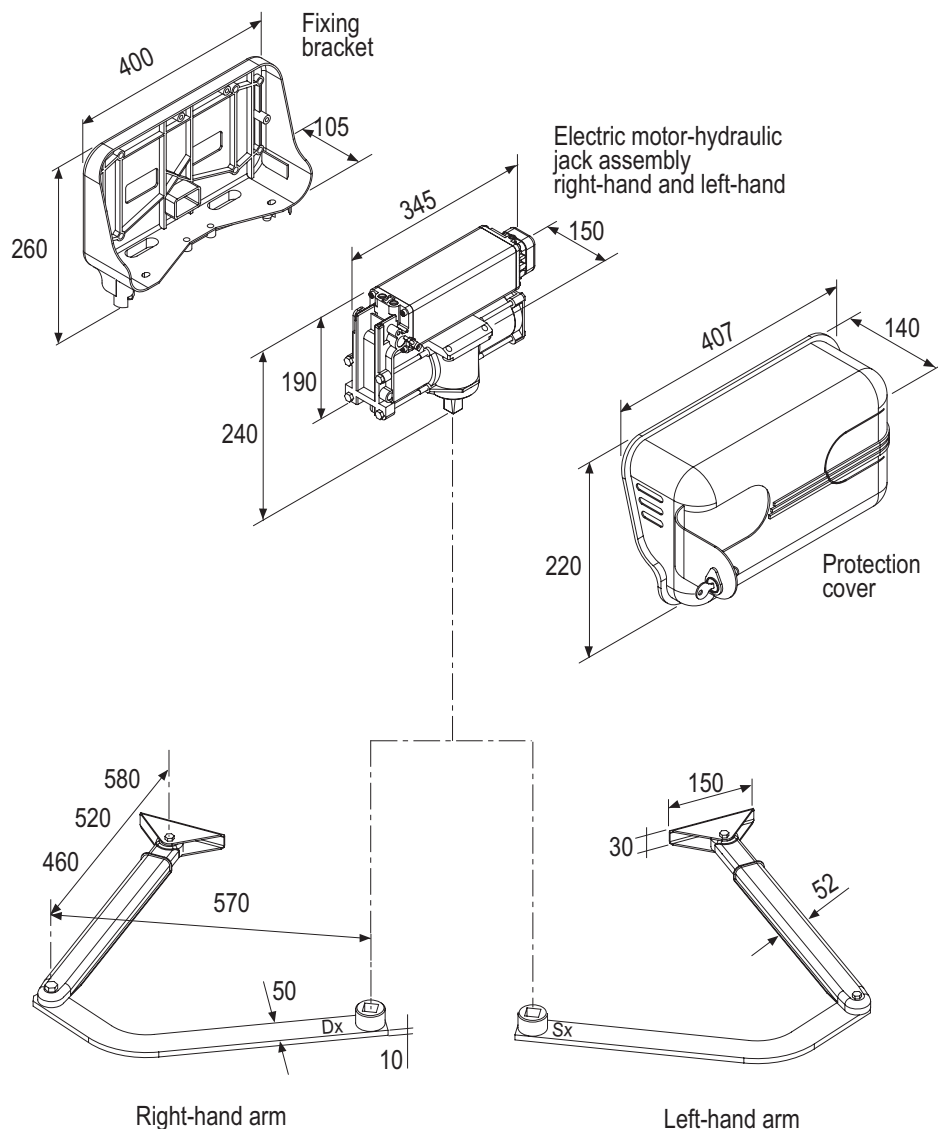




GB

Aproli 280/700 Strong is an oil-hydraulic gate operator designed for swinging gates hinged to large pillars. It consists of an hydraulic mechanism ie. DRIVE 700 (designed to work in the most harsh conditions) over an oil reservoir-valve block 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 and the 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 locking valve that holds the gates open or closed, ie. hydraulically locked in either positions, when the motor stops (a non locking option is also available). The electric motor and the lobe-design pump are in an oil bath inside the oil reservoir, the external end cap of which is fitted with the electrical connections for power supply. The shaft has a toothed central part that can mesh a rack system and can rotate 120°; shaft rotation is by oil pressure applied to either side of the rack by means of two pistons. A strong, anti-crush, articulated arm, made of steel, is fitted to the operator shaft. The terminal section of the arm (adjustable to meet three distance requirements) is made of aluminium, and is fitted with an articulated shoe for fixing to a gate. The whole operator is weatherproof and made of shock resistant materials: the valve block, the main assembly block, the jack central casting and the fixing bracket are made of pressure cast aluminium. The high quality standards of part machining and the hardening treatment made to the gear coupling ensure maximum smoothness of operation and therefore long life to the equipment; perfect sealing of the parts that have power oil inside is guaranteed by thirty years' expertise. All the moving parts and protections have been designed to prevent any arm or danger to people.

Aproli 280/700 Strong can be fitted on request with two flow regulators to be incorporated into the oil circuit to control arm speed.

#### TECHNICAL SPECIFICATION

##### Electric motor

|                      |                   |
|----------------------|-------------------|
| Supply voltage       | 230 V a.c.        |
| Power output         | 0.18 KW (0.25 HP) |
| Frequency            | 50 Hz             |
| Absorbed current     | 1.2 A             |
| Absorbed power       | 250 W             |
| Capacitor            | 12.5 µF           |
| Motor rotation speed | 1'350 r.p.m.      |
| Intermittent service | S3                |

##### Duty rating

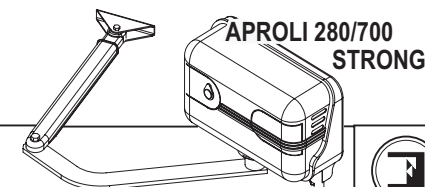
|                                                 |                                          |
|-------------------------------------------------|------------------------------------------|
| Duty cycle                                      | 23 s opening - 30 s dwell - 23 s closing |
| Time of one complete cycle                      | 76 s                                     |
| No. of complete cycles opening-dwell-close      | 47/h                                     |
| No. of cycles per year 8 hours' service per day | 137'000                                  |

##### Hydraulic pump

|                           |                        |
|---------------------------|------------------------|
| Pump flow rate - P3       | 0.85 l/min             |
| Average working pressure  | 1MPa (10 bars)         |
| Max. working pressure     | 3MPa (30 bars)         |
| Working temperature       | -20°C +80°C            |
| Rated torque              | 235 Nm                 |
| Shaft rotation            | 120°                   |
| Time of one 120° rotation | 22 s                   |
| Piston diameter           | 80 mm                  |
| Piston stroke             | 62 mm                  |
| Power oil                 | OIL A15 FADINI by AGIP |
| Weight of actuator        | 20 Kg                  |
| Max. gate weight          | 300 Kg                 |
| Full protection standards | IP 653                 |



EUROPEAN MARK CERTIFYING  
CONFORMITY TO THE ESSENTIAL  
REQUIREMENTS OF THE  
STANDARDS 98/37/EC



**FADINI**  
the gate opener  
Made in Italy

Drwg. No. 3506

TECHNICAL SPECIFICATION TABLE

OIL-HYDRAULIC GATE OPERATOR  
APROLI 280/700 STRONG



**meccanica  
FADINI**