



Operation and Maintenance Guide



VS - 1

Models	Descriptions	IMPA Code
VS - 1	Valve Seat Cutter	63 34 51

Read this manual carefully before installing, operating or servicing this equipment. It's the responsibility of the employer to ensure this manual is read by the operator. Please preserve this manual.

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Introduction

Teryair Valve Seat Cutter is ideal for resurfacing of the valve seat surfaces on most types of valves. Cutters have cutting edges on both sides one side being slant and the other flat and are made from special high speed steel for cutting.

Technical Data

Teryair Model No	IMPA Code	Cutters Information	Contents
VS - 1	63 34 51	1", 2", 3" & 4" Cutters	Fixing bed, Spindle, Handle, Body

The Valve Seat Cutter is supplied in metal carry case. It is supplied with five standard cutter sizes, i.e. 1", 2", 3", & 4" sizes. Cutters have cutting edges on both top & bottom side. Topside have flat & bottom side have slanted cutting teeth. Cutters are made from special grade of high speed steel to retain their cutting edges over prolonged use.

Operation

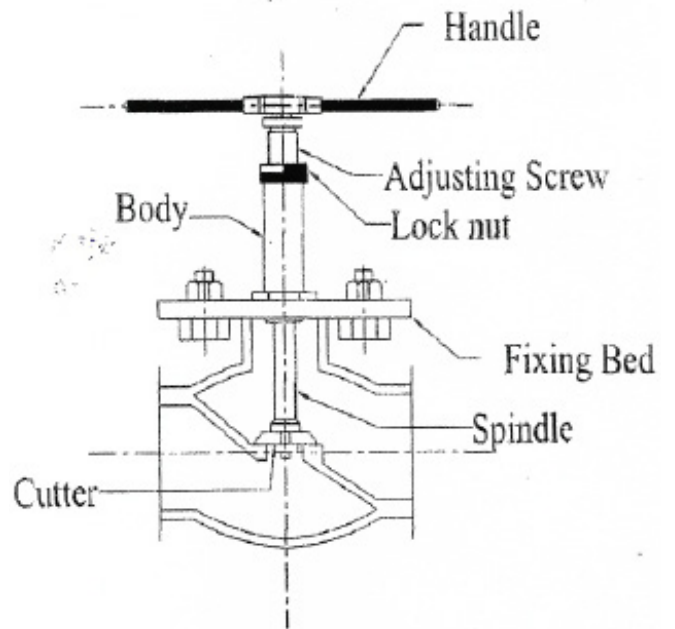
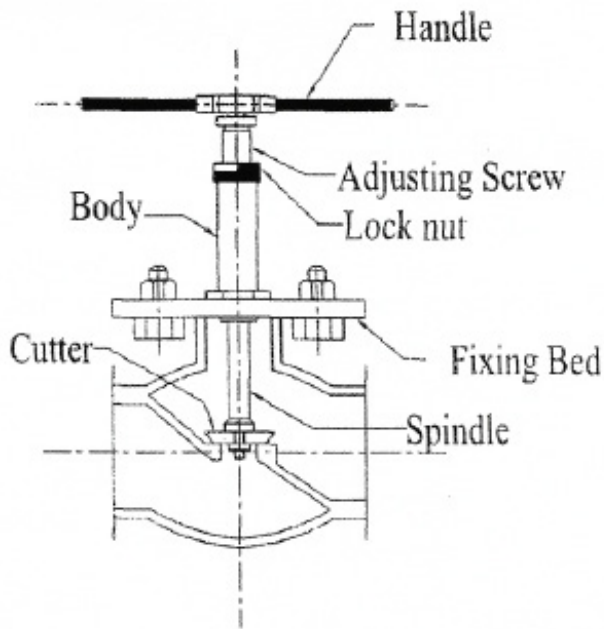
Hold fixing bed and screw on to the body till the face of body reset properly on fixing bed. See that the bore in body is perpendicular to the bed. From the other side of fixing bed, insert spindle in the bore of body with square head of spindle projecting out of the body. Screw in lock nut in adjusting screw and insert spindle end through the bore of adjusting screw and then fix adjusting screw in to the body. Assemble the handle in square portion of spindle and tighten it. Select the cutter to be as per the damaged seat in valve and tighten the cutter on another end of spindle. Insert the cutter through bore of flange on valve so that fixing bed rests on flange of valve (refer exploded view) With the help of two nos of nuts and bolts, fix the fixing bed on flange with the help of adjusting screw and lock nut, adjust the height of spindle within the valve. After aligning the spindle carefully, rotate handle in

clockwise direction by applying little pressure on the handle. the cutter operation will be and with a little depth of cut valve seat will get freshly cut(levelled)..

Maintenance

After every use, clean the cutting edges of cutter with a brush and keep oiled. Dismantle all the parts, clean them properly and place in metal carry case to avoid misplacing of parts. This valve seat cutter is ideal for re-surfacing of damaged valve seats in gate valves or in similar types of valves, and also for removal of mineral salt deposited on valve seat, thus enhance the sealing of valve & reduce leakage.

Exploded View for VS-1



EU DECLARATION OF CONFORMITY

We hereby certify that the Listed Product stipulated below comply with all relevant provisions of the machinery directive (2006/42/EC) and the national laws and regulations adopting this directive.

Description : **Valve Seat Cutter**

Model Number : **VS-1**

Is in conformity with the provisions of the following European Directives: (2006/42/EC) Machinery Safety and Harmonized standards

ISO 12100-1: 2010: Safety of Machinery –general Principles for Design –Risk Assessment and Risk Reduction.

Registered Office : TERYAIR EQUIPMENT PVT. LTD.
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Web site : www.teryair.com

Works : A-1, Tirupati Udyog Nagar, Sativali Road, Vasai East,
Palghar – 401208, Maharashtra, India.

CE certification registration no – C E 16831

Issued by – BMQR Certifications Pvt Ltd.
www.cemarking-india.com

Valid Till – 03/11/2025

Signed for and on behalf of

TERYAIR EQUIPMENT PVT. LTD.

Place of Issue : Vasai



Warranty Certificate

Every product manufactured by Teryair
is built to meet the highest standards of quality.

Teryair warrants that the Products, accessories and parts manufactured or supplied by the company be free from defects in material and workmanship for a period of six months from date of Teryair authorized dealer invoice to customer, or one year from date of Teryair invoice to dealer, whichever is earlier. Failure due to normal wear, misapplication, or abuse is, of course, excluded from this warranty.

Since the use of Teryair products and parts is beyond our control, Teryair cannot guarantee the suitability of any product or part for a particular application and Teryair shall not be liable for any consequential damage or expense arising from the use or misuse of its products on any application. Teryair does not warranty bought out products or components such as electric motors and hardware but will assist in directing warranty queries to the dealer/manufacturer responsible. Teryair responsibility is limited solely to replacement or repair of defective Teryair products or components.

Dealer/End User shall have no right or remedy and Teryair shall have no liability or obligation under the warranty, if: (i) a Product is altered, changed, modified or tampered with in any way; (ii) a Product is damaged after deposit with the transporter for shipment; (iii) a Product is not properly preserved, packaged, stored, processed or handled after receipt; (iv) a Product is not used and maintained in accordance with Teryair's recommended operating and maintenance manuals, instructions and procedures, if any; (v) a Product is not properly incorporated or installed in, or not properly combined with, an Other Product; (vi) the issue with a Product is directly or indirectly attributable to, or directly or indirectly results from or arises out of, a failure, substandard performance or other issue with another product, material, component or part not supplied by Teryair; (vii) the issue with a Product is directly or indirectly attributable to, or directly or indirectly results from or arises out of, compliance with any design, specification or other specific requirement of Dealer/End User; (viii) a Product is used in a manner, with a substance or for a purpose other than the normal manner, substance and purpose for which it is intended or is otherwise subjected to abnormal use or service; (ix) a Product is subjected to a power surge, brown out or other similar occurrence; (x) the issue with a Product is directly or indirectly attributable to, or directly or indirectly results from or arises out of, normal wear and tear of such Product (including, without limitation, things such as worn seals, diaphragms, balls, O rings, gaskets, chisels, cutters, hoses and other such wearing components; (xi) the issue with a Product is directly or indirectly.

Model Number : VS-1

M Yadav, Q.A. Manager
(Company Seal)

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