

INTRODUCTORY OVERVIEW



WHO WE ARE

A family-owned and run business established in 1974. Abdex has evolved into a globally leading manufacturer of specialist hose assemblies.

Abdex offers low, medium, high and ultra-high pressure fluid transfer solutions up to 58,000 psi (4,000 bar). In addition to our complete hose solutions, we also offer an extensive variety of fittings, valves and instrumentation components, pressure test systems and hose manufacturing machinery.

With more than five decades of dedicated specialised experience, we offer unrivalled knowledge and resources. Compared to ordinary hose suppliers, we've done more, know more, and deliver more. Our facilities are equipped with state-of-the-art assembly, testing and servicing equipment providing our clients with specialised hose assembly solutions.

With offices and manufacturing centres in the UK, Melbourne, Brisbane and Perth, Abdex is globally oriented, and perfectly positioned to service the marine and offshore, defence, manufacturing, pharmaceutical and mining industries. With ever-growing customer bases in Europe and rapidly diversifying mining, oil and gas industries in Australasia, Abdex is leading the way when it comes to fluid transfer technology.

Quality and Accreditations

Abdex holds NATA accreditation for pressure testing up to 5,000 bar (72,500 psi) and exclusive Parker Polyflex certification for Oil and Gas, Water Jetting and Hydraulic applications up to 4,000 bar (58,000 psi). We are approved to supply DNV GL hose assemblies and operate under an ISO 9001 certified quality management system.



Supply Partners

Abdex is proud to be working alongside companies such as Continental, Parker Hannifin, Gates, FITOK, Aflex, Alco Valves, and Uniflex. We have carefully selected our suppliers to offer professional, fast and knowledgeable advice to all of our customers.



Generation to Generation

Pictured left are a young Oliver and Daniel Bain with their colourful outfits and bikes in front of their father's original Abdex van.

Abdex was founded in the UK in 1974 by Duncan Bain, making and distributing automotive and washing machine hose assemblies. With over fifty years of history, the family owns and operates multiple businesses across Australia and the UK, covering fluid transfer technology, hydraulic lifting equipment and automotive lifting tools.

Oliver and Daniel now head up the company alongside their brother Peter, continuing to provide the same quality of service that Duncan established the business on so many years ago.

THERMOPLASTIC

When the job is demanding, thermoplastic hose is often the answer. Abdex thermoplastic hoses offer outstanding performance characteristics that consistently outperform traditional alternatives.

Abdex is a fully certified Hydraulic, Water Jetting, Oil and Gas hose assembler to 4,000 bar (58,000 psi) working pressure.

Abdex Thermoplastic range includes:

Medium Pressure - to 350 bar

- SAE 100R7, 100R8 and 100R9.
- Non-Conductive, 5,000 psi and 100R8.
- Beverage Dispensing.
- Industrial Gas Dispense.
- Sewer Cleaning.
- General Hydraulic.
- PTFE Hose.

High Pressure - to 700 bar

- Non-Conductive 10,000 psi.
- Hydraulic Jacking and Rescue.
- Water Jetting / Hydraulic.
- Tube Cleaning / Lance Hose.

Ultra-High Pressure - to 4,000 bar

- Hydraulic and Water Jetting.
- Polyflex Lok - UHP Quick Connect Couplers.
- Adaptors.



OIL & GAS

The oil and gas sector demands the very best in reliability, durability and consistent high performance. Abdex meets those demands with sizes ranging from 2mm to 3", and working pressures from 6 bar (87 psi) to 4,000 bar (58,000 psi).

Abdex is proud to be the only company in Australasia certified to manufacture the Black Eagle range of multi-spiral wire-reinforced thermoplastic hose specially designed for oil industry applications. The Black Eagle product range has bore sizes up to 3" and pressure ranges from 345 bar (5,000 psi) up to 1,035 bar (15,000 psi).

Abdex Oil and Gas range includes:

- Well Intervention.
- Chemical Injection.
- Cementing.
- BOP and Hot Line.
- Umbilicals and Jumpers.
- Nitrogen Pressure Testing.



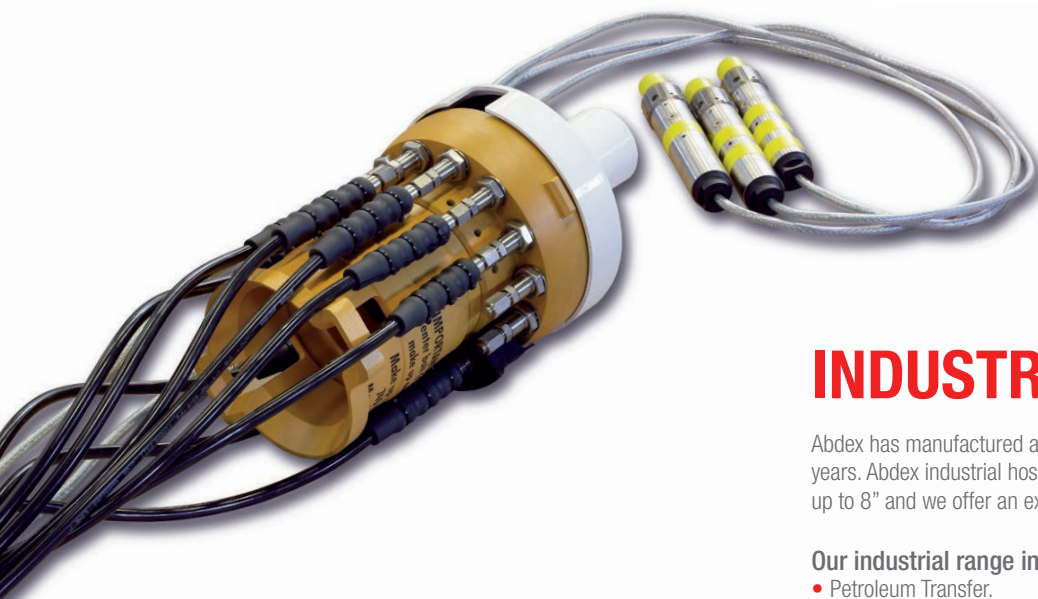
RUBBER

There's an Abdex rubber hose assembly to suit every application. A wide range of fittings including BSP, metric, JIC, NPT, flanges, SAE and hammer unions are available from stock.

Every assembly can be pressure tested and certified to international standards. We offer a full hose management service and can individually trace each assembly produced.

Abdex Rubber range includes:

- Hydraulic.
- Water Jetting.
- Water Blasting and Hydro-demolition.
- Jacking 10,000 psi.



UMBILICALS

Abdex umbilicals are designed for use in the offshore industry to offer a combination of long service life, chemical resistance, flexibility, and lightweight construction.

Abdex can design, manufacture, and test bespoke umbilical and jumper hoses made to customer requirements. Umbilical re-termination and re-testing can also be offered.

Our umbilical range includes:

- High collapse resistant (HCR) lines.
- Chemical injection.

Umbilicals can be static, dynamic or a combination of both. Lengths may vary from short, in the case of hydraulic flying leads (HFL) to the long, in the case of Workover and Control Umbilicals (WOCS).

INDUSTRIAL

Abdex has manufactured a wide range of industrial hose assemblies for over 50 years. Abdex industrial hoses cover a wide range of applications. We crimp hose up to 8" and we offer an extensive range of end fittings.

Our industrial range includes:

- Petroleum Transfer.
- Water Suction and Discharge.
- Chemical Transfer.
- Vacuum.
- Air and Multipurpose.
- Food and Beverage.
- Air Brake.
- Gas Hose.



FITTINGS & VALVES

FITOK

Abdex provides a complete range of instrumentation fittings, valves and tubing for high and ultra-high applications, using quality engineered components from FITOK. Each part is marked with the pressure rating and material number.

High Pressure Valves

- Ball (0-10,000 psi, 10,000-20,000 psi).
- Needle (3,000-10,000 psi, 10,000-58,000 psi).
- Check.
- Metering.
- Relief.
- Filters.
- Tubing.

Threaded Pipe Fittings

- 10,000 psi, 15,000 psi.
- Adaptors and Couplings.

Fittings and Tubing

- 20,000 psi, 58,000 psi.
- Tooling.

Instrumentation

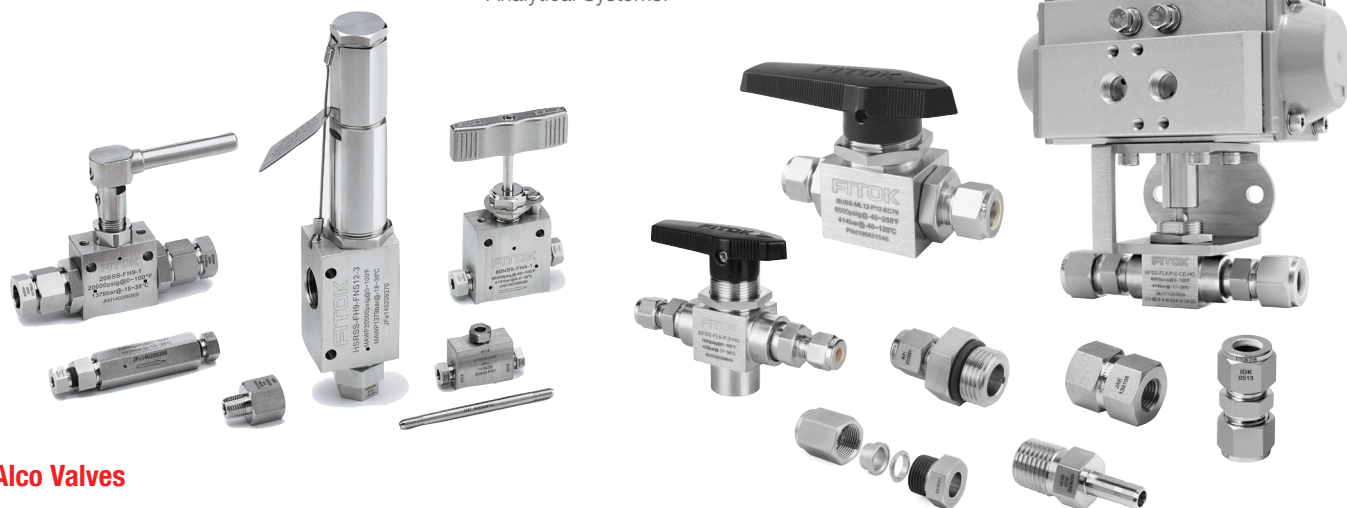
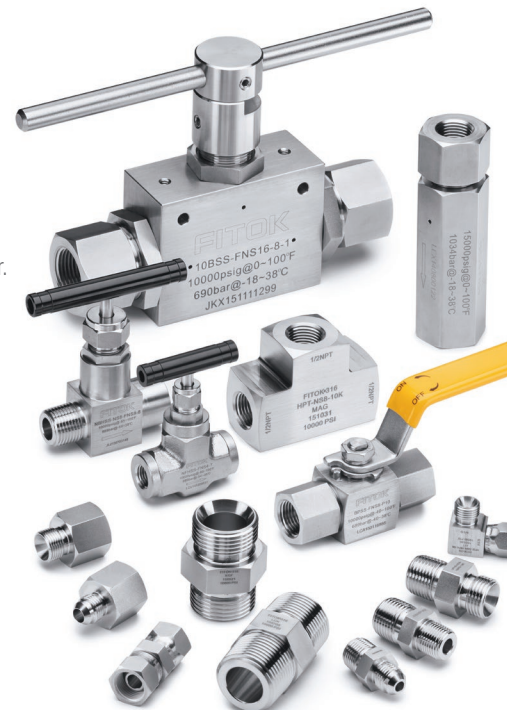
- Tube Fittings.
- Twin Ferrule and 37° Flared.
- 6 Series Pipe Fittings.

General Valves

- Ball and Plug.
- Check.
- Filters.
- Relief.
- Bleed and Purge.
- Metering.
- Diaphragm.

Regulators

- Fluoropolymer Components.
- Analytical Systems.



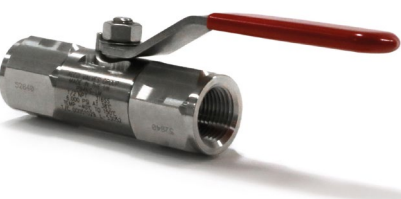
Alco Valves

Abdex is an authorised distributor of Alco Valves Group, a UK-based manufacturer supplying precision-made, high integrity valve products to the oil and gas, petrochemical, defence and subsea industries since 1977.

All Alco valves are designed, assembled and tested in-house, with ISO 9001 certification and compliance with internationally recognised standards including API 6A and ASME B16.34.

Our Alco range includes:

- Instrumentation Valves.
- Double Block and Bleed (DBB).
- Subsea Valves.
- Large Bore Valves.
- XC Interchangeable DBB Range.



COUPLINGS & ACCESSORIES

Abdex provides a diverse range of quick connect couplers to suit most of the hose assemblies we produce. We also supply various accessories to protect the user and prolong the life of the hose assembly.

Abdex hose protection and burst containment products come in a wide range of materials, from nylon and galvanised steel, through to stainless steel and aramid fibre.

Our Couplings and Accessories range includes:

Couplings

- ISO A.
- ISO B.
- Flat Face.
- 700, 1,000 and 1,500 bar.
- Rogan Series.
- Quick Connect.
- Breakaway Couplings.

Accessories

- Hose Containment Grips.
- Hose Protection Covers and Hand Guards.



HOSE MANAGEMENT

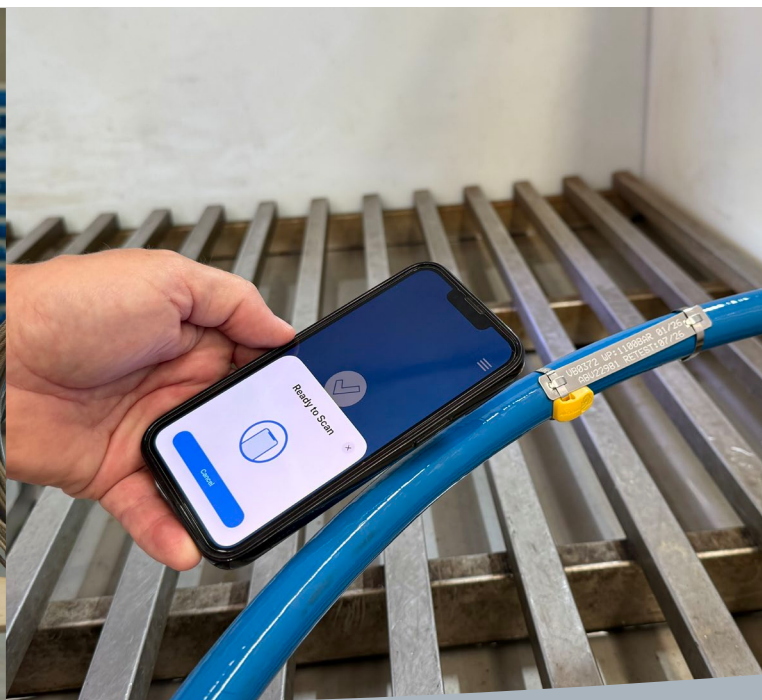
Abdex provides a structured approach to hose and asset management, combining identification, inspection records, maintenance planning, and documentation into a single system. It supports traceability from point of supply through ongoing maintenance, helping ensure assets are correctly identified, inspected, and serviced throughout their lifecycle.

Key Features

- Data recorded at point of supply, manufacture, and during maintenance.
- Dashboard shows asset specifications, inspection history, maintenance schedules, and documentation.
- Planned maintenance schedules configurable, monitored, and updated.
- Inspection data and certificates available shortly after testing.
- Automated inspection reminders based on asset lifecycle.
- Asset identification and records accessible via mobile interface.
- Compatible with Bluetooth IP67 readers and heavy-duty IP64 handheld readers.

Chips, Tags and Labels

- Easy to read etched tags and PVC labels - proven against abrasion.
- State-of-the-art HF and UHF chips.
- Duraband micro-chips 1/2" to 24" diameter - low profile and proven in the harshest applications.
- Unique assets - every asset is different and all asset information is backed up and stored on the software.



HOSE ASSEMBLY EQUIPMENT

Abdex specialises in the design, manufacture and commissioning of high-pressure test and flushing rigs, from standard test pumps to bespoke custom-built solutions. Our experienced design team meets all requirements from concept to completion, ensuring we deliver the best products alongside comprehensive, start-to-finish service.

Our testing machinery range includes:

- Test Rigs to 5,000 bar.
- Air Driven Hydraulic Pumps.
- Hydrotest Power Packs.
- Data Logging Box - Retro Fit.
- A-Frames, Control and Manifolds.
- Test Rig Control Panels.
- Ultra-high Pressure Test Rigs.
- Flushing Rigs.

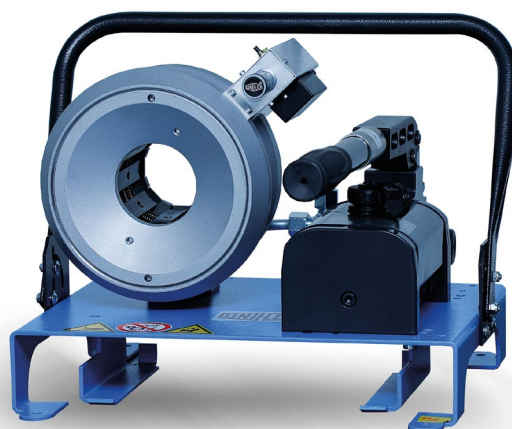
Abdex provides service, calibration, training and installation support for hose assembly and testing equipment. Calibration records and documentation are managed through our online service system, with training programs available ranging from operator familiarisation through to full coverage of installation, machine operation, software and maintenance.

Uniflex Range

Alongside bespoke machinery, Abdex stocks and supplies the complete range of German-made Uniflex pressure test rigs.

Our Uniflex range includes:

- Crimping Machines.
- Hose Test Rigs.
- Hose Cutting Machines.
- Hose and Tube Cleaning.
- Mobile Workshops and Container Fitting Service.
- Hose Skiving Machines.
- Hose Pin Pricking.
- Hose Nipple Inserters.
- Hose Marking Machines.
- Coiling, Measuring and Storage.
- Fluid Condition Monitoring.
- Hose Flushing Machines.





VIC

Abdex Industries Pty Ltd
27 Metcalf Street, Dandenong South
Victoria, 3175.
T: +61 (03) 9796 3044
E: vicsales@abdex.com.au

WA

Abdex Industries Pty Ltd
260 Allen Road, Forrestdale,
Western Australia 6112.
T: +61 (08) 9418 3044
E: wasales@abdex.com.au

QLD

Abdex Industries Pty Ltd
12 Machinery Street,
Darra, Queensland 4076.
T: +61 (07) 3185 2788
E: qldsales@abdex.com.au

UK

Abdex Hose & Couplings Ltd
7 Ward Road, Bletchley
Milton Keynes, MK1 1JA, England.
T: +44 (0) 1525 377 770
E: sales@abdex.co.uk

WWW.ABDEX.COM