



MEC 800 SPECIAL

MAX 1.200 kg
10 m 230 Vac



FOR SWINGING GATES

Oil-hydraulic actuator for on-the-gate mount with separate oil-hydraulic motor-pump

For industrial applications

SOLID

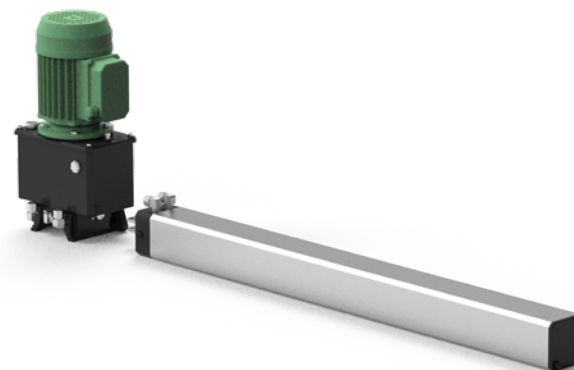
Capable of operating large, (even in-filled) gates, doors and trap doors without limit of operations.

COMPLETE RANGE

Piston stroke options available up to 1.000 mm. Hydraulic slowdown (braking) on opening/closing (optional). It is possible that even two actuators can be fitted on to one single gate by using the double-tank, oil-hydraulic motor-pump unit.

RELIABLE

Each component is of extremely high quality level and made to endure any weather conditions. Release by special spanner on the hydraulic motor-pump.



TECHNICAL DATA

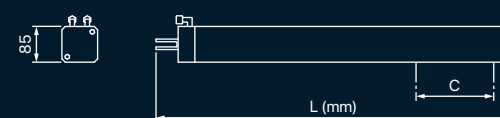
MEC 700/80 VENTIL MOTOR-PUMP

Power supply (Vac – Hz)	230 - 50
Absorbed power (W)	510
Absorbed current (A)	2,4
Max. pressure (atm)	40
Working temperature (°C)	-25 ÷ +80 [F]
Grade of protection IP	65 [C]
Hydraulic pump flow rate (l/min)	1,6 [P6] 2,6 [P12]
Oil type	708L
Frequency of use	intensive
Weight – code 7014P6L (kg)	10
Weight – code 7012L (kg)	5,5
Weight – code 7037L (kg)	7,2

ACTUATOR MEC 800 SPECIAL

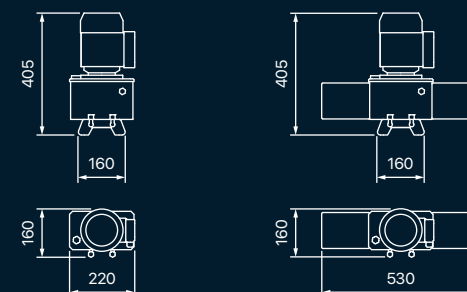
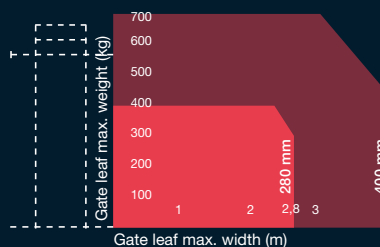
Rod diameter (mm)	22
Piston stroke (mm)	280 / 400 / 500 / 600 / 700 / 800 / 900 / 1.000 mm
Force (N)	0 ÷ 7.000 N

OVERALL DIMENSIONS



C (actual stroke)	280	400
L	840	1.070

APPLICATIONS [A]



MEC 800 SPECIAL

• standard

- not available

CODE	ROD STROKE (mm)	BRAKING SLOWDOWN	SINGLE GATE MAX. WIDTH (m) [A] [J]	SINGLE GATE MAX. WEIGHT (kg) [A]
7012L	280	-	2,8	400
701284L	280	on opening / closing	2,8	400
7037L	400	-	4	700
703784L	400	on opening / closing	4	700
7114L	500	-	5	700
711484L	500	on opening / closing	5	700
7115L	600	-	6	800
711584L	600	on opening / closing	6	800
7116L	700	-	7	900
711684L	700	on opening / closing	7	900
7117L	800	-	8	1.000
711784L	800	on opening / closing	8	1.000
7118L	900	-	9	1.100
711884L	900	on opening / closing	9	1.100
7119L	1.000	-	10	1.200
711984L	1.000	on opening / closing	10	1.200

Each code includes a double-acting oil-hydraulic actuator complete with rear and front fixing plates to weld, joints and protection cover.

MEC 700/80 VENTIL

CODE	HYDRAULIC LOCKING	PUMP	RESERVOIR TYPE
7014P6L	reversible	P6 slow	single
7014P12L	reversible	P12 fast	single
7022P6L	bidirectional	P6 slow	single
7022P12L	bidirectional	P12 fast	single
701486P6L	reversible	P6 slow	double
701486P12L	reversible	P12 fast	double
702286P6L	bidirectional	P6 slow	double
702286P12L	bidirectional	P12 fast	double

Each code includes an oil-hydraulic motor-pump complete with joints, manual release knob and electric cable for power supply.

[A]: The gate structure, size and possible strong winds may affect the values as indicated. Always make sure the gate is adequate to be automatically operated and remove any possible friction points.

[C]: Inside the housing cover or casing.

[F]: -40 °C with specific optional accessories, see page 16.

[J]: For gate leaves wider than 5 m it is recommended that the gate structure be carefully assessed: gate post and rotation hinges must be adequate to support the gate weight and inertia during the complete cycles of opening and closing.

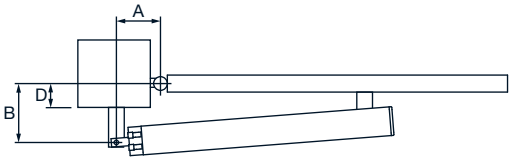
MEC 800 SPECIAL

TECHNICAL NOTES

- An electric lock is always recommended with gate leaves wider than 2 m.
- The hydraulic motor-pump unit fitted with a P12 pump operates a gate at a speed that is twice as much as that of a P6 pump (recommended version). Speed varies according to the type of actuator MEC 800 SPECIAL used and gate inertia.
- Installations with two actuators on single-leaf gates (max 400 mm piston stroke) require that the double-tank oil-hydraulic motor-pump be used.
- The double-tank motor-pump unit is also required with 500 - 600 - 700 - 800 - 900 - 1.000 mm piston strokes.
- The reversible (non locking) oil-hydraulic motor-pump unit requires an electric lock on the gate.

INSTALLATION DISTANCES

Stroke (mm)	A	B	D	Motor run time
280	140	125	70	~ 28 s
280 braking	110	130	70	~ 28 s + TR ^[J]
400	180	200	130	~ 44 s
400 braking	170	180	120	~ 44 s + TR ^[J]
500	240	240	170	~ 45 s
500 braking ^[K]	220	220	150	~ 45 s + TR ^[J]
600 braking ^[K]	150	380	^[K]	~ 54 s + TR ^[J]
700 braking ^[K]	180	450	^[K]	~ 63 s + TR ^[J]
800 braking ^[K]	200	520	^[K]	~ 72 s + TR ^[J]
900 braking ^[K]	230	580	^[K]	~ 81 s + TR ^[J]
1.000 braking ^[K]	240	670	^[K]	~ 90 s + TR ^[J]



^[J]: TR is the slowdown time, a value changing according to the adjustment made on the actuator.
^[K]: The installation distances for the special strokes are meant to make the most of the slowdown on opening and closing. For these actuators contact our technical office in advance and provide the structural dimensions of the gate to be automated.



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SPECIFIC ACCESSORIES

	CODE	DESCRIPTION
	705L	Copper tube ø 8 mm - 50 m (12,5 kg)
	707L	Copper tube ø 8 mm - 4 m (1 kg)
	7013L	4-way pipe connecting block
	7016L	Zinc-coated metal sheet protection casing for the single-tank oil-hydraulic motor pump MEC 700/80 VENTIL, complete with fastening support. Dimensions (mm): 250x350xh460
	7018L	Flexible pipe x 0,6 m
	7019L	Flow regulator with connecting joints
	7025L	Zinc-coated metal sheet protection enclosure for the double-tank oil-hydraulic motor pump MEC 700/80 VENTIL, complete with fastening support. Dimensions (mm): 250x590xh460
	7038L	6-way pipe connecting block
	9730L	Thermal probe with 230 Vac - 50 Hz electric resistor, complete with power supply cable, for the oil-hydraulic motor-pump MEC 700/80 VENTIL and COS 982. Factory-fitted.
	708L	Hydraulic “FADINI HF.PLI oil”, in 2 liter can



7047L
ELPRO 27