



Model No.: SFC-EDE Torque Tool

Serial No.:

SFC Ref No.:



CONTENTS

- 1 Contents Page & Introduction
- 2 Training Requirements General Safety
- 3 General Safety Continued, Manual Noise & Vibration Levels
- 4 SFC-EDE Tool Features & Accessories
- 5 Typical SFC-EDE Torque Setting
- 6 SFC-EDE Torque Setting Continued & Operating the Torque Tool
- 7 Maintenance, Recalibration, Warranty & Contact Information



1. INTRODUCTION

The SFC-EDE Electric Torque Tool is a handheld, battery driven reversible non-impacting torque tool intended to safely manage valve operations.

The SFC-EDE Electric Torque Tool must always be used with the following:-

- 110v or 240v Electrical Supply (Dependent on model purchased)
- Reaction Kit

It is the responsibility of the user to consider associated site risks before introducing the equipment into the workplace.

2. TRAINING REQUIREMENTS

Training on the correct use of the SFC-EDE Electric Torque Tool is available. Please contact Smith Flow Control Limited for more information.

GENERAL SAFETY

The improper use of the SFC-EDE Electric Torque Tool is unsafe and may result in personal injury. It is important that operators have read, understood and comply with all instructions in this user guide.

Operators must be equipped with the following personal protective equipment (PPE):

- Eye Protection (Safety Glasses / Goggles)
- Safety Footwear (Steel Toe Cap Boots)
- Heavy Gloves

3. GENERAL SAFETY CONTINUED

- All electric equipment and ancillary products should be inspected for damage and irregularities prior to use.
- Ensure that power cables are not run across walkways, ladders, roadways and doorways, etc and that personnel who are likely to pass through the working area are made aware of the potential hazard. Take care not to stand on, run over or trip over the power cable.
- Direct the tool away from operator/personnel.
- To prevent entanglement with rotating parts, operators must not wear loose items e.g. clothing, ties, jewellery and long hair must be tied back.
- Keep hands, fingers and body parts clear of the reaction arm at all times as trapping can result in serious personal injury.



SFC-EDE TORQUE TOOL MODELS COVERED BY THIS MANUAL

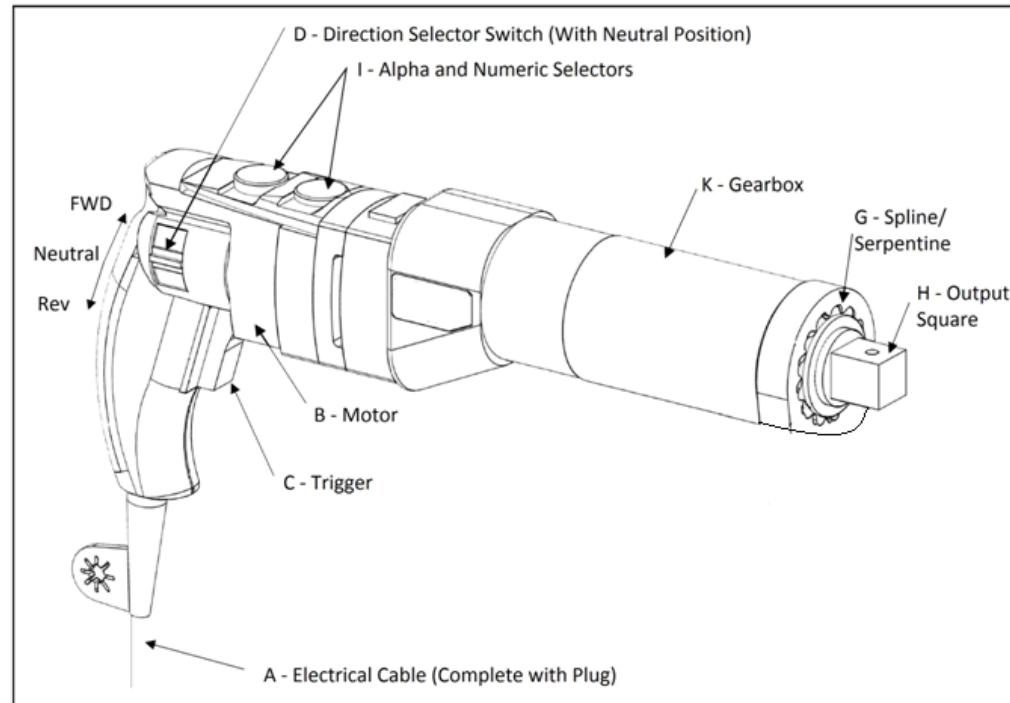
Model	Weight kg	Speed rpm		Torque Range (~Nm)		Square Drive
		Single	Auto	Min	Max	
SFC-EDE6	4.5	21	N/A	150	500	3/4"

NOISE & VIBRATION LEVELS

NOISE: Equivalent continuous A weighted sound pressure level is less than 85 dB (A).

VIBRATION: Vibration level at handle does not exceed 2.5m/sec.

4. SFC-ED VC TORQUE TOOL FEATURES



ACCESSORIES AVAILABLE

The following accessories are available upon request and can be custom made to suit requirements. Please contact Smith Flow Control Limited for more information:-

- Reaction Kit
- Offset Gearbox



TORQUE REACTION

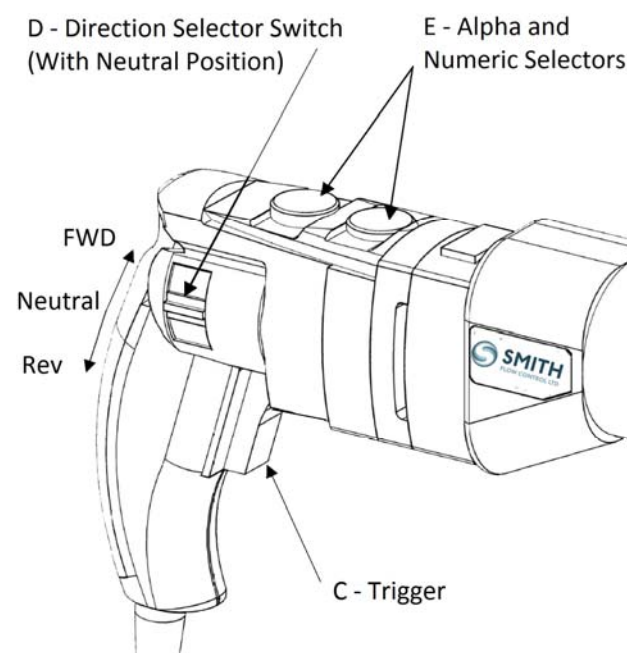
All valve movement is fully controlled by the Torque Reaction Device, providing complete protection from potential 'kick'.

5. SETTING TORQUE FOR VALVE OPERATION (CLOSING)

- Ensure the direction selector switch (D) is set to forward
- Identify the torque required for the bolting application.
 - The SFC-EDE Electric Torque Tool comes with a torque calibration certificate. The torque calibration certificate displays alpha and numeric characters that are dialled in on the tool that correspond to the torque values to the right. To select a desired torque, dial in your SFC-EDE by using the alpha and numeric selectors (E) on the top of the SFC-ED VC.
 - For example on the "Sample SFC-EDE Calibration Certificate" below to tighten to 730Nm set the Alpha and Numeric Selectors (E) to C,3.

CAUTION: DO NOT ATTEMPT TO RUN THE TOOL WITH SETTINGS THAT ARE NOT DISPLAYED ON THE TORQUE CHART OR CALIBRATION CERTIFICATE. FAILURE TO DO SO COULD CAUSE THE TOOL TO FAIL AND VOID YOUR WARRANTY

Sample SFC-EDE Calibration Certificate (Nm)	
B2	380
C2	450
E2	520
F2	590
G2	660
C3	730
D3	800
E3	870
F3	940
G3	1010
D4	1080
E4	1150
C5	1220
F4	1290
G4	1350



SETTING TORQUE FOR VALVE OPERATION (OPENING)

- Ensure the direction selector switch (D) is set to reverse
- Set the torque to maximum
 - The SFC-EDE Electric Torque Tool comes with a torque calibration certificate. The torque calibration certificate displays alpha and numeric characters that are dialled in on the tool that correspond to the torque values to the right. To select a desired torque, dial in your SFC-EDE by using the alpha and numeric selectors (E) on the top of the SFC-EDE.
 - For the "Sample SFC-EDE Torque Calibration Certificate" shown above the maximum torque is G,4

6. OPERATING THE TORQUE TOOL

- 1) Fit the tool into the universal, 'bolt-on', handwheel drive plate.
- 2) Move the Direction Selector Switch (D) from the neutral position and into either forward or reverse as required.
- 3) Squeeze the soft start Trigger (C) to activate the tool and apply the torque.
- 4) Fully press the soft start Trigger (C) and keep pressed until the tool stalls. If the trigger is released before the torque tool stalls, full torque will not be applied to the valve. Once the motor stalls do not "blip" the trigger, or incorrect torque will be applied.
- 5) In use, the torque tool must be supported at all times.
- 6) If a valve will not operate when the tool is set to maximum on the calibration certificate, do not "blip" the trigger repeatedly, and use tooling of higher torque output.
- 7) Remove tool from valve.

IMPORTANT: If breakdown, malfunction or damage occurs do not attempt to repair, contact Smith Flow Control Limited

7) MAINTENANCE AND RECALIBRATION

To prevent premature failure and ensure confidence in torque supply, it is recommended that this equipment is serviced and calibrated at least on an annual basis.

WARRANTY

SFC-EDE comes with a one year (1) conditional warranty.

SFC-EDE is guaranteed against manufacturer and material defects, but not against abuse, misuse or neglect by the user. The Square Drive is a non warranty item.





8) CONTACT DETAILS

Smith Flow Control Ltd
6 Waterside Business Park
Eastways Industrial Estate
Witham
Essex
CM8 3YQ
United Kingdom

Tel: +44 (0)1376 517901
Email: sales@smithflowcontrol.com

