



QUALITY SOLUTIONS AND SERVICES



AVK COMPLETE TAPPING SERVICE

☎ 1300 AVK CTS (1300 285 287)

✉ enquiries@avkcts.com.au

Welcome to AVK in Australia and New Zealand

At AVK, we deliver innovative water solutions that support communities and industry.

Through advanced products and practical engineering solutions, AVK helps ensure safe, reliable and sustainable outcomes.

By combining global expertise with strong local insight, we partner with customers to meet their evolving demands. Partnering with AVK means

access to proven experience, technical excellence and a commitment to continuous improvement.

As a global leader, we consistently raise industry standards through innovation, performance and reliability.

Everything we do is guided by our five core values:

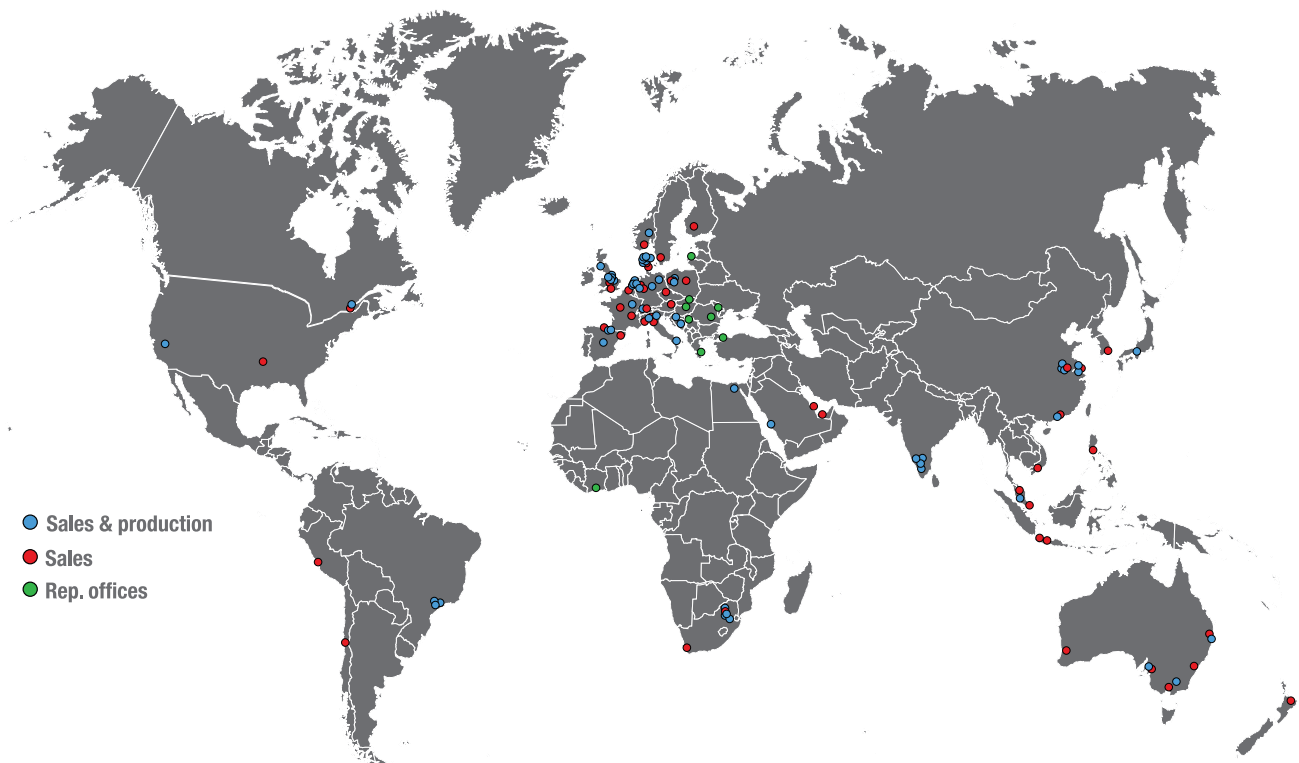
QUALITY • RELIABILITY • INNOVATION • SUSTAINABILITY • CUSTOMER SERVICE



AVK Australia's Head Office | Wingfield, South Australia

GLOBAL STRENGTH LOCAL FOCUS

The AVK Group is a privately owned industrial group comprising more than 100 companies worldwide. Our products are designed to meet international standards and are supplied to markets across the globe. While global in scale, AVK remains local in approach—serving customers through regional expertise, full-line partnerships and a single point of entry to a comprehensive portfolio of high-quality solutions. Customers can rely on long service life, dependable performance and proven functionality.



AVK Australia and New Zealand is proud to be part of the AVK Group—one of the world's leading international industrial manufacturers. With more than 20 years of regional presence, we deliver market-driven solutions designed for cities, towns and rural communities across the ANZ region.

Leveraging local manufacturing capability and the AVK global supply network, we support pipeline infrastructure, water and wastewater treatment, sewage processing, fire protection, irrigation, dams and reservoirs, mining operations and gas distribution.

We don't just supply products—we deliver forward-thinking, integrated water solutions.

1941

Established as
a local machine
shop in Denmark

+5,500

Employees
worldwide

+100

Companies
in the Group

+1000

Million EUR
of turnover

PARTNERSHIPS & QUALITY

Forging Long-Term Partnerships

At AVK, partnerships are built on trust, value, and consistent performance. Our experienced team collaborates closely with customers and stakeholders across the full project lifecycle, from concept to commissioning and beyond.

We support infrastructure development and major projects across Australia and New Zealand. By combining strong local expertise with global capabilities, AVK delivers reliable, tailored solutions that meet complex requirements and foster long-term relationships built on performance, collaboration and proven results.



Quality in Every Step

AVK products are recognised globally for quality, durability and performance in demanding applications. Operating to strict Australian and New Zealand Standards, we apply rigorous quality control throughout manufacturing. All products are type-tested during design and undergo comprehensive inspection and functional testing during production. AVK Australia holds ISO 9001, ISO 14001 and ISO 45001 certifications, reflecting our commitment to quality, safety and environmental responsibility. With generous warranties and a design life exceeding 50 years, AVK ensures long-term reliability.

Build Your Customised Valve Solution

AVK offers comprehensive options to design valve solutions tailored to specific project requirements. Customers can select from a wide size and drill range, with suitable actuation and gearbox configurations. Additional customisation includes gate and seat types, materials and protective coatings with specified thicknesses. Optional features such as bypass systems, position indicators, torque overload protectors and extension spindles enhance performance. Detailed inspection and test plans ensure each solution meets specifications, delivering durability, reliability and efficient operation.



Quality
ISO 9001



Environment
ISO 14001



OHS
ISO 45001



FUTURE FOCUS & GOVERNANCE

Delivery To Market

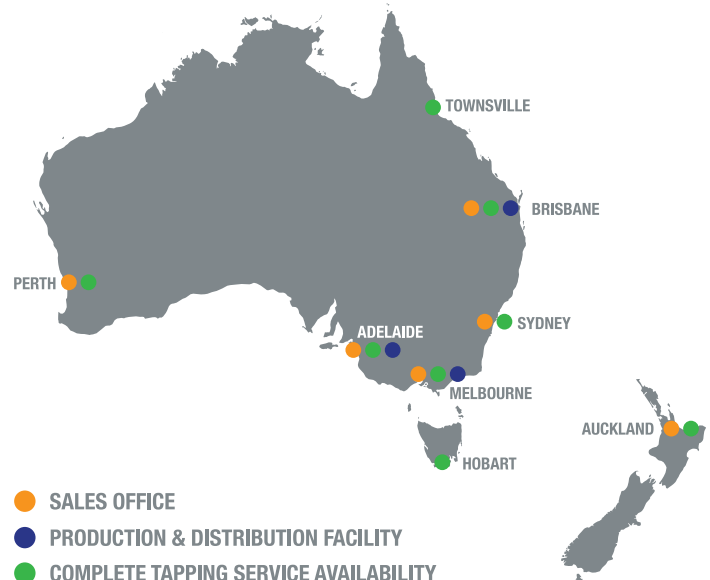
Market proximity is a key strength for AVK, enabling close engagement with end users and a strong understanding of their needs. This allows continuous monitoring of market trends and quick adaptation to changing requirements. AVK's national distribution network ensures reliable delivery across Australia and New Zealand, helping keep projects on schedule and minimising downtime. Strategically located inventory supports fast response times and consistent service, reinforcing AVK's commitment to meeting customer expectations.



Economic and Environmental Sustainability

AVK continues to prioritise sustainability in both its operations and product delivery.

Our durable and efficient products are designed to support long-term infrastructure performance while reducing environmental impact. In doing so, AVK helps customers achieve both economic efficiency and their broader environmental sustainability goals.



Product Development and Compliance

In cooperation with end users, AVK products are tested to achieve optimal results in each market. Compliance with local standards is embedded in all processes, ensuring every product meets required safety, quality and performance benchmarks.

This approach supports reliable operation across a wide range of applications and diverse environments while maintaining consistent product excellence.



OUR SERVICES

COMPLETE TAPPING

SERVICE AUSTRALIA



As part of the AVK Australia Group, Complete Tapping Service is the leading company for under pressure tapplings in Australia.

Based in Keysborough, Victoria, CTS has been doing under pressure tapplings on water and wastewater mains for over 30 years.

CTS is an innovative support service for water authorities and contractors across Australia.

CTS also offers a line stopping service providing temporary shutdown solutions on mains from 80mm up to 500mm using their patented and in house developed AquaStop™ system and imported Hydra Stop system.

Complete Tapping Service only uses approved products on all jobs and complies with the WSAA Code of Practice for under pressure tapplings to ensure that our customers get the best possible outcome.

We are an approved contractor with Major water authorities as well as many smaller water authorities and local councils all around Australia. No matter where your job is located, CTS has an office to service your needs.

AVK COMPLETE TAPPING SERVICE
Sales & Technical Enquiries

☎ **1300 AVK CTS (1300 285 287)**

✉ **enquiries@avkcts.com.au**



THE ADVANTAGES OF TAPPING UNDER PRESSURE LINE STOPPING & VALVE INSERTION

For all your Tapping Under Pressure, Line Stopping & Valve Insertion requirements.

Complete Tapping Service is the TUP, Line Stopping & Valve Insertion specialist. With offices all over Australia we can service your business anywhere at any time!

Eliminate costly and inconvenient shutdowns of your water mains, sewage pipelines or recycled water pipelines.

Advantages of tapping your pipelines under pressure, line stopping & valve insertion operations;

- No water wastage or loss.
- No “dirty” water complaints or water quality problems.
- No loss of water supply or fire protection for your customers.
- No interruption of supply to your industrial and commercial businesses.

Any pipeline material can be tapped including:

- CICL, DICL, AC, MSCL, CL12 UPVC, CL16 UPVC, PE, ECOPUR, DUCPUR, CONCRETE, COPPER OR GWICL.
- Tapping Under Pressure sizes from 20mm diameter to 750mm diameter.
- Line Stopping for replacement of defective valves mains connections or other operational works where shutting down the main is not possible - host main sizes 80mm to 500mm inclusive.
- Valve Insertion Under Pressure from sizes 100mm diameter to 300mm diameter.



Coliban Water Linestop - Campbell's Creek



750mm UPT at Morgan SA



Insta Valve Kilcoy QLD

INSTA-VALVE®

INSERTABLE VALVE

**Only One Cut.
No Reaming with Insta-Valve®**

Insta- Valve®, the new easy-to-install, easy-to-use insertable valve, gives professionals unprecedented control of their distribution systems. Imagine inserting valves wherever you need them, in a fraction of the time it used to take, without disrupting service.

Take control with Insta-Valve®. It has never been easier. Look at what Insta-Valve® can provide for you.

Insta-Valve® generously provides the following:

- Constant flow
- Peace of mind
- System control
- Immediate results
- Value added options
- Clean drinking water
- Safe working conditions
- A water conservation measure
- Employee efficiency, reducing employee overtime

Insta-Valve® eliminates:

- Complicated planning
- Loss of fire protection
- Large street excavations and street patches
- Working in unsafe trenching
- Reaming the pipe wall or completely severing the pipe
- Not having isolation zones in the event of contamination

Insta-Valve® is not guaranteed to provide 100% shutdown. Insta-Valve® will provide a workable shutdown for pipeline maintenance, often achieving 100%.



Insta Valve Kilcoy QLD

INSTA-VALVE®

INSERTABLE VALVE

**Only One Cut.
No Reaming with Insta-Valve®**

High quality Insta-Valves meet or exceed industry standards for years of trouble-free service. Insta-Valves work with the existing Hydra-Stop equipment or as a stand-alone system.

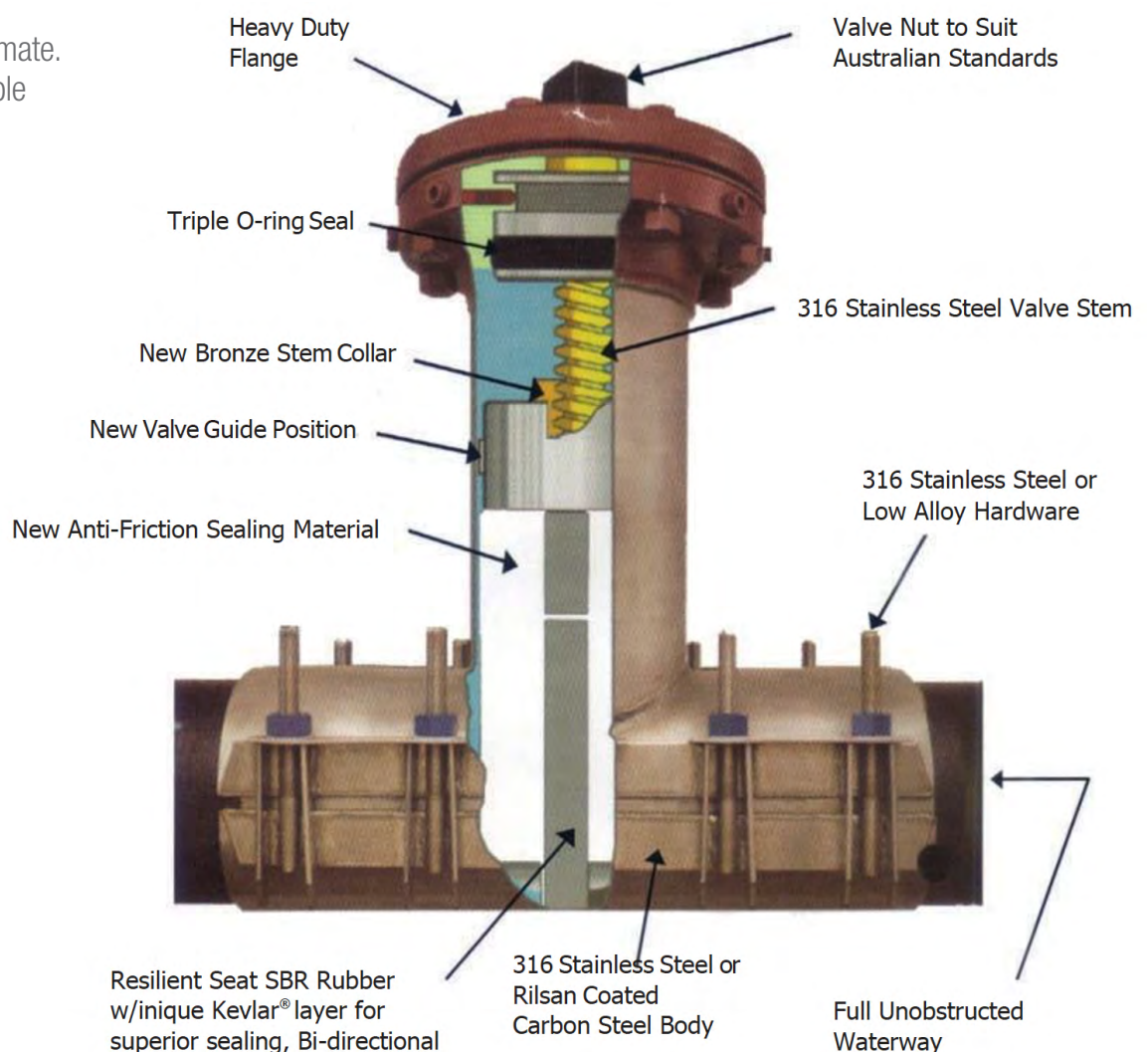
Insta-Valve® Insertable Valves Sizes Available

- 100mm • 225mm
- 150mm • 250mm
- 200mm • 300mm

All sizes are approximate.
Custom sizes available
on request.

Insta-valve® Features

- Standard Australian valve nut
- Valve body made of 316 Stainless Steel or rilsan coated mild steel
- Valve gate made of SBR rubber
- 316 Stainless Steel Valve Stem
- Heavy Duty Flange



AQUASTOP™

THE COMPLETE INLINE 'STOP-OFF' SOLUTION

Introduction

Aquastop™ is a line-stopping device for stopping of pressurised flow in water/sewer/recycled water pipelines with a size range from DN80 to DN150.

Aquastop™ can be used in all pipe material types.

Aquastop™ is installed "Under Pressure" i.e., there is no need to shut the water/sewer/recycled water pipeline down to insert the Aquastop™. Aquastop™ is inserted through a 65mm ball valve set at 45° degrees on a stainless steel tapping clamp that is approved to AS 4181.

Operation

Aquastop™ is inflated by pumping water into the inflatable packer to the predetermined pressure. The supply of water/sewer/recycled water is stopped off to allow maintenance, repairs or the installation of other fittings to be undertaken on the pipeline.

Aquastop™ allows water / sewer / recycled water pipeline repairs, maintenance, installations, replacements and connections to be made to the pipeline without having to shut the water/sewer/recycled water pipeline off.

Aquastop™ can be used to "localise" these works into very small lengths of pipeline rather than shutting down a whole street or block of residential, commercial or industrial properties.

Aquastop™ reduces the impact of repairs and maintenance to the customers by way of there being no need to shut the supply off.

Uses

- Replacing defective valves.
- Installing new valves to reduce shut off areas as part of valve installation program.
- Water main extensions for new sub divisional works
- New main connections
- Repair and / or maintenance
- Any pipeline isolation activities
- Bypass options from Aquastop machine are possible to ensure a constant water flow if required.



Double AquaStop™ - Nagambie - with bypass



Double AquaStop™ - Nagambie



Coliban Water Linestop - Campbell's Creek

THE COMPLETE INLINE 'STOP-OFF' SOLUTION

Advantages

- Minimises shutdown to small localised length of main
- Using the by-pass facility, no customers will be without water for the duration of the works
- Easy to install - No machinery required apart from the initial tapping of the water main
- Only approved stainless steel materials used
- Access point can be used for other services, e.g. CCTV, Chlorine injection etc.
- GPS is recorded on each job for future location or re-insertion

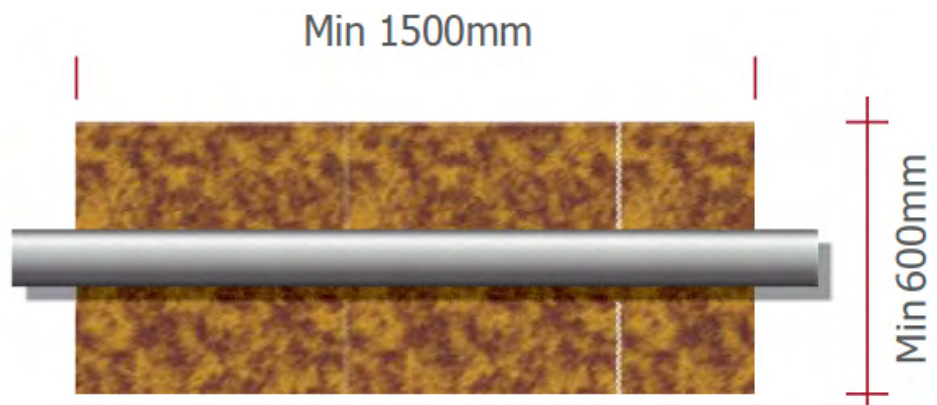
Technical Specifications

- Natural Rubber Construction with Kevlar reinforcement
- Minimum Grade 316 Stainless Steel construction
- Packer ends (ferrules) Grade SAF2205
- 50 mm BSPT by-pass port
- Recommended maximum inflation pressure of packer 300 psi (2000 kPa maximum)
- Suitable on mains $\leq 1000\text{kPa}$ in pressure

Excavation Requirements

- The excavation must give 100mm clearance below bottom of the pipe.
- All statutory requirements regarding trenching and confined space need to be complied with.
- Other services may be in the excavation area provided they are not on the same elevation as the pipe to be tapped.
- These are the minimum requirements and if obstructions prevent an excavation of this size please contact us as we may be able to work around them.

This proven performance record coupled with CTS Australia's ISO 9000 approvals and documented quality systems provide the Australian and New Zealand reticulation industry with this innovative 21st century technology.



Notes on trench dimensions

HYDRA-STOPPING SERVICES

With Hydra-Stop equipment you can isolate for repair or replacement of valves and hydrants on any commonly used pipe – cast iron, asbestos cement, steel, ductile iron and plastic PVC – with accuracy and reliability.

The Hydra-Stop System offers these advantages:

- Patented ‘stopper’ technology including
- cylindrical and bullet shapes. See page 2.
- 1/3 the cost of other traditional methods.
- Durable, high technology lightweight castings for ease of handling.
- Advance design eliminates complicated field operations.
- Rated up to 1600k Padepending on model.
- Guaranteed 95% to 100% water
- stop achieved at the point of repair.
- No loss of fire protection due to system shutdown.
- Rugged, yet easy to operate with fast, accurate tapping and Hydra-Stopping.
- Line stopping available in sizes ranging from 200mm to 500mm using our HydraStop system.
- Line stopping of smaller pipes (80mm to 150mm) also available utilising our patented AquaStop™ process.

Complete Tapping Service’ innovative Hydra-Stopping System provides new solutions to old distribution system problems.

This unique Hydra-Stop technique eliminates the need to employ obsolete and costly methods of dealing with valve and hydrant problems, as well as the general maintenance of water or other liquid distribution systems used by municipalities and industrial plant networks. It eliminates complete water system shutdowns that create major service disruptions while needed repair or replacement work is being done.

This is a very important consideration. For instance, hospitals need water to operate. They simply cannot function without it and a lack of water could lead to potentially hazardous situations.

Manufacturing plants that use water in their operations can be forced to shut down until interrupted main water service is restored. Delayed production, late product deliveries and idle employees take their toll. Fire departments, as a final example, are helpless without an assured water supply and main system shut downs are extremely dangerous.

**Only One Cut.
No Reaming with Insta-Valve®**



225mm HydraStop at Eagle Point, VIC



300mm HydraStop at Cronulla, NSW

HYDRA-STOPPING SERVICES

This situation can also increase fire insurance rates in an affected area. Any of these conditions raises the question of negligence litigation, another irritating and expensive possibility. Guaranteed 24-hour water service is important to everyone. The Hydra-Stop System, as an integral part of your maintenance plan, can make it an inexpensive reality.

Ordinary methods are time consuming and costly, not only from repair man-hour costs, but, also from lost revenues. Simply stated, when water flow stops, revenue stops. Hydra-Stop's technique is efficiency in motion. Two engineers can stop the flow of water in a repair area and replace vital liquid distribution components in less than one-third the time required for conventional methods.

Hydra-Stopping significantly reduces maintenance labor, often eliminating overtime premiums and cutting repair and maintenance costs in half.

HYDRA-STOPPING™ Interchangeable Heads

Benefits derived from HYDRA-STOPPING™

- No customers out of service
- No incurred (potentially) liability
- No loss of water (thousands of litres)
- No water meter damage
- Setup isolation zones in case of contamination
- No over time paid
- No loss of revenue
- No valve location or breakage
- Prevents backflow
- Creates safe working conditions in a trench



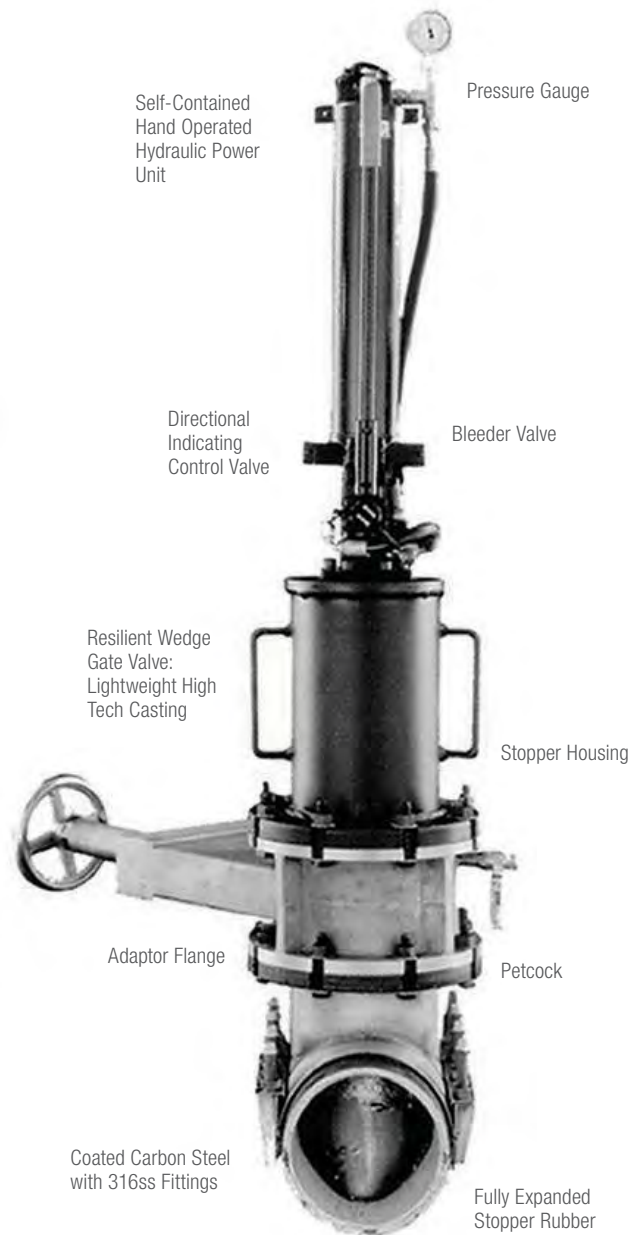
Lightweight Tapping Machine
Converted to Completion Machine



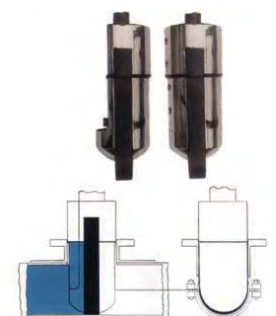
8" – 20" (200mm – 500mm)
Lightweight Tapping Machine



8" – 20" (200mm – 500mm)
Hydra-Stop® Machine



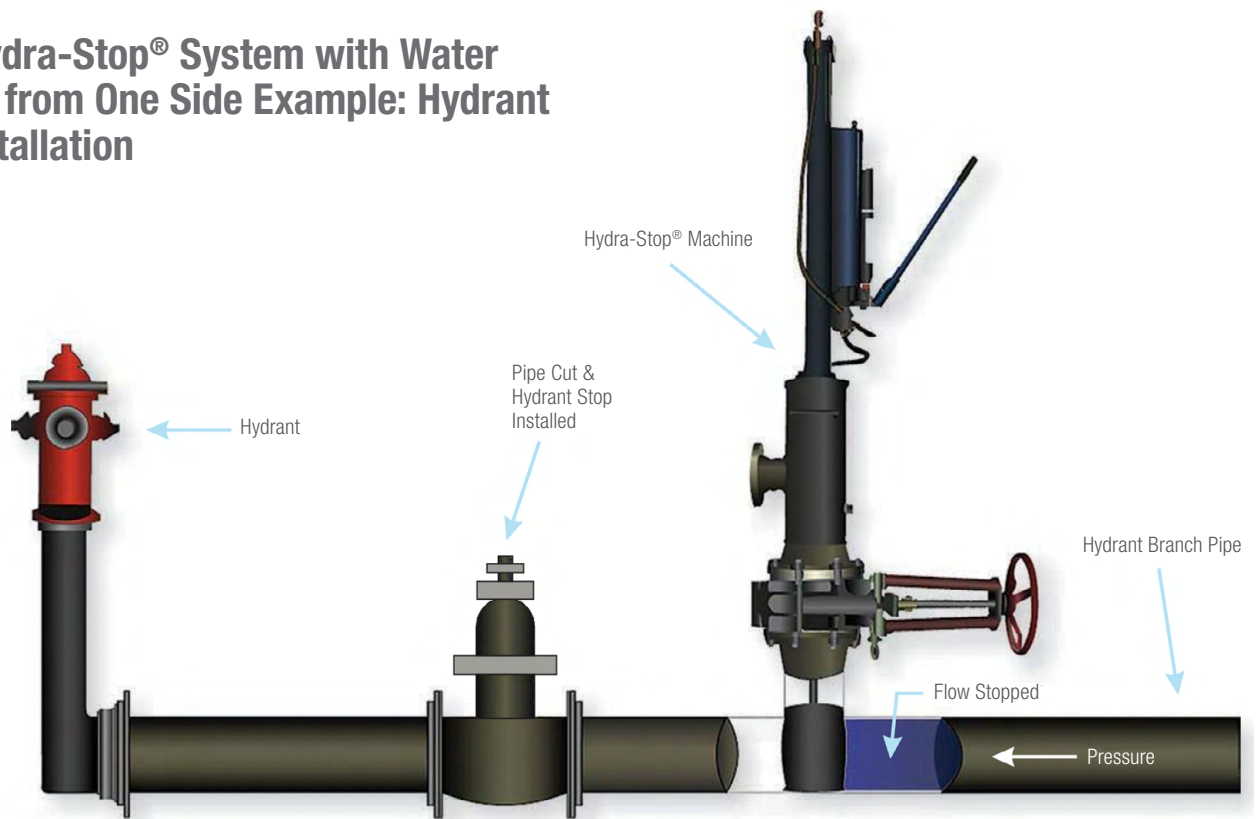
Expandable stoppers for water use in cast and ductile iron, PVC and steel pipe. Size range: 8" – 20" (200mm – 500mm). Rate to 250 PSI (17bar). Larger sizes available.



Expandable stoppers developed for the water industry. Recommended for use on cast and ductile iron, PVC and steel pipe. Size range: 8" – 20" (200mm – 500mm).

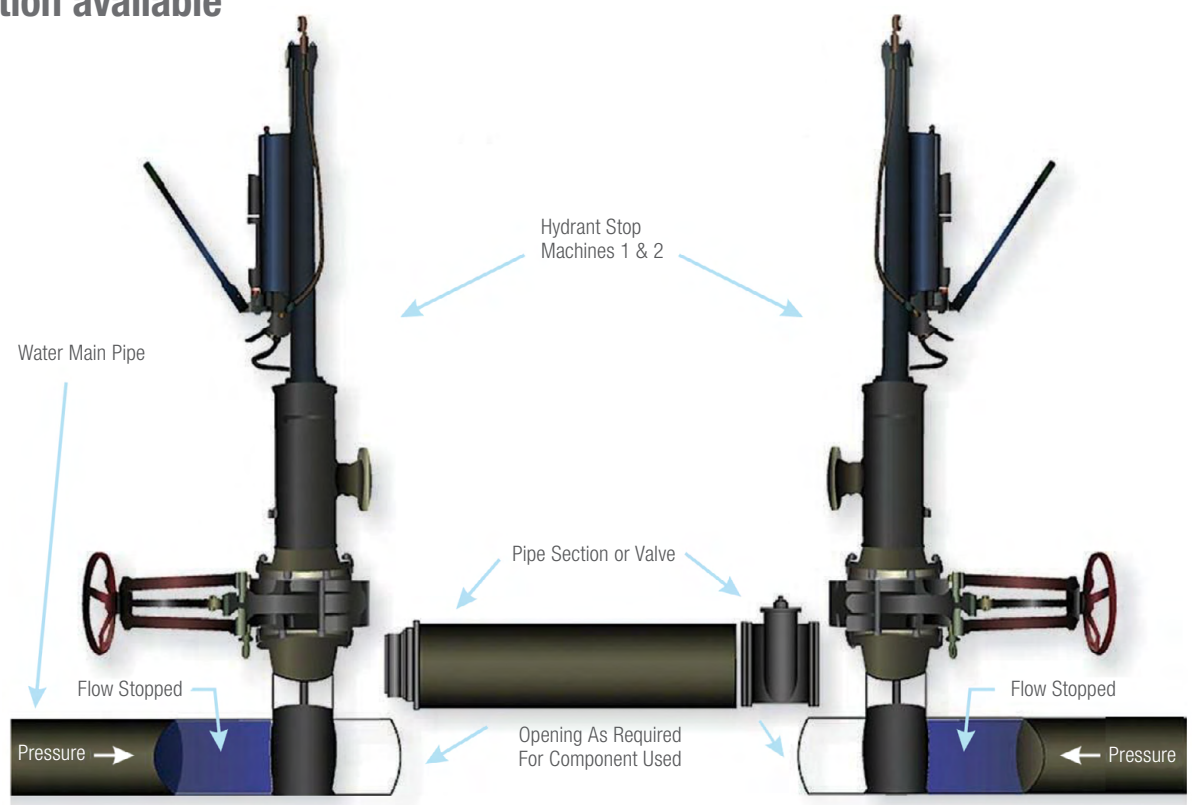
HYDRA-STOPPING SERVICES

Single Hydra-Stop® System with Water Pressure from One Side Example: Hydrant Valve Installation



Double Hydra-Stop® System with Water Pressure from Two Sides (looped Water Circuit) Example: Damaged Pipe Section Replaced or Main Valve installed

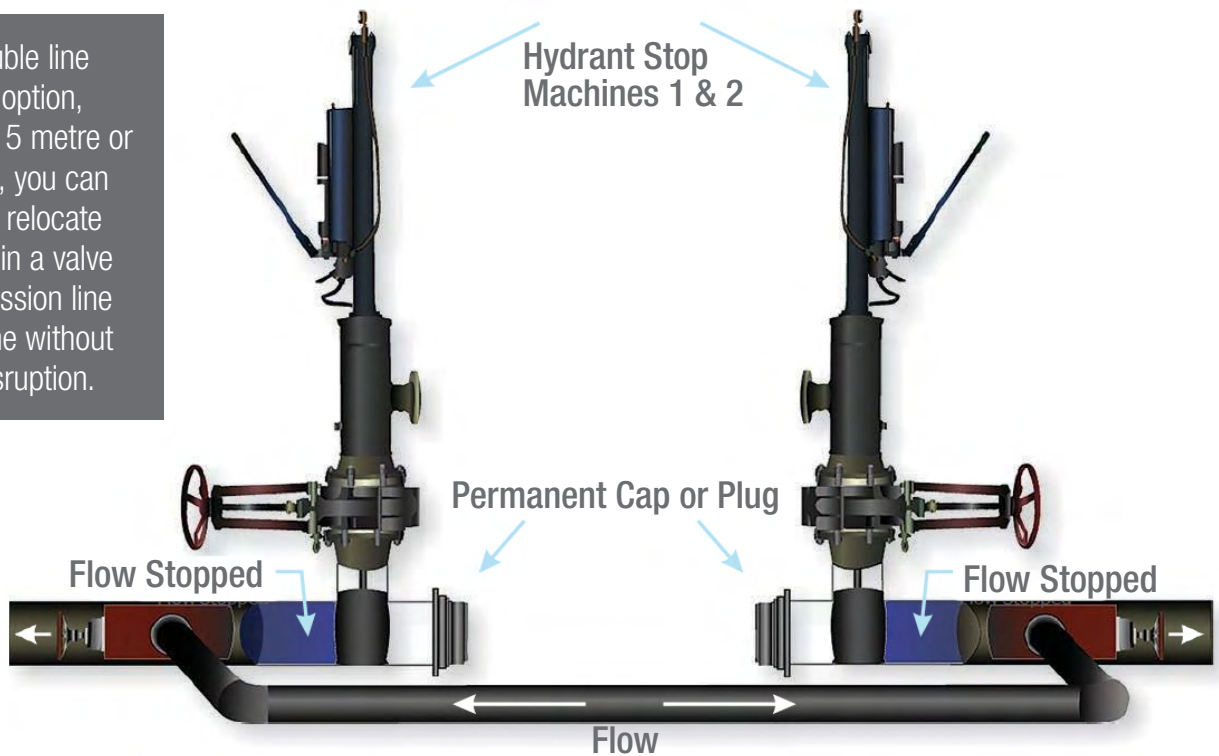
***By-pass option available**



HYDRA-STOPPING SERVICES

Double Hydra-Stop® System with bypass option

With the double line stop bypass option, whether it is 5 metre or 5 kilometres, you can permanently relocate a line or cut in a valve on a transmission line or service line without customer disruption.



Main Line Tapped, Stopped, Section Removed and Open Ends Permanently Capped

Standard Set Up & Standard Fittings Used for Line Stopping mains 200mm – 500mm

Carbon Steel
Hydra-Stop®
Fitting



Typical Hydra-Stop® Fitting
For Mains 200mm
and above



Hydra-Stop® 300mm Cronulla, NSW

INSULATED DELRIN TOP HATS

Introducing the complete Tapping Service Insulated Delrin Top Hat for all your flanged fitting connections.

Sizes available in: M16, M20, M24, M27 and M30

Ensure that your flanged connection protects your assets from corrosion by using our Insulated Top Hats and prolong your asset's lifetime.

Made from approved Plastic Polymer Material, these Insulated Top Hats comply with AS4020 and make your flanged connections easy to assemble.



Delrin Top Hats side view



Delrin Top Hats top view

Reccommended Bolt Tension		
ITEM	DESCRIPTION	TORQUE (Nm)
1	M16	65
2	M20	140
3	M24	280
4	M27	380
5	M30	480

Note: It is recommended that a Torque Wrench is used when tensioning up the bolt

Disclaimer: The information provided within is based on established engineering principals and is offered by Wang Components in good faith as a source of information for its customers. Successful installation depends on numerous factors outside the Company's control and installers should be aware that these guidelines might not be successful for every installation. Wang Components disclaims any liability to any person who solely relies on this information for the purposes of making a flange joint.

COMPLETE MAINS CLEANING AIR SCOURING & MAINS CLEANING

Use of Air Scouring

Water Companies around the World continually contend with water quality problems caused by the build-up of sediment and slime in pipelines that carry water from unfiltered sources to consumers. Where water supplies originate from unfiltered sources there will be many tonnes of sediment, slime and consequently bacterial growth deposited in the water mains every year. It is this build up which leads to customer complaints relating to dirty and bad tasting water and decreases the hydraulic efficiency of the water system.

First developed by the Water Research Centre in England, air scouring has since been refined and modified to suit local needs and conditions. Over 15 years of Australian development and testing have proven Air Scouring to be the most effective and efficient cleaning method for the removal of sediment, slime and bacterial deposits from the water supply pipe systems.

Air Scouring can be used on all types of mains up to and including 300mm. It also provides fast and efficient cleaning of industrial water supply systems.

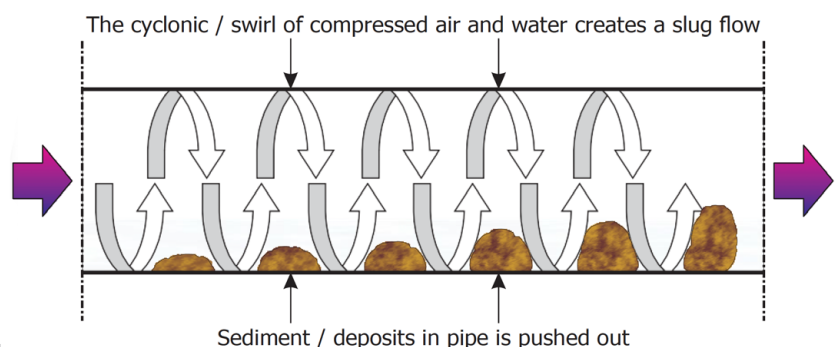


Complete Mains Cleaning Staff

The staff engaged to carry out work are fully trained in the air scouring process, mains flushing, swabbing mains, chlorination and the operation of water supply systems. They have many years of experience in the Water industry, have pioneered Air Scouring operations and worked for the major Water Corporations.

Cleaning Mains with Air Scouring Means:

- Water of a high standard.
- Reduction in the number of customer complaints.
- Reduced water supply treatment costs.
- Improved compliance with Micro Biological Guide Lines.
- Reduction in routine maintenance costs.
- Increased hydraulic efficiency of the system.



To discuss your water quality problems or if you require a quote on air scouring, flushing, swabbing or chlorination please get in touch with AVK.

COMPLETE MAINS CLEANING AIR SCOURING & MAINS CLEANING

Air Scouring Versus Other Cleaning Methods

Disinfecting: To date mains water has been regularly disinfected, however, the large amounts of nutrients and sediment that remains in the water mains encourages bacterial growth.

Flushing: Flushing mains in low pressure areas is quite inefficient as the main's pressure has insufficient force to discharge all the deposits. Consequently, flushing offers only a short term and often costly solution and, in most situations, will not remove all the deposits. It also wastes large volumes of water.

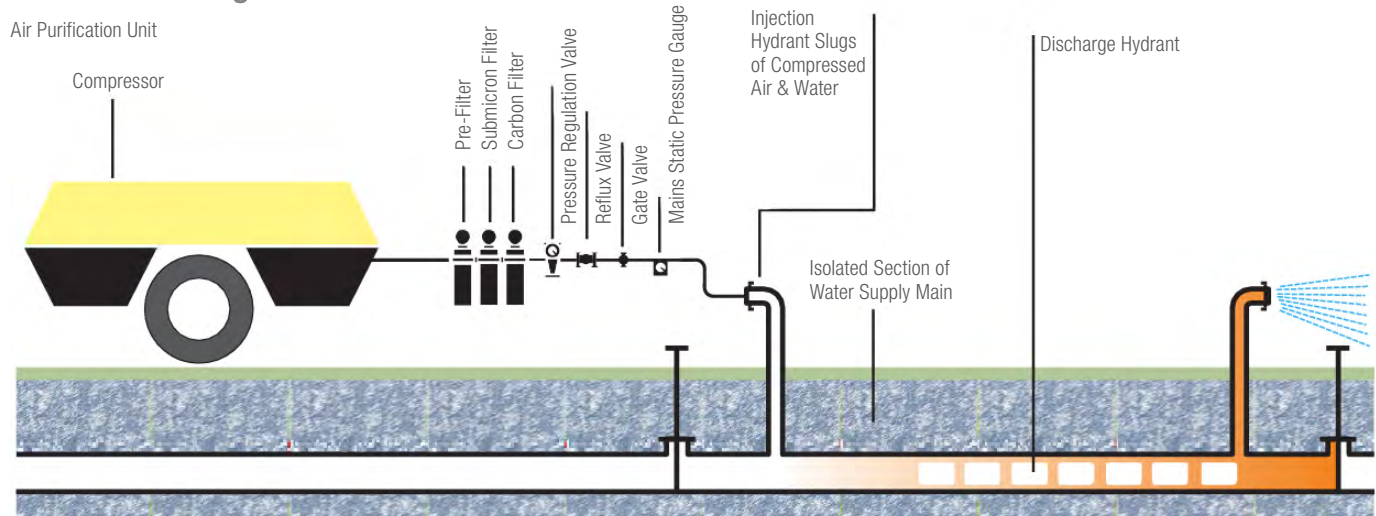
Swabbing: Swabbing in the older deteriorating pipe systems will often result in torn, lost or jammed swabs and in some cases the cement lining will be torn from the pipes. Swabbing can also be slower and costlier if applied to large areas.

Air Scouring: Offers superior performance by removing all sediment and most bacteriological slimes.

A marked improvement in water quality and therefore customer services.

- Safe and easy to set up.
- Cost efficient as up to 4km of water mains can be cleaned in one day.
- Uses 60% less water than other methods.
- Simple, safe and no additional fittings are required.
- Adjacent areas are not affected.
- A whole day work can be performed from one set up point.
- A reduction in treatment costs.
- Long term savings in the maintenance of the water supply system.
- Compliance with the Micro Biological Guide Lines as set down by the National Health and Medical Research Council.

How Air Scouring Works



Air Scouring involves the injection of filtered compressed air from a mobile air compressor and filtration unit. The compressor increases the velocity of water substantially and dynamically creates a series of water slugs. These slugs scour away silt and sediment and expel waste water through an existing surface hydrant or fire plug. This slug flow is maintained until the water runs clean. The entire process can take up to 20-25 minutes depending on the length and condition of the water main while using only a minimal amount of water.

Complete Mains Cleaning can help your Authority with:

- Consultation and advise your Authority or Water Board about Air Scouring
- Uses the latest information and equipment.
- Plan mains cleaning programs.
- Supervise mains cleaning.
- Provide Air Scouring/swabbing services.
- Provide advice on general water quality issues.

S-TAP SHORT TAPPING MACHINE

The New Technology

Complete Tapping Service has long recognised the need for a Short Drill and new technology to improve on the Tapping Under Pressure methodology that has been used since 1995. Having completed over 40,000 tapplings around Australia since 1995 we have become the premier Tapping Under Pressure business in Australia.

This experience, together with our interaction with our customers during this time has shown that the need for such a drilling machine is long overdue.

Features of the S- Tap Short Drill:

- Made from 316SS and high strength aluminium. The weight of the machine has been reduced by over 50%
- Ensures that the user does not have to lift heavy drilling equipment into and out of the excavation.
- Ensures that all OH & S regulations are complied with on-site.
- The length has been reduced from 800mm to 500mm. (38%)
- Fast feed mechanism means that the cutter is at the face of the pipe in 10% of the time of current Tapping Under Pressure machines.
- Quick hitch adaptor for coupling and uncoupling the S – Tap to the valve.
- Pressure rated to 2500 kPa.

Benefits of using the S- Tap Short Drill:

- Using Complete Tapping Services S-Tap Drill Means:
- Your excavation size is smaller therefore reducing excavation, back filling and Road Opening costs.
- Jobs that could not be done previously because of other services too close to the main being tapped can now be completed.
- Greatly reduce the need for “reverse taps”.
- Connections can be carried out during normal working hours – no overtime costs.
- No consequential damage.
- No loss of water or wastage of water.

Remember Complete Tapping Service for Quality, Courtesy & Service:

- We provide a 24 hour under pressure tapping service.
- We are certified to AS/NZS ISO 9001 accredited Quality Management Systems.
- All works carried out in accordance with WSAA (Water Service Association of Australia) Under Pressure Cut-In Connection to Pressure Pipe - Supplement to the Water Supply Code of Australia WSA 03-2002.
- Complete Tapping Service operates in all Australian States and we can provide you with a service tailored to meet your needs.

THE COMPLETE UNDER PRESSURE TAPPING, LINE STOPPING & VALVE INSERTION COMPANY

Introduction

Complete Tapping Service (CTS) is an innovative support service for Water Authorities & Contractors in the reticulation industry. CTS offers live tapping of pressure and non- pressure pipelines for Industrial and Commercial purposes, including water, fire and sewer mains, eliminating costly interruptions to supply and water wastage.

Pipe Materials, Sizes and Types

Any rigid or semi rigid material of any diameter can be tapped, including, MSCL, DICL, CICL, UPVC, PE, HOBAS, FRC, RC, VC, OPVC. Concrete, Copper, Earthenware, Cast Iron, Ecopur, Ducpur, and others. Flanged offtakes range from DN80mm (3") to 750mm(30") on pipe sizes DN80mm (3") to

DN2000mm (78"). BSP offtakes range from DN20mm (3/4") to DN65mm (2 1/2") on pipes sizes DN40mm (1 1/2") to DN2000mm (78").

Benefits

- Eliminates cut-ins. Maintains pipeline integrity.
- No disruption of supply to consumers.
- Eliminates potential back flow and contamination.
- No loss of fire protection.
- No drainage required.
- No water loss.
- Immediate connection - no after hours shutdowns.
- No discolouration of water supply or re-chlorination required.



Standard TUP



Melbourne Water TUP - Greenvale Reservoir



Delrin Tophats - top view

THE COMPLETE UNDER PRESSURE TAPPING, LINE STOPPING & VALVE INSERTION COMPANY

Flanged / BSP Offtakes

- CTS offers five (5) options for drilling:
- 316S/S Flanged Offtake to AS 4181.
- 316S/S BSP Offtake to AS 4181.
- 4N/Philmac BSP Offtake.
- MSCL Flanged Offtake and Compensation Plate if required.
- Rilsan coated MSCL 'Gripper' Flanged Clamp to AS4181.

Approved Technology

CTS has adopted international under pressure tapping technology, which has been used extensively throughout the world. CTS Australia is an approved provider for tapping services to the following water authorities:

- Sydney Water
- SA Water
- Hunter Water Corporation
- Water Corporation of WA
- Yarra Valley Water
- South East Water
- City West Water
- Barwon water

WSAA Code of Practice for Under Pressure Tapping

CTS completes all UPT's in accordance with the Water Services Association of Australia (WSAA) Code of Practice. Compatible cutters (to suit pipe material) hole size ration and approved materials, methods and specialised drilling equipment all complying with this code

The Package

The CTS package includes the supply of approved components, as listed below:

- Flanged offtakes to principles requirements.
- Approved high quality flanged resilient seated valves.
- EPDM gaskets. 316S/S insulated nuts, bolts and washers.
- Pressure testing of connection prior to drilling.
- Blocking as necessary to support the valve and clamp assembly.
- Can be tailored to suit local requirements

CTS Requirements

To perform the tapping, CTS requires the main to be excavated and exposed as detailed in the explanation below. If existing services or obstructions impinge on the excavation requirements, please contact us as we may be able to make alternative connections around the obstructions.



THE COMPLETE UNDER PRESSURE TAPPING, LINE STOPPING & VALVE INSERTION COMPANY

This proven performance record coupled with CTS Australia's ISO 9000 approvals and documented quality systems provide the Australian and New Zealand reticulation industry with this innovative 21st century technology.

Pressure Testing

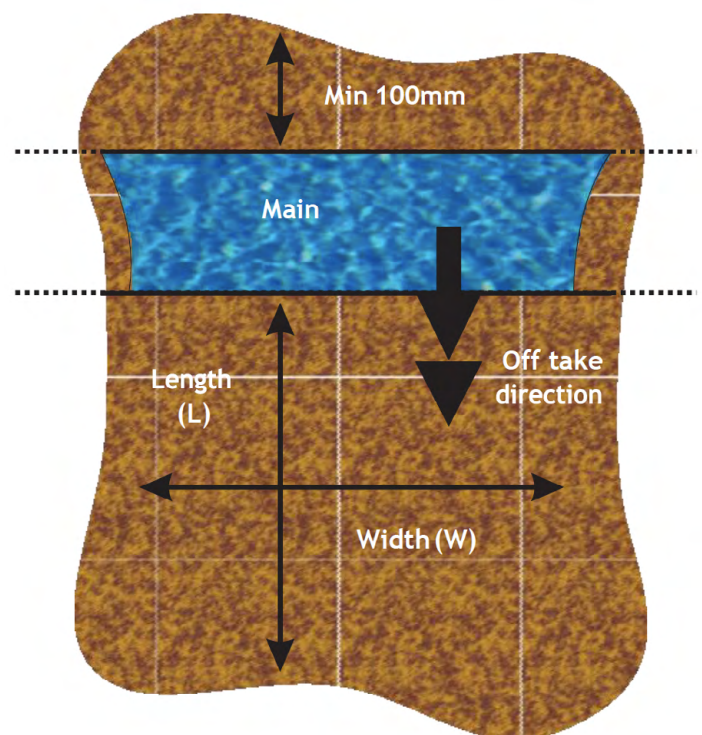
Prior to drilling, and after fitting the clamp and valve to the principal main, the complete assembly is pressure tested to trial the components to ensure a leak free connection.

Excavation Requirements

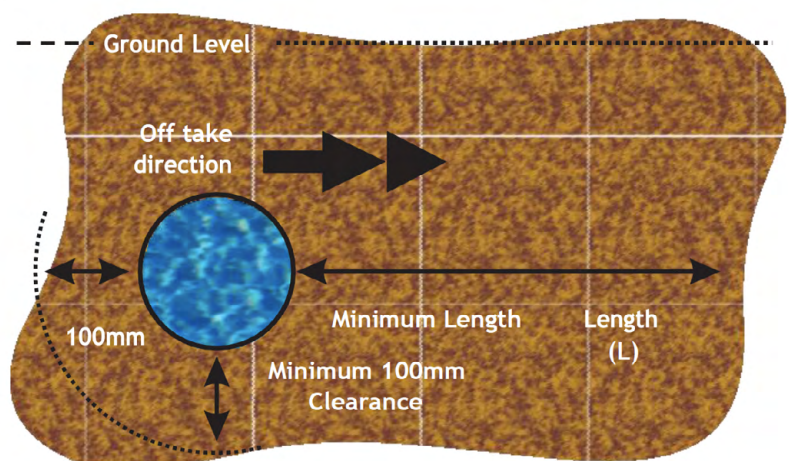
Notes on Trench Dimensions:

- The excavation must give 100mm clearance below bottom of the pipe.
- All statutory requirements regarding trenching and confined space need to be complied with.
- Other services may be in the excavation area provided they are not on the same elevation as the pipe to be tapped.
- These are the minimum requirements and if obstructions prevent an excavation of this size please contact us as we may be able to work around them.

EXCAVATION SIZES		
Tapping Size (mm)	Length (L) (mm)	Width (W) (mm)
80-150	1200	800
200-225	1500	800
250-300	2000	1500
375-600	3000	2000



Plan View of Excavated Trench



Elevation of Excavated Trench

THE COMPLETE UNDER PRESSURE TAPPING, LINE STOPPING & VALVE INSERTION COMPANY

Nominated Diameter														
MATERIAL	DESIGNATION	STANDARD	50	65	80	100	125	150	75	200	225	250	300	350
DICL DICL	Class K9 or K12	AS2280-1995			96	122		177		232	259	286	345	
HOBAS HOBAS (GPR)		AS4130-1995				122		177		232	259	286	345	
CICL CICL	Class B	AS1742-2-1983				122		177		232	259	286	334	
CICL Class C		AS2544-1975			96	122	149	177	203	232	259	286	345	
AC AC	Class AB	AS1711-1975			96	122		177		232	259	286	334	
AC	Class CD	AS1711-1975			96	122		177		232	259	286	345	
UPVC UPVC	CIOD (blue)	AS147701996				122		177		232	259	286	345	
UPVC	Metric (white)	AS1477-1996	60	75	89	114	140	160	200	225	250	280	315	355
STEEL STEEL	MSCL	AS1579-1993				114		168		219		273	324	355
GALVGWI	AS1074-1989	60	76	89	114	140	168							
PE PE	Class 12 or 15	AS1150-1988	50	63	75	90/100	125/140	160	180	200	225	250/28	315	355
RC RC	Class 2-12	AS4058-1992						197			279		362	
CU CU		AS3688-1994	51	64	76	102	127	152		203	279			
ISO DICL	INTERNATIONAL	DIS2531E-1996	66	77/8	98	118	144	170		222		274	326	378
Nominated Diameter														
MATERIAL	DESIGNATION	STANDARD	375	400	450	500	525	600	675	750	900	1000	1100	1200
DICL DICL	Class K9 or K12	AS2280-1995	426		507	560		667		826				
HOBAS HOBAS (GPR)		AS4130-1995	426	435	507	560	587	667	747	826	924	1026		1229
CICL CICL	Class B	AS1742-2-1983	413		492	545		650						
CICL Class C		AS2544-1975	426		507		560	667						
AC AC	Class AB	AS1711-1975	413		492		572	650						
AC	Class CD	AS1711-1975	426		507		587	667	747	826				
UPVC UPVC	CIOD (blue)	AS147701996	426		507		560	667						
UPVC	Metric (white)	AS1477-1996	400	450	500	560		630						
STEEL STEEL	MSCL	AS1579-1993		406	457	508		610		762	960	1016		1290
GALVGWI	AS1074-1989	60												
PE PE	Class 12 or 15	AS1150-1988		400	450	500	560	630	710	(800)	900	1000		1200
RC RC	Class 2-12	AS4058-1992	445		533		616	699	787	870	946	1290	105/ 11	1270/ 1345
CU CU		AS3688-1994												
ISO DICL	INTERNATIONAL	DIS2531E-1996		429	480	532		635	735	842	945	1048	1152	11255

ADVANTAGES TO THE WATER AUTHORITY, PLUMBER, CONSULTANT & CONTRACTOR

- We are an ISO 9001 Accredited Company.
- We have adopted the Industry Code Of Practice for Under Pressure Tappings.
- Easy to organise. Phone call and fax.
- Prompt service the UPT can usually be organised within 48 hours.
- We will work with Water Authorities, Plumbers and Contractors, especially in awkward and out of hour situations.
- The supply to the consumer is not affected.
- There is no affect to Commerce, Industrial area's or other area's that cannot have the supply withdrawn.
- The integrity of the main is maintained. By Tapping Under Pressure only the size of the hole is removed from the pipe whereas by inserting a Teea section of the main is removed and replaced with a Tee and two flexible joints that can move. and cause the main to fail. The Stainless Steel flanged offtake can act like a repair clamp if the main fails at that point.
- We provide at no additional cost, if required, a written report on the visual condition of the main and the coupon removed from the main. We can return this coupon to the Water Authority for material testing if requested.
- The dirty water complaints associated with recharging water mains are alleviated.
- We have a data base on all completed jobs.
- Valves that have not been operated in years may fail causing additional repair costs.
- Eliminates civil claims from people or businesses who have belongings or equipment damaged and say they did not receive shut down notifications. This will also reflect in Insurance premiums the Water Authority is levied.
- No need to re-chlorinate mains over 200mm diameter.
- No need for staff to notify people of intending shut downs.
- No consequential main damage at a later date from shutting down the main, with the older mains the reduction in pressure causes stresses and future bursts.
- Water Authority staff can be engaged in other duties.
- The Water Authority does not have to carry stock as CTS provide it all, thus reducing the amount and cost of stock carried.
- No chance of foreign particles entering the water main and causing damage to water main fittings and consumer appliances.
- Maximum loss of 8 litres of water lost through UPT compared to vast amounts of water lost through draining, recharging and chlorinating the Water Mains with old techniques.



TUP Hydrant Installation at Casterton

AUSTRALIAN MADE REPAIR CLAMPS

MADE IN
AUSTRALIA

Australian made WANG repair clamps, manufactured at Wangaratta, Victoria are ideal for permanent repair for leaking pipeline systems DN40-DN1200.

These clamps come in a wide range of widths, 150 – 1200 mm, and provide a stable repair solution for most leaking, cracked, or damaged pipes. They are also an effective means of reinforcing old pipes in critical areas or providing an effective seal for decommissioned service connections.

To assist you in selecting the correct clamp AVK has developed a repair clamp selection guide along with guidance around recommended sealing dimensions, to ensure there is sufficient contact between the edge of the area to be repaired and the end of the clamp.

Manufactured using high-quality stainless steel and Nitrile rubber gaskets permits the use of the product in a range of applications from reticulated water and sewerage to industrial use. A repair clamp's variable OD range enables a single clamp to adapt to any pipe OD within that variable range. This dramatically reduces the stocking requirement to cater to each pipe type and size.

Do not compromise - insist on the 'Original Wang' repair clamps manufactured here in Australia.



SCAN QR
TO SEE OUR
OFFER ONLINE



Quality
ISO 9001



Main features and benefits:

- Manufactured from grade 316 stainless steel for superior corrosion protection
- Nitrile rubber gaskets provide a potable water contact approved seal and insulate against galvanic corrosion
- Fully passivated stainless steel underscores the quality and longevity of the product
- Clamp design permits the installation of a single clamp on a range of pipe diameters
- All sharp surfaces finished avoiding injury to the installer
- Product supplied with detailed installation instructions
- Dry film anti-galling coating employed to minimise galling of the stainless steel fasteners
- Manufacturing facility certified to the ISO 9001 quality assured standard



NOTES

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AVK Australia Holding Pty Ltd
559a Grand Junction Road
Wingfield SA 5013
Australia

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Ref. No. 260917

☎ 1300 AVK CTS (1300 285 287)
✉ enquiries@avkcts.com.au
🌐 www.avk.com.au

