



AQUACHECK
ENGINEERING LTD



water solutions

WRAS approved Brass and Cast Iron check valves
and a full range of Water Tools from a simple Stop Tap Key for
Home use to Metering Solutions for contractors & Utility companies

the watertight service

Aquacheck Engineering's expertise in manufacturing extends over 40 years. Specialising in the water utility sector, we are the manufacturers of an ever expanding range of backflow prevention devices, better known as **AQUACHECK**. The formation of the Aquacheck Division permits it to concentrate solely on the design and manufacture of high specification non-return valves and tooling for the water industry and Fire Protection Services.

The further expansion of cast non-return valves of reflux design, specialising in high flow/low noise applications, is proof of the increasing market penetration of the Aquacheck range of valves.

Whatever your requirements for check, non return valves or water tools, Aquacheck will have the answer to the product you are looking for.

This British company has always put quality control as a company priority. As you would expect, our company has its documented quality system (DQS) approved to ISO9001.

A bespoke product service is also available for customers requiring modifications or alterations to our standard tool lines.

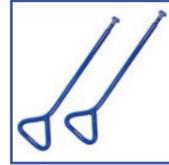
contents



Page 2
standpipes
and valve keys



Page 3
castings for the
water industry



Page 4
lifting keys and
extension spindles



Page 5
mechanical valve
box cleaner



Page 6
stop tap keys



Page 7
hose and
couplings



Page 8
cast iron double
single non-return
valve



Page 9
brass check
valves

standpipes & valve keys



Products in situ on a hydrant

- (A) Aluminium standpipe.
- (B) Contractors Standpipe 3/4" & 1" with single & Double outlet
- (C) Aluminium standpipe with check valve

Aquacheck have extended their product range to include Aluminium & Contractors Standpipes & Valve Keys. Aquacheck standpipes are single or double outlet and can be fitted with an aluminium or Brass 'Double Check Valve' where the application demands, this valve is designed for optimum throughput with virtually no resistance. The new range of standpipes are individually manufactured to cater for specific customer requirements and needs.

The Aluminium Valve Key has extremely high strength tolerances, extensive load tests reveal its ability to withstand up to 1875 Newton's 1 Metre (130 tons/inch).

STANDPIPE SPECIFICATION

2 1/2" Double Check Valve alloy Standpipe complete. To comply with BS336 or equivalent. Double Check Valve to comply with BS6282-5 or equivalent. All components are cast in materials acceptable to the Water Industry and cast in grades LM6/LM4. Tube material is to BS1474 6082 T6 or HE30 or equivalent. The outside diameter shall be 2 1/2" with a wall thickness of 1/8". Standpipe base to be standard London Round Thread connections. Base washers to be manufactured from a WRC approved EPDM or Nitrile material. Outlet to be standard 2 1/2" instantaneous coupling with swivel head.

Contractors Standpipes are manufactured from Heavy Gauge Galvanised Steel tube Cast Iron or Aluminium Base 3/4" BS1010 Hose Union Bib Tap and a Brass Double Check Valve to BS6282 to comply with all relevant By-laws. Standpipes can be colour coded and numbered to suit individual customer requirements. All Standpipes are finished in a protective powder coating.

REFURBISHING SERVICE:

COST SAVING ON YOUR EXISTING STANDPIPES

We can fit Double Check Valves to any existing Standpipes, to bring them in line with latest water by-laws.



castings for the water industry



Valve False Top

Hydrant Extension

Hydrant Blank Cap

Aquacheck now manufacture a wide range of castings and machined products in iron, brass and aluminium for use throughout the water industry. These include Valve False Tops in all sizes, Hydrant Blanking Caps, Screw Caps, Shut off Caps and a complete range of cast aluminium accessories for the standpipe.

The Aquacheck team are totally equipped for the production of individual and bespoke castings and machined fittings, and will fabricate to the customers own specifications and drawings.

SPECIFICATION

All iron is cast to engineering Grade 220 cast iron BS1452. Aluminium is cast to LM4, LM6 and LM25 heat treated to TF conditions.



Standard male taper to BS 5163 up to 600mm valves.

Drg No.	Description	Key Below 'A'	
		Imperial	Metric
AQ20-1	Valve False Top	3 / 4"	19mm
AQ20-2	Valve False Top	13/16"	21mm
AQ20-3	Valve False Top	7/8"	23mm
AQ21-1	Valve False Top	1"	25mm
AQ22-1	Valve False Top	1.1/8"	28mm
AQ22-2	Valve False Top	1.1/4"	31mm

lifting keys and extension spindles



A variety of forged ends currently available in this new range of tools.

Aquacheck's complete range of hand forged grid lifting tools now includes 6 basic designs as illustrated. The range of lifting keys is specifically designed to meet the needs of today's water industry. This latest range currently comprises three standard handle styles and three different key ends, all of which are available in standard and heavy duty gauge. These tools are all manufactured with a 12 or 18 inch reach but this can vary according to customer requirements.

AVAILABLE OPTIONS

Standard triangular handle lifting key

Heavy duty triangular handle lifting key

Standard 'T' handle lifting key

EXTENSION SPINDLES

A complete range of valve extension spindles are available in stock lengths from 6" to 48". Custom lengths can be manufactured to suit customer requirements. All Aquacheck Extension spindles conform to BS 5163 and are welded to relevant British standards and epoxy powder coated.

mechanical valve box cleaner



In response to customer demand Aquacheck has expanded its range of standard forged tools to include this selection of Valve Box Cleaners.

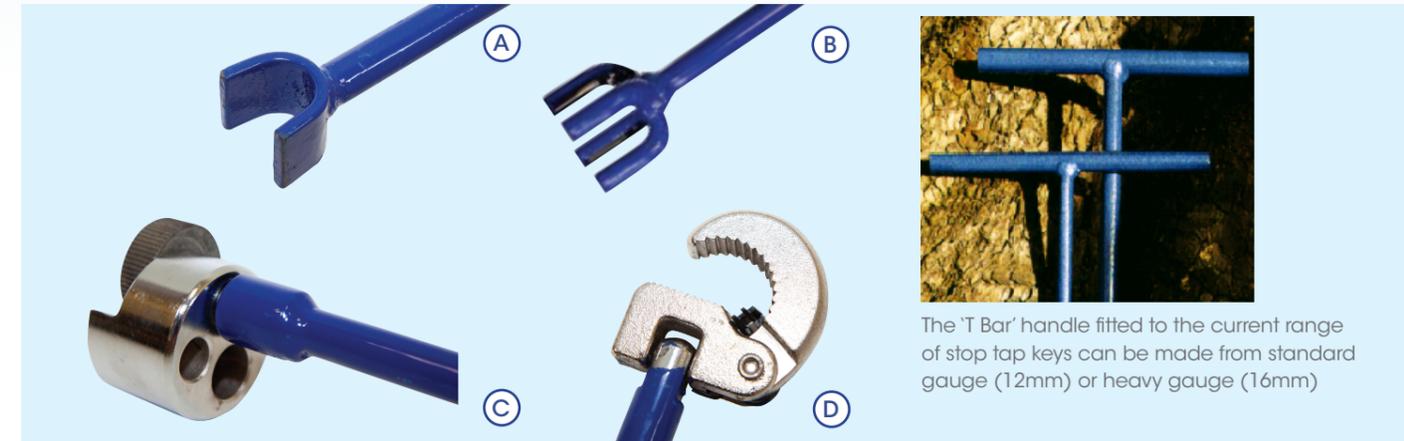
These new tools have been designed to clear gullies and awkward cavities of debris and hazardous materials such as glass and hypodermic needles.

Though simple in design these Valve Box Cleaning tools offer a most effective method of clearing an area before inspection or maintenance work begins.

The tool, once lowered into the valve box, uses two jaws, being opened and closed remotely by means of a lever at the top of the tool. This allows potentially lethal and often concealed debris to be removed quickly and efficiently, in compliance with today's health and safety guidelines.

Aquacheck Valve box cleaning tools are manufactured in 1m & 1.5m lengths as standard with any head configuration, custom lengths can be manufactured to suit customer requirements.

stop tap keys



A Standard tap key: AQ 3/1

This key is designed for use with 1/2", 3/4" & 1" single vane stop taps.

B Multipurpose: AQ 3/3

This key does the same as the standard tap key, but is also designed to work with most round tap heads.

C Crutchless (self grip): AQ 3/2

This key has a friction based self gripping mechanism and is suitable for most crutchless stop tap applications.

D Crutchless (spring grip): AQ 3/4

This key has a spring loaded self grip jaw, that is reversible for clock and anti-clock torque. This key is suited to most crutchless stop tap applications.

The 'T Bar' handle fitted to the current range of stop tap keys can be made from standard gauge (12mm) or heavy gauge (16mm)

Aquacheck's latest range of stop tap keys (pictured above) is comprised of one standard tap key, one multipurpose key and 2 crutchless (self gripping) keys.

This selection of Aquacheck tools are suitable for most tap maintenance applications, explained above. All these tools are manufactured with a 4 foot reach but this can be varied according to customer requirements.

hoses & couplings



Aquacheck are now offering a new range of hoses and fittings for use in the allied water and fire industries. Listed below are some of the most popular industry standard hoses available. These and many others are available in varying lengths and diameters.

HOSES available for most applications: Wash down & General purpose, Fire, Irrigation & Potable Water situations (WRAS approved), with diameters ranging from 19mm to 150mm & up to 200m in length, with working pressures up to 40 bar.

COUPLINGS for the needs of modern industry: McDonald, Bower, Camlock & Instantaneous, manufactured in many different materials including plastic, aluminium, brass, galvanised & stainless steel.

Assembled hoses and couplings can be mated using Wire Binding, Bandit, Crimped or Strap & Bolt, depending on the particular working demands.

double single non-return-valve



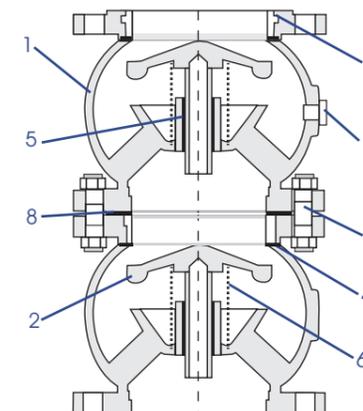
Double Check Valve				
Size	Bore mm	Length mm	dia mm	Weight Kgs
DN 50	50	205	165	17
DN 65	65	245	185	18.5
DN 80	80	265	200	20
DN 100	100	315	220	30
DN 125	125	405	250	40
DN 150	150	465	285	60
DN 200	200	565	340	100
DN 250	250	693	405	188
DN 300	300	775	460	280
DN 350	350	925	520	450

Single Check Valve				
Size	Bore mm	Length mm	dia mm	Weight Kgs
DN 50	50	100	165	8.5
DN 65	65	120	185	9.25
DN 80	80	130	200	10
DN 100	100	155	220	15
DN 125	125	200	250	20
DN 150	150	230	285	30
DN 200	200	280	340	50
DN 250	250	344	405	94
DN 300	300	385	460	140
DN 350	350	460	520	225

Foot Valve				
Size	Bore mm	Length mm	dia mm	Weight Kgs
DN 50	50	210	190	8.5
DN 80	80	227	200	10
DN 100	100	271	220	15
DN 150	150	402	285	30
DN 200	200	490	340	50
DN 250	250	602	405	94
DN 300	300	674	460	140
DN 350	350	805	520	225

A double and single non-return valve of Reflux design. Designed and manufactured in the United Kingdom using WRAS approved materials. This valve is spring loaded, axially guided with a resilient sealing mechanism and will operate in any position.

Aquacheck Engineering Ltd maintain a policy of continual product development and as such reserves the right to vary in detail



Materials	Specifications
1. Body	SG Iron 420/12
2. Plunger	SG Iron 420/12
3. Ring	SG Iron 420/12
4. Seal	Nitrile 70 Shore
5. Guide	Gun Metal Grade LG2
6. Spring	Stainless Steel Grade 304 S26
7. Studs	Mild Steel (Plated)
8. Gasket	Nitrile 70 Shore
9. Test Plug	DZR Brass



single & double check valves



Aquacheck single and double check valves manufactured from DZR alloy provide installers and specifiers with high performance, cost effective valves for the prevention of contamination through backflow and back siphonage by allowing fluid to flow in one direction only.

The valves have many benefits, including silent operation, low pressure loss and a spring loaded mechanism allowing the valve to close without back pressure.

WHERE TO USE AQUACHECK VALVES

Available with compression or BSP parallel female ends, Aquacheck valves help eliminate the risk of contamination through backflow in a wide range of central heating and water service installations. Single check valves can, for example, be used to prevent backflow in central heating systems, to protect the mains water supply during the regeneration cycle of water softeners or be installed downstream of water meters to protect upstream mains from backflow. Aquacheck double check valves are suitable for ensuring the filling of primary heating circuits meets the requirements of Water Byelaw 14. Double check valves are advisable where a hose is connected to a hose union bib tap and should be installed as close to the tap as possible.

SIZE RANGE

Aquacheck single and double check valves are available with compression ends in 15mm, 22mm and 28mm sizes and with BSP female threaded ends in sizes from 1/2" to 2". Double check valves incorporate a 1/4" BSP centre test point.

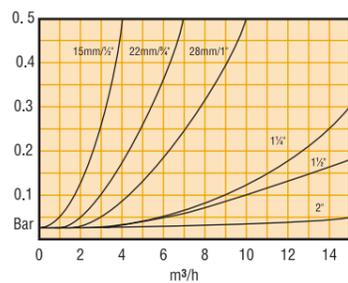
STANDARDS AND APPROVALS

Aquacheck valves have compression ends manufactured to BS 864 Part 2 and female parallel BSP ends manufactured to BS 21. Both single and double Aquacheck valves comply with the requirements of BS 6282 Part 1 and are UKWFB listed.

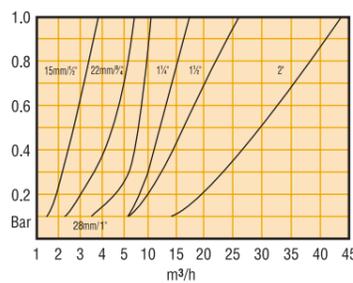
WORKING PRESSURES AND FLOW RATES

Aquacheck valves operate efficiently for fluids at a nominal operating temperature of 65°C and a peak temperature of 90 °C for 1 hour per day, at a maximum pressure of 16 bar. Refer to BS 864 for limits for compression ends.

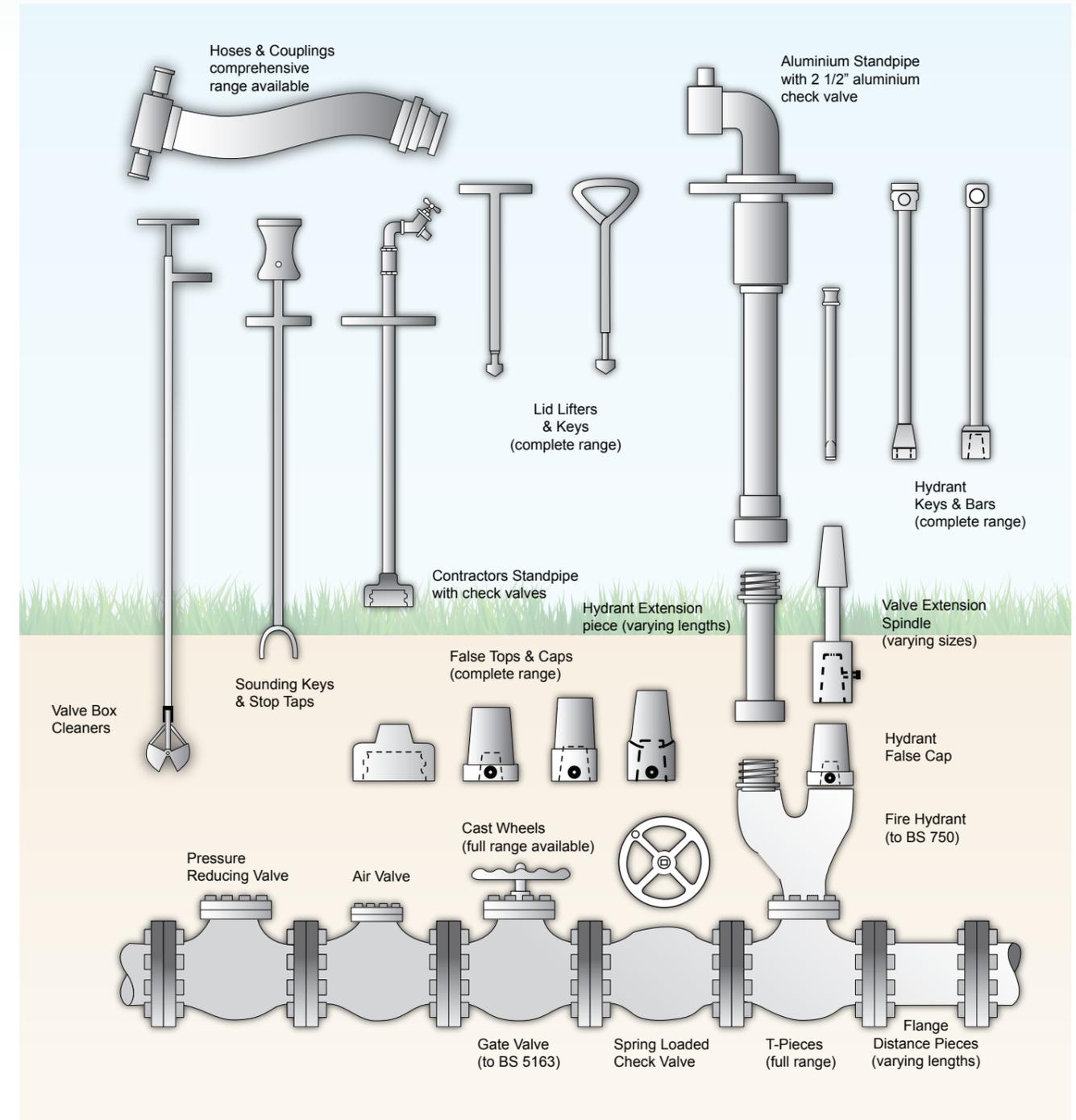
Flow chart for single check valves



Flow chart for double check valves



product line





Aquacheck Engineering Ltd

Royle Barn Road, Castleton, Rochdale, Lancashire OL11 3DT

Tel : +44 (0) 1706 344997

+44 (0) 1706 712593

Fax : +44 (0) 1706 641653

Email : sales@aquacheck.co.uk

www.aquacheck.co.uk