



REDUCTION RATIO

(1 to 3 digits)
see table overleaf

H L 8 3 X X X X X X

E = Easy duty
S = Standard duty
H = Heavy duty

OPTION

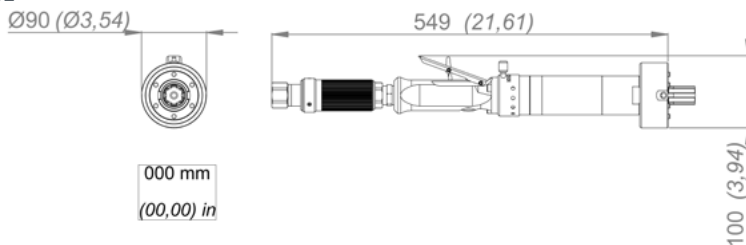
(2 digits)
see table overleaf

modtec pneumatic portable valve actuators are the most **compact**, **light** and **powerful**. They offer a wide choice in terms of power and **can be used in all environments**, even the very difficult ones.

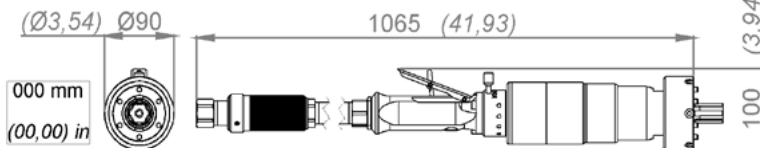
You can have them **ATEX II 2 GD c IIC T6 to T4** certified, they can go to stall and they don't generate heat, sparks or smoke.

LAYOUT

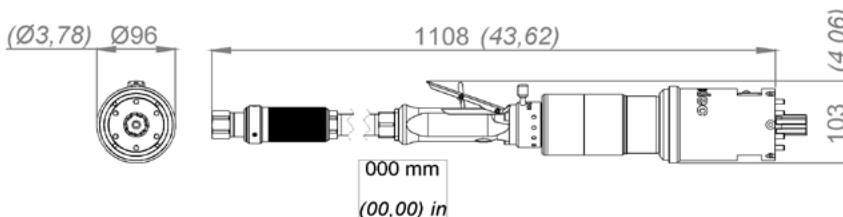
HL83E



HL83S



HL83H



| LAYOUT | Weight kg (lb) |
|--------|----------------|
| HL83E | 3,6 (7,9) |
| HL83S | 6,5 (14,3) |
| HL83H | 8,4 (18,5) |

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

OPTIONS AND ACCESSORIES

| OPTIONS (page 5) | | | | | | |
|----------------------------|----|----|----|----|----|----|
| Right-angled head RA20 | | ▶ | | | ▶ | |
| Digital revolution counter | | | ▶ | | | ▶ |
| Torque limiter* | | | | ▶ | ▶ | ▶ |
| CODE | 00 | 01 | 02 | 03 | 04 | 05 |

| ACCESSORIES | Page |
|-------------------------|-------|
| Drive head | 6 |
| Adaptors and interfaces | 7-14 |
| Torque reaction systems | 15-17 |
| Air management | 18-19 |
| Other accessories | 20 |

*see torque and speed values page 5 : « Options »
 Not all options are available for all models.
 See below for availability.

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

CONNECTION AND LUBRICATION

| CONNECTION & LUBRICATION | Air consumption Nl/min (scfm) | Connection | Minimum Ø for fittings mm (in) | Minimum Ø for pipes mm (in) | Lubrication Drops/min | FRL unit | SAT Box |
|--------------------------|----------------------------------|------------|--------------------------------|-----------------------------|-----------------------|----------|---------|
| HL83S/H | 2000 (71) | G 3/4 | 8,2 (0,32) | 12 (0,47) | 6 | AC107 | AC118 |

Make sure you use a good quality FRL unit (Filtration, Pressure Regulation and Lubrication), capable of filtering air at 40µm.

PERFORMANCE

| Straight or with RA30 | Free speed (rpm) | | | Max torque (Nm (lb.ft)) | | | Starting torque (Nm (lb.ft)) | | | Options available | | | | |
|-----------------------|------------------|-----------------|------------------|-------------------------|-----------------|------------------|------------------------------|-----------------|------------------|-------------------|----|-----|-----|-----|
| | 4 bars (58 psi) | 5 bars (72 psi) | 62 bars (90 psi) | 4 bars (58 psi) | 5 bars (72 psi) | 62 bars (90 psi) | 4 bars (58 psi) | 5 bars (72 psi) | 62 bars (90 psi) | 01 | 02 | 03* | 04* | 05* |
| HL83E-023 | 500 | 530 | 560 | 13 (10) | 17 (13) | 21 (15) | 10 (7) | 14 (10) | 17 (13) | ▶ | | | | |
| HL83E-054 | 220 | 230 | 240 | 31 (23) | 39 (29) | 49 (36) | 25 (18) | 31 (23) | 39 (29) | ▶ | | | | |
| HL83S-035 | 230 | 250 | 270 | 100 (74) | 120 (89) | 145 (107) | 80 (59) | 96 (71) | 116 (85) | ▶ | ▶ | ▶ | ▶ | ▶ |
| HL83S-060 | 130 | 140 | 150 | 170 (125) | 200 (150) | 250 (180) | 130 (96) | 160 (120) | 200 (150) | ▶ | ▶ | ▶ | ▶ | ▶ |
| HL83H-111 | 70 | 76 | 83 | 250 (180) | 300 (220) | 370 (270) | 230 (170) | 280 (210) | 350 (260) | | ▶ | ▶ | ▶ | ▶ |
| HL83H-169 | 46 | 50 | 54 | 380 (280) | 450 (330) | 570 (420) | 300 (220) | 360 (270) | 450 (330) | | ▶ | ▶ | ▶ | ▶ |
| HL83H-321 | 24 | 26 | 29 | 720 (530) | 860 (640) | 1070 (790)** | 670 (490) | 810 (600) | 1010 (750)** | | ▶ | ▶ | | ▶ |



| With RA20 right angle head | Free speed (rpm) | | | Max torque (Nm (lb.ft)) | | | Starting torque (Nm (lb.ft)) | | | Options available | | | | |
|----------------------------|------------------|-----------------|------------------|-------------------------|-----------------|------------------|------------------------------|-----------------|------------------|-------------------|----|-----|-----|-----|
| | 4 bars (58 psi) | 5 bars (72 psi) | 62 bars (90 psi) | 4 bars (58 psi) | 5 bars (72 psi) | 62 bars (90 psi) | 4 bars (58 psi) | 5 bars (72 psi) | 62 bars (90 psi) | 01 | 02 | 03* | 04* | 05* |
| HL83E-023 | 380 | 400 | 420 | 18 (13) | 22 (16) | 28 (21) | 14 (10) | 18 (13) | 22 (16) | ▶ | | | | |
| HL83E-054 | 160 | 170 | 180 | 41 (30) | 52 (38) | 65 (48) | 33 (24) | 42 (31) | 52 (38) | ▶ | | | | |
| HL83S-035 | 170 | 180 | 190 | 120 (90) | 160 (120) | 190 (140) | 96 (71) | 130 (95) | 150 (110) | ▶ | | | ▶ | |
| HL83S-060 | 100 | 105 | 115 | 220 (160) | 270 (200) | 330 (240) | 175 (130) | 215 (160) | 265 (200) | ▶ | | | ▶ | |
| HL83H-111 | Not available | | | | | | | | | | | | | |
| HL83H-169 | Not available | | | | | | | | | | | | | |
| HL83H-321 | Not available | | | | | | | | | | | | | |



| With banjo head BJH01 | Free speed (rpm) | | | Max torque (Nm (lb.ft)) | | | Starting torque (Nm (lb.ft)) | | | Options available | | | | |
|-----------------------|------------------|-----------------|------------------|-------------------------|-----------------|------------------|------------------------------|-----------------|------------------|-------------------|----|-----|-----|-----|
| | 4 bars (58 psi) | 5 bars (72 psi) | 62 bars (90 psi) | 4 bars (58 psi) | 5 bars (72 psi) | 62 bars (90 psi) | 4 bars (58 psi) | 5 bars (72 psi) | 62 bars (90 psi) | 01 | 02 | 03* | 04* | 05* |
| HL83E-023 | 120 | 130 | 140 | 54 (40) | 65 (48) | 82 (60) | 52 (38) | 64 (47) | 72 (53) | | | | | |
| HL83E-054 | 52 | 56 | 60 | 125 (92) | 150 (110) | 190 (140) | 115 (84) | 150 (110) | 180 (130) | | | | | |
| HL83S-035 | 57 | 62 | 67 | 350 (260) | 430 (320) | 530 (390) | 280 (210) | 340 (250) | 420 (310) | | ▶ | ▶ | | ▶ |
| HL83S-060 | Not available | | | | | | | | | | | | | |
| HL83H-111 | Not available | | | | | | | | | | | | | |
| HL83H-169 | Not available | | | | | | | | | | | | | |
| HL83H-321 | Not available | | | | | | | | | | | | | |



| With banjo head BJH02 | Free speed (rpm) | | | Max torque (Nm (lb.ft)) | | | Starting torque (Nm (lb.ft)) | | | Options available | | | | |
|-----------------------|------------------|-----------------|------------------|-------------------------|-----------------|------------------|------------------------------|-----------------|------------------|-------------------|----|-----|-----|-----|
| | 4 bars (58 psi) | 5 bars (72 psi) | 62 bars (90 psi) | 4 bars (58 psi) | 5 bars (72 psi) | 62 bars (90 psi) | 4 bars (58 psi) | 5 bars (72 psi) | 62 bars (90 psi) | 01 | 02 | 03* | 04* | 05* |
| HL83E-023 | 160 | 170 | 180 | 40 (30) | 49 (36) | 62 (46) | 32 (24) | 39 (29) | 50 (37) | | | | | |
| HL83E-054 | 70 | 75 | 80 | 95 (70) | 115 (84) | 145 (110) | 76 (56) | 92 (68) | 115 (84) | | | | | |
| HL83S-035 | 75 | 82 | 90 | 260 (190) | 320 (240) | 400 (290) | 210 (155) | 260 (190) | 320 (240) | | ▶ | ▶ | | ▶ |
| HL83S-060 | 44 | 48 | 52 | 450 (330) | 550 (400) | 680 (500) | 360 (270) | 440 (320) | 540 (400) | | ▶ | ▶ | | ▶ |
| HL83H-111 | 23 | 25 | 28 | 750 (550) | 900 (660) | 1100 (810)** | 690 (510) | 840 (620) | 1050 (770)** | | ▶ | ▶ | | ▶ |
| HL83H-169 | Not available | | | | | | | | | | | | | |
| HL83H-321 | Not available | | | | | | | | | | | | | |



*see torque and speed values page 5 : « Options »

**Warning ! Do not use the actuator when the torque is higher than 1000 Nm (740 lb.ft) or use a torque limiter

IMPORTANT

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

PETROL PORTABLE VALVE ACTUATORS PY68



REDUCTION RATIO

(1 to 3 digits)
see table overleaf



E = Easy duty
S = Standard duty
H = Heavy duty

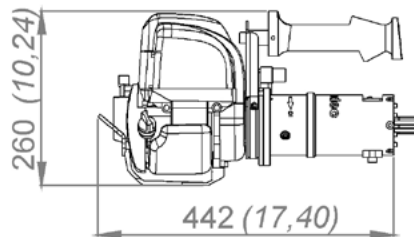
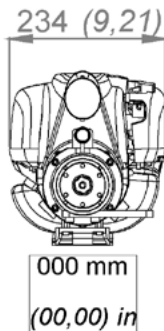
OPTION

(2 digits)
see table overleaf

modtec petrol portable valve actuators can be used in **total autonomy** – the only limit being the available petrol supply. They are particularly suitable for use in **isolated outdoor places**.

Extremely robust, they have an **integrated clutch system which protects the operator and the equipment**, even if a valve is completely blocked.

LAYOUT



| LAYOUT | Weight*(kg) (lb) |
|--------|------------------|
| PY68E | 10 (22) |
| PY68S | 10,3 (22,7) |
| PY68H | 10,3 (22,7) |

*Empty weight
Gas tank capacity : 0.5 l (0.13 US gal)

Watt → Horse power

W x 0,001341 = cv

Bar → pound / square inch

Bar x 14,5 = psi

Newton meter → Foot pound

Nm x 0,7376 = lb.ft

Normo liter / minute → Standard cube feet / minute

NL / min x 0,03531 = scfm

Millimeter → inch

mm x 0,03937 = in

Kilogramme → Pound

Kg x 2,205 = lb

Kv → Cv

Kv x 0,07 = Cv

OPTIONS AND ACCESSORIES

| OPTIONS (page 5) | | | | |
|----------------------------|----|----|----|----|
| Digital revolution counter | | ▶ | | ▶ |
| Torque limiter* | | | ▶ | ▶ |
| CODE | 00 | 02 | 03 | 05 |

*see torque and speed values page 5 : « Options »
 Not all options are available for all models.
 See below for availability.

! 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 (lb.ft)) | Starting torque (Nm (lb.ft)) | Options available | | |
|-----------------------|------------------|-------------------------|------------------------------|-------------------|-----|-----|
| | | | | 02 | 03* | 05* |
| PY68E-031 | 305 | 55 (41) | 41 (30) | ▶ | ▶ | ▶ |
| PY68S-087 | 100 | 150 (110) | 115 (85) | ▶ | ▶ | ▶ |
| PY68S-148 | 64 | 260 (190) | 195 (145) | ▶ | ▶ | ▶ |
| PY68H-192 | 50 | 340 (250) | 250 (180) | ▶ | ▶ | ▶ |
| PY68H-293 | 32 | 520 (380) | 390 (290) | ▶ | ▶ | ▶ |
| PY68H-641 | 15 | 1140 (840)** | 850 (630) | ▶ | ▶ | ▶ |

| With banjo head BJH01 | Free speed (rpm) | Max torque (Nm (lb.ft)) | Starting torque (Nm (lb.ft)) | Options available | | |
|-----------------------|----------------------|-------------------------|------------------------------|-------------------|-----|-----|
| | | | | 02 | 03* | 05* |
| PY68E-031 | 75 | 220 (160) | 160 (120) | ▶ | ▶ | ▶ |
| PY68S-087 | 27 | 600 (440) | 460 (340) | ▶ | ▶ | ▶ |
| PY68S-148 | Not available | | | | | |
| PY68H-192 | | | | | | |
| PY68H-293 | | | | | | |
| PY68H-641 | | | | | | |

| With banjo head BJH02 | Free speed (rpm) | Max torque (Nm (lb.ft)) | Starting torque (Nm (lb.ft)) | Options available | | |
|-----------------------|----------------------|-------------------------|------------------------------|-------------------|-----|-----|
| | | | | 02 | 03* | 05* |
| PY68E-031 | 100 | 165 (120) | 120 (90) | ▶ | ▶ | ▶ |
| PY68S-087 | 36 | 460 (340) | 350 (260) | ▶ | ▶ | ▶ |
| PY68S-148 | 21 | 790 (580) | 590 (440) | ▶ | ▶ | ▶ |
| PY68H-192 | 16 | 1000 (740)** | 760 (560) | ▶ | ▶ | ▶ |
| PY68H-293 | Not available | | | | | |
| PY68H-641 | | | | | | |



*see torque and speed values page 5 : « Options »

** Warning ! Do not use the actuator when the torque is higher than 1000 Nm (740 lb.ft) or use a torque limiter

IMPORTANT

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

BATTERY POWERED PORTABLE VALVE ACTUATORS MC89



REDUCTION RATIO

(1 to 3 digits)
see table overleaf

M C 8 9 X X X X X X

E = Easy duty
S = Standard duty

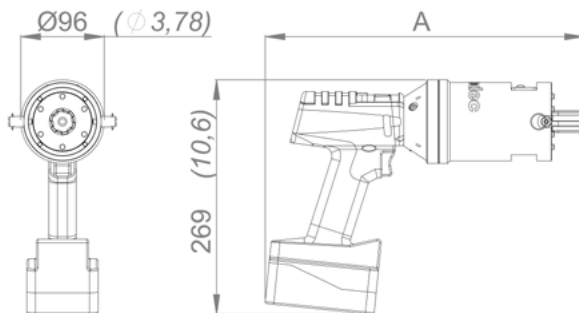
OPTION

(2 digits)
Vsee table overleaf

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 |
|---------------------------------------------|---------|---------|
| Voltage | 18V | |
| Capacity | 5,20 Ah | 6,20 Ah |
| Autonomy* | 24 mn | 29 mn |
| Charging times with standard charger BAT145 | 45 mn | 53 mn |
| Charging times with quick charger BAT146 | 33 mn | 40 mn |
| Weight (kg) | 0,7 kg | 0,7 kg |



| Charger technical data | BAT145 | BAT146 |
|----------------------------|----------------|--------|
| Power supply (input) | 220-240V AC | |
| Mains frequency | 50 / 60 Hz | |
| Charging voltage (output) | 10,8 - 18 V DC | |
| Quick charging | Max 6A | Max 8A |
| Charging temperature range | -5 à +55°C | |
| 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.

SPEEDCONTROLLER & 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 |
|-------------------------|-------|
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| 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* |

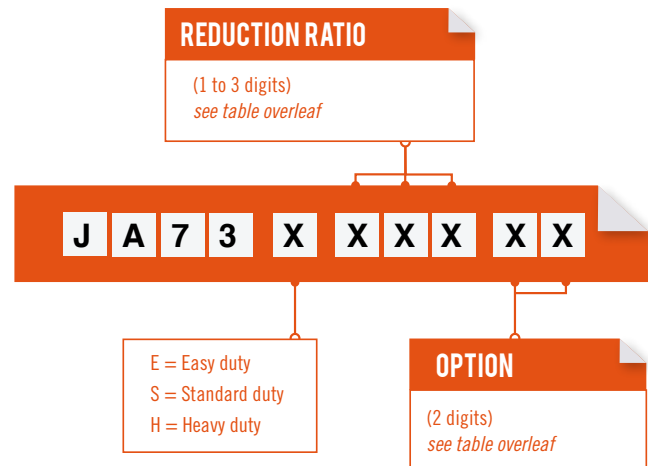
* Warning ! The maximum acceptable torque for the BJH02 is 1000 Nm (740 lb.ft). Do not use the BJH02 if the torque required is higher than 1000 Nm (740 lb.ft), use the torque limiter to limit the input torque to 330 Nm (240 lb.ft) (see stickers on the actuator and table hereafter).



IMPORTANT

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

BATTERY POWERED PORTABLE VALVE ACTUATORS **JA73**



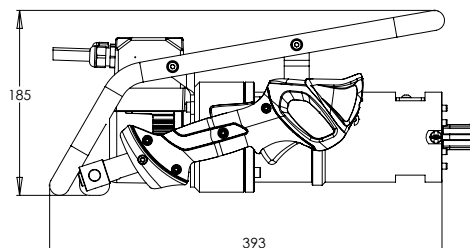
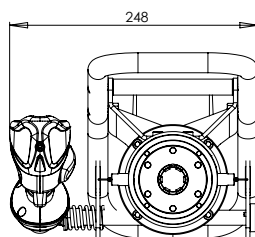
Dedicated to the most demanding applications!

Thanks to its **robustness** and high autonomy batteries, the **JA73 modtec electric portable valve actuator** is able to deliver a **high power** for **more than one hour** continuously. It does not depend on any energy source (electric plug or compressed air network) and can operate freely anywhere. Much more **powerful** than its little brother (MC89), it can deliver **high speed** and **high torque** simultaneously, which makes it **the perfect tool for Heavy duty jobs**. Extremely robust, it has got an **integrated clutch system** which protects the operator and the equipment, even if a valve is completely blocked.

The **ergonomic control handle** allows the display and control of the many actuator and battery's functions and parameters in a **simple and intuitive way**.

The **integrated electronic torque limiter** (available as standard on all models) allows to adapt to any configuration and further improve the **safety of the user and the equipment**.

LAYOUT



Weight : 8.7 kg
(62.9 lb.ft)

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

| Technical data | BAT520 | BAT750 | BAT1200 | BAT1500 |
|----------------------------------|-----------|------------|------------|------------|
| Type | Li-ion | Li-ion | Li-ion | Li-ion |
| Output voltage | 43.2 V | 43.2 V | 43.62 V | 43.62 V |
| Capacity | 12 Ah | 17.25 Ah | 28 Ah | 35 Ah |
| Stored energy | 520 Wh | 745 Wh | 1221 Wh | 1527 Wh |
| Maximum power | 2 kW | 2 kW | 2 kW | 2 kW |
| Autonomy* | 25 min | 35 min | 60 min | 90 min |
| Charging time | 6h30 | 9h | 10h | 12h |
| Average life (number of cycles)* | up to 800 | up to 1200 | up to 1300 | up to 1300 |
| Weight (kg (lb)) | 3,6 | 4,5 | 6,3 | 7,5 |



The electric portable actuators use high performance batteries for greater autonomy. Both battery and charger need to be ordered separately. These batteries comes with a light, comfortable harness for use during transport or when using the actuator.

* Autonomy is measured for an equivalent torque of 50% of maximum torque.

** One cycle means one complete battery charge and discharge.

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

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| Other accessories | 20 |

PERFORMANCE

| Straight or with RA30 | Free speed (rpm) | Max torque (Nm (lb.ft)) | Starting torque (Nm (lb.ft)) | Options available |
|-----------------------|------------------|-------------------------|------------------------------|-------------------|
| | | | | 02 |
| JA73E-023 | 360 | 44 (32) | 35 (26) | |
| JA73S-077 | 110 | 150 (110) | 120 (89) | |
| JA73S-132 | 63 | 250 (180) | 200 (150) | |
| JA73H-169 | 49 | 325 (240) | 260 (190) | |
| JA73H-309 | 27 | 590 (435) | 470 (350) | |
| JA73H-564 | 15 | 1080* (800)* | 860 (640) | |
| With banjo head BJH01 | Free speed (rpm) | Max torque (Nm (lb.ft)) | Starting torque (Nm (lb.ft)) | Options available |
| | | | | 02 |
| JA73E-023 | 90 | 180 (130) | 140 (100) | |
| JA73S-077 | 27 | 590 (435) | 470 (350) | |
| JA73S-132 | non disponible | | | |
| JA73H-169 | | | | |
| JA73H-309 | | | | |
| JA73H-564 | | | | |
| With banjo head BJH02 | Free speed (rpm) | Max torque (Nm (lb.ft)) | Starting torque (Nm (lb.ft)) | Options available |
| | | | | 02 |
| JA73E-023 | 120 | 135 (100) | 105 (77) | |
| JA73S-077 | 36 | 440 (320) | 350 (260) | |
| JA73S-132 | 21 | 760 (560) | 600 (440) | |
| JA73H-169 | 16 | 975 (720) | 780 (580) | |
| JA73H-309 | non disponible | | | |
| JA73H-564 | | | | |



* Warning ! Do not use the actuator when the torque is higher than 1000 Nm (740 lb.ft) or use a torque limiter

Some electric portable actuator manufacturers give torque and speed performance without reference to the length of operating time. This can suggest a high performance level when in reality the level can only be achieved for a few seconds and with significant risk of damage to the actuator's motor. Portable actuators using a modéc battery are designed and tested to deliver the stated performance level with no time limit other than the length of the battery life.

IMPORTANT

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