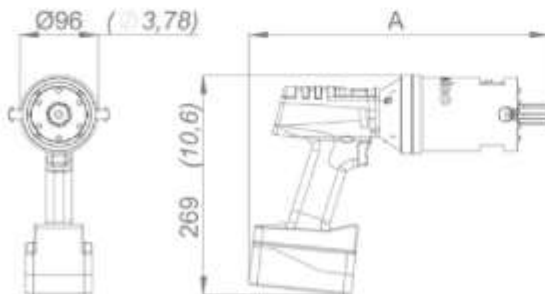


Although it is **super light and compact**, the MC89 Portable Valves Actuator delivers a **850 Nm** (620 lb.ft) maximum torque. This makes it the perfect tool for any « **Easy** » or « **Standard** » duty job, for any valve type, indoor or outdoor, with a great autonomy. Its two **18V Lithium-Ion batteries** allow to use it continuously during **up to one hour**. For an even more intensive usage, use the **main power connection kit** that plugs on the actuator just like a battery and provides an **unlimited autonomy**.

Designed for any type of operation, the MC89 comes with 3 models only that cover a **0 to 450 rpm speed** range and a **850 Nm maximum torque**. No need to say that even the most stubborn valves can be operated! No worry though, the **integrated electronic torque limiter** will easily prevent any damages for your valve or the tool itself.

## LAYOUT



LAYOUT	Weight (kg)	Length "A" (mm)
MC89E - 007	5,1	354
MC89S - 035	5,1	354
MC89S - 054	5,4	367
Battery	0,7	

Watt → Horse power

W x 0,001341 = cv

Newton meter → Foot pound

Nm x 0,7376 = lb.ft

Millimeter → inch

mm x 0,03937 = in

Kv → Cv

Kv x 0,07 = Cv

Bar → pound / square inch

Bar x 14,5 = psi

Normo liter / minute → Standard cube feet / minute

NL / min x 0,03531 = scfm

Kilogramme → Pound

Kg x 2,205 = lb

### BATTERIES AND CHARGERS

Batteries technical data	BAT143	BAT144	Charger technical data	BAT145	BAT146
Voltage	18V		Power supply (input)	220-240V AC	
Capacity	5,20 Ah	6,20 Ah	Mains frequency	50 / 60 Hz	
Autonomy*	24 mn	29 mn	Charging voltage (output)	10,8 - 18 V DC	
Charging times with standard charger BAT145	45 mn	53 mn	Quick charging	Max 6A	Max 8A
Charging times with quick charger BAT146	33 mn	40 mn	Charging temperature range	-5 à +55°C	
Weight (kg)	0,7 kg	0,7 kg	Safety class	II	
			Weight (kg)	0,8 kg	1,1 kg



\*Autonomy measured at 50% of the maximum load

The main power connection kit (ref BAT147) connects any main power plug to the actuator (in place of the battery) and provides an unlimited autonomy.

### SPEED CONTROLLER & ELECTRONIC TORQUE LIMITER

The MC89 comes with an embedded **speed control and torque limiter electronic system** for an optimal **people and material protection** as well as a **perfect adaptation** to different constraints and environments. By adjusting the speed control trigger (4 positions) and the max torque scroll wheel

(13 positions), you can set the required torque limit and / or rotation speed. When reaching the torque limit, the actuator will stop and sound a beep. The speed control trigger allows to set 4 different speeds and for each of these speeds, the torque scroll wheel allows to set 13 different torque limits.



### OPTIONS AND ACCESSORIES

OPTIONS (page 5)	
Digital revolution counter	▶
CODE	00 02

! Check the technical data sheet to see which options and accessories are capable of withstanding the torque created by the actuator !

ACCESSORIES	Page
Drive head	6
Adaptors and interfaces	7-14
Torque reaction systems	15-17
Other accessories	20

### PERFORMANCE

Straight or with RA30	Free speed (rpm)	Max torque (Nm)	Options available
			02
MC89E-007	450	115	▶
MC89S-035	94	550	▶
MC89S-054	61	850*	▶



Warning !

Do not use the RA30 right angle head when the torque is higher than 600 Nm (440 lb.ft) or set the torque limit to 600 Nm before use. Read user's manual for more information.

With banjo head BJH01	Free speed (rpm)	Max torque (Nm)
MC89E-007	113	460
MC89S-035	24	600*
MC89S-054	14	600*

\* Warning ! The maximum acceptable torque for the BJH01 is 600 Nm (440 lb.ft). Do not use the BJH01 if the torque required is higher than 600 Nm (440 lb.ft), use the torque limiter to limit the input torque to 150 Nm (110 lb.ft) (see stickers on the actuator and table hereafter).



With banjo head BJH02	Free speed (rpm)	Max torque (Nm)
MC89E-007	150	350
MC89S-035	31	1000*
MC89S-054	20	1000*

\* Warning ! The maximum acceptable torque for the BJH02 is 1000 Nm (740 lb.ft). Do not use the BJH02 if the torque required is higher than 1000 Nm (740 lb.ft), use the torque limiter to limit the input torque to 330 Nm (240 lb.ft) (see stickers on the actuator and table hereafter).



#### IMPORTANT

For your comfort and safety, please carefully read the instruction manual before using the portable valve actuator.