

A COMPREHENSIVE AND MODULAR RANGE

1 CHOOSE YOUR MOTOR

PNEUMATIC

HL83

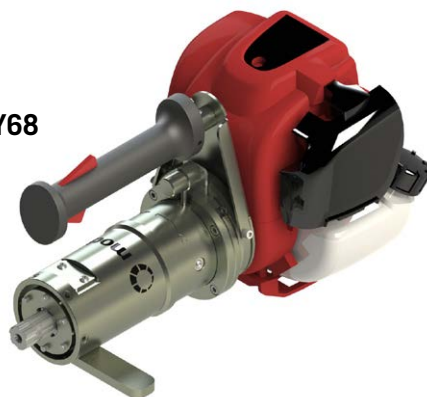


No heat, spark or smoke
ATEX certification available
High torque and speed
Light & compact
Jam & blockage resistant

Maximum torque :
680 Nm (500 ft.lb)

GAS

PY68



Unlimited autonomy
Ideal for remote environments

Maximum torque :
700 Nm (520 ft.lb)

ELECTRIC

JA73



Excellent autonomy
Smoke free
Easy implementation

Maximum torque :
760 Nm (560 ft.lb)



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

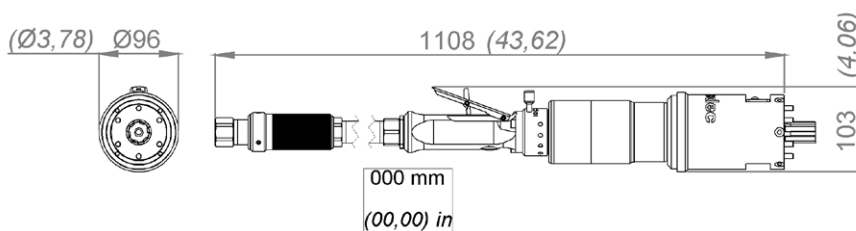
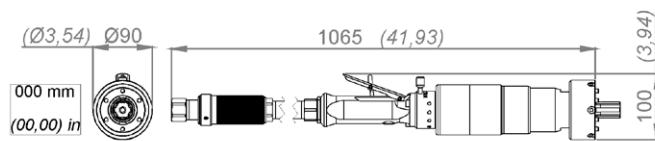
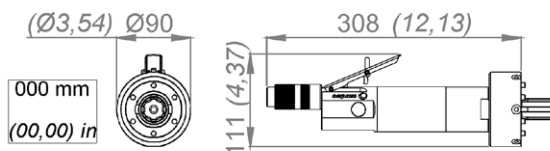
OPTION

(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



LAYOUT	Weight kg (lb)
HL83E	2,2 (4,9)
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

PNEUMATIC PORTABLE VALVE ACTUATOR HL83

OPTIONS AND ACCESSORIES

OPTIONS (page 4)						
Right-angled head RA20		▶			▶	
Digital revolution counter			▶			▶
Torque limiter				▶	▶	▶
CODE	00	01	02	03	04	05

Not all options are available for all models.
See below for availability.

ACCESSORIES	Page
Drive head	5
Adaptors and interfaces	6-13
Torque reaction systems	14-16
Air management	17-18
Other accessories	19

! 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 NI/min (scfm)	Connection	Minimum Ø for fittings mm (in)	Minimum Ø for pipes mm (in)	Lubrication Drops/min	FRL unit	SAT Box
HL83E	800 (28)	G 3/8	7,5 (0,28)	10 (0,39)	2,5	AC106	AC118
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)	6,2 bars (90 psi)	4 bars (58 psi)	5 bars (72 psi)	6,2 bars (90 psi)	4 bars (58 psi)	5 bars (72 psi)	6,2 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)	136 (100)	160 (120)	200 (150)	▶		▶	▶	
HL83H-169	46	50	54	380 (280)	450 (330)	570 (420)	304 (220)	360 (270)	450 (340)		▶	▶		▶

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)	6,2 bars (90 psi)	4 bars (58 psi)	5 bars (72 psi)	6,2 bars (90 psi)	4 bars (58 psi)	5 bars (72 psi)	6,2 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)	180 (130)	220 (160)	260 (190)	▶			▶	
HL83H-169	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)	6,2 bars (90 psi)	4 bars (58 psi)	5 bars (72 psi)	6,2 bars (90 psi)	4 bars (58 psi)	5 bars (72 psi)	6,2 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-169	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)	6,2 bars (90 psi)	4 bars (58 psi)	5 bars (72 psi)	6,2 bars (90 psi)	4 bars (58 psi)	5 bars (72 psi)	6,2 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-169	Not available													

IMPORTANT

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

GAS PORTABLE VALVE ACTUATORS PY68



REDUCTION RATIO

(1 to 3 digits)
see table overleaf

P Y 6 8 X X X X X X

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

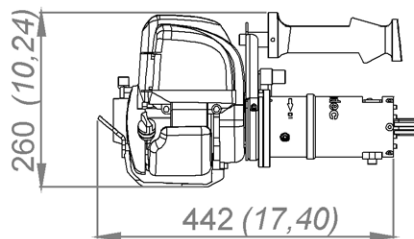
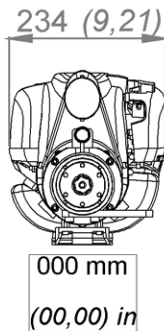
OPTION

(2 digits)
see table overleaf

modtec gas 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

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

GAS PORTABLE VALVE ACTUATORS PY68

OPTIONS AND ACCESSORIES

OPTIONS (page 4)				
Digital revolution counter		▶		▶
Torque limiter			▶	▶
CODE	00	02	03	05

Not all options are available for all models.
See below for availability.

ACCESSORIES	Page
Drive head	5
Adaptors and interfaces	6-13
Torque reaction systems	14-16
Other accessories	19

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

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	140 (100)	115 (85)	▶	▶	▶
PY68S-148	63	230 (170)	195 (145)	▶	▶	▶
PY68H-293	32	470 (350)	385 (285)	▶	▶	▶

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	550 (400)	460 (340)	▶	▶	▶
PY68S-148	Not available					
PY68H-293	Not available					

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	410 (300)	345 (255)	▶	▶	▶
PY68S-148	21	700 (520)	585 (430)	▶	▶	▶
PY68H-293	Not available					



IMPORTANT

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

ELECTRIC PORTABLE VALVE ACTUATORS JA73



RAPPORT DE REDUCTION

(1 to 3 digits)
see table overleaf



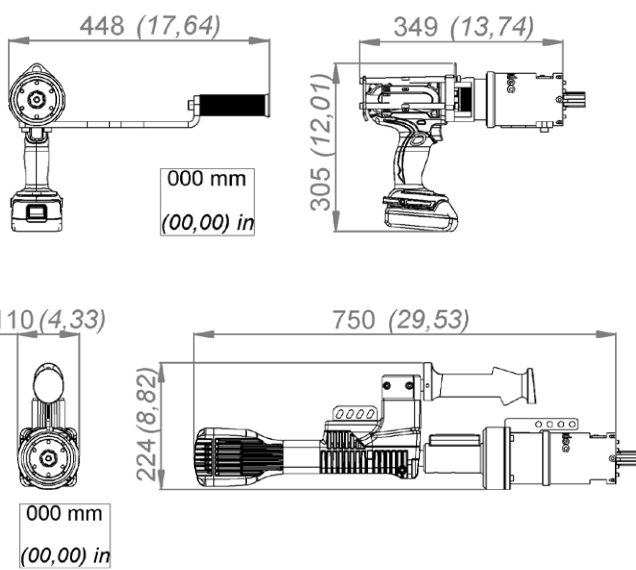
E = Easy duty
S = Standard duty
H = Heavy duty

OPTION
(2 digits)
Vsee table overleaf

Thanks to their long life batteries, **modtec electric portable valve actuators** are able to deliver a **high power** for more than 30 minutes. This means they are not dependent on an energy source (electric plug or compressed air network) and can operate freely anywhere. Extremely robust, they have an **integrated clutch system which protects the operator and the equipment**, even if a valve is completely blocked.

The **power limiter** (available for all the Standard and Heavy duty models) and the torque limiter (available for Easy duty models) mean **you can adapt the tool to any configuration and further improve user safety**.

LAYOUT



LAYOUT	Weight (kg) (lb)
JA73E	6,9 (15,2)
JA73S/E	10,1 (22,3)

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	

ELECTRIC PORTABLE VALVE ACTUATOR JA73

BATTERIES

Technical data	Battery 36V 4Ah	Battery 43,2V 9Ah	Batterie 43,2V 17,4Ah
Autonomy JA73E	20 min		
Autonomy JA73S		15 min	35 min
Autonomy JA73H			
Charging time	1h20	5h	8h
Weight (kg (lb))	1,3 (2,9)	4,2 (9,3)	5,9 (13)
Reference	BAT140	BAT400	BAT700

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



The electric portable actuators use high performance batteries for greater autonomy. The Easy duty electric actuators come with two batteries and a charger. The batteries are inserted into the tool's handle. Read the user manual for information about charging, using and transporting the batteries.

The Standard duty and Heavy duty electric actuators come without a battery – 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.

OPTIONS AND ACCESSORIES

OPTIONS (page 4)

Digital revolution counter		▶		▶
Torque limiter			▶	▶
CODE	00	02	03	05

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	5
Adaptors and interfaces	6-13
Torque reaction systems	14-16
Other accessories	19

PERFORMANCE

Straight or with RA30	Free speed (rpm)	Max torque (Nm (lb.ft))	Starting torque (Nm (lb.ft))	Options disponibles		
				02	03	05
JA73E-005	95	15 (11)	15 (11)	▶	▶	▶
JA73E-018	26	64 (47)	64 (47)	▶	▶	▶
JA73S-077	110	150 (110)	120 (89)	▶	▶	▶
JA73S-132	63	250 (180)	200 (150)	▶	▶	▶
JA73H-309	27	590 (435)	470 (350)	▶	▶	▶

With banjo head BJH01	Free speed (rpm)	Max torque (Nm (lb.ft))	Starting torque (Nm (lb.ft))	Options disponibles		
				02	03	05
JA73E-005	24	60 (44)	60 (44)	▶	▶	▶
JA73E-018	7	250 (180)	250 (180)	▶	▶	▶
JA73S-077	27	590 (435)	470 (350)	▶	▶	▶
JA73S-132	Not available					
JA73H-309	Not available					

With banjo head BJH02	Free speed (rpm)	Max torque (Nm (lb.ft))	Starting torque (Nm (lb.ft))	Options disponibles		
				02	03	05
JA73E-005	32	45 (33)	45 (33)	▶	▶	▶
JA73E-018	9	190 (140)	190 (140)	▶	▶	▶
JA73S-077	36	440 (320)	350 (260)	▶	▶	▶
JA73S-132	21	760 (560)	600 (440)	▶	▶	▶
JA73H-309	Not available					



The JA73S and JA73H actuators can be delivered on request with a wired remote control.

Contact us for more details.

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 modec 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.

OPTIONS

Options are built into the actuator during factory assembly and cannot be added or removed at a later stage.

▶ RIGHT ANGLE HEAD RA20



Only available for the HL83 Easy duty and Standard duty range, the **right angle head RA20** is very light and compact.

It enables the actuator to operate in small, tight spaces.

It adds a reduction ratio of 1.33 to the tool, thus **increasing the torque and reducing the speed by one third**.

Maximum torque allowed: 330Nm

▶ DIGITAL REVOLUTION-COUNTER



The **digital revolution counter** adds up the turns in one direction and subtracts them in the other direction so that the operator always knows where he is in relation to the starting point. **It also measures and indicates the rotating speed**.

It can be **easily configured** to adapt to the different actuator heads available (right angle or ring-type).

Available for the **HL83H, PY68** and **JA73** models.

▶ TORQUE LIMITER



The **torque limiter** for **modtec** portable valve actuators means you can disconnect the motor section from the gear box section when the torque limit is reached. No torque is thereafter applied by the actuator.

The **operator can set the torque limit** within a +/- 40% range of the original value. The torque limiter option is available for the HL83S and H models, as well as for the PY68 and JA73S and H models (the JA73E models have a torque limiter in series).

Straight or with RA30 right angle head	Reduction ratio	Minimum torque limit Nm (lb.ft)	Maximum torque limit Nm (lb.ft)
Easy duty	54	37 (27)	92 (68)
Standard duty	169	115 (85)	288 (212)
Heavy duty	258	176 (130)	440 (325)
With RA20 right angle head	Reduction ratio	Minimum torque limit Nm (lb.ft)	Maximum torque limit Nm (lb.ft)
Easy duty	72	49 (36)	122 (90)
Standard duty	225	133 (98)	333 (246)
Heavy duty	Not available		
With banjo head BJHO1	Reduction ratio	Minimum torque limit Nm (lb.ft)	Maximum torque limit Nm (lb.ft)
Easy duty	216	148 (109)	368 (271)
Standard duty	Not available		
Heavy duty	Not available		
With banjo head BJHO2	Reduction ratio	Minimum torque limit Nm (lb.ft)	Maximum torque limit Nm (lb.ft)
Easy duty	162	111 (82)	276 (204)
Standard duty	507	345 (254)	864 (637)
Heavy duty	Not available		

IMPORTANT

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