



### 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

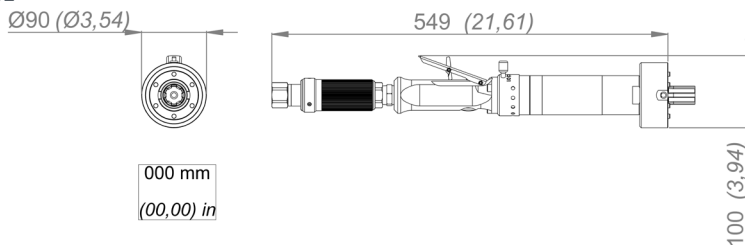
(2 digits)  
see table overleaf

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.

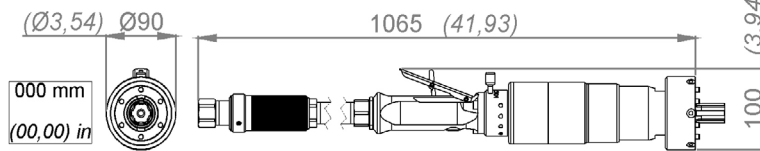
You can have them **ATEX II 2 GD c IIC T6 to T4** certified, they can go to stall and they don't generate heat, sparks or smoke.

## LAYOUT

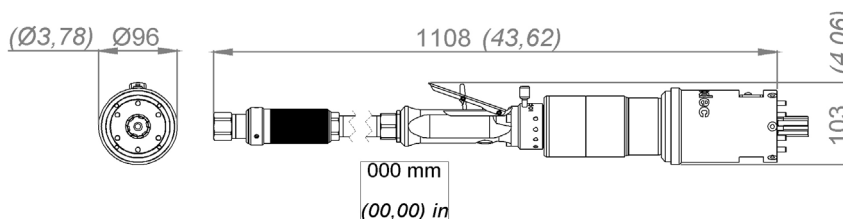
HL83E



HL83ES



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

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

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

! 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.