

750 CP

underground hydraulic operator for residential and light commercial swing gates with single leaf max weight of 800 kg



EXPERTLY VERSATILE AND INVISIBLE

The FAAC 750 offers a range of 3 different operators with or without hydraulic locking designed to automate swing gates up to 3.5 metres per leaf. The underground system is invisible and silent, and is the ideal solution for artistically valuable old gates and portals.

VERY POWERFUL AND MECHANICALLY EFFICIENT

The whole 750 range can easily automate gates with leaves weighing up to 800 kg each. The system consists of a sturdy, compact, underground drive unit, and a hydraulic pump unit available in three different models. All components are integrated in a hydraulic circuit providing continuous lubrication and cooling. The 750 CP range is designed to include a foundation box that acts as the lower hinge of the gate. The 750 drive unit is simply installed without the need of removing the gate.

SAFE BOTH INSIDE AND OUT

The exclusive hydraulic device, ensuring maximum anti-crushing protection, features two highly sensitive by-pass valves. In case of an emergency, a key-protected release device, in an easy-to-access position, makes it possible to operate the gate manually. The power of hydraulic locking gives the system exceptionally high resistance against break-in attempts.

CONSTANT PERFORMANCE THROUGH TIME AND LITTLE MAINTENANCE

Reliability is assured under all atmospheric conditions and at extreme temperatures in the range -20° C to +55° C. And that's not all - the FAAC hydraulic device requires very little maintenance and has another advantage too: it's low on electrical power consumption.

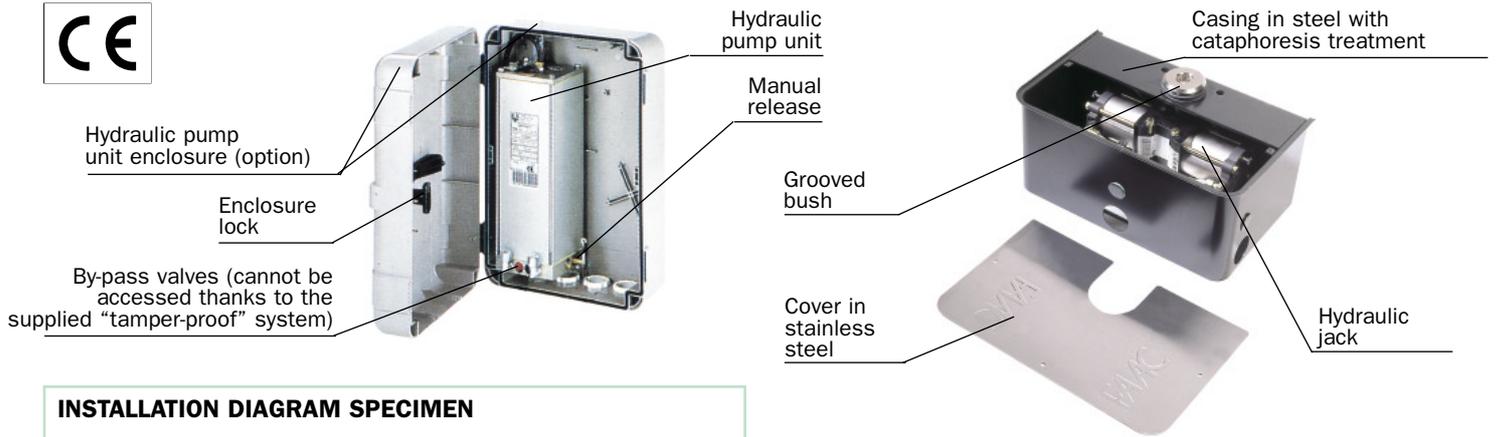
SPECIFICATIONS

Hydraulic pump unit • Models with hydraulic locking at opening and closing and without hydraulic locking • Models with max leaf length up to 3.5 m • Max use frequency 45 cycles/hour • Electric motor power supply 230 V (+6% -10%) - 50(60) Hz • Electric motor power 220 W • Thermal protection at 120°C built into motor winding • Operating ambient temperature -20°C +55°C • Lever operated built-in release device • Single-phase motor with two rotation directions • Hydraulic gerotor pump (max low noise) • Pump flow rate 0.5 l/m and 0.75 l/m • Die-cast distribution flange • Separate control of opening and closing force by by-pass valves with tamper-proof plate - Anti-crushing safety to UNI 8612 standard • Tank in anodised aluminium • Air breather screw • Oil filling plug with level indicator stick • Mineral hydraulic oil with additives

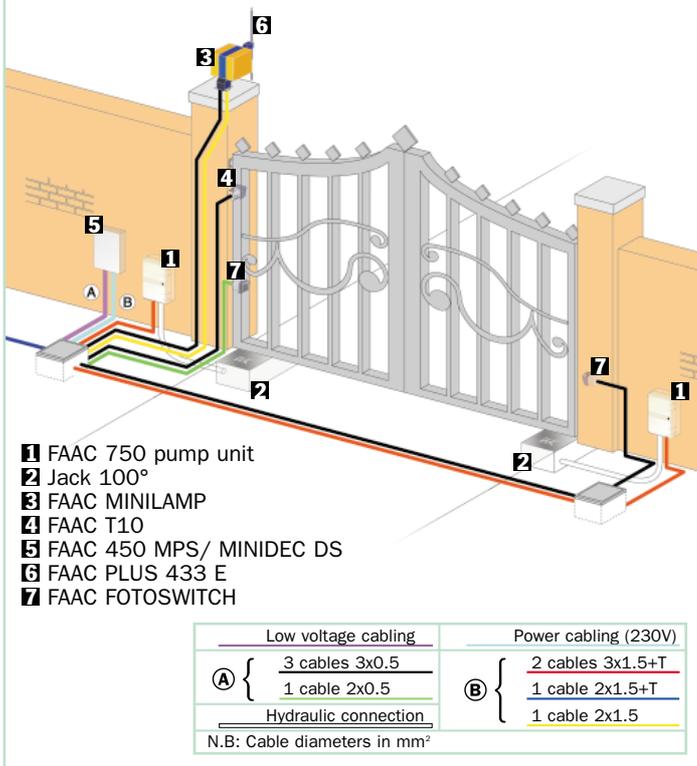
Enclosure for hydraulic pump unit (optional) • ABS enclosure • Protection class IP55 • Wall- or flush-mounting • Designed for securing to DIN guide • Designed for installation of door locking switch • Fuse-holder • Seats for capacitor supports • Removable hinges for right or left opening • Lock with triangular or customized key (optional) • Dimensions (lxhxd): 246 x 353 x 142 mm

Hydraulic jack • Hydraulic jack with rack piston and transmission shaft • leaf max weight 800 Kg • Max torque 543 Nm (with hydraulic units with pump capacity of 0.75 l/m)/272 Nm (with hydraulic units with pump capacity of 0.5 l/m) • Angular velocity 7.8°/s (with hydraulic units with pump capacity of 0.75 l/m)/5.2°/s (with hydraulic units with pump capacity of 0.5 l/m) • Models with rotation maximum angle 118° and 200° • Body in extruded aluminium • NIPLOY treated jack liner • NIPLOY-treated transmission shaft • Height adjustment dowels • Protection class IP67

Casing • Casing in steel with cathodolysis treatment and cover in stainless steel • Drain pipe and electric cable holes • NIPLOY treated grooved bush • Overall dimensions (L x W x H) 420 x 255 x 188 mm

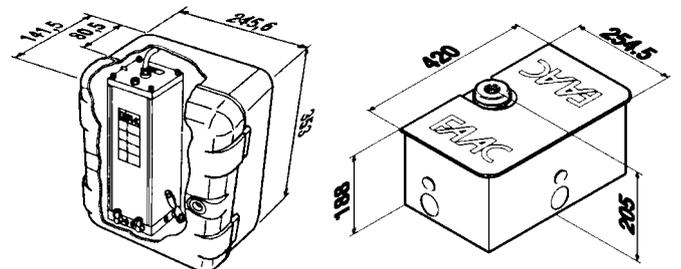


INSTALLATION DIAGRAM SPECIMEN



| Model | Use | | | |
|----------------------|----------------------------|-----------------------------|---------------|-----------------------------|
| | Single leaf max length (m) | Single leaf max weight (kg) | Nr. of leaves | Use frequency (cycles/hour) |
| Pump unit 750 CBAC | 1,80 | / | 1 | 45 |
| Pump unit 750 SB | 2,50 | / | 1 | 45 |
| Pump unit 750 SBS | 3,50 | / | 1 | 30 |
| 100° opening CP jack | / | 800 | 1 | / |
| 180° opening CP jack | / | 800 | 1 | / |

Dimensions



Values in mm

Technical specifications of casing

- in steel with cataphoresis treatment
- cover in stainless steel
- grooved bush

Technical specifications of hydraulic jack

| | 100° opening | 180° opening |
|------------------------|---|----------------------|
| Rotation maximum angle | 118° | 200° |
| Effective torque | 272 Nm (750 SBS) | 543 Nm (750 CBAC-SB) |
| Angular velocity | 5,2°/s (750 SBS) - 7,8°/s (750 CBAC-SB) | |
| Protection class | IP 67 | |

Electronic control equipment

| Model | Specifications |
|---------|----------------|
| 410 MPS | See page 88 |
| 450 MPS | See page 88 |
| 460 P | See page 89 |

N.B.: Timed electronic deceleration is possible by using the 460 P equipment. By combining the device with GATECODER, in addition to electronic deceleration, the electronic obstacle detection function is also available. (see page 89)

Technical specifications of hydraulic pump unit

| | 750 CBAC | 750 SB | 750 SBS |
|-------------------------------------|------------------------------|--------|-----------|
| Power supply | 230 V~ (+6% -10%) 50 (60) Hz | | |
| Absorbed power | 220W | | |
| Absorbed current | 1 A | | |
| Motor rotation speed | 1400 rpm | | 960 rpm |
| Pump flow rate | 0,75 l/min | | 0,5 l/min |
| Operating ambient temperature | -20°C +55°C | | |
| Protection class | IP 55 | | |
| Thermal protection on motor winding | 120°C | | |
| Weight | 7 kg | | |
| Type of oil | FAAC OIL XD 220 | | |