equivalent of up to 10,000 feet water depth.



In-house PR2 Endurance Rig



In-house Clean Room Facilities

To aid reliability yet further our product valve components are all subjected to ultrasonic cleaning which improves the pre-assembly and as-built cleanliness of the product and minimises any potential contamination risk.

We also have a filtered positive pressure ventilated clean room within our facilities, which is extensively used for gate valve actuator and valve assembly.

Valve components are subjected to full hardness testing to ASTM E10 and E18, and all valves are subjected to full factory acceptance testing (hydrostatic and pneumatic) and flushed to SAE AS4059 Class 6-BF (ISO 4406) as a minimum prior to despatch.

Materials Technology

Oliver are also at the leading edge of materials technology and perform full mechanical and chemical analysis including charpy impact testing and metallurgical examination (where required by the customer). Extensive NDE processes are also conducted by our operatives to ASNT Level II and PCN Level II and include Liquid Dyepenetrant Inspection, Magnetic Particle Inspection and Positive Material Identification.

Our extensive material experience allows us to coordinate the requirements of our customers so that we are able to utilise dedicated basket material suppliers, which in turn reduces material lead time, whilst maintaining a consistently high specification level which meets or exceeds customer requirements.

Global Representation

With a large number of Oliver facilities and personnel strategically located throughout the globe, you can be assured of a truly professional and highly personal level of customer service.

Contacting Us

By contacting us at the early stages of a project, Oliver Valvetek can draw on its vast experience and bring technical and commercial know-how into the equation.

In many instances this has saved the contractor or end user valuable design and construction time, leading to obtaining oil or gas much sooner and thus achieving a far quicker return on their investment.



One of the many in-house Testing Stations



In-house Coordinate - Measuring Machine CMM

3/4” & 1” DEEPWATER SUBSEA GATE VALVE

KEY FEATURES

- Successfully completed the PR2 Performance Verification Test of API 6A Appendix F and API 17D 2nd Edition Section 5.1.7.
- The stem seal is a unique Moly filled PTFE multi-ring chevron style gland set incorporating two spring energised ‘U’ cup seals.
- Metal to Metal seals between seat to gate, seat to body, body to bonnet and backseat.
- Wave spring behind seats provide low pressure sealing and protects the valve cavity from debris.
- Hydraulically operated actuator can be supplied with or without override.
- Override design does not compress the spring during opening, minimising the torque to operate.
- Clear position indication during both hydraulic and override operation.
- Uninterrupted flow passage through valve.
- Standard certification for pressure retaining and controlling parts are to API 6A PSL 3 and BS EN 10204.



TECHNICAL SPECIFICATION

- Bore size, 3/4” [19mm] and 1” [25mm].
- Pressure rating, 15,000 PSI [1034 BAR].
- Hyperbarically tested to a water depth of 10,000ft [3050m].
- Performance tested to PR2 for Temperature Classifications P through X (-20°F/-29°C to +350°F/177°C).
- Available in API Material Classes FF and HH to NACE MR-01-75 latest rev.

OPERATOR

- Fail Close as standard. (Fail Open option available).
- Normal Override Operating Torque 100ft-lbf [136Nm].
- Override Torque to Damage 300ft-lbf [407Nm]
- Actuator is designed to operate with control pressures of 3000 PSI [207 BAR] or 5000 PSI [345 BAR].

3/4” & 1” MULTI-TURN MANUAL GATE VALVE

reliability under pressure



KEY FEATURES

- Successfully completed the PR2 Performance Verification Test of API 6A Appendix F and API 17D 2nd Edition. Testing included a 1200 cycle endurance test at full differential design pressure.
- Dual stem seal arrangement. The primary gland is a unique Moly filled PTFE multi-ring chevron style gland incorporating two spring energised ‘U’ cup seals. The secondary gland is a spring energised, Moly filled ‘U’ cup seal. Both seals were tested independently during qualification.
- Stem has fully functional Metal-to-Metal back seat when valve is in the fully closed position.
- Metal-to-Metal seal between Seat to Gate, Seat to Body and Body to Bonnet.
- By design, the drive train failure point is external of valve.
- Position indication system provides anchorage for indicator plate or for push-pull type indication system.
- Drive train safety factor when compared to Nominal operating torque is well in excess of 5 to 1.
- Unique sprung non-elastomeric seal behind seat provides low pressure sealing and protects the valve cavity from debris.
- Slab Gate design offers uninterrupted flow passage through valve bore.
- Standard material certification for pressure retaining and controlling parts are to API 6A PSL3 and BS EN 10204 3.1 (3.2 option available).

TECHNICAL SPECIFICATION

- Bore Size: ¾” & 1” [19mm & 25mm].
- Pressure Rating: 15,000 PSI [1035 BAR].
- Depth Rating: Hyperbarically tested to a water depth of 10,000ft [3050m].
- Temp Rating: PR2 Tested at temperatures between -29°C [-20°F] and 150°C [302°F].
- Materials: Available in API Material classes FF and HH to NACE MR-01-75 latest Rev..

OPERATOR

- Nominal operating Torque: 75 lbf-ft [102 N-m].
- Max. Design Torque: 200 lbf-ft [271 N-m].
- Torque to failure: 400 lbf-ft [542 N-m].
- Crossbar option for diver operation.
- Stem can be provided with various geometry to suit extension rods or ROV interface.
- Can be supplied with direct mount ROV receptacle.

3/4” MEDIUM DEPTH HYDRAULICALLY ACTUATED GATE VALVE

reliability under pressure

KEY FEATURES

- Successfully completed the PR2 Performance Verification Test of API 6A Appendix F and API 17D 2nd Edition Section 5.1.7.
- The stem seal is a unique Moly filled PTFE multi-ring chevron style gland set incorporating two spring energised ‘U’ cup seals.
- Metal to Metal seals between seat to gate, seat to body, body to bonnet and backseat.
- Unique sprung non-elastomeric seal behind seat provide low pressure sealing and protects the valve cavity from debris.
- Hydraulically operated actuator can be supplied with or without override.
- Clear position indication during both hydraulic and override operation.
- Uninterrupted flow passage through valve.
- Fire tested option to API6FA 3rd Edition for 3000 PSI [207 BAR] or 5000 PSI [345 BAR] applications.
- Standard certification for pressure retaining and controlling parts are to API 6A PSL 3 and BS EN 10204.



TECHNICAL SPECIFICATION

- Bore size, 3/4” [19mm].
- Pressure rating, 15,000 PSI [1034 BAR].
- Three actuator options hyperbarically tested to water depths of 1,800ft [550m], 4,500ft [1370m], 6,890ft [2100m] and 10,000ft [3050m].
- Performance tested to PR2 for Temperature Classifications P through X (-20°F/-29°C to +350°F/177°C).
- Available in API Material Classes FF and HH to NACE MR-01-75 latest rev.

OPERATOR

- Fail Close as standard. (Fail Open option available).
- Normal Override Operating Torque 120ft-lbf [165Nm], 6 turns.
- Override Torque to Damage 250ft-lbf [340 Nm].
- Actuator is designed to operate with control pressures of 3000 PSI [207 BAR] or 5000 PSI [345 BAR].

ACTUATED GATE VALVES FOR SAFETY INTEGRITY LEVEL APPLICATIONS

reliability under pressure



KEY FEATURES

- Safety Integrity Level 2 rating.
- Independent third party approval.
- Dual electrical position indication.
- Successfully completed validation testing which included API 6A Appendix F PR2 performance test and API 17D second edition life cycle test.

TECHNICAL SPECIFICATION

- Bore size, 3/4" [19mm].
- Pressure rating, 10,000 PSI [690 BAR].
- Hyperbarically tested to water depth of 6,890ft (2100m).
- API 6A PR2 Validation testing between -20°F (-29°C) to +302°F (150°C).

1/2" ROTARY GATE VALVE



KEY FEATURES

- Bi-directional, gate valve.
- Metal to Metal Destec seal between body and bonnet.
- Tungsten Carbide metal to metal sealing between rotor and seating surface.
- Dual spring energised polymeric lip seal multi-pack gland seal.
- Precision bearings take up the stem thrust load, reducing operating torques to a minimum.
- If stop pins shear due to overtorque, the valve internals will not be damaged and the valve can still be open and closed.
- Quarter turn 90 degrees, ideal for position indication.
- Uninterrupted flow passage through the rotor rather than around the spindle.
- Standard certification for pressure retaining and controlling parts are to API 6A PSL 3 and BS EN 10204.

TECHNICAL SPECIFICATION

- Bore size, 1/2" [13mm].
- Pressure rating, 15,000 PSI [1034 BAR].
- Hyperbarically tested to a water depth of 10,000ft [3050m].
- Performance tested to API 6A class PX -20 to +350°F [-29° to +177°C].
- API 17D standard, API 6A PSL3 PR2, NACE MR-01-75.
- Available in classes FF and HH material options.

OPERATOR

- Normal torque to operate <55ft-lbf [75 Nm] with low or high torque torque tools, through 1/4 turn 90 degrees.
- Torque to Damage >300ft-lbf [407 Nm].
- ROV operation.

HALF TURN DEEPWATER MANUALLY ACTUATED GATE VALVE RANGE

reliability under pressure



KEY FEATURES

- Successfully completed the PR2 Performance Verification Test of API 6A Appendix F and API 17D 2nd Edition Section 5.1.7.
- The stem seal is a unique Moly filled PTFE multi-ring chevron style gland set incorporating two spring energised 'U' cup seals.
- Metal to Metal seals between seat to gate, seat to body, body to bonnet and backseat.
- Wave spring behind seats provide low pressure sealing and protects the valve cavity from debris.
- Precision needle roller bearings take up the stem thrust load, reducing operating torques to a minimum.
- Half turn operation provides simple position indication.
- If stop pin shears due to overtorque, the valve internals will not be damaged and the valve can still be open and closed.
- Uninterrupted flow passage through valve.
- Unique bonnet design allows 4 alternative stem positions to align with ROV docking panel.
- Standard certification for pressure retaining and controlling parts are to API 6A PSL 3 and BS EN 10204.

TECHNICAL SPECIFICATION

- Bore size, 3/8" [10mm], 1/2" [13mm], 3/4" [19mm] and 1" [25mm].
- Pressure rating, 15,000 PSI [1034 BAR].
- Hyperbarically tested to water depths of 10,000ft [3050m].
- Performance tested to PR2 for Temperature Classifications P through X (-20°F/-29°C to +350°F/177°C).
- Available in API Material Classes FF and HH to NACE MR-01-75 latest rev.

OPERATOR

- Normal Operating Torque Range 50ft-lbf [68Nm] to 120ft-lbf [163Nm], 180 degrees.
- Torque to Damage upto 650ft-lbf [880 Nm].
- Stem adaptors to suit ROV extension rods and ROV handles.

LIGHT DUTY NEEDLE VALVES



KEY FEATURES

- Successfully completed the PR2 Performance Verification Test of API 6A Appendix F and API 17D.
- The stem seal is a unique Moly filled PTFE multi-ring chevron style gland set incorporating two spring energised 'U' cup seals.
- Metal to Metal tip to body seal and backseat.
- Rolled operating threads take up the stem thrust load, reducing operating torques to a minimum.
- Non-rotating tips, ensuring positive non-galling operation during shut-off.
- Standard certification for pressure retaining and controlling parts are to API 6A PSL 3 and BS EN 10204.

TECHNICAL SPECIFICATION

- Bore size, 1/4" [6mm].
- Pressure rating, 10,000 PSI [690 BAR].
- Hyperbarically tested to water depths of 10,000ft [3050m].
- Performance tested to PR2 for Temperature Classifications P through U (-20°F/-29°C to +250°F/120°C).
- Available in API Material Classes FF to NACE MR-01-75 latest rev.

OPERATOR

- Normal Operating Torque 5ft-lbf [7Nm], 3 turns.
- Torque to Damage 20ft-lbf [27 Nm].
- Crossbar or teebar options for divers. Blue and yellow colours available to assist identification.

STANDARD DUTY NEEDLE VALVES



KEY FEATURES

- Successfully completed the PR2 Performance Verification Test of API 6A Appendix F and API 17D 2nd Edition Section 5.1.7.
- The stem seal is a unique Moly filled PTFE multi-ring chevron style gland set incorporating two spring energised 'U' cup seals.
- Metal to Metal tip to body seal and backseat.
- Rolled operating threads take up the stem thrust load, reducing operating torques to a minimum.
- Non-rotating tips, ensuring positive non-galling operation during shut-off.
- Standard certification for pressure retaining and controlling parts are to API 6A PSL 3 and BS EN 10204.

TECHNICAL SPECIFICATION

- Bore size, 3/8" [10mm] or 1/2" [13mm].
- Pressure rating, 15,000 PSI [1034 BAR].
- Hyperbarically tested to water depths of 10,000ft [3050m].
- Performance tested to PR2 for Temperature Classifications P through X (-20°F/-29°C to +350°F/177°C).
- Available in API Material Classes FF and HH to NACE MR-01-75 latest rev.

OPERATOR

- Normal Operating Torque 20ft-lbf [27Nm], 7 turns.
- Torque to Damage upto 155ft-lbf [210 Nm].
- Crossbar or teebar options for divers. Blue and yellow colours available to assist identification.
- Stem adaptors to suit ROV extension rods and ROV handles.

MEDIUM DUTY NEEDLE VALVES

reliability under pressure



KEY FEATURES

- Successfully completed the PR2 Performance Verification Test of API 6A Appendix F and API 17D 2nd Edition Section 5.1.7.
- The stem seal is a unique Moly filled PTFE multi-ring chevron style gland set incorporating two spring energised 'U' cup seals.
- Metal to Metal tip to body seal and backseat.
- Rolled operating threads take up the stem thrust load, reducing operating torques to a minimum.
- Non-rotating tips, ensuring positive non-galling operation during shut-off.
- Standard certification for pressure retaining and controlling parts are to API 6A PSL 3 and BS EN 10204.

TECHNICAL SPECIFICATION

- Bore size, 1/2" [13mm] or 3/4" [19mm].
- Pressure rating, 15,000 PSI [1034 BAR].
- Hyperbarically tested to water depths of 10,000ft [3050m].
- Performance tested to PR2 for Temperature Classifications P through X (-20F/-29C to +350F/177C).
- Available in API Material Classes FF and HH to NACE MR-01-75 latest rev.

OPERATOR

- Normal Operating Torque 30ft-lbf [40Nm], 5 turns.
- Normal Operating Torque 100ft-lbf [136Nm], 0.75 turns.
- Torque to Damage 300ft-lbf [405 Nm].
- Crossbar or teebar options for divers. Blue and yellow colours available to assist identification.
- Stem adaptors to suit ROV extension rods and ROV handles.

MEDIUM DUTY NEEDLE VALVES FOR NON CP APPLICATIONS



KEY FEATURES

- Successfully completed validation testing which included API 6A Appendix F PR2 performance test and API 17D second edition life cycle test.
- The stem seal is a unique Moly filled PTFE multi-ring chevron style seal pack with spring energised lip seal.
- Metal to metal body to bonnet seal.
- Metal to metal spindle tip to body seal.
- Dual environmental sealing system.
- All metallic seawater wetted parts are manufactured from API 6A CRA materials.
- Three quarter turn operation provides simple position indication.
- Precision ACME threads minimises operational torques.

OPERATOR

- Nominal operating torque, 100ft-lbf [136Nm].
- Torque to Failure, 550ft-lbf [745Nm].
- Multiple stem adaptors available to suit ROV extension rods and ROV handles.

TECHNICAL SPECIFICATION

- Bore size, 3/8" [10mm].
- Pressure rating, 15,000 PSI [1034 BAR].
- Hyperbarically tested to water depth of 10,000ft [3050m].
- API 6A PR2 Validation testing between -20ºF (-29ºC) to +350ºF (177ºC).

HP/HT NEEDLE VALVES



KEY FEATURES

- Successfully completed validation testing which included API 6A Appendix F PR2 performance test and API 17D second edition life cycle test.
- The stem seal is a unique Moly filled PTFE multi-ring chevron style seal pack with spring energised lip seal.
- Metal to metal body to bonnet seal.
- Metal to metal spindle tip to body seal.
- FFKM environmental sealing system.
- Three quarter turn operation provides simple position indication.
- Precision ACME threads minimises operational torques.

OPERATOR

- Nominal operating torque, 100ft-lbf [136Nm].
- Torque to Failure, 360ft-lbf [488Nm].
- Multiple stem adaptors available to suit ROV extension rods and ROV handles.

TECHNICAL SPECIFICATION

- Bore size, 3/8" [10mm].
- Pressure rating, 20,000 PSI [1550 BAR].
- Hyperbarically tested to water depth of 10,000ft [3050m].
- API 6A PR2 Validation testing between -20ºF (-29ºC) to +400ºF (204ºC).

HEAVY DUTY NEEDLE VALVES

reliability under pressure



KEY FEATURES

- Successfully completed the PR2 Performance Verification Test of API 6A Appendix F and API 17D 2nd Edition Section 5.1.7.
- The stem seal is a unique Moly filled PTFE multi-ring chevron style gland set incorporating two spring energised 'U' cup seals.
- Metal to Metal tip to body seal and backseat.
- Three quarter turn operation provides simple position indication.
- Precision Acme threads take up the stem thrust load, reducing operating torques to a minimum.
- Non-rotating tips, ensuring positive non-galling operation during shut-off.
- Standard certification for pressure retaining and controlling parts are to API 6A PSL 3 and BS EN 10204.

TECHNICAL SPECIFICATION

- Bore size, 3/8" [10mm] as three quarter turn (0.75) option, 3/4" [19mm] or 1" [25mm].
- Pressure rating, 15,000 PSI [1034 BAR].
- Hyperbarically tested to water depths of 10,000ft [3050m].
- Performance tested to PR2 for Temperature Classifications P through X (-20°F/-29°C to +350°F/177°C).
- Available in API Material Classes FF and HH to NACE MR-01-75 latest rev.

OPERATOR

- Normal Operating Torque 55ft-lbf [75Nm], 3 turns (3/4" or 1" bore).
- Torque to Damage 500ft-lbf [670 Nm].
- Crossbar options for divers.
- Stem adaptors to suit ROV extension rods and ROV handles.

FLOATING TYPE BALL VALVES



KEY FEATURES

- Successfully completed the PR2 Performance Verification Test of API 6A Appendix F and API 17D.
- The stem seal is a Peek thrust seal and an FKM o-ring secondary seal.
- The spindle design is anti-blowout.
- One quarter turn operation provides simple position indication.
- Unique sprung non-elastomeric Peek seats provide low pressure sealing and protects the valve cavity from debris.
- All primary seals are non-elastomeric.
- If stop pin shears due to overtorque, the valve internals will not be damaged and the valve can still be open and closed.
- Uninterrupted flow passage through valve.
- Standard certification for pressure retaining and controlling parts are to BS EN 10204.

TECHNICAL SPECIFICATION

- Bore size, 0.55" [14mm]. Sizes upto 2" [50mm] available at lower pressures.
- Pressure rating, 10,000 PSI [690 BAR].
- Hyperbarically tested to water depths of 10,000ft [3050m].
- Performance tested to PR2 for Temperature Classifications U (0°F/-18°C to +250°F/120°C).
- Available in API Material Classes FF and HH to NACE MR-01-75 latest rev.

OPERATOR

- Normal Operating Torque 20ft-lbf [27Nm], 90 degrees.
- Torque to Damage 150ft-lbf [200 Nm].
- Lever options for divers.
- Stem adaptors to suit ROV teebar or paddle handles.

TRUNNION MOUNT BALL VALVES



KEY FEATURES

- Successfully completed the PR2 Performance Verification Test of API 6A Appendix F and API 17D 2nd Edition Section 5.1.7.
- The stem seal is a Peek thrust seal and an FKM o-ring secondary seal. Tertiary spring energised gland seal set option.
- The spindle design is anti-blowout.
- One quarter turn operation provides simple position indication.
- Disk spring energised Peek seats provide low pressure sealing and protects the valve cavity from debris.
- With the trunnion design, upstream and downstream sealing is achieved.
- Two way, three way, and four way designs available.
- If stop pin shears due to overtorque, the valve internals will not be damaged and the valve can still be open and closed.
- Uninterrupted flow passage through valve.
- Standard certification for pressure retaining and controlling parts are to BS EN 10204.

TECHNICAL SPECIFICATION

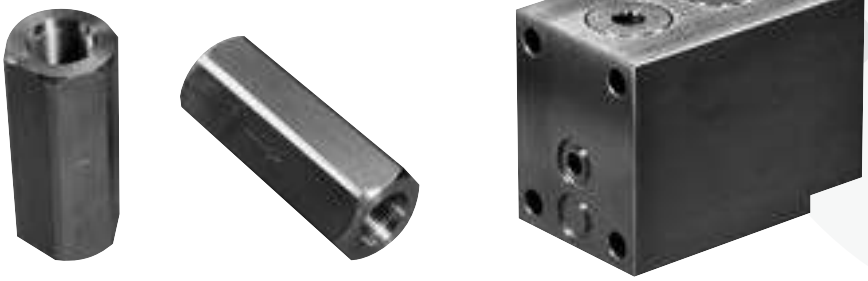
- Bore size, 3/8" [10mm] and 1/2" [13mm]. Sizes upto 2" [50mm] available at lower pressures.
- Pressure rating, 15,000 PSI [1034 BAR].
- Hyperbarically tested to water depths of 10,000ft [3050m].
- Performance tested to PR2 for Temperature Classifications U (0°F/-18°C to +250°F/120°C).
- Available in API Material Classes FF and HH to NACE MR-01-75 latest rev.

OPERATOR

- Normal Operating Torque 20ft-lbf [27Nm], 90 degrees.
- Torque to Damage 200ft-lbf [270 Nm].
- Lever options for divers.
- Stem adaptors to suit ROV teebar or paddle handles.

CHECK VALVES

3/8” CHECK VALVE



KEY FEATURES

- The poppet design of check valve has a PTFE primary seal with a metal to metal back-up.
- Design ideally suited for hydraulic control fluid applications.
- Standard certification for pressure retaining and controlling parts are to API 6A and BS EN 10204.

TECHNICAL SPECIFICATION

- Bore size, 0.38” [10mm].
- Pressure rating, 10,000 PSI [690 BAR].
- Operating temperature range of (-20°F/-29°C +250°F/120°C).
- Available in Stainless Steels and Nickel Alloys.

OPERATOR

- Normal Cracking Pressure 7 PSI [0.5 BAR].
- Optional Cracking Pressure to 500 PSI [35 BAR].

3/4” & 1” CHECK VALVES



KEY FEATURES

- Successfully completed the PR2 Performance Verification Test of API 6A Appendix F and API 17D 2nd Edition Section 5.1.7.
- The poppet design of check valve has a Peek primary seal with a metal to metal back-up.
- Flow tested for accurate pressure loss data.
- Design ideally suited to be incorporated with gate or needle valves for chemical injection applications.
- Standard certification for pressure retaining and controlling parts are to API 6D and BS EN 10204.

TECHNICAL SPECIFICATION

- Bore size, 0.75” [19mm] and 1.00” [25mm].
- Pressure rating, 15,000 PSI [1034 BAR].
- Performance tested to PR2 for Temperature Classifications P through X (-20°F/-29°C to +350°F/177°C).
- Available in API Material Classes FF and HH to NACE MR-01-75 latest rev.

OPERATOR

- Normal Cracking Pressure 25 PSI [1.7 BAR].



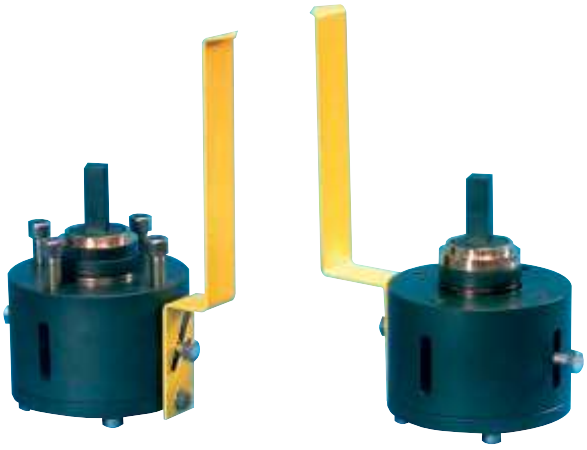
KEY FEATURES

- Pressure relief valve, material of body construction being BS 970 316S11 stainless steel spindle material of 316 stainless steel.
- Inlet connection is a 1/8" NPT male thread.
- Certification for materials of wetted pressure retaining parts (i.e. body and spindle) are traceable to original material certification to BS EN 10204.

TECHNICAL SPECIFICATION

- The valve has been designed and tested to have a cracking pressure of 10 PSI to 20 PSI and a reverse sealing pressure of 5,000 PSI.
- The operating temperature range is - 40°C to 121°C.

POSITION INDICATION





KEY FEATURES

- Simple and robust position indication system for ROV operation.
- Suitable for fitting to a range of different high and low torque ROV receptacles.
- Easily adaptable for different number of turns, sweep of indicating arm and location of indicating arm.

TECHNICAL SPECIFICATION

- Suitable for water depths to 10,000ft [3050m].
- Performance tested for 200 full operating cycle.

how to order

SUB	DBB	DUP	SF375CX SF375CX SF250CX	–
OLIVER VALVETEK LTD SUBSEA VALVES			PROCESS / INSTRUMENT / VENT	

OPTIONS

A full range Actuated Options is available consult with our engineering and sales departments.

VALVE OPERATION & TYPE

DO	= Diver Operated
PI	= Position Indication

MATERIAL

S	= 316S11 Stainless Steel
DUP	= Duplex ASTM A182 F5I UNS 31803
SUP-DUP	= Super Duplex UNS S32760
IN625	= Inconel 625
IN718	= Inconel 718

NEEDLE VALVES

-	= Standard
MD	= Medium Duty Needle Valve
HD	= Heavy Duty Needle Valve

F25	- Female x Female 1/4"
F38	- Female x Female 3/8"
F50	- Female x Female 1/2"
F75	- Female x Female 3/4"
F10	- Female x Female 1"
AF25	- Angled Female x Female 1/4"
AF38	- Angled Female x Female 3/8"
AF50	- Angled Female x Female 1/2"
AF75	- Angled Female x Female 3/4"
AF10	- Angled Female x Female 1"

BK	= Block Valve
DB	= Double Block Valve
DBB	= Double Block & Bleed Valve
DBB + CV	= DBB with Integral Check Valve
DBBIn	= DBB 'In' Type
Angmono	= Angle Mono Flange
Mono/BK	= Mono Flange, Block
Mono/DB	= Mono Flange, Double Block
Mono/DBB	= Mono Flange, Double Block & Bleed
Y43	= 4 Valve Pipe to Flange Manifold
Y63	= 6 Valve Pipe to Flange Manifold
Y73	= 7 Valve Pipe to Flange Manifold

CHECK VALVES

CV38	= 3/8" Connection Size Check Valve
CV50	= 1/2" Connection Size Check Valve

/40 psi	= Spring Range 40 - 80 psi
/HP	= Spring Range 508 psi

GATE VALVES

GV10	= 1" Gate Valve
GV75	= 3/4" Gate Valve
GV50	= 1/2" Gate Valve

BK	= Block Valve
DB	= Double Block Valve
DBB	= Double Block & Bleed Valve

MAN	= Manually Operated
HYD	= Hydraulically Operated

BALL VALVES

B5	= Ball Valve 5,000 psi mwp
B10	= Ball Valve 10,000 psi mwp
B15	= Ball Valve 15,000 psi mwp

F	= Female x Female
M	= Male x Female
MM	= Male x Male
BL	= Bottom Entry 'L' Port Ball Valve

X	= 10mm Bore Ball
Y	= 14mm Bore Ball
Z	= 20mm Bore Ball

50	= 1/2" Connection Size
75	= 3/4" Connection Size
10	= 1" Connection Size

RELIEF VALVES

RV12S	= Relief Valve 1/8" Conn Size
/10psi	= Spring Range 10 - 20 psi

CONNECTIONS

AUTOCLAVE CONNECTION

SF250CX	Medium Pressure 1/4" Tube O.D.
SF375CX	Medium Pressure 3/8" Tube O.D.
SF562CX	Medium Pressure 9/16" Tube O.D.
SF750CX	Medium Pressur 3/4" Tube O.D.
SF1000CX	Medium Pressure 1" Tube O.D.
F250C	High Pressure 1/4" Tube O.D.
F375C	High Pressure 3/8" Tube O.D.
F562C	High Pressure 9/16" Tube O.D.

NPT CONNECTIONS

25	= 1/4"
38	= 3/8"
50	= 1/2"
75	= 3/4"
10	= 1"

JIC CONNECTIONS

JIC4 m	= JIC size No. 4, male
JIC 5 m	= JIC size No. 5, male
JIC 6 m	= JIC size No. 6, male
JIC 8 m	= JIC size No. 8, male
JIC 10 m	= JIC size No. 10, male
JIC 12 m	= JIC size No. 12, male
JIC 16 m	= JIC size No. 16, male
JIC 20 m	= JIC size No. 6, male

RTJ (ring Type Joint) FLANGE CONNECTION

5K	= 5,000 psi Flange Rating
10K	= 10,000 psi Flange Rating
15K	= 15,000 psi Flange Rating

1.68	= 1 11/16" Flange Size
1.81	= 1 13/16" Flange Size
2.06	= 2 1/16" Flange Size
2.56	= 2 9/16" Flange Size
3.12	= 3 1/8" Flange Size
4.06	= 4 1/16" Flange Size
5.12	= 5 1/8" Flange Size
7.06	= 7 1/16" Flange Size
9.00	= 9" Flange Size
11.00	= 11" Flange Size
13.67	= 13 11/16" Flange Size

SAE CONNECTIONS

25 SAE	= SAE J475 1/4" Tube
31 SAE	= SAE J475 5/16" Tube
38 SAE	= SAE J475 3/8" Tube
50 SAE	= SAE J475 1/2" Tube
62 SAE	= SAE J475 5/8" Tube
75 SAE	= SAE J475 3/4" Tube
10 SAE	= SAE J475 1" Tube
125 SAE	= SAE J475 1 1/4" Tube
150 SAE	= SAE J475 1 1/2" Tube

ISO 9001:2015

Achilles Global Energy SILVER

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- Oliver Valves - instrument valves, manifolds, DBB and instrument enclosures
- Oliver Twinsafe - pipeline ball valves, double block & bleed, twin seal
- Oliver Hydcovalves - hydrogen and carbon capture service valves
- Oliver Valvetek - subsea gate, needle and check valves

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