

Product:	F3-VCR-43
Order-No.:	F3-VCR-434
Serial-Nummer:	F3-592
VSE Order-No.	3000-459
Delivery Date	09.06.2009
Customer:	TRIUMF
Customer Order No.	TR179013
Rejection No.:	-
Received Date	31.1.0.2011
Repair Date	02.11. – 03.11.2011
Warranty	No.

Complaint:

Valve is early and abruptly tight. No control of leak below 10^{-6} mbar/s possible.

Verification at VSE:

Valve was tested on the leak detector. Tight at position 720, control of leak below 10^{-6} mbar/s not possible.

Repair:

Valve was disassembled and the valve seat and diaphragm (sealing) was inspected with microscope. See Figure 1.



Figure 1: Diaphragm (60x scale)

The diaphragm was cleaned but it could not be used again, because part of the contamination remained. See Figure 2.



Figure 2: Diaphragm after cleaning

The valve was reassembled with a new diaphragm and a test protocol was made. See Figure 3.

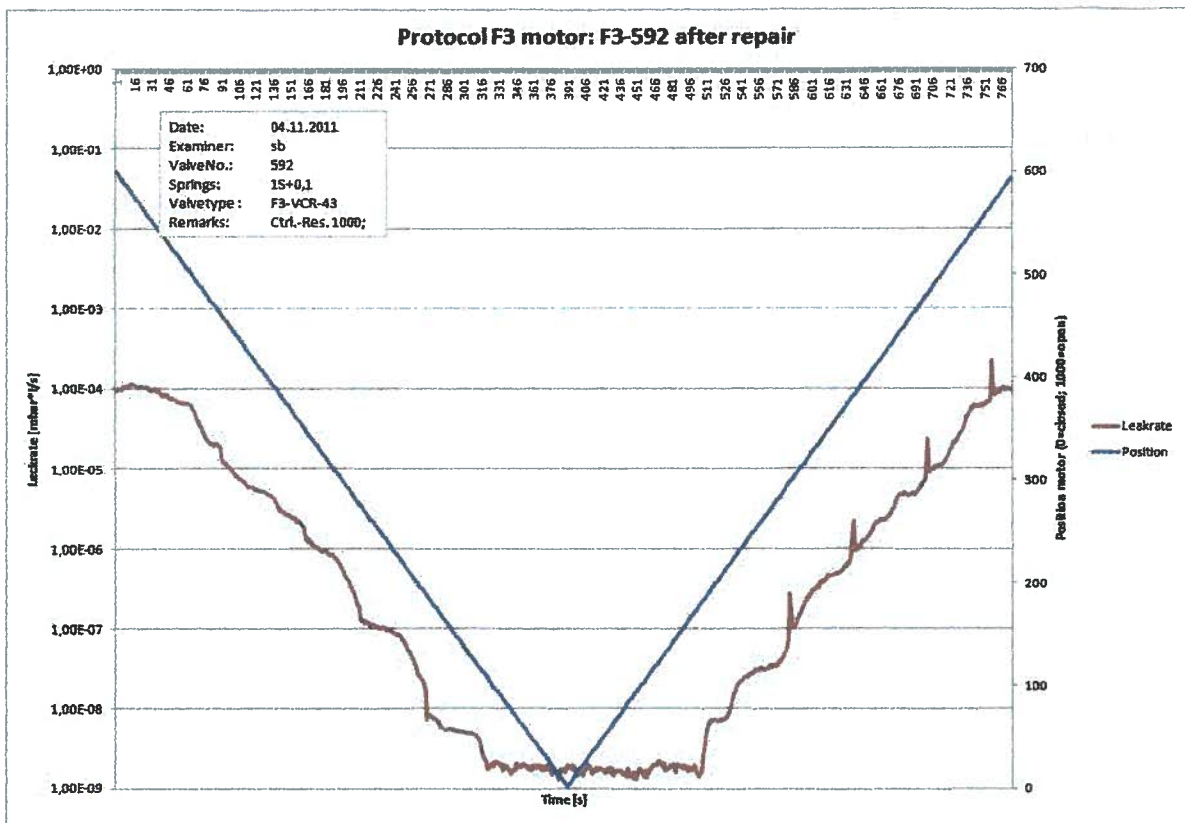
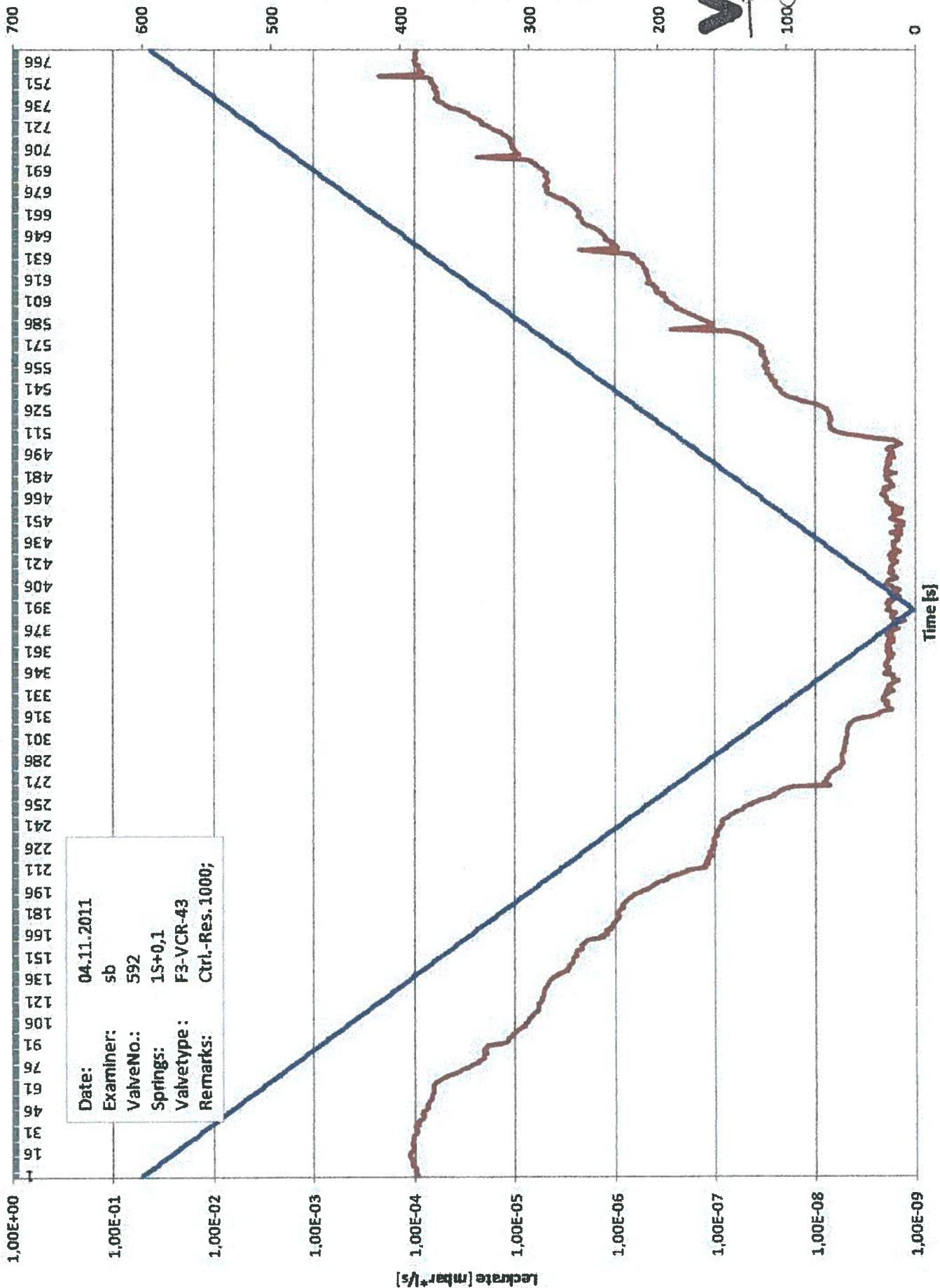


Figure 3: Test protocol after repair

Valve was packed and shipped, the damaged diaphragm included.

Protocol F3 motor: F3-592 after repair



Date: 04.11.2011
 Examiner: sb
 ValveNo.: 592
 Springs: 1S+0,1
 Valvetype: F3-VCR-43
 Remarks: Ctrl.-Res. 1000;

Leakrate
 Position

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