

580

hydraulic operator for counterbalanced up-and-over doors for intensive use



IDEAL FOR HEAVY TRAFFIC GARAGES

For counterbalanced up-and-over doors for accessing heavy traffic garages, with its speed, power and safety, the 580 range satisfies the most demanding applications, without modifying existing structures.

MAXIMUM SAFETY

Safety is guaranteed by the exclusive hydraulic device with anti-crushing protection double by-pass valve. The double hydraulic locking facility (supplied as standard) ensures anti break-in security and keeps the door in opening position even in a strong wind. In case of a power cut, a release facility from inside the garage is supplied, and another from the outside (optional), with customised key.

SILENT MOVEMENT AND THE RELIABILITY OF HYDRAULICS

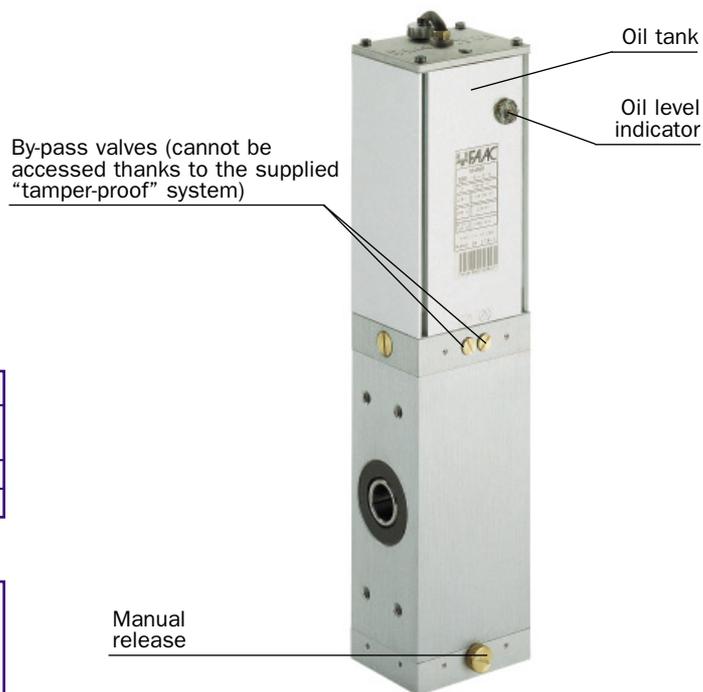
The use of hydraulic oil as motor fluid and highly sophisticated mechanics ensure perfectly silent, smooth movement. The high precision mechanics of all motor unit components create a single hydraulic block with constant lubrication and cooling.

LOW MAINTENANCE COSTS

The degree of reliability of the FAAC hydraulic device cuts down on both maintenance costs and energy consumption. The external components in aluminium ensure unlimited life.

SPECIFICATIONS

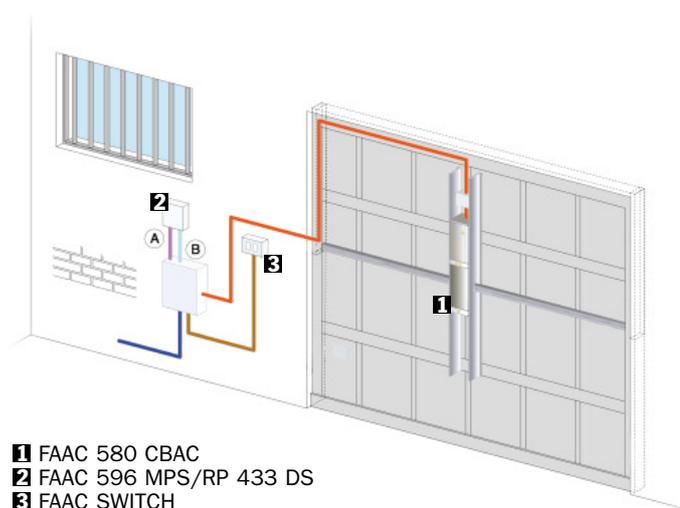
Hydraulic operator for counterbalanced up-and-over doors • Models with hydraulic locking at opening and closing and without hydraulic locking • Door max width 3.5 m • Door max height 3 m • Two-motor application for doors with max width 5 m and max height 3 m • Door max weight 15 Kg/sqm • Installation on door panel by securing longitudinal member (optional) • Application with transmission tubes and straight or curved telescopic arms • Max torque 450 Nm • Max use frequency 60 cycles/hour • Angular velocity 9°15'/s • 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 • Overall dimensions (Length x Width x Height) 480x110x96 mm • Protection class IP55 • Operating ambient temperature -20°C +55°C • Single-phase motor with two rotation directions (1,400 rpm) • Hydraulic gerotor pump (max low noise) • Activation by rack piston and square transmission shaft • Operator body in NIPLOY treated aluminium • Oil re-circulation system • Separate control of opening and closing force by by-pass valves with tamper-proof plate - Anti-crushing safety to UNI 8612 standard • Built-in manual release device • External release device with customised key (optional) • Tank in anodised aluminium • Oil level indicator • Mineral hydraulic oil with additives



Model	Use		
	Door max dimensions W x H (m)	Door max weight (kg/sqm)	Use frequency (cycles/hour)
580 CBAC	3,50 x 3,00 (*)	15	60
580 SB	3,50 x 3,00 (*)	15	60

(*) For doors with width of over 3.50 m, install two operators.

INSTALLATION DIAGRAM SPECIMEN



- 1** FAAC 580 CBAC
- 2** FAAC 596 MPS/RP 433 DS
- 3** FAAC SWITCH

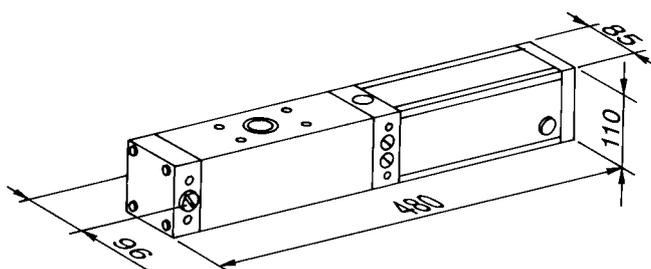
Low voltage cabling	Power cabling (230V)
(A) { 1 cable 3x0.5	(B) { 1 cable 3x1.5+T 1 cable 2x1.5+T

N.B.: Cable diameters in mm²

Technical specifications	580
Power supply	230 V ~ (+6% -10%) 50 (60) Hz
Electric motor	single-phase, bi-directional
Absorbed power	220 W
Absorbed current	1 A
Effective torque	0÷450 Nm
Angular velocity	9°15'/s
Motor rotation speed	1.400 rpm
Pump flow rate	0,75 l/min.
Thermal protection on motor winding	120°C
Operating ambient temperature	-20°C +55°C
Weight with oil	12 kg
Type of oil	FAAC OIL XD 220
Protection class	IP 55

Specifications of 596 MPS control board	
Power supply	230 V ~ (+6% -10%) 50 (60) Hz
Maximum load of motors	500 W
Accessories output	24 Vdc 360 mA max
Operating ambient temperature	-20°C + 55°C
Two protection fuses	5 A electric motor 0,5 A accessories
Enclosure dimensions mod. E	204x265x85 (LxHxD)
Protection class	IP 55
<ul style="list-style-type: none"> • Programmable functions <ul style="list-style-type: none"> - Function logics: automatic and semi-automatic - Pause times - Work times - "Closing photocell" function logic - Photocells fail safe • Terminal board outputs <ul style="list-style-type: none"> - Motor, power supply for accessories, timed courtesy lamp • Terminal board inputs <ul style="list-style-type: none"> - Open, stop, safety device, opening and closing limit-switch • SMT technology • Timed courtesy lamp 	

Dimensions



Values in mm

N.B.: The operator 580 can be controlled also by 410 MPS, 450 MPS and 460 P boards, thus enabling the timed electronic deceleration (See pages 88-89)