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Currently working at pressures of 50 PSI and at a temperature of 80 ºC the Valve Cone System can be used to replace conventional stuffing box packing applications.
Supported by Scottish Water, Severn Trent Water, Northumbrian Water, Folkestone & Dover Water Plc, this system is recommended by The UK Water Training Association.
William Johnston & Co Ltd supply this item in a WRC approved EPDM compound to assure it's suitability with potable water.

The Valve Cone System has proven to be exceptionally more durable than conventional packing whilst producing no known health or safety hazards.

Quality

William Johnston & Company Limited has BS EN ISO 9001:2000 and maintains ongoing quality assurance checks throughout the manufacturing process. Our suppliers all have full accreditation and our customers know with William Johnston & Company Limited that they can have complete confidence in the quality of the product. Full traceability can be provided and we are happy to work with our customers quality departments in ensuring their quality procedures are adhered too.

Training

Due to the simplicity of design there is no requirement for additional installation training. If you can replace a stuffing box packing then this system represents no significant technical issue.

Physical Installation Advantages

Due to the shore hardness of the Valve Cone System it will make a durable seal against a worn stem where conventional packings would struggle. The increase in leakage path pressure will enhance the sealing effect.

Cost Advantages

Extended life is the most obvious cost advantage. Installation and replacement is quicker and therefore less expensive. No skill is required to install the valve cone system. No modification to the original valve is required. If an authority is under penalty from loss of water supply, the ability to repair valves without interruption can repay cost by factors of thousands in one incident.

1. To replace a faulty gland packing with a valve cone the dimensions of the valve must be supplied.

   The diameter of the valve stem “A”

   The diameter of the stuffing box “B”

   These two measurements allow us to ascertain the correct valve cone for you purpose.

2. The valve should then be closed as far as possible.
3. The operating wheel and cover plate should then be removed and the faulty packing be removed with a packing extractor. If in doubt about the size of packing extractor require please consult with William Johnston & Co sales staff who will be glad to assist you. The packing extractors are available ex-stock as are the replacement tips.

PACKING EXTRACTORS

	TIP DIMENSIONS	TO SUIT PACKING UP TO
NO1	5.9MM X 25MM	5mm and 6.5mm
NO2	7.2MM X 25MM	8mm and 10mm
NO3	8.3MM X 28MM	11mm, 12.5mm and 16mm
NO4	12.3MM X 30MM	20mm and larger

An extraction tool, with long flexible shank to gain access to glands in difficult positions. The corkscrew tips are designed to embed firmly in all types of packing, including badly worn and hardened products.
A T-handle provides good grip for both screw action and the efficient removal of packings. This is a time tested and efficient way of removing braided packings from their housing.
Flexible drives are used to propel each tip and are pertinent to the individual sizes.

4. The valve stem is cleaned as much as possible with a wire wool or similar mildly abrasive material.
5. The valve cone is then slipped over the stem with the narrow end pointing down.
6. The packing cover plate is then replaced and tightened down until the valve seals.
7. The operating wheel can then be replaced and cycled a few times to seat the cone and finally the packing cover nuts are nipped up an extra half turn thus completing installation.