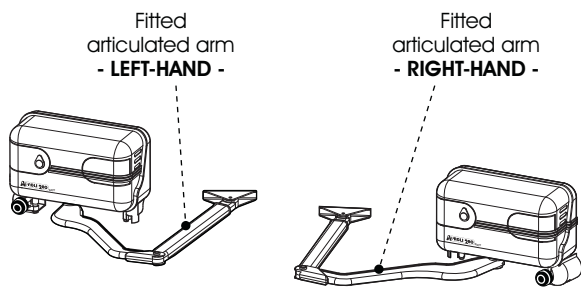
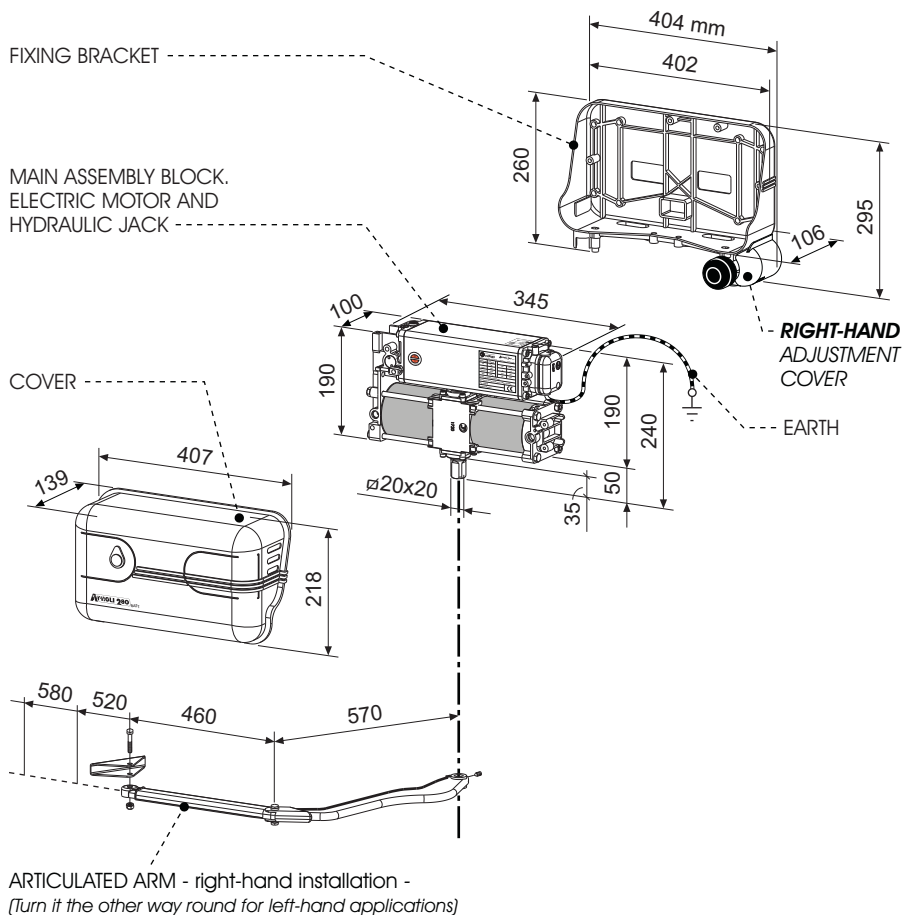


OVERALL DIMENSIONS



FADINI
the gate opener
Made in Italy



APROLI 280 BATT is an oil-hydraulic gate operator designed for swinging gates hinged to large pillars. By removing the cover it is possible to see the jack, the oil reservoir above it and the valve block that connects the two parts into one single assembly. The valve block incorporates the main hydraulic features of the unit, ie. manual override by unscrewing the release valve in events like power failure, access to this valve is made easy through a suitably designed hinged door in the cover; air bleeding screw to facilitate oil flowing in the system; adjustable open and close safety pressure valves to control the amount of force developed by the operator and ensure total anti-crush operations. In the valve block there is also a double by-pass valve that holds the gates safely open or closed, ie. hydraulically locked in either positions, when the motor stops. On starting the motor, oil is allowed to flow free and the gates can be operated as pre-set. The electric motor and the lobe designed pump are in an oil bath inside the oil reservoir, the external end cap of which is fitted with the electrical connections. It is inside the jack where movements are hydraulically transmitted: the shaft has a toothed central part that can mesh a rack system and can rotate 220°; shaft rotation is by oil pressure applied to either side of the rack by means of two pistons. The shaft has a square indented end part to which the articulated arm can be fitted. This is made of pressure cast, heat treated aluminium and consists of two sections hinged together; the gate fitting section is adjustable and has a suitably designed shoe for gate fixing. The whole operator is weatherproof and made of shock resistant materials. Pressure cast aluminium has been used to produce the valve block, the main assembly block, the jack central casting and the fixing bracket. This one is factory machined to provide ready made holes for fixing and cable entry. The extremely precise movements of the parts inside the jack are guaranteed by treated, hardened steel which has been used to produce the rack, the shaft and the cylinder liners, which are very finely polished to provide a smooth finish. Sealing component parts such as oil rings and seals are also top quality, and the screws are galvanized. The cover is made of plastic to avoid extra weight on the operator; it is not fragile, though and made of highly shock resistant materials. On request, APROLI 280 BATT can be supplied with two flow regulators to be factory incorporated in the oil circuit to ensure constant shaft rotation speed rate in both gate travel directions. Among the other most relevant features are the incorporated, adjustable gate stop in open gate position and the earth wire with connection facility.

APROLI 280 can be connected to the Elpro control panel, an extremely reliable control unit, and can be remotely operated from a distance by a radio transmitter, specially encoded, or by a keyswitch, with custom-made key, or by a digital key pad; the system can be connected to safety devices such as mechanical cable-operated edges and photocells.

TECHNICAL SPECIFICATIONS

HYDRAULIC PUMP AND OPERATOR

P3 - Hydraulic pump capacity	0,85 l/min
Working temperature	-20 °C +80 °C (*)
Working torque	220-300 Nm
Oil type	Oil Fadini - Item 708L
Shaft rotation angle	220°
Weight with arm	11 kg
Protection standard	IP 67

(*) -40 °C with specific optional accessories (Ref. General Catalogue).

ELECTRIC MOTOR

Power output	0,18 kW (0,25 CV)
Supply voltage	230 Vac
Frequency	50 Hz
Absorbed power	250 W
Absorbed current	1,2 A
Motor rotation speed	1.350 rpm
Capacitor	12,5 µF
Intermittent service	S3

APPLICATIONS

Max. gate weight per leaf	400 kg
Max. gate width per leaf	2 m

VERSIONS

- Non locking (reversible): an electric lock is needed
- With bidirectional hydraulic locking device
- With flow regulator

PERFORMANCE

Frequency of use	intensive
Service cycle	opening 23 s dwell 30 s closing 23 s dwell 30 s
Complete cycle time	106 s
Complete cycles	
Opening - Dwell - Closing - Dwell	No.34/hour
Annual cycles (with 8 hours of use per day)	No.99.280

Drwg. No. 1997

TECHNICAL DATA TABLE

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OIL-HYDRAULIC OPERATOR
FOR GATES WITH
LARGE PILLARS

APROLI 280 BATT

