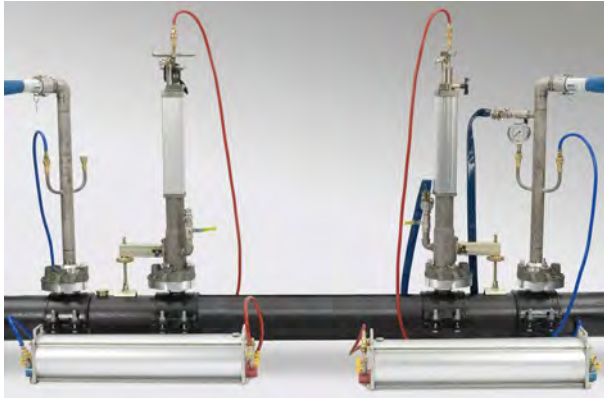


WATER FLOW STOPPING EQUIPMENT

Aquastop



Typical Aquastop 'set-up'



Viking Johnson Drilling Saddle
used exclusively for Aquastopping
metallic mains



Power Drive

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Aquastop & Hydrant Wizard – 'Water' Line Stopping Systems...

Hy-Ram is proud to be an 'official distributor' for the complete range of WASK Gas and Water equipment. WASK is a leading supplier of specialist Gas / Water fittings and equipment and has been serving the utilities market in excess of 120 years.

Similar to Hy-Ram, WASK has earned a reputation for developing technically innovative products in collaboration with leading international utility companies. Two such products are detailed below... Aquastop and Hydrant Wizard: Products developed in conjunction with Sarco Stopper.

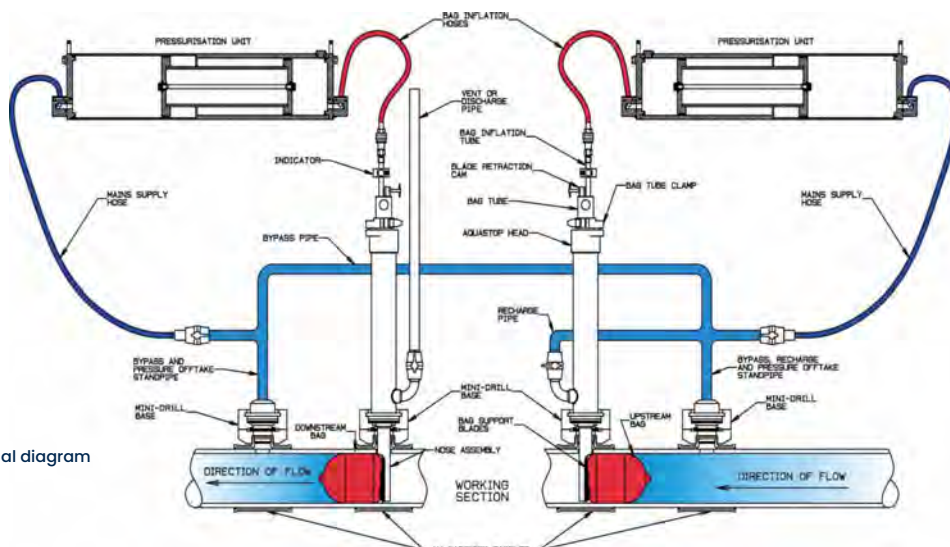
Aquastop – Key Features & benefits...

Flow stopping a water main enables live sections of main to be isolated for maintenance or repair thus minimising the disruption to customers' supplies.

WASK Aquastop can be used to line-stop cast and ductile iron, PE and PVC water pipes up to 8" (200mm) diameter and 8 bar pressure.

Aquastop – Key Features & benefits...

- Lightweight and compact in comparison to alternative equipment, resulting in ease and speed of handling and ability to work in spaces with restricted access including vertical pipework.
- Small diameter access holes result in reduced cost of consumable cutters as well as closure fittings and allows quicker installation than conventional methods.
- The ability to localise a repair ensures a minimum disruption to customers. The distance between isolation valves may be long and in this case, the number of customers deprived of water can be considerable.
- Automatic, pressure balanced headwork means that the effort required to launch and inflate the Sarco Aqua Hydro® bags remains low even with increasing or fluctuating pressures, allowing the operator to concentrate on the job in hand.
- Use of bypass allows minimum or no interruption to supply across stop off on the majority of mains, including single fed mains.
- Sarco Aqua Hydro® bags are inflated utilising the water pressure from the main. No additional power source is required for operation of the unit. The danger of over or under inflating the bags is eliminated.
- Equipment is easily sterilised before each use and is made from non-corroding materials.



Aquastop Operational diagram

Hydrant Wizard



Hydrant Wizard in use (Horizontal)



Hydrant Wizard Kit comes in Strong Wooden Carry Case

Hydrant Wizard...

The Hydrant Wizard has been designed to enable defective fire hydrants to be exchanged – 'underpressure'.

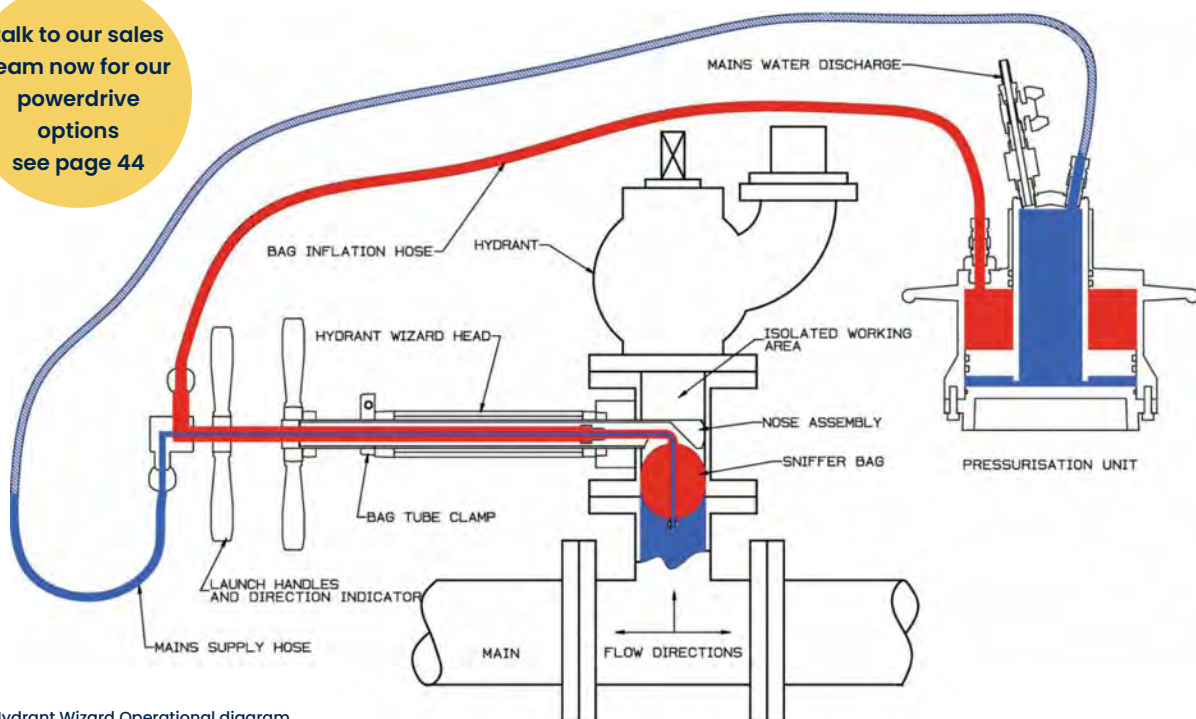
Previous practices for exchanging a hydrant involved shutting down the main either by closing valves or using traditional line-stopping techniques. However, valves could often be some distance away so that supplies to customers would be interrupted. In addition, both these methods of shutting down and restoring supply could disturb sediment in the main leading to complaints regarding water quality.

Hydrant Wizard – Key Features & benefits...

Flow stopping a water main enables live sections of main to be isolated for maintenance or repair thus minimising the disruption to customers' supplies.

- During development of Aquastop, a need for stopping off of hydrants was also identified. This also required developing a stopper bag jointly with Sarco Stopper resulting in the Sarco Mini Hydro® Bag
- Only the Hydrant is isolated; the flow in the main is not interrupted
- Supply and water quality are unaffected and sediment in the main is not disturbed
- Excavation is restricted to the area around the hydrant minimising the cost of labour and materials
- The small diameter access hole does not compromise the integrity of the pipe
The only consumables are the Sarco Mini Hydro® Bag and the Mini Golf Saddle which remains on the hydrant leg
- Easy to transport in small vehicle
- Prep tool enables easy access for the Sarco Mini Hydro® Bag regardless of tuberculation
- The equipment is compact and lightweight and suitable for confined areas
- Sarco Mini Hydro® Bags are inflated utilising the water pressure from the main. No additional power source is required for operation of the unit. The danger of over or under inflating the bags is eliminated
- Equipment is easily sterilised before each use and is made from non-corroding materials

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Hydrant Wizard Operational diagram