

Электроприводы 2032, 2030

Технические характеристики

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Electric actuator 2030

High resolution linear actuator for the installation on valves

- Fast stroking speed
- Small dead band
- Smooth start and slow down
- Seperate terminal box
- Robust aluminium housing
- Gear box of metal
- Multiple setting possibilities
- Limit switch control by force



Technical data

Driving force	2,0 kN / 5,0 kN			
Power connections	24 V AC/DC 100 - 240 V 50/60Hz			
Ambient temperature	Standard:	-10°C up to +60°C		
	Low temperature version:	-40°C up to +60°C		
Storage Temperature	Standard:	-30°C up to +80°C (+60°C with Fail-Safe protection)		
	Low temperature version:	-40°C up to +80°C (+60°C with Fail-Safe protection)		
Mounting position	choice horizontal or vertical actuator only			
Protection class (EN 60529)	IP 67			
Max. power consumption at 24V AC/DC-operation:	40 Watt			
Nominal power consumption during mains operation	Mains voltage 230V:	P=40W	S=67,8VA	I=295mA
	Mains voltage 115V:	P=40W	S=58,8VA	I=511mA
				cosφ=0.59
				cosφ=0.68
Dead band	±0,2% at min. 6mm stroke			
Repeat accuracy	±0,1% at min. 6mm stroke			
Stroking speed	2,0 kN-version:	0,75 s/mm up to 250 s/mm (standard 1,5 s/mm)		
	5,0 kN-version:	2 s/mm up to 250 s/mm (standard 4 s/mm)		
Stroking speed of the Fail-Safe protection	2,0 kN-version:	0,75 s/mm up to 4 s/mm		
	5,0 kN-version:	2 s/mm up to 4 s/mm		
Set point range	adjustable 0(4) - 20 mA, 0(2) - 10 V			
	optional binary input signal (24V DC)			
Feed back	adjustable 0(4) - 20 mA, 0(2) - 10 V			
cycles (Fail-Safe)	500000			
life-time (Fail-Safe)	10 years			
duty cycle	100%			
Self Monitoring	monitoring of the driving power, set point, actuator temperature, temperature of the electronic etc.			
Diagnostic function	storage of motor and total service life, temperature- and way classes			
Valve adaptation	automatic stroke adjustment to suit valve limits			
additional inputs	binary input			
additional outputs	2 alarm outputs			
Electrical connection	Power supply M20x1.5 (optional NPT 1/2")			
	Signal/position feedback 2x M16x1.5			

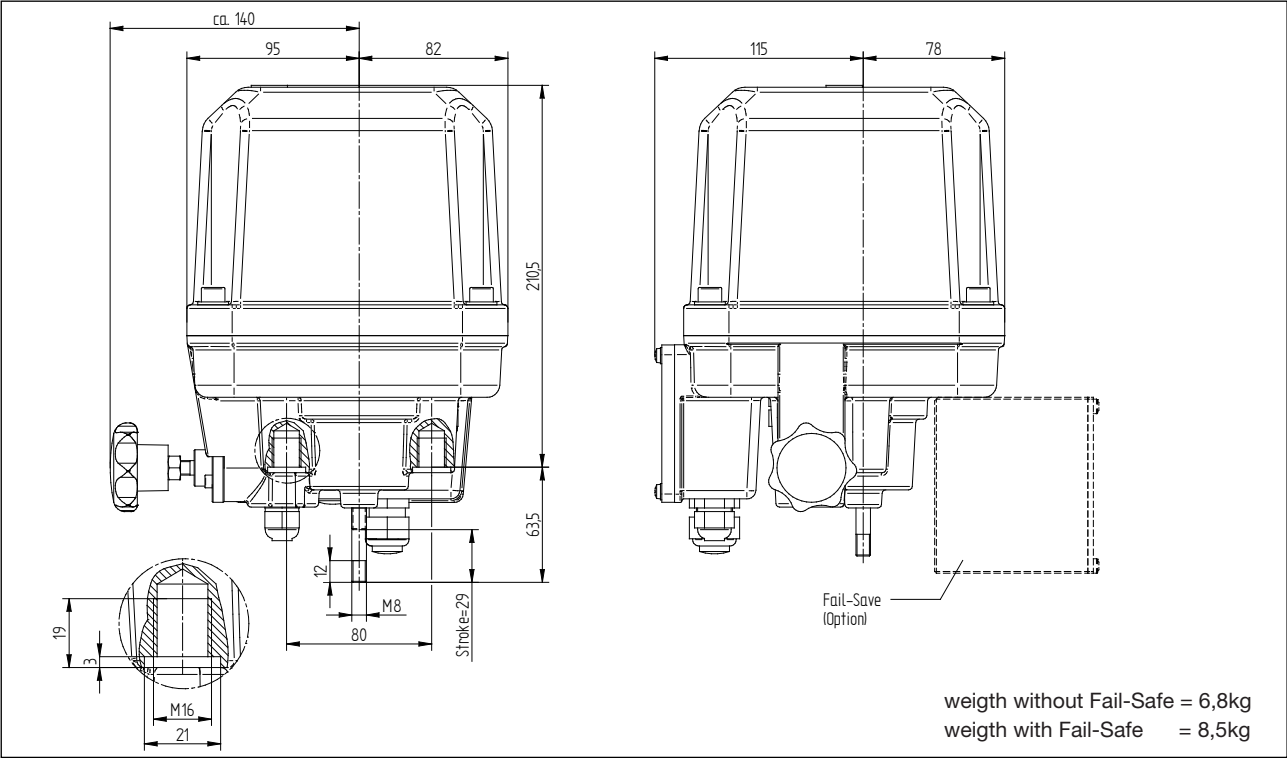
Options

2 additional stroke limit switches	free adjustable volt free contacts (open/close)
Fail safe protection	Mounted in own body at actuator
(in preparation)	Safety position freely selectable
Communication software	with communication link, for parametrization and diagnosis of the actuator
Bluetoothmodul BT-1	Wireless connection to DeviceConfig configuration software (upgrade option)

Electric actuator 2030

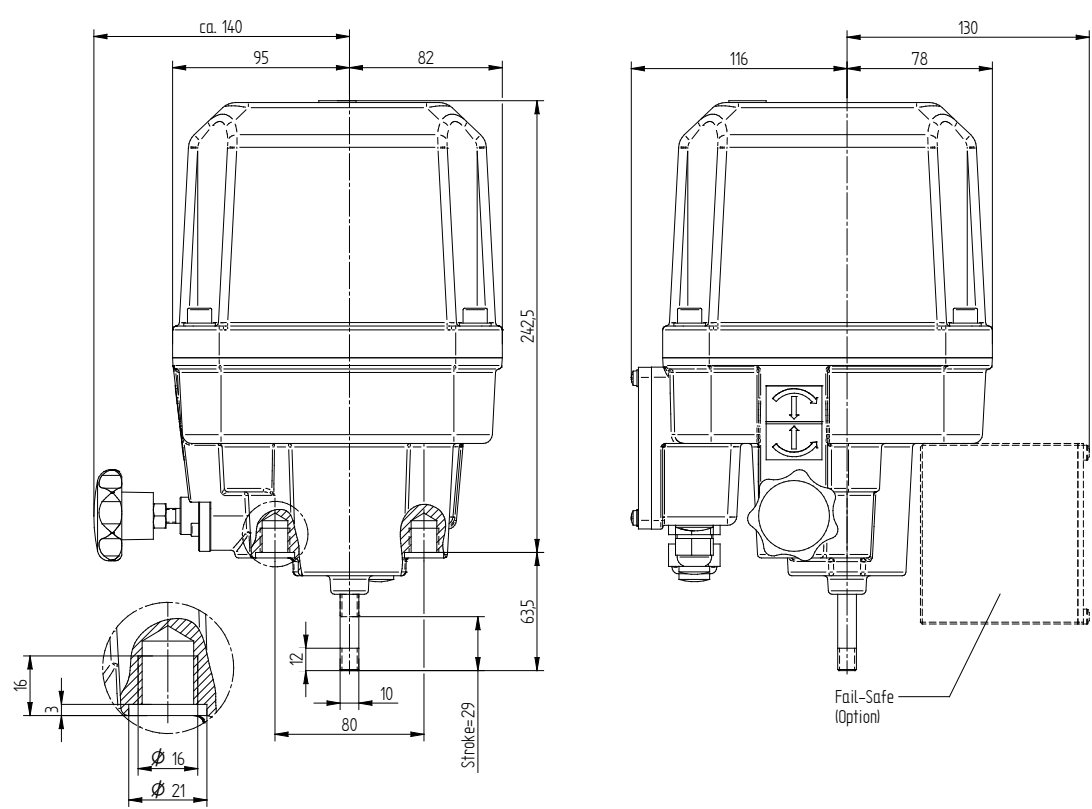
dimensions and weight without mounting kit

2kN-actuator



dimensions in mm

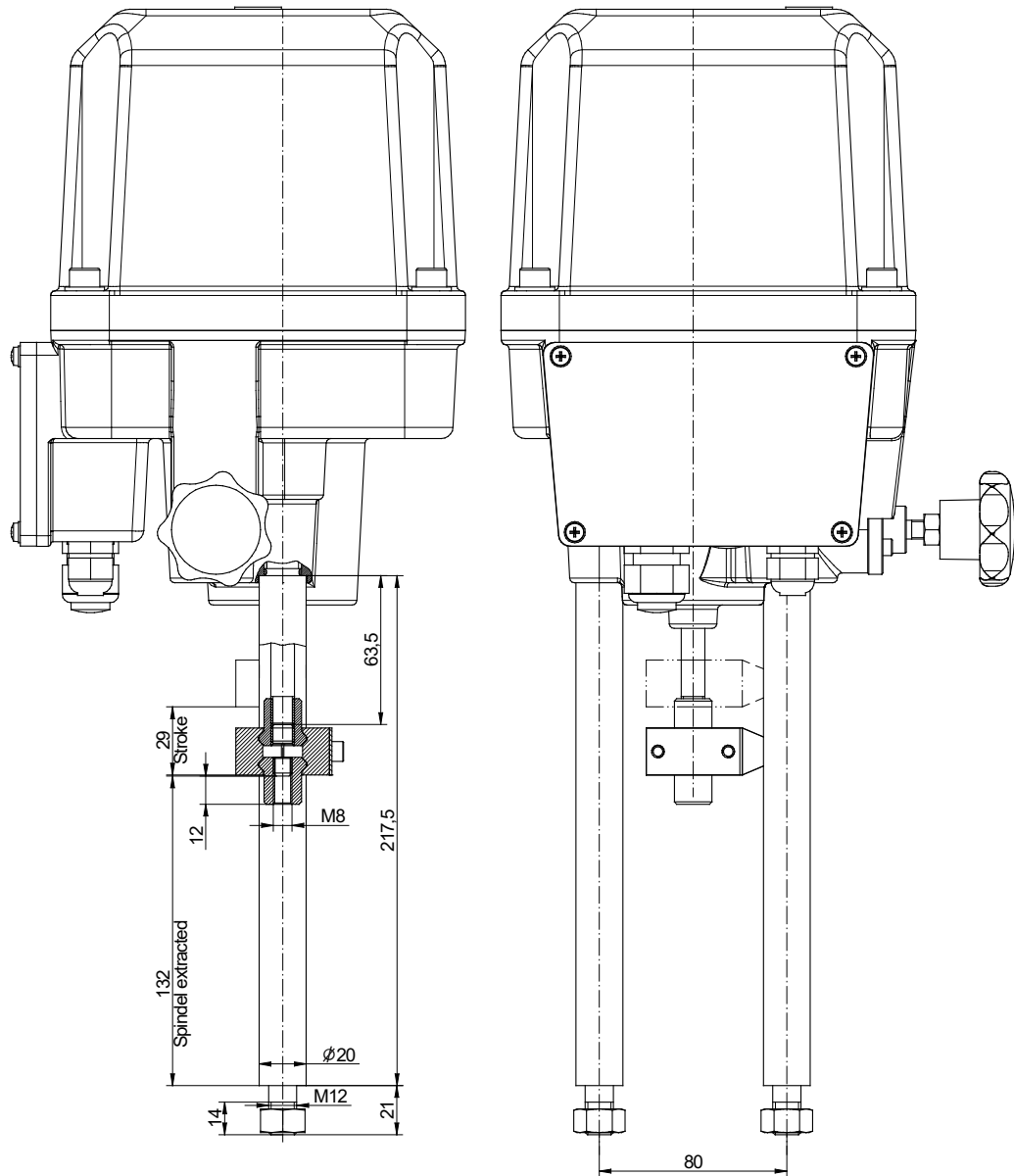
5kN-actuator



dimensions in mm

Electric actuator 2030

dimensions and weight with mounting kit



weight 2kN-actuator without Fail-Safe = 8kg
weight 2kN-actuator with Fail-Safe = 9,7kg
weight 5kN-actuator without Fail-Safe = 8,9kg
weight 5kN-actuator with Fail-Safe = 10,6kg

dimensions in mm

Electric actuator 2032

Compact linear actuator for the installation on valves

- small deadband
- robust aluminium housing
- multiple setting possibilities
- metal coupling
- manual override
- interchangeable with Belimo-actuators with UNV-002 console



Technical data

Function	Control				On/Off	
Motor type	CA24C	CA260C	CA24C-R	CA260C-R	CA24	CA260
Mains connection	24 V AC/DC	100-240 V AC	24 V AC/DC	100-240 V AC	24 V AC/DC	100-240 V AC
Set point range	(0)2-10 V / (0)4-20 mA				3-point**	
Mains frequency	50/60 Hz				50/60 Hz	
Feedback	(0)2-10 V / (0)4-20 mA				optional	
Dead band	±0.6 % of the entire stroke				-	
Repeatability	±0.3 % of the entire stroke				-	
Limit switch	2				optional	
Potentiometer feedback	-				optional	
Max. switching capacity	24 V AC/DC 200 mA				250 V AC/DC 1 A	
Actuating speed	1.5 / 2 / 3 s/mm (Standard: 2 s/mm)				2 or 3 s/mm (Standard: 3 s/mm)	
Safety functions	Monitoring of tensile force, set point, temperature of the electronics, etc.				Tensile force monitoring	
Diagnostic functions	Storage of motor and total operating time, temperature and directional classes, etc.				-	
Fail Safe position	-	-	freely adjustable		-	
Load	500 Ω for current set point / 95 kΩ for voltage set point				-	
Max. power consumption	13 W	12 W	13 W	12 W	13 W	12 W
Input heating resistor	10 W					
Starting current	6 A	2,5 A	6 A	2,5 A	6 A	2,5 A
Actuating power	800 N					
Protection class (EN 60529)	IP 65: Dustproof, protection against water jets from any angle					
Adm. Ambient temperature	-10 °C to +60 °C					
Duty cycle	Storage of motor and total operating time, temperature and directional classes, etc.					

*: for control with volt-signal split range adjustments are possible

**:: Minimum on-time 200 ms

Electric actuator 2032

actuator with fail safe position (option)

- Safety function at power failure
- Energy supply via power capacitors
- Safety position selectable open, closed or in any valve position
- Automatic monitoring of the state of charge of the capacitors

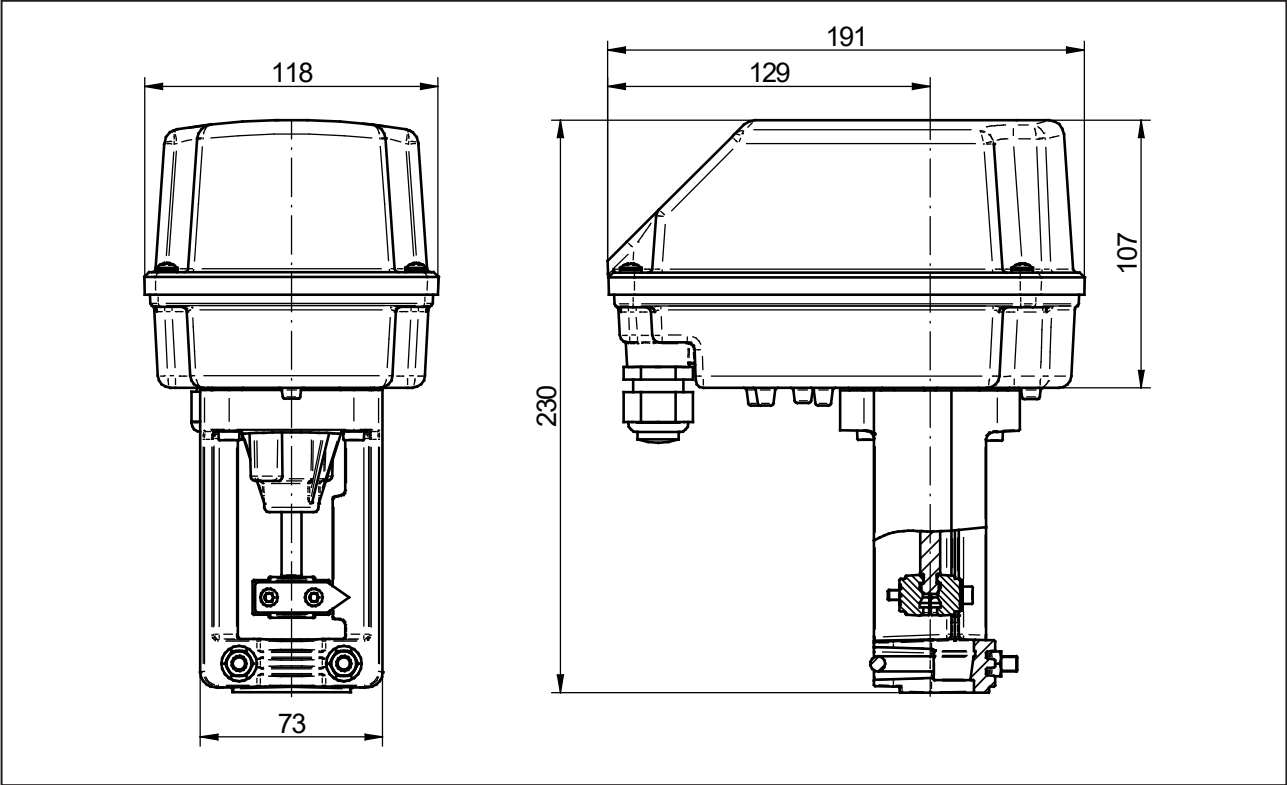
Ordering number-system

		article number:																
		2032/						-										...
Version																		
e.g. 010 = Version 1.0		xxx																
Item																		
Actuator complete			A															
Model																		
0.8 kN-driving force without control electronics (3-point control)				A														
0.8 kN driving force with control electronics				C														
Supply voltage																		
100-240 V, 50/60 Hz					0													
24 V AC/DC					1													
Mounting kit																		
without mounting kit						0												
Including mounting kit (console) and standard coupling						1												
Fail safe position																		
without fail save position							-											
Safety position closed if power fails (valve stem travels out of actuator)							1											
Safety position open if power fails (valve stem travels in to actuator)							2											
Communication																		
Standard							-											
Bluetooth auxiliary module							B											
Control signal																		
standard, for actuators with position electronics 4-20 mA (4 mA closed, 20 mA open)							-											
0-10 V (0 V closed, 10 V open)							3											
2-10 V (2 V closed, 10 V open)							4											
inverted function, 4-20 mA or 2-10 V, 20 mA (10 V) closed, 4 mA (2 V) open							5											
Control signal adjustment split range -adjustment according to specifications of the customer							8											
Limit switch																		
without							-											
Two stroke-dependent limit switches with actuator without control electronics							2											
Stroking speed																		
Standard							-											
Adjustments																		
Standard							-											
Accessories																		
without							-											
heating resistor							H											

ordering example: 2032/010AC0-1-B
 Compact motor actuator, version 1.0, actuator 0.8 kN, supply voltage 100-240 V
 50/60 Hz, without fail save position, with Bluetooth auxiliary module, control signal
 standard: 4-20 mA

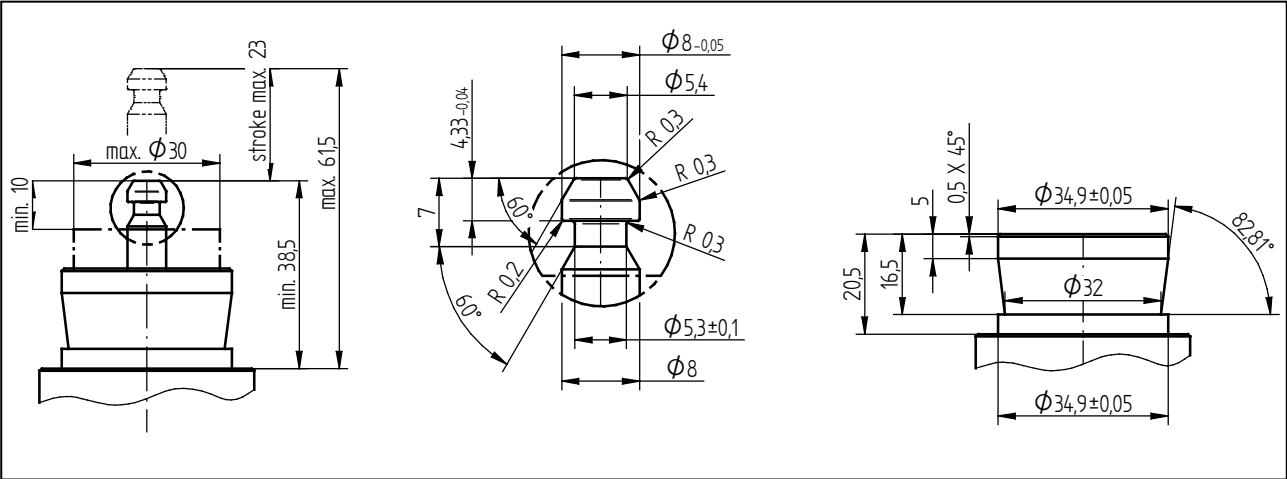
Electric actuator 2032

dimensions and weight



weight = 2 kg

dimensions for mounting on a valve



dimensions in mm



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