

Electric turning actuators

- **High precision regulating actuators**
- **24 V DC**
- **Analogue control 4-20 mA**
- **Maximum torque 4 500 Nm**
- **For all types of valves**



Oden P50R, P220R and P500R

Features

- For all types of valves and applications
- Complete built-in servo system
- 4-20 mA control and position signal
- Programmable with Oden Valve Program (OVP)
- Automatic calibration
- Low weight and compact design.

Benefits

- Uses the unique Oden Gear System™ providing extremely high efficiency.
- Allows easy and fast mounting without need for alignment to the valve spindle.
- No back-up accumulators or sensitive electromechanical components are used.
- Combines modern electronics with unique gear technology, providing an extremely accurate and compact actuator.

Parameters	P30R	P30EXR	P50R	P220R	P500R	P30G
Type of actuator	Turning high speed	Turning high speed ATEX	Turning	Turning	Turning	Turning with added gear
Torque [Nm]	5-30	5-30	5-50	10-190	10-400	400-4500
Min. closing time 90° [s]	1,0	1,0	6,0 ¹⁾	6,0 ¹⁾	6,0 ¹⁾	- ³⁾
Working range [turns]	33 (160 ²⁾)	33 (160 ²⁾)	33 (160 ²⁾)	33 (160 ²⁾)	33 (160 ²⁾)	- ³⁾
Precision [degrees]	± 0.5	± 0.5	± 0.1	± 0.1	± 0.1	- ³⁾
Sealing	IP68	IP68	IP67	IP67	IP67	IP68/65
Surrounding temp. [°C]	-20—+60	-20—+60	-20—+60	-20—+60	-20—+60	-20—+60
Installation in all directions	Yes	Yes	Yes	Yes	Yes	Yes
ATEX-certified	No	Yes	No	No	No	No/Yes
Weight [kg]	3	3	5	8	13	9-94

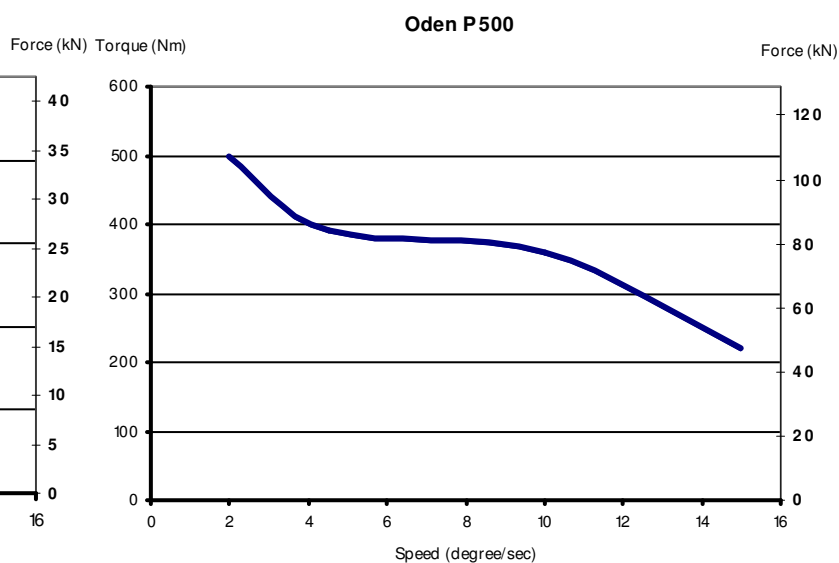
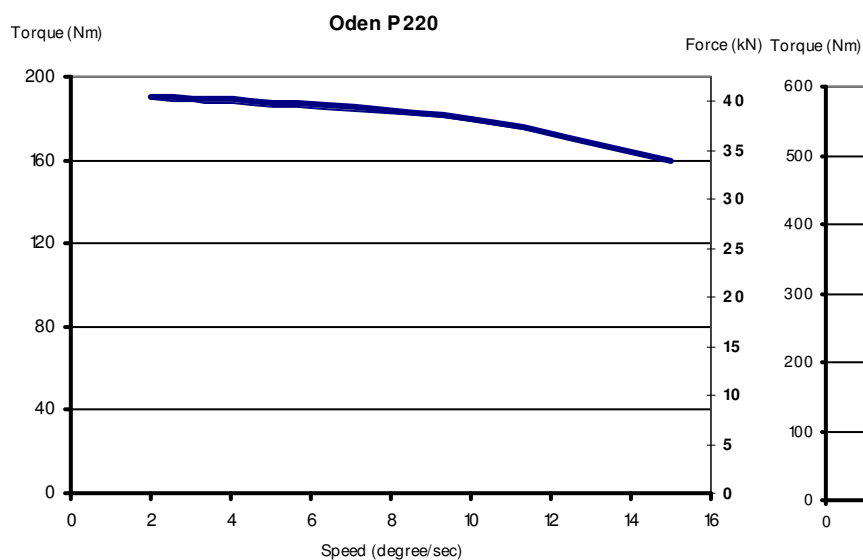
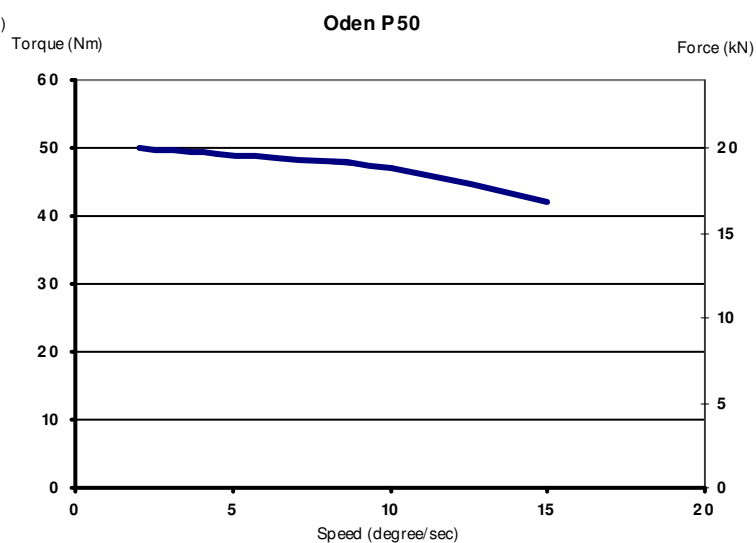
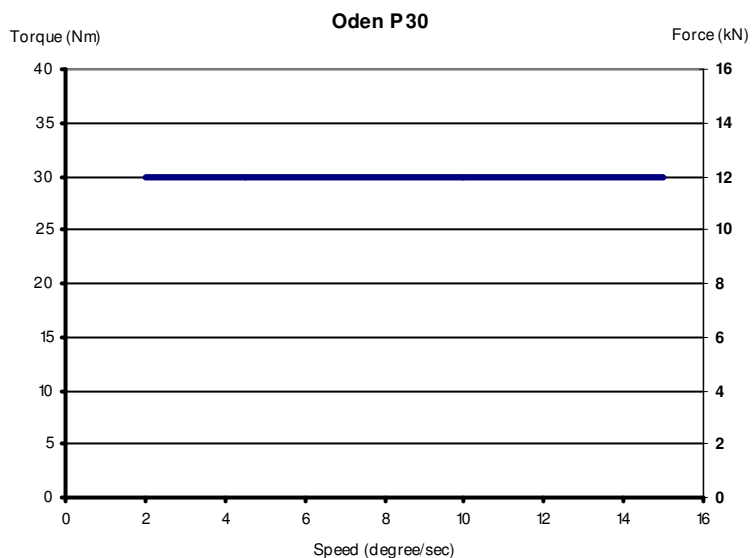
Electrical data	P30R	P30EXR	P50R	P220R	P500R	P30G
Type of motor	Brushless	Brushless	Step	Step	Step	Brushless
Voltage [VDC]	24 ± 15%	24 ± 15%	24 ± 15%	24 ± 15%	24 ± 15%	24 ± 15%
Max. power [W]	200	200	70	120	160	200
Average power [W]	100	100	35	60	80	100
Max. current [A]	8	8	3	5	7	8
Average current [A]	2	2	1	2	3	2
Analogue control [mA]	4-20	4-20	4-20	4-20	4-20	4-20
Return (position) signal [mA]	4-20	4-20	4-20	4-20	4-20	4-20

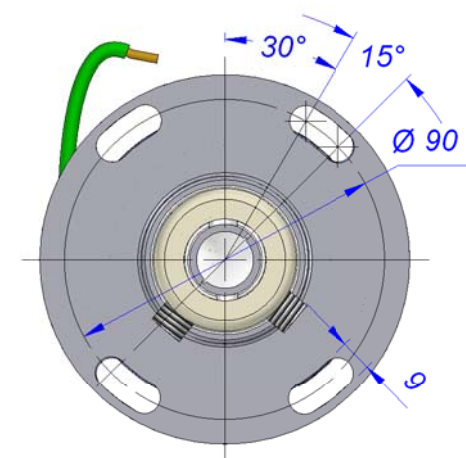
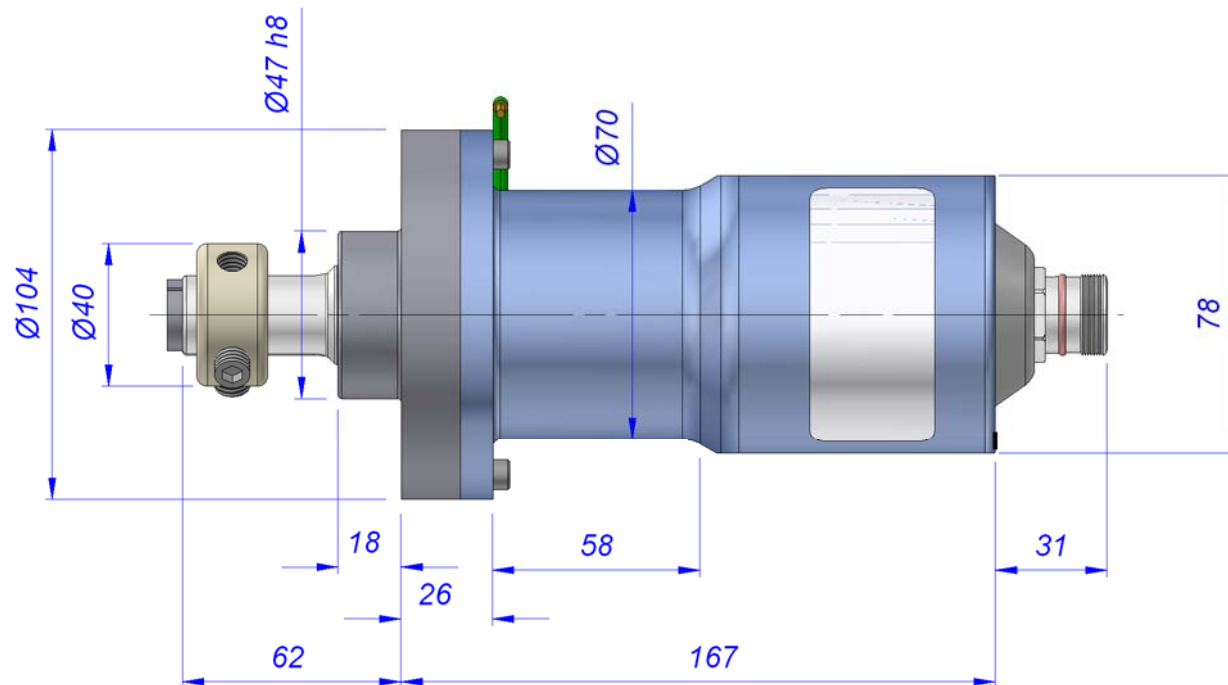
Material data	
Aluminium servo housing	SS 4212-06, blue anodizing
Aluminium components	SS 4212-06, black anodizing
Steel components	SS 2346, SS 2333

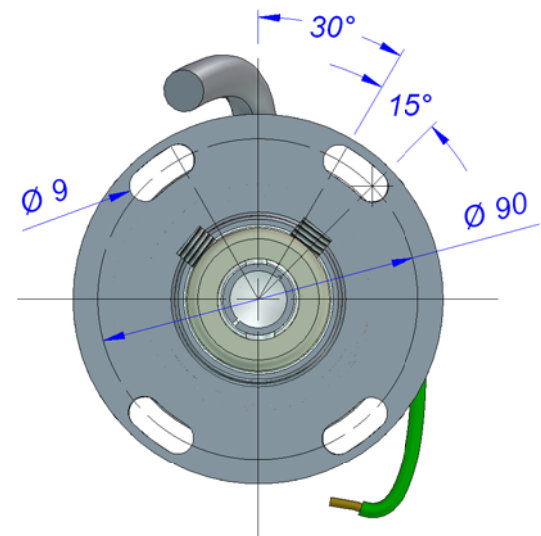
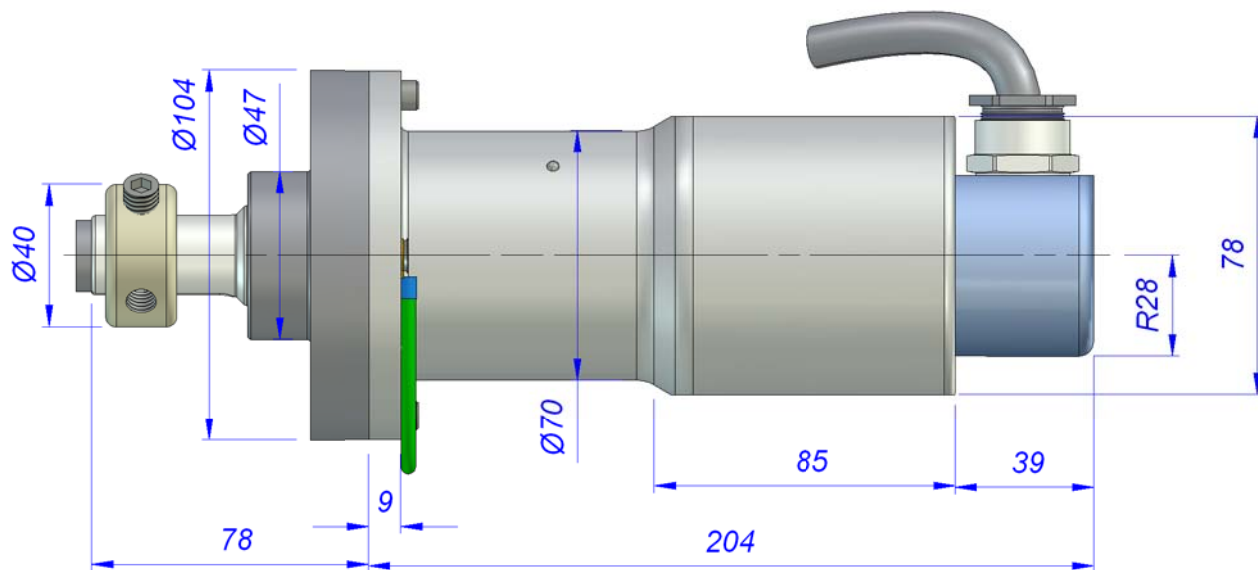
¹⁾ Speed depending on chosen torque.

²⁾ UPS needed.

³⁾ Parameters depending on chosen size of gear.







	Scale 1:2	Designer GR	Dat./rev.nr 2006.06.26
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