

SANDERMARINE

MARINE + OFFSHORE EQUIPMENT

Sander Marine GmbH&Co.KG

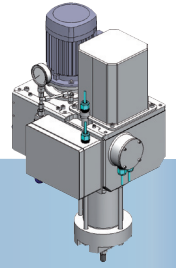
Produktlinie **AUTRONIC**
Hydrotechnik

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AUTRONIC

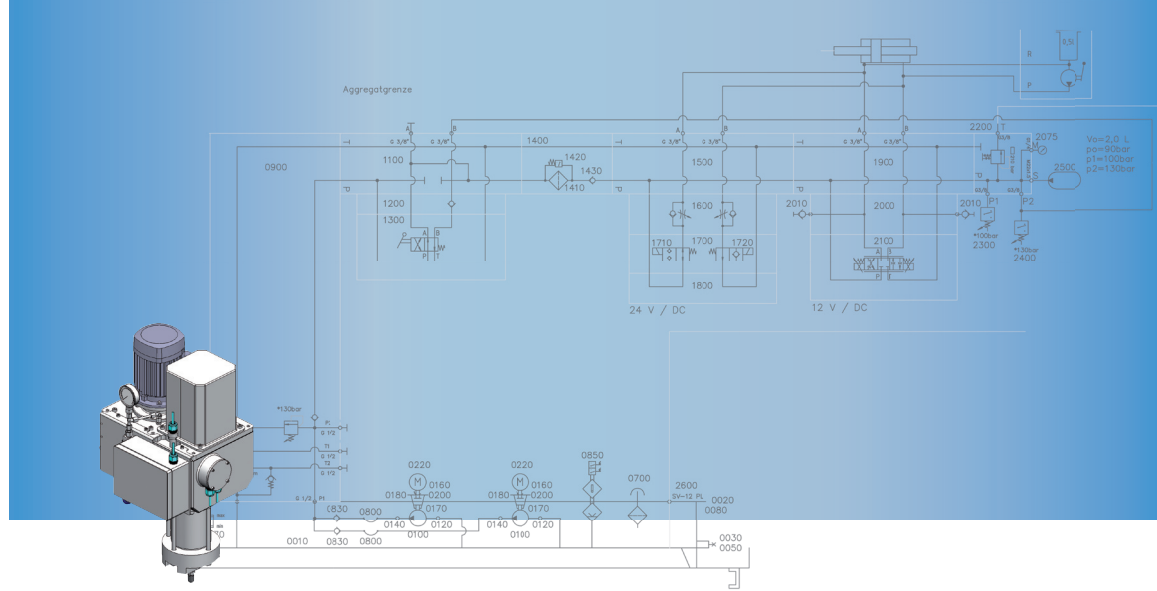
Reglersysteme



Electro Hydraulic Actuator **VP40 VP50 VP250**

Autronic Reglersysteme

Electro Hydraulic Actuators and Regulators



AUTRONIC

Reglersysteme

Autronic Reglersysteme is one of the leading manufacturers of electro hydraulic actuators for industrial valves. Our actuators installed at all kind of pipelines and steam valves at power stations.

Our experience of more than 25 years, the close relationship to our customers and a continuous research and development on highest quality level is one of the reasons of our success.

Our target: To be a reliable partner for our customers at any time, to be open to all wishes and questions to maintain a close relationship.

Since 1984 we are operating on the world market. Our customer loyalty shows that we are on the right way into the future. Distribution and service partners are providing support services in overseas countries.

Our leading and strong market position is due to the compactness and robustness as well as the low maintenance operating method of our actuators.

Our actuators are reliable in outdoor and hazardous environment. At salty sea air, on the top of the Alps, the tropical area in India or in the desert of Egypt. Our actuators do their tough and precise job under all kind of climate conditions.

SIL



The unbeatable advantages of electro hydraulic actuators over electric or pneumatic actuators are:

- A high, storable oil pressure that can be generated on relatively low energy demands, which is available at the highest manipulating speed and extremely high pulling loads
- Overload protection for valves and accessories is simply realized with an installed pressure limiter
- High life span due to the lubricating and cooling properties of hydraulic oil
- Very high control accuracy
- Steady motion due to the low compressibility characteristics of hydraulic oil

Actuators for industrial valves are in operation under harsh conditions.

Extreme high or low ambient temperatures, vibrations, influence of weather as well as a potentially explosive atmosphere are our daily routine.

To fit the requirements and our own high level quality standards, every single actuator, leaving the Autronic workshop, is tested according to a standardized procedure on our test stand.

To guarantee the performance of our actuators according to the international requirements of safety, our certifications always up to date.

DIN ISO 9001:2008

Germanischer Lloyd Certification

ATEX:

TÜV Nord Cert

SIL classification:

INGENIEURBÜRO URBAN – Dipl.-Ing. J. Urban



General
Actuator
Specifications
VP40 VP50 VP250

Input Signal:

4 ...20mA (different analog/digital signal on request), Optional : intrinsically safe EEx ia

Oil Pump Motor:

3 phs. Motor , IP55, 230/400/500V 50/60Hz, DC Motor 110V, Optional : EEx de IIC T4

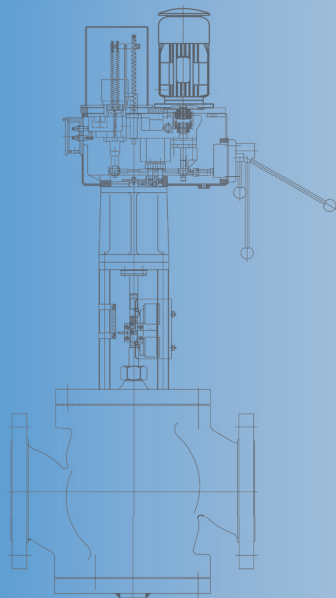
Control parameters:

(for stroke from 50mm), Response dead zone at no load +/-1%, Response dead zone at rated force +/- 0,7%, Temperature effect 1% at -20°C ... +50°C, Non-linearity 0,5%, Hysteresis 0,1%

Hydraulic fluid:

Viscosity 46 to 100 mm²/s (c St) at 40°C oil temperature respective VG 46 or 100 according to viscosity classification. Specifications of DIN 51524, hydraulic fluids H – L are required. Operation at ambient temperatures -20°C to+ 50°C are possible.

Optional
Actuator
Specifications
VP40 VP50 VP250



Hazardous Certified Enclosure:

Standard Ex type certificate TÜV 04 ATEX 2560, Flame proof classification: II 2 G EEx ia IIC T4

Fail Safe mode:

Fail safe operation in case of power failure (Hydraulic pump motor) and/or by external signal are realizable. Shut off time ≤ 1sec./stroke is possible (Throttling up to 60sec. optional)

Fail lock mode:

Fail lock mode in case of power failure available.

Position Feedback Transmitter:

4...20mA Signal (Optional EEx ia)

Oil pressure, Oil temperature and Oil level Control:

Several options available as well as combination. At hazardous area certified actuators part of scope of delivery.

Oil Heater, Oil Cooling:

Available on request for extreme ambient temperatures.

Throttling of control speed:

To adjust the control speed for a range of 100% to 10% of the rated value.

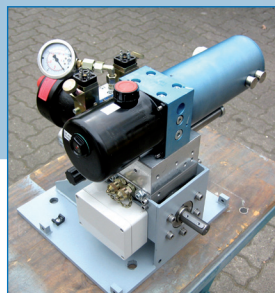
Limit Switches:

As mechanical version (roller lever) or proximity switch for signaling end positions.

Customized Solutions:



Low Pleaser Cylinder



Rotation Actuator



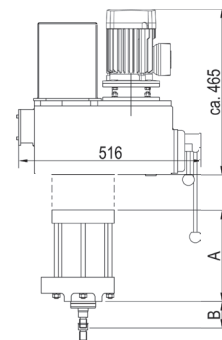
Large Stroke



Control power and dimension VP40 VP50 VP250

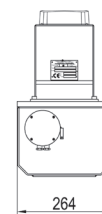
Control power and dimension VP40

Type	Control power	Control speed	Stroke	Dimension A	Dimension B
Vp40.500	5.000 N	8,0mm/sek.	100mm	200mm	85mm
Vp40.1000	10.000 N	4,0mm/sek.	100mm	200mm	85mm
Vp40.2000	20.000 N	2,0mm/sek.	100mm	244mm	70mm
Vp40.3600	36.000 N	1,1mm/sek.	100mm	274mm	85mm
Vp40.5000	50.000 N	0,8mm/sek.	100mm	285mm	90mm



Control power and dimension VP250

Type	Control power	Control speed	Stroke	Dimension A	Dimension B
Vp250.500	5.000 N	55mm/sek.	100mm	200mm	85mm
Vp250.1000	10.000 N	28mm/sek.	100mm	200mm	85mm
Vp250.2000	20.000 N	14mm/sek.	100mm	257mm	75mm
Vp250.2500	25.000 N	7,7mm/sek.	100mm	270,5mm	80mm
Vp250.3600	36.000 N	7,7mm/sek.	100mm	275mm	85mm
Vp250.5000	50.000 N	6,0mm/sek.	100mm	285mm	90mm
Vp250.9000	90.000 N	3,0mm/sek.	100mm	280mm	80mm
Vp250.15000	150.000 N	2,0mm/sek.	100mm	315mm	120mm



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